



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 43 November 2021

County of San Mateo,
Plumbing



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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2021.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

The Adjustment Factors Include:

BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
 - home office overhead
 - insurance, bonds, and indemnification
 - project meetings, training, management and supervision
 - mobilization and close-out for the contract and each Job Order and
 - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

CONSTRUCTION RELATED COSTS:

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

PRICE VARIATIONS:

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

GENERAL COSTS:

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:

Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
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- No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

General Interpretations:

WORKING HEIGHT:

- Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

FIELD ENGINEERING:

- Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

ASSEMBLIES:

- Assembly unit prices take precedence over individual component pricing.

TESTING:

- Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

MISCELLANEOUS:

- For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

SPECIFICATIONS:

- Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

November 2021

Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

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Using The Construction Task Catalog®

Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners



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		General Requirements	01
		Price and Payment Procedures	01 20
		Unit Prices	01 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 General Requirements

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-0001 Reimbursable Fees ^(01 22 16)

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
		Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.	

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates ^(01 22 20)

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002	HR	Asbestos Removal Worker.....	67.27
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	3.36
		For Apprentice, Deduct	-13.45
01 22 20 00-0003	HR	Insulator.....	130.02
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	6.50
		For Apprentice, Deduct	-26.00
01 22 20 00-0004	HR	Boilermaker.....	107.50
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.38
		For Apprentice, Deduct	-21.50
01 22 20 00-0005	HR	Brick Layer.....	103.89
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.19
		For Apprentice, Deduct	-20.78
01 22 20 00-0006	HR	Carpenter.....	115.85
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.79
		For Apprentice, Deduct	-23.17
01 22 20 00-0007	HR	Carpet, Linoleum.....	113.58
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.68
		For Apprentice, Deduct	-22.72
01 22 20 00-0008	HR	Cement Mason.....	82.71
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.14
		For Apprentice, Deduct	-16.54
01 22 20 00-0009	HR	Drywall Finisher.....	108.90
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.45
		For Apprentice, Deduct	-21.78
01 22 20 00-0010	HR	Electrician.....	136.06
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	6.80
		For Apprentice, Deduct	-27.21
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A).....	104.83
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A).....	102.52
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	5.13
		For Apprentice, Deduct	-20.50
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A).....	100.28
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3).....	99.77
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.99
		For Apprentice, Deduct	-19.95
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4).....	97.95
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5).....	96.30
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0017	HR	Equipment Operator, Light (Group 6).....	94.57
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreman, Add	4.73
		For Apprentice, Deduct	-18.91
01 22 20 00-0018	HR	Equipment Operator, Light (Group 7).....	93.08
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0019 HR Equipment Operator, Light (Group 8).....	91.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Glazier	108.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.41	
For Apprentice, Deduct	-21.65	
01 22 20 00-0021 HR Laborer	78.30	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Lather.....	108.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.42	
For Apprentice, Deduct	-21.67	
01 22 20 00-0023 HR Marble Setter	110.57	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.53	
For Apprentice, Deduct	-22.11	
01 22 20 00-0024 HR Millwright.....	106.53	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.31	
01 22 20 00-0025 HR Mold Removal Worker	82.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.11	
For Apprentice, Deduct	-16.46	
01 22 20 00-0026 HR Painter, Ordinary.....	92.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.64	
For Apprentice, Deduct	-18.54	
01 22 20 00-0027 HR Painter, Structural Steel.....	97.02	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.85	
For Apprentice, Deduct	-19.40	
01 22 20 00-0028 HR Paperhanger	92.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.64	
For Apprentice, Deduct	-18.54	
01 22 20 00-0029 HR Pile Drivers	117.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.87	
For Apprentice, Deduct	-23.46	
01 22 20 00-0030 HR Plasterer	103.56	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.18	
For Apprentice, Deduct	-20.71	
01 22 20 00-0031 HR Plumber	139.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.97	
For Apprentice, Deduct	-27.89	
01 22 20 00-0032 HR Powderman.....	82.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.12	
For Apprentice, Deduct	-16.49	
01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	100.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.09	
01 22 20 00-0034 HR Roofer, Composite.....	106.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.33	
01 22 20 00-0035 HR Roofer, Metal	169.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	8.49	
For Apprentice, Deduct	-33.94	
01 22 20 00-0036 HR Roofer, Tile/Slate	106.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.33	
01 22 20 00-0037 HR Sheet Metal Worker	138.86	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.94	
For Apprentice, Deduct	-27.77	
01 22 20 00-0038 HR Sprinkler Installer	133.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.68	
For Apprentice, Deduct	-26.72	
01 22 20 00-0039 HR Steam / Pipe Fitter	139.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.97	
For Apprentice, Deduct	-27.89	
01 22 20 00-0040 HR Stone Mason.....	102.95	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.15	
For Apprentice, Deduct	-20.59	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0041 HR Iron Worker (Structural)	103.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.16	
For Apprentice, Deduct	-20.65	
01 22 20 00-0042 HR Tile Layer	92.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.62	
For Apprentice, Deduct	-18.49	
01 22 20 00-0043 HR Terrazzo Worker	100.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.06	
01 22 20 00-0044 HR Truck Driver, Light (Group 1)	79.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.99	
For Apprentice, Deduct	-15.95	
01 22 20 00-0045 HR Truck Driver, Medium (Group 2)	80.18	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0046 HR Truck Driver, Heavy (Group 3)	80.59	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.03	
For Apprentice, Deduct	-16.12	
01 22 20 00-0047 HR Truck Driver, Heavy (Group 4)	81.08	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class I Diver	204.13	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR Class III Diver Tender	123.27	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR D1 Certified Welder	108.93	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0051 Rates For Services (01 22 20)		
01 22 20 00-0052 HR Watch/Guard Person, Unarmed	34.42	
01 22 20 00-0053 HR Watch/Guard Person, Armed	44.36	
01 22 20 00-0054 HR Surveyor (Rod Person)	99.08	
01 22 20 00-0055 HR Senior Surveyor (Party Chief)	108.23	
01 22 20 00-0056 HR Surveyor (Instrument person)	103.50	
01 22 20 00-0057 HR On-Site Certified Materials Testing Technician	96.92	
01 22 20 00-0058 HR Certified Industrial Hygienist	130.82	
01 22 20 00-0059 MI Mileage For Professional Services (Engineering, Surveying, Etcetera)	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0060 HR Fire Watch Laborer	78.30	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0061 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0062 HR Principal Architect	212.52	
01 22 20 00-0063 HR Senior Architect	187.22	
01 22 20 00-0064 HR Architect	142.94	
01 22 20 00-0065 HR Principal Engineer	212.52	
01 22 20 00-0066 HR Senior Engineer	161.92	
01 22 20 00-0067 HR Engineer	129.03	
01 22 20 00-0068 HR Draft Person	76.53	
01 22 20 00-0069 HR Project Manager	151.80	
01 22 20 00-0070 Rates For Traffic Control (01 22 20)		
01 22 20 00-0071 DAY Pilot Vehicle With Driver	957.60	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0072 HR Flagperson For Traffic Control	78.30	
01 22 20 00-0073 Mobilize Equipment (01 22 20)		
01 22 20 00-0074 HR Escort Vehicle With Driver	89.23	
01 22 20 00-0075 HR Transport Vehicle With Driver	122.32	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0070 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0002	Man Lifts <small>(01 22 23 00-0001)</small>	
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003	Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0003)</small>	
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform	428.11
	<i>For Four-Wheel Drive, Add</i>	96.32
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform	1,077.18
	<i>For Four-Wheel Drive, Add</i>	242.37
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform	2,416.75
	<i>For Four-Wheel Drive, Add</i>	543.77
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform	628.36
	<i>For Four-Wheel Drive, Add</i>	141.38
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform	1,498.38
	<i>For Four-Wheel Drive, Add</i>	337.14
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform	3,279.88
	<i>For Four-Wheel Drive, Add</i>	737.97
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform	1,222.18
	<i>For Four-Wheel Drive, Add</i>	274.99
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform	2,962.24
	<i>For Four-Wheel Drive, Add</i>	666.50
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform	6,214.50
	<i>For Four-Wheel Drive, Add</i>	1,398.26
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform	1,740.06
	<i>For Four-Wheel Drive, Add</i>	391.51
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform	4,189.95
	<i>For Four-Wheel Drive, Add</i>	942.74
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform	10,440.36
	<i>For Four-Wheel Drive, Add</i>	2,349.08
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform	2,119.84
	<i>For Four-Wheel Drive, Add</i>	476.96
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform	5,406.62
	<i>For Four-Wheel Drive, Add</i>	1,216.49
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform	12,290.90
	<i>For Four-Wheel Drive, Add</i>	2,765.45
01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small>	
Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	383.98
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	963.45
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,317.86
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	488.70
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,068.17
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,651.57
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	628.34
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,452.15
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,246.40
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,096.10
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,583.16
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	6,281.95
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,129.36
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,026.68
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	12,287.44
01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small>	
Note: For use on paved surfaces.		
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	383.98
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	963.45
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,317.86
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	383.98
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	963.45
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,317.86
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	474.74
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,026.28
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,548.25
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	474.74
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,026.28
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,548.25
01 22 23 00-0050	Platform Lifts <small>(01 22 23 00-0001)</small>	
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051	Electric, Scissor Platform Lifts <small>(01 22 23 00-0050)</small>	
Note: For use on paved surfaces.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift.....	159.72	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift.....	319.44	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift.....	653.40	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift.....	174.24	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift.....	348.48	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift.....	696.96	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift.....	225.06	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift.....	450.12	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift.....	965.58	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift.....	290.40	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift.....	573.54	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift.....	1,270.50	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift.....	312.18	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift.....	609.84	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift.....	1,379.40	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	406.56	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,009.14	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	2,809.62	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	326.70	
<i>For Four-Wheel Drive, Add</i>		
	<i>65.34</i>	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	638.88	
<i>For Four-Wheel Drive, Add</i>		
	<i>127.78</i>	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,560.90	
<i>For Four-Wheel Drive, Add</i>		
	<i>312.18</i>	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	333.96	
<i>For Four-Wheel Drive, Add</i>		
	<i>66.79</i>	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	762.30	
<i>For Four-Wheel Drive, Add</i>		
	<i>152.46</i>	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,669.80	
<i>For Four-Wheel Drive, Add</i>		
	<i>333.96</i>	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	370.26	
<i>For Four-Wheel Drive, Add</i>		
	<i>74.05</i>	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	849.42	
<i>For Four-Wheel Drive, Add</i>		
	<i>169.88</i>	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	1,887.60	
<i>For Four-Wheel Drive, Add</i>		
	<i>377.52</i>	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	392.04	
<i>For Four-Wheel Drive, Add</i>		
	<i>78.41</i>	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	914.76	
<i>For Four-Wheel Drive, Add</i>		
	<i>182.95</i>	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,250.60	
<i>For Four-Wheel Drive, Add</i>		
	<i>450.12</i>	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	733.26	
<i>For Four-Wheel Drive, Add</i>		
	<i>146.65</i>	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,611.72	
<i>For Four-Wheel Drive, Add</i>		
	<i>322.34</i>	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	3,963.96	
<i>For Four-Wheel Drive, Add</i>		
	<i>792.79</i>	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	143.20	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	405.73	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	819.42	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	198.89	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	421.64	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	1,431.99	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	334.13	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	811.46	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	2,370.74	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	358.00	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	891.02	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	2,681.00	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	763.73	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	793.96	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator.....	1,173.19	
<i>For Equipment Without Operator, Deduct</i>		
	<i>-644.75</i>	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator.....	4,809.08	
<i>For Equipment Without Operator, Deduct</i>		
	<i>-3,223.76</i>	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator	18,005.01	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator	1,240.45	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator	5,025.26	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator	18,581.49	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator	1,413.39	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator	5,337.52	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator	19,254.05	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator	1,797.71	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	6,586.56	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	22,616.85	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	1,989.87	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	7,259.12	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	25,018.85	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0121 Air Equipment (01 22 23)		
01 22 23 00-0122 Air Compressors (01 22 23 00-0121)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor	154.66	
01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor	463.97	
01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor	1,288.81	
01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor	185.59	
01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor	546.46	
01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor	1,546.58	
01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor	247.45	
01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor	556.77	
01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor	1,226.95	
01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor	350.56	
01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor	886.70	
01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor	2,113.65	
01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor	779.47	
01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor	1,876.51	
01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor	4,676.84	
01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,092.91	
01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,449.77	
01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor	6,532.73	
01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,360.99	
01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,062.22	
01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,165.92	
01 22 23 00-0150 Portable Negative Air Machines (01 22 23 00-0121)		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0151 DAY Up To 2,000 CFM, Portable Negative Air Machine	81.38	
01 22 23 00-0152 WK Up To 2,000 CFM, Portable Negative Air Machine	334.24	
01 22 23 00-0153 MO Up To 2,000 CFM, Portable Negative Air Machine	1,009.97	
01 22 23 00-0154 EA First Stage Pre-Filter For Portable Negative Air Machines	14.19	
01 22 23 00-0155 EA Second Stage Pre-Filter For Portable Negative Air Machines	34.14	
01 22 23 00-0156 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	181.16	
01 22 23 00-0157 LF Flexible Exhaust Duct For Portable Negative Air Machines	1.37	
01 22 23 00-0158 Portable Air Scrubbers (01 22 23 00-0121)		
Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.		
01 22 23 00-0159 DAY Up To 1,000 CFM, Portable Air Scrubber	87.16	
01 22 23 00-0160 WK Up To 1,000 CFM, Portable Air Scrubber	362.28	
01 22 23 00-0161 MO Up To 1,000 CFM, Portable Air Scrubber	1,002.85	
01 22 23 00-0162 DAY >1,000 to 2,000 CFM, Portable Air Scrubber	110.26	
01 22 23 00-0163 WK >1,000 to 2,000 CFM, Portable Air Scrubber	456.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0164 MO >1,000 to 2,000 CFM, Portable Air Scrubber.....	1,338.88	
01 22 23 00-0165 DAY >2,000 To 5,000 CFM, Portable Air Scrubber.....	141.76	
01 22 23 00-0166 WK >2,000 To 5,000 CFM, Portable Air Scrubber.....	603.81	
01 22 23 00-0167 MO >2,000 To 5,000 CFM, Portable Air Scrubber.....	1,690.66	
01 22 23 00-0168 EA First Stage Pre-Filter For Portable Air Scrubbers	20.49	
01 22 23 00-0169 EA Second Stage Pre-Filter For Portable Air Scrubbers	28.89	
01 22 23 00-0170 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers.....	307.17	
01 22 23 00-0171 Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0172 Pavers And Rollers (01 22 23 00-0171)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0173 Pavers (01 22 23 00-0172)		
01 22 23 00-0174 DAY 10' Wide Paving Machine With Full-Time Operator	3,213.16	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0175 WK 10' Wide Paving Machine With Full-Time Operator	13,650.85	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0176 MO 10' Wide Paving Machine With Full-Time Operator	51,794.30	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0177 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0172)		
01 22 23 00-0178 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,167.25	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0179 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,107.16	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0180 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	20,324.08	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0181 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,309.69	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0182 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,166.47	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0183 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	21,923.40	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0184 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,316.17	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0185 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	5,745.59	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0186 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	22,234.20	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0187 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0172)		
01 22 23 00-0188 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,225.52	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0189 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,175.79	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0190 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,719.06	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0191 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,497.47	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0192 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,726.17	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0193 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,454.36	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0194 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,562.22	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0195 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,134.09	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0196 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,593.96	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0197 Towed, Padfoot Rollers (01 22 23 00-0172)		
01 22 23 00-0198 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	123.02	
01 22 23 00-0199 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	356.12	
01 22 23 00-0200 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,048.95	
01 22 23 00-0201 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	155.40	
01 22 23 00-0202 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	433.82	
01 22 23 00-0203 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,845.38	
01 22 23 00-0204 Static Rollers (01 22 23 00-0172)		
01 22 23 00-0205 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,257.89	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	
01 22 23 00-0206 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,454.22	
<i>For Equipment Without Operator, Deduct</i>		
	-3,990.87	
01 22 23 00-0207 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	21,632.03	
<i>For Equipment Without Operator, Deduct</i>		
	-17,293.78	
01 22 23 00-0208 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,400.35	
<i>For Equipment Without Operator, Deduct</i>		
	-798.17	

01	General Requirements
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0209	WK		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	5,842.72	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0210	MO		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	22,706.88	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0211			Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0172)		
01 22 23 00-0212	DAY		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,212.57	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0213	WK		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,214.65	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0214	MO		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,531.28	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0215	DAY		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,296.75	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0216	WK		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,460.69	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0217	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,172.30	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0218	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,465.09	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0219	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,952.79	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0220	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,473.78	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0221			Steel Roadway Plates (01 22 23 00-0171)		
			Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0222	EA		Placement And Removal Of Steel Roadway Plates.....	50.85	
01 22 23 00-0223	DAY		1" x 4' x 8' Steel Plate	37.51	
01 22 23 00-0224	WK		1" x 4' x 8' Steel Plate	88.56	
01 22 23 00-0225	MO		1" x 4' x 8' Steel Plate	116.55	
01 22 23 00-0226	DAY		1" x 4' x 10' Steel Plate	50.01	
01 22 23 00-0227	WK		1" x 4' x 10' Steel Plate	112.53	
01 22 23 00-0228	MO		1" x 4' x 10' Steel Plate	137.53	
01 22 23 00-0229	DAY		1" x 5' x 10' Steel Plate	52.10	
01 22 23 00-0230	WK		1" x 5' x 10' Steel Plate	117.73	
01 22 23 00-0231	MO		1" x 5' x 10' Steel Plate	312.57	
01 22 23 00-0232	DAY		1" x 6' x 8' Steel Plate	33.34	
01 22 23 00-0233	WK		1" x 6' x 8' Steel Plate	75.02	
01 22 23 00-0234	MO		1" x 6' x 8' Steel Plate	200.04	
01 22 23 00-0235	DAY		1" x 6' x 10' Steel Plate	62.51	
01 22 23 00-0236	WK		1" x 6' x 10' Steel Plate	82.31	
01 22 23 00-0237	MO		1" x 6' x 10' Steel Plate	219.84	
01 22 23 00-0238	DAY		1" x 6' x 12' Steel Plate	87.52	
01 22 23 00-0239	WK		1" x 6' x 12' Steel Plate	112.00	
01 22 23 00-0240	MO		1" x 6' x 12' Steel Plate	303.19	
01 22 23 00-0241	DAY		1" x 8' x 10' Steel Plate	55.22	
01 22 23 00-0242	WK		1" x 8' x 10' Steel Plate	123.99	
01 22 23 00-0243	MO		1" x 8' x 10' Steel Plate	330.28	
01 22 23 00-0244	DAY		1" x 8' x 12' Steel Plate	100.02	
01 22 23 00-0245	WK		1" x 8' x 12' Steel Plate	123.99	
01 22 23 00-0246	MO		1" x 8' x 12' Steel Plate	600.13	
01 22 23 00-0247	DAY		1" x 8' x 16' Steel Plate	133.36	
01 22 23 00-0248	WK		1" x 8' x 16' Steel Plate	300.07	
01 22 23 00-0249	MO		1" x 8' x 16' Steel Plate	800.18	
01 22 23 00-0250	LF		Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.15	0.97
01 22 23 00-0251	EA		Removal And Resetting Of Steel Roadway Plate	28.25	
01 22 23 00-0252			Street Sweepers (01 22 23 00-0171)		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0253	DAY		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	955.91	
			<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0254	WK		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,572.72	
			<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0255	MO		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,206.31	
			<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0256	DAY		Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	1,677.94	
			Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
			<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0257	WK		Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	7,473.37	
			Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
			<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0258	MO		Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	29,562.76	
			Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
			<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0259			Earthmoving Equipment (01 22 23)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0260

Skid-Steer Loaders (01 22 23 00-0259)

Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.

01 22 23 00-0261	DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator		1,077.82	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0262	WK	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator		4,625.51	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0263	MO	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator		18,421.30	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0264	DAY	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator		1,162.51	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0265	WK	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator		4,778.76	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0266	MO	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator		18,757.38	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0267	DAY	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator		1,186.71	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0268	WK	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator		4,999.22	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0269	MO	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator		19,342.15	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0270	DAY	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		1,280.81	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0271	WK	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		5,308.41	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0272	MO	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		20,363.82	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0273	DAY	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		1,442.12	
		<i>For Equipment Without Operator, Deduct</i>		-756.53	
01 22 23 00-0274	WK	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		5,920.07	
		<i>For Equipment Without Operator, Deduct</i>		-3,782.63	
01 22 23 00-0275	MO	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator		21,869.43	
		<i>For Equipment Without Operator, Deduct</i>		-16,391.41	
01 22 23 00-0276	DAY	Hydraulic Hammer Attachment For Skid-Steer Loaders		268.86	
01 22 23 00-0277	WK	Hydraulic Hammer Attachment For Skid-Steer Loaders		893.96	
01 22 23 00-0278	MO	Hydraulic Hammer Attachment For Skid-Steer Loaders		2,379.41	
01 22 23 00-0279	DAY	Forklift Attachment For Skid-Steer Loaders		57.80	
01 22 23 00-0280	WK	Forklift Attachment For Skid-Steer Loaders		154.59	
01 22 23 00-0281	MO	Forklift Attachment For Skid-Steer Loaders		436.90	
01 22 23 00-0282	DAY	Backhoe Attachment For Skid-Steer Loaders		127.71	
01 22 23 00-0283	WK	Backhoe Attachment For Skid-Steer Loaders		306.50	
01 22 23 00-0284	MO	Backhoe Attachment For Skid-Steer Loaders		762.22	
01 22 23 00-0285	DAY	Broom Attachment For Skid-Steer Loaders		126.36	
01 22 23 00-0286	WK	Broom Attachment For Skid-Steer Loaders		342.80	
01 22 23 00-0287	MO	Broom Attachment For Skid-Steer Loaders		907.40	
01 22 23 00-0288	DAY	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders		110.23	
01 22 23 00-0289	WK	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders		303.81	
01 22 23 00-0290	MO	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders		829.43	
01 22 23 00-0291	DAY	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		30.38	
01 22 23 00-0292	WK	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		79.49	
01 22 23 00-0293	MO	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		233.79	
01 22 23 00-0294	DAY	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		40.91	
01 22 23 00-0295	WK	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		101.70	
01 22 23 00-0296	MO	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		303.93	
01 22 23 00-0297	DAY	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		59.61	
01 22 23 00-0298	WK	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		181.20	
01 22 23 00-0299	MO	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)		537.72	
01 22 23 00-0300	DAY	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)		12.10	
01 22 23 00-0301	WK	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)		28.23	
01 22 23 00-0302	MO	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)		75.28	

01 22 23 00-0303

Bulldozers (01 22 23 00-0259)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0304	DAY	70 HP, D3 Bulldozer With Full-Time Operator		1,228.56	
		<i>For Equipment Without Operator, Deduct</i>		-798.17	
01 22 23 00-0305	WK	70 HP, D3 Bulldozer With Full-Time Operator		5,688.05	
		<i>For Equipment Without Operator, Deduct</i>		-3,990.87	
01 22 23 00-0306	MO	70 HP, D3 Bulldozer With Full-Time Operator		22,328.49	
		<i>For Equipment Without Operator, Deduct</i>		-17,293.78	
01 22 23 00-0307	DAY	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator		1,431.57	
		<i>For Equipment Without Operator, Deduct</i>		-798.17	
01 22 23 00-0308	WK	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator		6,508.23	
		<i>For Equipment Without Operator, Deduct</i>		-3,990.87	
01 22 23 00-0309	MO	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator		24,845.84	
		<i>For Equipment Without Operator, Deduct</i>		-17,293.78	
01 22 23 00-0310	DAY	140 HP, D6 Bulldozer With Full-Time Operator		2,008.12	
		<i>For Equipment Without Operator, Deduct</i>		-798.17	
01 22 23 00-0311	WK	140 HP, D6 Bulldozer With Full-Time Operator		8,814.45	
		<i>For Equipment Without Operator, Deduct</i>		-3,990.87	
01 22 23 00-0312	MO	140 HP, D6 Bulldozer With Full-Time Operator		31,748.27	
		<i>For Equipment Without Operator, Deduct</i>		-17,293.78	

01	General Requirements
01 20	Price and Payment Procedures
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0313 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,519.72	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0314 WK 200 HP, D7 Bulldozer With Full-Time Operator	10,868.93	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0315 MO 200 HP, D7 Bulldozer With Full-Time Operator	37,919.85	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0316 DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,128.75	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0317 WK 335 HP, D8 Bulldozer With Full-Time Operator	13,305.08	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0318 MO 335 HP, D8 Bulldozer With Full-Time Operator	45,228.30	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0319 DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,469.81	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0320 WK 460 HP, D9 Bulldozer With Full-Time Operator	14,661.21	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0321 MO 460 HP, D9 Bulldozer With Full-Time Operator	49,288.55	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0322 Motor Scraper <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0323 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	1,770.17	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0324 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	7,878.85	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0325 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	28,944.40	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0326 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,162.96	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0327 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	9,450.02	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0328 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	33,671.23	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0329 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	2,542.43	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0330 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	10,961.27	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0331 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	38,198.33	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0332 Hydraulic Excavators <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0333 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,152.11	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0334 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,242.78	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0335 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	21,488.66	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0336 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,251.74	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0337 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	5,681.93	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0338 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	23,245.27	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0339 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,283.20	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0340 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	5,845.79	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0341 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	23,533.66	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0342 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,315.98	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0343 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	5,996.55	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0344 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	23,822.06	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0345 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,342.19	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0346 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	6,153.85	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0347 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	24,110.46	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0348 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,696.14	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0349 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,563.07	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0350 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	28,010.39	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0351 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,748.57	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0352 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	7,792.48	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0353 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	28,698.61 -17,293.78	
01 22 23 00-0354 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,846.89 -798.17	
01 22 23 00-0355 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,185.75 -3,990.87	
01 22 23 00-0356 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,878.42 -17,293.78	
01 22 23 00-0357 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,958.32 -798.17	
01 22 23 00-0358 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	8,624.90 -3,990.87	
01 22 23 00-0359 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	31,189.32 -17,293.78	
01 22 23 00-0360 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,991.09 -798.17	
01 22 23 00-0361 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,755.99 -3,990.87	
01 22 23 00-0362 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,952.59 -17,293.78	
01 22 23 00-0363 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,305.71 -798.17	
01 22 23 00-0364 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	10,021.01 -3,990.87	
01 22 23 00-0365 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	35,384.20 -17,293.78	
01 22 23 00-0366 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,757.97 -798.17	
01 22 23 00-0367 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	11,816.94 -3,990.87	
01 22 23 00-0368 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	40,758.89 -17,293.78	
01 22 23 00-0369 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	91.76	
01 22 23 00-0370 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	353.94	
01 22 23 00-0371 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,048.72	
01 22 23 00-0372 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	406.38	
01 22 23 00-0373 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,074.94	
01 22 23 00-0374 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,008.52	
01 22 23 00-0375 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	629.23	
01 22 23 00-0376 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,605.85	
01 22 23 00-0377 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,175.22	
01 22 23 00-0378 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	878.30	
01 22 23 00-0379 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,366.17	
01 22 23 00-0380 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,633.15	
01 22 23 00-0381 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	183.53	
01 22 23 00-0382 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	734.10	
01 22 23 00-0383 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,202.31	
01 22 23 00-0384 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	262.18	
01 22 23 00-0385 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,048.72	
01 22 23 00-0386 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,146.16	
01 22 23 00-0387 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	288.40	
01 22 23 00-0388 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,140.48	
01 22 23 00-0389 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,408.34	
01 22 23 00-0390 Mini-Excavators <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0391 DAY 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,073.46 -798.17	
01 22 23 00-0392 WK 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,770.86 -3,990.87	
01 22 23 00-0393 MO 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,011.06 -17,293.78	
01 22 23 00-0394 DAY 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,080.01 -798.17	
01 22 23 00-0395 WK 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,790.52 -3,990.87	
01 22 23 00-0396 MO 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,423.99 -17,293.78	
01 22 23 00-0397 DAY 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,112.79 -798.17	
01 22 23 00-0398 WK 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,882.28 -3,990.87	
01 22 23 00-0399 MO 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,482.98 -17,293.78	
01 22 23 00-0400 DAY 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,125.89 -798.17	
01 22 23 00-0401 WK 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,928.16 -3,990.87	
01 22 23 00-0402 MO 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	19,509.20 -17,293.78	
01 22 23 00-0403 DAY 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,204.55 -798.17	

01	01	General Requirements
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0404	WK		9,500 LB Mini-Excavator With Full-Time Operator.....	4,993.71	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0405	MO		9,500 LB Mini-Excavator With Full-Time Operator.....	20,269.52	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0406	DAY		11,000 LB Mini-Excavator With Full-Time Operator.....	1,211.10	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0407	WK		11,000 LB Mini-Excavator With Full-Time Operator.....	5,321.43	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0408	MO		11,000 LB Mini-Excavator With Full-Time Operator.....	20,302.30	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0409 Road Graders <small>(01 22 23 00-0259)</small>					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0410	DAY		60 HP Road Grader With Full-Time Operator.....	1,348.61	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0411	WK		60 HP Road Grader With Full-Time Operator.....	5,479.89	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0412	MO		60 HP Road Grader With Full-Time Operator.....	21,746.72	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0413	DAY		80 HP Road Grader With Full-Time Operator.....	1,510.92	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0414	WK		80 HP Road Grader With Full-Time Operator.....	5,931.53	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0415	MO		80 HP Road Grader With Full-Time Operator.....	23,115.76	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0416	DAY		130 HP Road Grader With Full-Time Operator.....	1,401.01	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0417	WK		130 HP Road Grader With Full-Time Operator.....	6,402.23	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0418	MO		130 HP Road Grader With Full-Time Operator.....	25,911.22	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0419 Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0259)</small>					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0420	DAY		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,170.99	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0421	WK		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	4,876.32	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0422	MO		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	19,377.58	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0423	DAY		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,210.93	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0424	WK		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,016.13	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0425	MO		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	20,229.74	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0426	DAY		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,272.52	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0427	WK		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,169.25	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0428	MO		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	20,669.13	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0429	DAY		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,547.14	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0430	WK		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	5,988.12	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0431	MO		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	23,012.57	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0432 Heavy Duty Construction Loaders <small>(01 22 23 00-0259)</small>					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0433	DAY		2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,266.40	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0434	WK		2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	5,842.17	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0435	MO		2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	22,840.48	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0436	DAY		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,655.39	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0437	WK		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,267.18	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0438	MO		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,056.58	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0439	DAY		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,741.83	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0440	WK		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,497.69	
			<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0441	MO		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,632.86	
			<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0442	DAY		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,979.54	
			<i>For Equipment Without Operator, Deduct</i>	-798.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0443 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	7,124.39	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0444 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	25,217.63	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0445 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	2,591.84	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0446 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	11,151.15	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0447 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	38,760.21	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0448 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	6,625.73	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0449 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	22,914.26	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0450 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	68,865.15	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0451 Shoring <small>(01 22 23 00-0259)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0452 Aluminum Hydraulic Shoring <small>(01 22 23 00-0451)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0453 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	70.11	
Note: Up to 88" spread width.		
01 22 23 00-0454 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	206.79	
Note: Up to 88" spread width.		
01 22 23 00-0455 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	94.05	
Note: Up to 88" spread width.		
01 22 23 00-0456 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	277.41	
Note: Up to 88" spread width.		
01 22 23 00-0457 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	174.39	
Note: Up to 88" spread width.		
01 22 23 00-0458 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	514.46	
Note: Up to 88" spread width.		
01 22 23 00-0459 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	24.66	
01 22 23 00-0460 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	39.46	
01 22 23 00-0461 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	65.76	
01 22 23 00-0462 Trench Boxes/Trench Shields <small>(01 22 23 00-0259)</small>		
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0463 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	188.87	
01 22 23 00-0464 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	566.60	
01 22 23 00-0465 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	213.24	
01 22 23 00-0466 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	639.71	
01 22 23 00-0467 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	225.42	
01 22 23 00-0468 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	676.27	
01 22 23 00-0469 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	207.14	
01 22 23 00-0470 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	621.44	
01 22 23 00-0471 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	243.70	
01 22 23 00-0472 MO 6' x 8' Trench Box With Up To 48" Spreaders.....	731.10	
01 22 23 00-0473 WK 8' x 8' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0474 MO 8' x 8' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0475 WK 4' x 10' Trench Box With Up To 48" Spreaders.....	231.52	
01 22 23 00-0476 MO 4' x 10' Trench Box With Up To 48" Spreaders.....	694.54	
01 22 23 00-0477 WK 6' x 10' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0478 MO 6' x 10' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0479 WK 8' x 10' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0480 MO 8' x 10' Trench Box With Up To 48" Spreaders.....	999.17	
01 22 23 00-0481 WK 4' x 12' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0482 MO 4' x 12' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0483 WK 6' x 12' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0484 MO 6' x 12' Trench Box With Up To 48" Spreaders.....	1,005.26	
01 22 23 00-0485 WK 8' x 12' Trench Box With Up To 48" Spreaders.....	426.48	
01 22 23 00-0486 MO 8' x 12' Trench Box With Up To 48" Spreaders.....	1,279.42	
01 22 23 00-0487 WK 4' x 14' Trench Box With Up To 48" Spreaders.....	304.62	
01 22 23 00-0488 MO 4' x 14' Trench Box With Up To 48" Spreaders.....	913.88	
01 22 23 00-0489 WK 6' x 14' Trench Box With Up To 48" Spreaders.....	396.01	
01 22 23 00-0490 MO 6' x 14' Trench Box With Up To 48" Spreaders.....	1,188.04	
01 22 23 00-0491 WK 8' x 14' Trench Box With Up To 48" Spreaders.....	487.40	
01 22 23 00-0492 MO 8' x 14' Trench Box With Up To 48" Spreaders.....	1,462.20	
01 22 23 00-0493 WK 4' x 16' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0494 MO 4' x 16' Trench Box With Up To 48" Spreaders.....	1,005.26	
01 22 23 00-0495 WK 6' x 16' Trench Box With Up To 48" Spreaders.....	456.94	
01 22 23 00-0496 MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,370.81	
01 22 23 00-0497 WK 8' x 16' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0498 MO 8' x 16' Trench Box With Up To 48" Spreaders.....	1,644.98	
01 22 23 00-0499 WK 4' x 20' Trench Box With Up To 48" Spreaders.....	396.01	
01 22 23 00-0500 MO 4' x 20' Trench Box With Up To 48" Spreaders.....	1,188.04	
01 22 23 00-0501 WK 6' x 20' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0502 MO 6' x 20' Trench Box With Up To 48" Spreaders.....	1,644.98	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	01 22 23 00-0503	WK	8' x 20' Trench Box With Up To 48" Spreaders.....	639.71	
	01 22 23 00-0504	MO	8' x 20' Trench Box With Up To 48" Spreaders.....	1,919.14	
	01 22 23 00-0505	WK	4' x 24' Trench Box With Up To 48" Spreaders.....	548.32	
	01 22 23 00-0506	MO	4' x 24' Trench Box With Up To 48" Spreaders.....	1,644.98	
	01 22 23 00-0507	WK	6' x 24' Trench Box With Up To 48" Spreaders.....	670.18	
	01 22 23 00-0508	MO	6' x 24' Trench Box With Up To 48" Spreaders.....	2,010.52	
	01 22 23 00-0509	WK	8' x 24' Trench Box With Up To 48" Spreaders.....	731.10	
	01 22 23 00-0510	MO	8' x 24' Trench Box With Up To 48" Spreaders.....	2,193.30	
	01 22 23 00-0511	WK	For Spreaders >48" To 84", Add.....	18.28	
	01 22 23 00-0512	MO	For Spreaders >48" To 84", Add.....	54.83	
	01 22 23 00-0513	WK	For Spreaders >84" To 120", Add.....	109.66	
	01 22 23 00-0514	MO	For Spreaders >84" To 120", Add.....	329.00	
	01 22 23 00-0515	WK	For Spreaders >120", Add.....	231.52	
	01 22 23 00-0516	MO	For Spreaders >120", Add.....	694.54	
	01 22 23 00-0517	WK	8' x 4' Manhole Box.....	287.87	
	01 22 23 00-0518	MO	8' x 4' Manhole Box.....	863.61	
	01 22 23 00-0519	WK	8' x 8' Manhole Box.....	411.24	
	01 22 23 00-0520	MO	8' x 8' Manhole Box.....	1,233.73	
01 22 23 00-0521			Trenchers (01 22 23 00-0259)		
	Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
	01 22 23 00-0522	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,102.23	
			For Equipment Without Operator, Deduct	-756.53	
	01 22 23 00-0523	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	4,960.16	
			For Equipment Without Operator, Deduct	-3,782.63	
	01 22 23 00-0524	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	19,632.31	
			For Equipment Without Operator, Deduct	-16,391.41	
	01 22 23 00-0525	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,685.59	
			For Equipment Without Operator, Deduct	-756.53	
	01 22 23 00-0526	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	6,926.30	
			For Equipment Without Operator, Deduct	-3,782.63	
	01 22 23 00-0527	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	25,033.81	
			For Equipment Without Operator, Deduct	-16,391.41	
01 22 23 00-0528			Portable Sediment Tank (01 22 23 00-0259)		
	Note: Includes delivery to job site and pick-up when complete.				
	01 22 23 00-0529	WK	Portable Sediment Tank	161.08	
	01 22 23 00-0530	MO	Portable Sediment Tank	472.52	
01 22 23 00-0531			Heavy Equipment (Wood Ground Protection) Mats (01 22 23 00-0259)		
	Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0259 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.				
	01 22 23 00-0532	DAY	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	21.12	
	01 22 23 00-0533	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	50.29	
	01 22 23 00-0534	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	105.60	
	01 22 23 00-0535	DAY	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	22.18	
	01 22 23 00-0536	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	52.80	
	01 22 23 00-0537	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	110.88	
	01 22 23 00-0538	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	17.95	
	01 22 23 00-0539	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	42.24	
	01 22 23 00-0540	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	89.76	
	01 22 23 00-0541	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	20.06	
	01 22 23 00-0542	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	47.52	
	01 22 23 00-0543	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	100.32	
	01 22 23 00-0544	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	22.18	
	01 22 23 00-0545	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	52.80	
	01 22 23 00-0546	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	110.88	
	01 22 23 00-0547	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	24.29	
	01 22 23 00-0548	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	57.83	
	01 22 23 00-0549	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	121.44	
	01 22 23 00-0550	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	19.01	
	01 22 23 00-0551	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
	01 22 23 00-0552	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	95.04	
	01 22 23 00-0553	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	22.18	
	01 22 23 00-0554	WK	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
	01 22 23 00-0555	MO	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	110.88	
	01 22 23 00-0556	Day	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	26.40	
	01 22 23 00-0557	WK	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	58.08	
	01 22 23 00-0558	MO	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	132.00	
	01 22 23 00-0559	Day	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	28.51	
	01 22 23 00-0560	WK	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	67.89	
	01 22 23 00-0561	MO	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	142.56	
	01 22 23 00-0562	Day	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	30.62	
	01 22 23 00-0563	WK	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	72.91	
	01 22 23 00-0564	MO	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	153.12	
	01 22 23 00-0565	Day	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	31.68	
	01 22 23 00-0566	WK	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	75.43	
	01 22 23 00-0567	MO	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0568 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.16	
01 22 23 00-0569 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.40	
01 22 23 00-0570 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	76.19	
01 22 23 00-0571 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	12.14	
01 22 23 00-0572 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	30.36	
01 22 23 00-0573 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	91.08	
01 22 23 00-0574 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.87	
01 22 23 00-0575 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.67	
01 22 23 00-0576 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	104.02	
01 22 23 00-0577 Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.78	
01 22 23 00-0578 WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	36.96	
01 22 23 00-0579 MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	110.88	
01 22 23 00-0580 Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.90	
01 22 23 00-0581 WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.24	
01 22 23 00-0582 MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	126.72	
01 22 23 00-0583 Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	19.42	
01 22 23 00-0584 WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	48.54	
01 22 23 00-0585 MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	145.62	
01 22 23 00-0586 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.94	
01 22 23 00-0587 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	37.35	
01 22 23 00-0588 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	112.04	
01 22 23 00-0589 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.23	
01 22 23 00-0590 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.56	
01 22 23 00-0591 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	151.69	
01 22 23 00-0592 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	17.49	
01 22 23 00-0593 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	43.72	
01 22 23 00-0594 MO 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	131.16	
01 22 23 00-0595 Day 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	29.17	
01 22 23 00-0596 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	72.91	
01 22 23 00-0597 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	218.74	
01 22 23 00-0598 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	31.09	
01 22 23 00-0599 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	77.72	
01 22 23 00-0600 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	233.16	
01 22 23 00-0601 Electrical Equipment (01 22 23)		
01 22 23 00-0602 Tripod Mounted Floodlights (01 22 23 00-0601)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0603 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	64.93	
01 22 23 00-0604 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	153.61	
01 22 23 00-0605 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	324.64	
01 22 23 00-0606 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	64.93	
01 22 23 00-0607 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	190.03	
01 22 23 00-0608 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	562.18	
01 22 23 00-0609 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	72.85	
01 22 23 00-0610 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	197.95	
01 22 23 00-0611 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	483.00	
01 22 23 00-0612 Trailer Mounted Floodlights (01 22 23 00-0601)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0613 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	182.11	
01 22 23 00-0614 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	403.82	
01 22 23 00-0615 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	870.98	
01 22 23 00-0616 Generator Sets (01 22 23 00-0601)		
01 22 23 00-0617 Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0616)		
Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
01 22 23 00-0618 DAY 3.6 KW, 8 HP Gas Powered Generator Set.....	51.26	
For LP Or NG Gas, Add		
	6.41	
For >160 To 320 Hours Usage Per Month, Add		
	25.63	
01 22 23 00-0619 WK 3.6 KW, 8 HP Gas Powered Generator Set.....	184.78	
For LP Or NG Gas, Add		
	23.10	
01 22 23 00-0620 MO 3.6 KW, 8 HP Gas Powered Generator Set.....	512.60	
For LP Or NG Gas, Add		
	64.08	
01 22 23 00-0621 DAY 5 KW, 11 HP Gas Powered Generator Set.....	72.72	
For LP Or NG Gas, Add		
	9.09	
01 22 23 00-0622 WK 5 KW, 11 HP Gas Powered Generator Set.....	232.46	
For LP Or NG Gas, Add		
	29.06	
01 22 23 00-0623 MO 5 KW, 11 HP Gas Powered Generator Set.....	530.48	
For LP Or NG Gas, Add		
	66.31	
01 22 23 00-0624 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....	92.98	
For LP Or NG Gas, Add		
	11.62	
01 22 23 00-0625 WK 6.5 KW, 13 HP Gas Powered Generator Set.....	250.34	
For LP Or NG Gas, Add		
	31.29	
01 22 23 00-0626 MO 6.5 KW, 13 HP Gas Powered Generator Set.....	691.42	
For LP Or NG Gas, Add		
	86.43	
01 22 23 00-0627 DAY 10 KW, 18 HP Gas Powered Generator Set.....	103.71	
For LP Or NG Gas, Add		
	12.96	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0628	WK		10 KW, 18 HP Gas Powered Generator Set.....	280.14	
			<i>For LP Or NG Gas, Add</i>	35.02	
01 22 23 00-0629	MO		10 KW, 18 HP Gas Powered Generator Set.....	804.67	
			<i>For LP Or NG Gas, Add</i>	100.58	
01 22 23 00-0630			Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0616)</small>		
			Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
01 22 23 00-0631	DAY		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	213.39	
			Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	106.70	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	213.39	
01 22 23 00-0632	WK		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	557.90	
			Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	278.95	
			<i>For >80 Hours Usage Per Week, Add</i>	557.90	
01 22 23 00-0633	MO		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,519.93	
			Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	759.97	
			<i>For >320 Hours Usage Per Month, Add</i>	1,519.93	
01 22 23 00-0634	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	316.20	
			Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	158.10	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	316.20	
01 22 23 00-0635	WK		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	938.40	
			Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	469.20	
			<i>For >80 Hours Usage Per Week, Add</i>	938.40	
01 22 23 00-0636	MO		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,938.00	
			Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	969.00	
			<i>For >320 Hours Usage Per Month, Add</i>	1,938.00	
01 22 23 00-0637	DAY		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	346.80	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	173.40	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	346.80	
01 22 23 00-0638	WK		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	969.00	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	484.50	
			<i>For >80 Hours Usage Per Week, Add</i>	969.00	
01 22 23 00-0639	MO		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,071.00	
			<i>For >320 Hours Usage Per Month, Add</i>	2,142.00	
01 22 23 00-0640	DAY		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	372.30	
			Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	186.15	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	372.30	
01 22 23 00-0641	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
			Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	510.00	
			<i>For >80 Hours Usage Per Week, Add</i>	1,020.00	
01 22 23 00-0642	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,448.00	
			Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,224.00	
			<i>For >320 Hours Usage Per Month, Add</i>	2,448.00	
01 22 23 00-0643	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	408.00	
			Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	204.00	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	408.00	
01 22 23 00-0644	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,157.70	
			Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	578.85	
			<i>For >80 Hours Usage Per Week, Add</i>	1,157.70	
01 22 23 00-0645	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,754.00	
			Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,377.00	
			<i>For >320 Hours Usage Per Month, Add</i>	2,754.00	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0646	DAY			80.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	459.00 229.50 459.00	
01 22 23 00-0647	WK			80.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,224.00 612.00 1,224.00	
01 22 23 00-0648	MO			80.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	3,060.00 1,530.00 3,060.00	
01 22 23 00-0649	DAY			100.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	474.30 237.15 474.30	
01 22 23 00-0650	WK			100.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,275.00 637.50 1,275.00	
01 22 23 00-0651	MO			100.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	3,468.00 1,734.00 3,468.00	
01 22 23 00-0652	DAY			120.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	535.50 267.75 535.50	
01 22 23 00-0653	WK			120.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,479.00 739.50 1,479.00	
01 22 23 00-0654	MO			120.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	3,978.00 1,989.00 3,978.00	
01 22 23 00-0655	DAY			140.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	561.00 280.50 561.00	
01 22 23 00-0656	WK			140.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,555.50 777.75 1,555.50	
01 22 23 00-0657	MO			140.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	4,386.00 2,193.00 4,386.00	
01 22 23 00-0658	DAY			150.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	586.50 293.25 586.50	
01 22 23 00-0659	WK			150.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,683.00 841.50 1,683.00	
01 22 23 00-0660	MO			150.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	4,590.00 2,295.00 4,590.00	
01 22 23 00-0661	DAY			160.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	612.00 306.00 612.00	
01 22 23 00-0662	WK			160.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	1,785.00 892.50 1,785.00	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0663	MO		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,397.00	
			For >320 Hours Usage Per Month, Add	4,794.00	
01 22 23 00-0664	DAY		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	306.00	
			For >16 To 24 Hours Usage Per Day, Add	612.00	
01 22 23 00-0665	WK		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	892.50	
			For >80 Hours Usage Per Week, Add	1,785.00	
01 22 23 00-0666	MO		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,397.00	
			For >320 Hours Usage Per Month, Add	4,794.00	
01 22 23 00-0667	DAY		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	841.50	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	420.75	
			For >16 To 24 Hours Usage Per Day, Add	841.50	
01 22 23 00-0668	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,091.00	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,045.50	
			For >80 Hours Usage Per Week, Add	2,091.00	
01 22 23 00-0669	MO		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,120.00	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,060.00	
			For >320 Hours Usage Per Month, Add	6,120.00	
01 22 23 00-0670	DAY		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	892.50	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	446.25	
			For >16 To 24 Hours Usage Per Day, Add	892.50	
01 22 23 00-0671	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,071.00	
			For >80 Hours Usage Per Week, Add	2,142.00	
01 22 23 00-0672	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,324.00	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,162.00	
			For >320 Hours Usage Per Month, Add	6,324.00	
01 22 23 00-0673	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	943.50	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	471.75	
			For >16 To 24 Hours Usage Per Day, Add	943.50	
01 22 23 00-0674	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,193.00	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,096.50	
			For >80 Hours Usage Per Week, Add	2,193.00	
01 22 23 00-0675	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,528.00	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,264.00	
			For >320 Hours Usage Per Month, Add	6,528.00	
01 22 23 00-0676	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	974.10	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	487.05	
			For >16 To 24 Hours Usage Per Day, Add	974.10	
01 22 23 00-0677	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,346.00	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,173.00	
			For >80 Hours Usage Per Week, Add	2,346.00	
01 22 23 00-0678	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,936.00	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,468.00	
			For >320 Hours Usage Per Month, Add	6,936.00	
01 22 23 00-0679	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	510.00	
			For >16 To 24 Hours Usage Per Day, Add	1,020.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0680 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,652.00	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,326.00	
For >80 Hours Usage Per Week, Add	2,652.00	
01 22 23 00-0681 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,650.00	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,825.00	
For >320 Hours Usage Per Month, Add	7,650.00	
01 22 23 00-0682 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,639.87	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	819.94	
For >16 To 24 Hours Usage Per Day, Add	1,639.87	
01 22 23 00-0683 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,239.84	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,119.92	
For >80 Hours Usage Per Week, Add	4,239.84	
01 22 23 00-0684 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	11,212.80	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,606.40	
For >320 Hours Usage Per Month, Add	11,212.80	
01 22 23 00-0685 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,102.40	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,051.20	
For >16 To 24 Hours Usage Per Day, Add	2,102.40	
01 22 23 00-0686 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,466.24	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,733.12	
For >80 Hours Usage Per Week, Add	5,466.24	
01 22 23 00-0687 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	12,614.40	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	6,307.20	
For >320 Hours Usage Per Month, Add	12,614.40	
01 22 23 00-0688 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,599.97	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,299.99	
For >16 To 24 Hours Usage Per Day, Add	2,599.97	
01 22 23 00-0689 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,867.84	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,433.92	
For >80 Hours Usage Per Week, Add	6,867.84	
01 22 23 00-0690 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,819.20	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	8,409.60	
For >320 Hours Usage Per Month, Add	16,819.20	
01 22 23 00-0691 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,810.21	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,405.11	
For >16 To 24 Hours Usage Per Day, Add	2,810.21	
01 22 23 00-0692 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,475.39	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,237.70	
For >80 Hours Usage Per Week, Add	6,475.39	
01 22 23 00-0693 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	19,426.18	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	9,713.09	
For >320 Hours Usage Per Month, Add	19,426.18	
01 22 23 00-0694 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	818.07	
01 22 23 00-0695 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,330.15	
01 22 23 00-0696 Cabling For Generator Sets (01 22 23 00-0616)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0697 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set	22.44	
01 22 23 00-0698 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set	39.27	
01 22 23 00-0699 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set	117.81	
01 22 23 00-0700 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.22	
01 22 23 00-0701 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	32.64	
01 22 23 00-0702 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	90.78	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0703	Resistive Loadbanks For Generator Sets (01 22 23 00-0616)	
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
01 22 23 00-0704 DAY	100 KW A/C Resistive Loadbank	280.50
01 22 23 00-0705 WK	100 KW A/C Resistive Loadbank	533.50
01 22 23 00-0706 MO	100 KW A/C Resistive Loadbank	1,457.50
01 22 23 00-0707 DAY	650 KW A/C Resistive Loadbank	689.82
01 22 23 00-0708 WK	650 KW A/C Resistive Loadbank	1,844.74
01 22 23 00-0709 MO	650 KW A/C Resistive Loadbank	4,703.29
01 22 23 00-0710	Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0616)	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0711 DAY	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	55.08
01 22 23 00-0712 WK	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	142.80
01 22 23 00-0713 MO	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	402.90
01 22 23 00-0714	Portable Distribution Panels For Generator Sets (01 22 23 00-0616)	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0715 DAY	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	122.40
01 22 23 00-0716 WK	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	331.50
01 22 23 00-0717 MO	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	928.20
01 22 23 00-0718 DAY	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	99.96
01 22 23 00-0719 WK	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	260.10
01 22 23 00-0720 MO	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	739.50
01 22 23 00-0721 DAY	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	127.50
01 22 23 00-0722 WK	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	321.30
01 22 23 00-0723 MO	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	872.10
01 22 23 00-0724	Fuel Reimbursement For Generators (01 22 23 00-0616)	
01 22 23 00-0725 EA	Fuel Reimbursement For Generators	1.00
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0726	General Equipment (01 22 23)	
01 22 23 00-0727	Jacks And Bracing (01 22 23 00-0726)	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0728	Manual Hydraulic Jacks (01 22 23 00-0727)	
01 22 23 00-0729 DAY	12 Ton Manual Hydraulic Bottle Jack	1.67
01 22 23 00-0730 WK	12 Ton Manual Hydraulic Bottle Jack	7.93
01 22 23 00-0731 MO	12 Ton Manual Hydraulic Bottle Jack	28.50
01 22 23 00-0732 DAY	20 Ton Manual Hydraulic Bottle Jack	2.92
01 22 23 00-0733 WK	20 Ton Manual Hydraulic Bottle Jack	9.18
01 22 23 00-0734 MO	20 Ton Manual Hydraulic Bottle Jack	34.76
01 22 23 00-0735 DAY	50 Ton Manual Hydraulic Bottle Jack	10.43
01 22 23 00-0736 WK	50 Ton Manual Hydraulic Bottle Jack	40.49
01 22 23 00-0737 MO	50 Ton Manual Hydraulic Bottle Jack	145.66
01 22 23 00-0738 DAY	100 Ton Manual Hydraulic Bottle Jack	14.61
01 22 23 00-0739 WK	100 Ton Manual Hydraulic Bottle Jack	58.43
01 22 23 00-0740 MO	100 Ton Manual Hydraulic Bottle Jack	210.46
01 22 23 00-0741	Manual Screw Jacks (01 22 23 00-0727)	
01 22 23 00-0742 DAY	10 To 20 Ton Manual Screw Jack	22.00
01 22 23 00-0743 WK	10 To 20 Ton Manual Screw Jack	59.24
01 22 23 00-0744 MO	10 To 20 Ton Manual Screw Jack	164.17
01 22 23 00-0745	Pressure Washers (01 22 23 00-0726)	
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0746 DAY	2,000 PSI Pressure Washer With Full-Time Operator	796.62
<i>For Equipment Without Operator, Deduct</i>		
		-626.39
01 22 23 00-0747 WK	2,000 PSI Pressure Washer With Full-Time Operator	3,564.06
<i>For Equipment Without Operator, Deduct</i>		
		-3,131.94
01 22 23 00-0748 MO	2,000 PSI Pressure Washer With Full-Time Operator	14,671.70
<i>For Equipment Without Operator, Deduct</i>		
		-13,571.76
01 22 23 00-0749 DAY	2,500 PSI Pressure Washer With Full-Time Operator	748.71
<i>For Equipment Without Operator, Deduct</i>		
		-626.39
01 22 23 00-0750 WK	2,500 PSI Pressure Washer With Full-Time Operator	3,442.45
<i>For Equipment Without Operator, Deduct</i>		
		-3,131.94
01 22 23 00-0751 MO	2,500 PSI Pressure Washer With Full-Time Operator	14,362.16
<i>For Equipment Without Operator, Deduct</i>		
		-13,571.76
01 22 23 00-0752 DAY	3,000 PSI Pressure Washer With Full-Time Operator	796.62
<i>For Equipment Without Operator, Deduct</i>		
		-626.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0753 WK 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,564.06 -3,131.94	
01 22 23 00-0754 MO 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,671.70 -13,571.76	
01 22 23 00-0755 DAY 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	758.12 -626.39	
01 22 23 00-0756 WK 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,470.68 -3,131.94	
01 22 23 00-0757 MO 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,437.43 -13,571.76	
01 22 23 00-0758 DAY 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	862.09 -626.39	
01 22 23 00-0759 WK 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,773.57 -3,131.94	
01 22 23 00-0760 MO 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,365.71 -13,571.76	
01 22 23 00-0761 DAY 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	814.58 -626.39	
01 22 23 00-0762 WK 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,640.05 -3,131.94	
01 22 23 00-0763 MO 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,002.00 -13,571.76	
01 22 23 00-0764 Confined Space Entry Equipment (01 22 23 00-0726) Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0765 DAY Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	47.47	
01 22 23 00-0766 WK Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	142.42	
01 22 23 00-0767 MO Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	424.99	
01 22 23 00-0768 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	51.47	
01 22 23 00-0769 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	154.42	
01 22 23 00-0770 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	463.26	
01 22 23 00-0771 DAY Confined Space Air Monitor Personnel Note: Per person day.	756.53	
01 22 23 00-0772 Space Heaters (01 22 23 00-0726) Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.		
01 22 23 00-0773 DAY 150,000 BTU/Hour Space Heater	70.52	
01 22 23 00-0774 WK 150,000 BTU/Hour Space Heater	202.74	
01 22 23 00-0775 MO 150,000 BTU/Hour Space Heater	572.98	
01 22 23 00-0776 DAY 500,000 BTU/Hour Space Heater	149.86	
01 22 23 00-0777 WK 500,000 BTU/Hour Space Heater	370.23	
01 22 23 00-0778 MO 500,000 BTU/Hour Space Heater	936.15	
01 22 23 00-0779 Mowers (01 22 23 00-0726) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0780 DAY 21" Walk Behind Lawn Mower	75.28	
01 22 23 00-0781 WK 21" Walk Behind Lawn Mower	216.42	
01 22 23 00-0782 MO 21" Walk Behind Lawn Mower	442.25	
01 22 23 00-0783 DAY 32" Walk Behind Lawn Mower	94.10	
01 22 23 00-0784 WK 32" Walk Behind Lawn Mower	225.83	
01 22 23 00-0785 MO 32" Walk Behind Lawn Mower	470.48	
01 22 23 00-0786 DAY 36" To 48" Walk Behind Deck Mower	169.37	
01 22 23 00-0787 WK 36" To 48" Walk Behind Deck Mower	470.48	
01 22 23 00-0788 MO 36" To 48" Walk Behind Deck Mower	1,364.38	
01 22 23 00-0789 DAY 61" To 72" Walk Behind Deck Mower	169.37	
01 22 23 00-0790 WK 61" To 72" Walk Behind Deck Mower	470.48	
01 22 23 00-0791 MO 61" To 72" Walk Behind Deck Mower	1,364.38	
01 22 23 00-0792 Material Handling Equipment (01 22 23)		
01 22 23 00-0793 Truck Mounted Hydraulic Cranes (01 22 23 00-0792) Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0794 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,238.04 -820.15	
01 22 23 00-0795 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,366.70 -4,100.73	
01 22 23 00-0796 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,580.03 -17,769.82	
01 22 23 00-0797 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,348.66 -820.15	
01 22 23 00-0798 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,695.49 -4,100.73	
01 22 23 00-0799 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,563.31 -17,769.82	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0800 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,459.28 -820.15	
01 22 23 00-0801 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,024.27 -4,100.73	
01 22 23 00-0802 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,546.59 -17,769.82	
01 22 23 00-0803 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,606.77 -820.15	
01 22 23 00-0804 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,466.75 -4,100.73	
01 22 23 00-0805 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,867.87 -17,769.82	
01 22 23 00-0806 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,741.97 -820.15	
01 22 23 00-0807 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,382.43 -4,100.73	
01 22 23 00-0808 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,612.45 -17,769.82	
01 22 23 00-0809 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,061.54 -820.15	
01 22 23 00-0810 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,525.49 -4,100.73	
01 22 23 00-0811 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,044.10 -17,769.82	
01 22 23 00-0812 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,264.34 -820.15	
01 22 23 00-0813 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,238.37 -4,100.73	
01 22 23 00-0814 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,187.65 -17,769.82	
01 22 23 00-0815 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,424.13 -820.15	
01 22 23 00-0816 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,816.05 -4,100.73	
01 22 23 00-0817 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,918.22 -17,769.82	
01 22 23 00-0818 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,583.91 -820.15	
01 22 23 00-0819 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,393.72 -4,100.73	
01 22 23 00-0820 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,648.80 -17,769.82	
01 22 23 00-0821 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,688.38 -820.15	
01 22 23 00-0822 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,750.16 -4,100.73	
01 22 23 00-0823 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,730.40 -17,769.82	
01 22 23 00-0824 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,829.73 -820.15	
01 22 23 00-0825 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,278.67 -4,100.73	
01 22 23 00-0826 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,303.65 -17,769.82	
01 22 23 00-0827 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,284.50 -820.15 -985.74	
01 22 23 00-0828 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,725.94 -4,100.73	
01 22 23 00-0829 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	43,645.45 -17,769.82	
01 22 23 00-0830 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,597.92 -820.15 -1,111.11	
01 22 23 00-0831 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,822.91 -4,100.73	
01 22 23 00-0832 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	46,936.36 -17,769.82	
01 22 23 00-0833 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,163.30 -820.15 -1,337.26	
01 22 23 00-0834 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,801.76 -4,100.73	
01 22 23 00-0835 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	52,872.92 -17,769.82	
01 22 23 00-0836 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,556.61 -820.15 -1,494.58	
01 22 23 00-0837 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,178.35 -4,100.73	
01 22 23 00-0838 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	57,002.69 -17,769.82	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0839

Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0792)

Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.

01 22 23 00-0840	DAY	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	2,295.07
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0841	WK	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	9,361.28
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0842	MO	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	33,551.46
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0843	DAY	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	3,431.99
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0844	WK	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	11,254.09
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0845	MO	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	39,229.91
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0846	DAY	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	3,616.35
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0847	WK	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	12,599.96
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0848	MO	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	43,266.27
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0849	DAY	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	3,985.08
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0850	WK	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	13,945.82
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0851	MO	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	47,297.72
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0852	DAY	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,160.23
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0853	WK	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	15,291.69
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0854	MO	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	51,339.00
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0855	DAY	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,335.38
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0856	WK	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	16,637.55
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0857	MO	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	55,380.28
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0858	DAY	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,913.05
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0859	WK	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	18,708.58
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0860	MO	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	61,584.78
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82
01 22 23 00-0861	DAY	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	8,465.15
		<i>For Equipment Without Operator, Deduct</i>	-820.15
01 22 23 00-0862	WK	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	31,368.31
		<i>For Equipment Without Operator, Deduct</i>	-4,100.73
01 22 23 00-0863	MO	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	99,578.72
		<i>For Equipment Without Operator, Deduct</i>	-17,769.82

01 22 23 00-0864

Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0792)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0865	DAY	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,345.80
		<i>For Equipment Without Operator, Deduct</i>	-756.53
01 22 23 00-0866	WK	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,224.78
		<i>For Equipment Without Operator, Deduct</i>	-3,782.63
01 22 23 00-0867	MO	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	19,492.81
		<i>For Equipment Without Operator, Deduct</i>	-16,391.41
01 22 23 00-0868	DAY	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,407.82
		<i>For Equipment Without Operator, Deduct</i>	-756.53
01 22 23 00-0869	WK	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,364.34
		<i>For Equipment Without Operator, Deduct</i>	-3,782.63
01 22 23 00-0870	MO	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	19,802.95
		<i>For Equipment Without Operator, Deduct</i>	-16,391.41
01 22 23 00-0871	DAY	8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,392.32
		<i>For Equipment Without Operator, Deduct</i>	-756.53
01 22 23 00-0872	WK	8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,434.13
		<i>For Equipment Without Operator, Deduct</i>	-3,782.63
01 22 23 00-0873	MO	8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	20,268.16
		<i>For Equipment Without Operator, Deduct</i>	-16,391.41
01 22 23 00-0874	DAY	10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,570.65
		<i>For Equipment Without Operator, Deduct</i>	-756.53
01 22 23 00-0875	WK	10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,899.34
		<i>For Equipment Without Operator, Deduct</i>	-3,782.63

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0876 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,353.65 -16,391.41	
01 22 23 00-0877 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0792) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0878 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,139.55 -756.53 76.60	
01 22 23 00-0879 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,828.58 -3,782.63 209.19	
01 22 23 00-0880 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,785.30 -16,391.41 478.78	
01 22 23 00-0881 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,159.71 -756.53 80.64	
01 22 23 00-0882 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,883.63 -3,782.63 220.20	
01 22 23 00-0883 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,911.30 -16,391.41 503.98	
01 22 23 00-0884 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,268.26 -756.53 102.35	
01 22 23 00-0885 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,186.01 -3,782.63 280.68	
01 22 23 00-0886 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,609.11 -16,391.41 643.54	
01 22 23 00-0887 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,328.04 -756.53 114.30	
01 22 23 00-0888 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,160.12 -3,782.63 275.50	
01 22 23 00-0889 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,820.47 -16,391.41 685.81	
01 22 23 00-0890 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0792) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0891 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,082.18 -756.53 65.13	
01 22 23 00-0892 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,526.97 -3,782.63 148.87	
01 22 23 00-0893 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,174.71 -16,391.41 356.66	
01 22 23 00-0894 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,089.93 -756.53 66.68	
01 22 23 00-0895 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,550.23 -3,782.63 153.52	
01 22 23 00-0896 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,228.99 -16,391.41 367.52	
01 22 23 00-0897 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,252.75 -756.53 99.24	
01 22 23 00-0898 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,906.89 -3,782.63 224.85	
01 22 23 00-0899 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,105.13 -16,391.41 542.74	
01 22 23 00-0900 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,268.26 -756.53 102.35	
01 22 23 00-0901 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,038.70 -3,782.63 251.21	
01 22 23 00-0902 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,570.35 -16,391.41 635.79	
01 22 23 00-0903 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,407.82 -756.53 130.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0904 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add</i>	5,263.55 -3,782.63 296.18	
01 22 23 00-0905 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... <i>For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add</i>	19,958.02 -16,391.41 713.32	
01 22 23 00-0906 Chain Hoists <small>(01 22 23 00-0792)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0907 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52	
01 22 23 00-0908 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55	
01 22 23 00-0909 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40	
01 22 23 00-0910 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06	
01 22 23 00-0911 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63	
01 22 23 00-0912 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62	
01 22 23 00-0913 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07	
01 22 23 00-0914 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44	
01 22 23 00-0915 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04	
01 22 23 00-0916 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	88.89	
01 22 23 00-0917 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	231.62	
01 22 23 00-0918 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	626.00	
01 22 23 00-0919 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.14	
01 22 23 00-0920 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	241.01	
01 22 23 00-0921 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	657.30	
01 22 23 00-0922 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	92.65	
01 22 23 00-0923 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	259.79	
01 22 23 00-0924 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	719.90	
01 22 23 00-0925 Roof Swing Hoist <small>(01 22 23 00-0792)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0926 DAY Up To 400#, Manual Swing Roof Hoist.....	80.46	
01 22 23 00-0927 WK Up To 400#, Manual Swing Roof Hoist.....	281.63	
01 22 23 00-0928 MO Up To 400#, Manual Swing Roof Hoist.....	965.58	
01 22 23 00-0929 Pumping Equipment <small>(01 22 23)</small>		
01 22 23 00-0930 Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0954 for larger diameter pumps.		
01 22 23 00-0931 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	66.07	
01 22 23 00-0932 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	148.65	
01 22 23 00-0933 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	396.41	
01 22 23 00-0934 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	79.28	
01 22 23 00-0935 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	178.38	
01 22 23 00-0936 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	475.69	
01 22 23 00-0937 Gas Powered Portable Diaphragm Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0938 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	75.98	
01 22 23 00-0939 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	214.72	
01 22 23 00-0940 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	545.06	
01 22 23 00-0941 DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	92.50	
01 22 23 00-0942 WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	247.76	
01 22 23 00-0943 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	701.97	
01 22 23 00-0944 Gas Powered Portable Trash Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0945 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	95.80	
01 22 23 00-0946 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	198.20	
01 22 23 00-0947 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	594.61	
01 22 23 00-0948 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	95.80	
01 22 23 00-0949 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	256.01	
01 22 23 00-0950 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	701.97	
01 22 23 00-0951 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	151.96	
01 22 23 00-0952 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	429.44	
01 22 23 00-0953 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,247.03	
01 22 23 00-0954 Diesel Powered Portable Trash Pumps <small>(01 22 23 00-0929)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0955 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	297.31	
01 22 23 00-0956 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	809.33	
01 22 23 00-0957 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,526.38	
01 22 23 00-0958 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	454.22	
01 22 23 00-0959 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,189.22	
01 22 23 00-0960 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,163.01	
01 22 23 00-0961 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	617.74	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0962 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,653.35	
01 22 23 00-0963 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,423.25	
01 22 23 00-0964 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	799.42	
01 22 23 00-0965 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,041.50	
01 22 23 00-0966 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	5,995.67	
01 22 23 00-0967 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0929)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0968 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	424.49	
01 22 23 00-0969 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	966.24	
01 22 23 00-0970 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,012.70	
01 22 23 00-0971 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	520.29	
01 22 23 00-0972 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,296.58	
01 22 23 00-0973 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,526.38	
01 22 23 00-0974 DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	627.65	
01 22 23 00-0975 WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,856.51	
01 22 23 00-0976 MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,178.08	
01 22 23 00-0977 DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	944.77	
01 22 23 00-0978 WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,413.13	
01 22 23 00-0979 MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,085.79	
01 22 23 00-0980 3 Phase Electric Submersible Pumps (01 22 23 00-0929)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0981 DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	165.17	
01 22 23 00-0982 WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	412.92	
01 22 23 00-0983 MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,238.78	
01 22 23 00-0984 DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	218.02	
01 22 23 00-0985 WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	545.06	
01 22 23 00-0986 MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,635.18	
01 22 23 00-0987 Suction Hose With Couplings (01 22 23 00-0929)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-0988 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	6.00	
01 22 23 00-0989 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	15.00	
01 22 23 00-0990 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	46.00	
01 22 23 00-0991 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings	16.00	
01 22 23 00-0992 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings	41.00	
01 22 23 00-0993 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings	125.00	
01 22 23 00-0994 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings	24.00	
01 22 23 00-0995 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings	61.00	
01 22 23 00-0996 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings	185.00	
01 22 23 00-0997 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings	30.00	
01 22 23 00-0998 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings	75.00	
01 22 23 00-0999 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings	220.00	
01 22 23 00-1000 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings	70.00	
01 22 23 00-1001 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings	180.00	
01 22 23 00-1002 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings	530.00	
01 22 23 00-1003 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings	94.00	
01 22 23 00-1004 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings	205.00	
01 22 23 00-1005 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings	615.00	
01 22 23 00-1006 Discharge Hose With Couplings (01 22 23 00-0929)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1007 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.00	
01 22 23 00-1008 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	15.00	
01 22 23 00-1009 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	46.00	
01 22 23 00-1010 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.00	
01 22 23 00-1011 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	17.00	
01 22 23 00-1012 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	53.00	
01 22 23 00-1013 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	8.00	
01 22 23 00-1014 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	20.00	
01 22 23 00-1015 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	61.00	
01 22 23 00-1016 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	21.00	
01 22 23 00-1017 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	54.00	
01 22 23 00-1018 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	155.00	
01 22 23 00-1019 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	26.00	
01 22 23 00-1020 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	71.00	
01 22 23 00-1021 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	195.00	
01 22 23 00-1022 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	20.00	
01 22 23 00-1023 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	50.00	
01 22 23 00-1024 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	150.00	
01 22 23 00-1025 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	51.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1026	WK		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	130.00	
01 22 23 00-1027	MO		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	385.00	
01 22 23 00-1028			Hydraulic Submersible Pumps (01 22 23 00-0929) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1029			Hydraulic Submersible Pumps (01 22 23 00-1028) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1030	DAY		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	109.01	
01 22 23 00-1031	WK		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	292.35	
01 22 23 00-1032	MO		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	817.59	
01 22 23 00-1033	DAY		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	138.74	
01 22 23 00-1034	WK		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	356.77	
01 22 23 00-1035	MO		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,090.12	
01 22 23 00-1036			Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1028) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1037	DAY		100 HP, Hydraulic Submersible Pump Diesel Power Pack	251.88	
01 22 23 00-1038	WK		100 HP, Hydraulic Submersible Pump Diesel Power Pack	751.52	
01 22 23 00-1039	MO		100 HP, Hydraulic Submersible Pump Diesel Power Pack	1,982.04	
01 22 23 00-1040			HDPE Pipe With Couplings (01 22 23 00-0929) Note: Includes delivery, set-up, and removal.		
01 22 23 00-1041	DAY		4" x 20' HDPE Pipe With Couplings	14.75	
01 22 23 00-1042	WK		4" x 20' HDPE Pipe With Couplings	35.40	
01 22 23 00-1043	MO		4" x 20' HDPE Pipe With Couplings	109.15	
01 22 23 00-1044	DAY		6" x 20' HDPE Pipe With Couplings	23.60	
01 22 23 00-1045	WK		6" x 20' HDPE Pipe With Couplings	59.00	
01 22 23 00-1046	MO		6" x 20' HDPE Pipe With Couplings	179.95	
01 22 23 00-1047	DAY		8" x 20' HDPE Pipe With Couplings	38.35	
01 22 23 00-1048	WK		8" x 20' HDPE Pipe With Couplings	100.30	
01 22 23 00-1049	MO		8" x 20' HDPE Pipe With Couplings	297.95	
01 22 23 00-1050	DAY		10" x 20' HDPE Pipe With Couplings	47.20	
01 22 23 00-1051	WK		10" x 20' HDPE Pipe With Couplings	120.95	
01 22 23 00-1052	MO		10" x 20' HDPE Pipe With Couplings	368.75	
01 22 23 00-1053	DAY		12" x 10' HDPE Pipe With Couplings	35.40	
01 22 23 00-1054	WK		12" x 10' HDPE Pipe With Couplings	97.35	
01 22 23 00-1055	MO		12" x 10' HDPE Pipe With Couplings	295.00	
01 22 23 00-1056	DAY		4" Elbow For HDPE Pipe, Quick Connect	35.40	
01 22 23 00-1057	WK		4" Elbow For HDPE Pipe, Quick Connect	91.45	
01 22 23 00-1058	MO		4" Elbow For HDPE Pipe, Quick Connect	271.40	
01 22 23 00-1059	DAY		6" Elbow For HDPE Pipe, Quick Connect	41.30	
01 22 23 00-1060	WK		6" Elbow For HDPE Pipe, Quick Connect	106.20	
01 22 23 00-1061	MO		6" Elbow For HDPE Pipe, Quick Connect	324.50	
01 22 23 00-1062	DAY		8" Elbow For HDPE Pipe, Quick Connect	47.20	
01 22 23 00-1063	WK		8" Elbow For HDPE Pipe, Quick Connect	120.95	
01 22 23 00-1064	MO		8" Elbow For HDPE Pipe, Quick Connect	368.75	
01 22 23 00-1065	DAY		10" Elbow For HDPE Pipe, Quick Connect	59.00	
01 22 23 00-1066	WK		10" Elbow For HDPE Pipe, Quick Connect	150.45	
01 22 23 00-1067	MO		10" Elbow For HDPE Pipe, Quick Connect	457.25	
01 22 23 00-1068	DAY		12" Elbow For HDPE Pipe, Quick Connect	59.00	
01 22 23 00-1069	WK		12" Elbow For HDPE Pipe, Quick Connect	150.45	
01 22 23 00-1070	MO		12" Elbow For HDPE Pipe, Quick Connect	457.25	
01 22 23 00-1071	DAY		4" Tee For HDPE Pipe, Quick Connect	35.40	
01 22 23 00-1072	WK		4" Tee For HDPE Pipe, Quick Connect	91.45	
01 22 23 00-1073	MO		4" Tee For HDPE Pipe, Quick Connect	271.40	
01 22 23 00-1074	DAY		6" Tee For HDPE Pipe, Quick Connect	47.20	
01 22 23 00-1075	WK		6" Tee For HDPE Pipe, Quick Connect	120.95	
01 22 23 00-1076	MO		6" Tee For HDPE Pipe, Quick Connect	368.75	
01 22 23 00-1077	DAY		8" Tee For HDPE Pipe, Quick Connect	59.00	
01 22 23 00-1078	WK		8" Tee For HDPE Pipe, Quick Connect	150.45	
01 22 23 00-1079	MO		8" Tee For HDPE Pipe, Quick Connect	457.25	
01 22 23 00-1080	DAY		10" Tee For HDPE Pipe, Quick Connect	70.80	
01 22 23 00-1081	WK		10" Tee For HDPE Pipe, Quick Connect	179.95	
01 22 23 00-1082	MO		10" Tee For HDPE Pipe, Quick Connect	545.75	
01 22 23 00-1083	DAY		12" Tee For HDPE Pipe, Quick Connect	70.80	
01 22 23 00-1084	WK		12" Tee For HDPE Pipe, Quick Connect	179.95	
01 22 23 00-1085	MO		12" Tee For HDPE Pipe, Quick Connect	545.75	
01 22 23 00-1086	DAY		4" Cap For HDPE Pipe, Quick Connect	5.90	
01 22 23 00-1087	WK		4" Cap For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1088	MO		4" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1089	DAY		6" Cap For HDPE Pipe, Quick Connect	5.90	
01 22 23 00-1090	WK		6" Cap For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1091	MO		6" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1092	DAY		8" Cap For HDPE Pipe, Quick Connect	5.90	
01 22 23 00-1093	WK		8" Cap For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1094	MO		8" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1095	DAY		10" Cap For HDPE Pipe, Quick Connect	5.90	
01 22 23 00-1096	WK		10" Cap For HDPE Pipe, Quick Connect	17.70	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1097 MO 10" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1098 DAY 12" Cap For HDPE Pipe, Quick Connect	5.90	
01 22 23 00-1099 WK 12" Cap For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1100 MO 12" Cap For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1101 DAY 4" Wye For HDPE Pipe, Quick Connect	17.70	
01 22 23 00-1102 WK 4" Wye For HDPE Pipe, Quick Connect	44.25	
01 22 23 00-1103 MO 4" Wye For HDPE Pipe, Quick Connect	135.70	
01 22 23 00-1104 DAY 6" Wye For HDPE Pipe, Quick Connect	20.65	
01 22 23 00-1105 WK 6" Wye For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1106 MO 6" Wye For HDPE Pipe, Quick Connect	162.25	
01 22 23 00-1107 DAY 8" Wye For HDPE Pipe, Quick Connect	35.40	
01 22 23 00-1108 WK 8" Wye For HDPE Pipe, Quick Connect	91.45	
01 22 23 00-1109 MO 8" Wye For HDPE Pipe, Quick Connect	271.40	
01 22 23 00-1110 DAY 10" Wye For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1111 WK 10" Wye For HDPE Pipe, Quick Connect	135.70	
01 22 23 00-1112 MO 10" Wye For HDPE Pipe, Quick Connect	413.00	
01 22 23 00-1113 DAY 12" Wye For HDPE Pipe, Quick Connect	53.10	
01 22 23 00-1114 WK 12" Wye For HDPE Pipe, Quick Connect	135.70	
01 22 23 00-1115 MO 12" Wye For HDPE Pipe, Quick Connect	413.00	
01 22 23 00-1116 Temporary Building Services (01 22 23)		
01 22 23 00-1117 Boilers (01 22 23 00-1116)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1118 Electric Boilers (01 22 23 00-1117)		
01 22 23 00-1119 MO 40 MBH, 12 KW Electric Boiler Rental	2,360.98	
01 22 23 00-1120 MO 60 MBH, 20 KW Electric Boiler Rental	2,575.65	
01 22 23 00-1121 MO 95 MBH, 30 KW Electric Boiler Rental	2,682.98	
01 22 23 00-1122 MO 135 MBH, 40 KW Electric Boiler Rental	3,004.88	
01 22 23 00-1123 MO 165 MBH, 50 KW Electric Boiler Rental	4,185.37	
01 22 23 00-1124 MO 215 MBH, 60 KW Electric Boiler Rental	4,829.29	
01 22 23 00-1125 MO 365 MBH, 100 KW Electric Boiler Rental	6,331.78	
01 22 23 00-1126 MO 510 MBH, 150 KW Electric Boiler Rental	7,726.93	
01 22 23 00-1127 Oil/Gas Fired Boilers (01 22 23 00-1117)		
01 22 23 00-1128 MO Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental	2,080.00	
For >3 Months Rental, Deduct	-312.00	
01 22 23 00-1129 MO >100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental	2,704.00	
For >3 Months Rental, Deduct	-405.60	
01 22 23 00-1130 MO >250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental	4,368.00	
For >3 Months Rental, Deduct	-655.20	
01 22 23 00-1131 MO >500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental	6,032.00	
For >3 Months Rental, Deduct	-904.80	
01 22 23 00-1132 Oil Fired Boilers (01 22 23 00-1117)		
01 22 23 00-1133 MO 250 HP Oil Fired Boiler Rental	6,630.82	
01 22 23 00-1134 MO 350 HP Oil Fired Boiler Rental	8,841.10	
01 22 23 00-1135 MO 500 HP Oil Fired Boiler Rental	11,051.37	
01 22 23 00-1136 MO 600 HP Oil Fired Boiler Rental	12,156.51	
01 22 23 00-1137 Boilers Setup (01 22 23 00-1117)		
01 22 23 00-1138 EA Setup Rental Boiler	6,232.98	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1139 Chillers (01 22 23 00-1116)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1140 Air Cooled Chillers (01 22 23 00-1139)		
01 22 23 00-1141 MO 25 Ton Air Cooled Chiller Rental	3,152.40	
For >3 To 6 Month Rental, Deduct	-472.86	
For >6 Month Rental, Deduct	-788.10	
01 22 23 00-1142 MO 40 Ton Air Cooled Chiller Rental	5,043.85	
For >3 To 6 Month Rental, Deduct	-756.58	
For >6 Month Rental, Deduct	-1,260.96	
01 22 23 00-1143 MO 60 Ton Air Cooled Chiller Rental	6,169.20	
For >3 To 6 Month Rental, Deduct	-925.38	
For >6 Month Rental, Deduct	-1,542.30	
01 22 23 00-1144 MO 80 Ton Air Cooled Chiller Rental	7,294.55	
For >3 To 6 Month Rental, Deduct	-1,094.18	
For >6 Month Rental, Deduct	-1,823.64	
01 22 23 00-1145 MO 100 Ton Air Cooled Chiller Rental	8,419.90	
For >3 To 6 Month Rental, Deduct	-1,262.99	
For >6 Month Rental, Deduct	-2,104.98	
01 22 23 00-1146 MO 125 Ton Air Cooled Chiller Rental	9,754.62	
For >3 To 6 Month Rental, Deduct	-1,463.19	
For >6 Month Rental, Deduct	-2,438.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1147 MO 155 Ton Air Cooled Chiller Rental	11,800.70	
For >3 To 6 Month Rental, Deduct	-1,770.11	
For >6 Month Rental, Deduct	-2,950.18	
01 22 23 00-1148 MO 170 Ton Air Cooled Chiller Rental	12,619.14	
For >3 To 6 Month Rental, Deduct	-1,892.87	
For >6 Month Rental, Deduct	-3,154.79	
01 22 23 00-1149 MO 200 Ton Air Cooled Chiller Rental	14,496.31	
For >3 To 6 Month Rental, Deduct	-2,174.45	
For >6 Month Rental, Deduct	-3,624.08	
01 22 23 00-1150 MO 250 Ton Air Cooled Chiller Rental	17,249.02	
For >3 To 6 Month Rental, Deduct	-2,587.35	
For >6 Month Rental, Deduct	-4,312.26	
01 22 23 00-1151 MO 300 Ton Air Cooled Chiller Rental	20,127.82	
Note: Includes trailer.		
For >3 To 6 Month Rental, Deduct	-3,019.17	
For >6 Month Rental, Deduct	-5,031.96	
01 22 23 00-1152 MO 400 Ton Air Cooled Chiller Rental	26,551.59	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct	-3,982.74	
For >6 Month Rental, Deduct	-6,637.90	
01 22 23 00-1153 MO 500 Ton Air Cooled Chiller Rental	32,865.91	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct	-4,929.89	
For >6 Month Rental, Deduct	-8,216.48	
01 22 23 00-1154 EA Setup Air Cooled Chiller Rental Unit.....	4,332.68	
Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
01 22 23 00-1155 Chiller Rental Accessories (01 22 23 00-1139)		
01 22 23 00-1156 MO 4" x 25' Flexible Water Hose For Chiller Rental	56.17	
01 22 23 00-1157 MO 6" x 25' Flexible Water Hose For Chiller Rental	70.22	
01 22 23 00-1158 Cooling Tower (01 22 23 00-1116)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1159 MO 100 Ton Cooling Tower Rental	2,892.86	
For >3 To 6 Months Rental, Deduct	-433.93	
For >6 Months Rental, Deduct	-723.22	
01 22 23 00-1160 MO 200 Ton Cooling Tower Rental	5,266.12	
For >3 To 6 Months Rental, Deduct	-789.92	
For >6 Months Rental, Deduct	-1,316.53	
01 22 23 00-1161 MO 250 Ton Cooling Tower Rental	5,963.64	
For >3 To 6 Months Rental, Deduct	-894.55	
For >6 Months Rental, Deduct	-1,490.91	
01 22 23 00-1162 MO 300 Ton Cooling Tower Rental	6,740.64	
For >3 To 6 Months Rental, Deduct	-1,011.10	
For >6 Months Rental, Deduct	-1,685.16	
01 22 23 00-1163 MO 400 Ton Cooling Tower Rental	8,425.80	
For >3 To 6 Months Rental, Deduct	-1,263.87	
For >6 Months Rental, Deduct	-2,106.45	
01 22 23 00-1164 MO 500 Ton Cooling Tower Rental	9,851.21	
For >3 To 6 Months Rental, Deduct	-1,477.68	
For >6 Months Rental, Deduct	-2,462.80	
01 22 23 00-1165 MO Setup Rental Cooling Tower	4,332.68	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1166 Emergency Cooler/Freezer (01 22 23 00-1116)		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1167 DAY 8 x 6 x 7 Emergency Cooler Rental	79.97	
01 22 23 00-1168 WK 8 x 6 x 7 Emergency Cooler Rental	426.52	
01 22 23 00-1169 DAY 10 x 7 x 7 Emergency Cooler Rental	159.94	
01 22 23 00-1170 WK 10 x 7 x 7 Emergency Cooler Rental	639.78	
01 22 23 00-1171 MO 10 x 7 x 7 Emergency Cooler Rental	1,599.45	
01 22 23 00-1172 DAY 10 x 7 x 7 Emergency Freezer Rental	186.60	
01 22 23 00-1173 WK 10 x 7 x 7 Emergency Freezer Rental	746.41	
01 22 23 00-1174 MO 10 x 7 x 7 Emergency Freezer Rental	1,919.34	
01 22 23 00-1175 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	213.26	
01 22 23 00-1176 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	853.04	
01 22 23 00-1177 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	2,132.60	
01 22 23 00-1178 Portable Spot Cooling Units (01 22 23 00-1116)		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes operator.		
01 22 23 00-1179 DAY 1 Ton Portable Spot Cooling Unit	189.09	
01 22 23 00-1180 WK 1 Ton Portable Spot Cooling Unit	415.99	
01 22 23 00-1181 MO 1 Ton Portable Spot Cooling Unit	831.98	
01 22 23 00-1182 DAY 2 Ton Portable Spot Cooling Unit	302.54	
01 22 23 00-1183 WK 2 Ton Portable Spot Cooling Unit	605.08	
01 22 23 00-1184 MO 2 Ton Portable Spot Cooling Unit	1,361.43	
01 22 23 00-1185 DAY 3 Ton Portable Spot Cooling Unit	453.81	

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1186 WK 3 Ton Portable Spot Cooling Unit.....	907.62	
01 22 23 00-1187 MO 3 Ton Portable Spot Cooling Unit.....	1,815.24	
01 22 23 00-1188 DAY 5 Ton Portable Spot Cooling Unit.....	529.44	
01 22 23 00-1189 WK 5 Ton Portable Spot Cooling Unit.....	1,058.89	
01 22 23 00-1190 MO 5 Ton Portable Spot Cooling Unit.....	2,420.32	
01 22 23 00-1191 DAY 10 Ton Portable Spot Cooling Unit.....	1,134.52	
01 22 23 00-1192 WK 10 Ton Portable Spot Cooling Unit.....	1,815.24	
01 22 23 00-1193 MO 10 Ton Portable Spot Cooling Unit.....	3,630.48	
01 22 23 00-1194 DAY 20 Ton Portable Spot Cooling Unit.....	1,512.70	
01 22 23 00-1195 WK 20 Ton Portable Spot Cooling Unit.....	2,647.22	
01 22 23 00-1196 MO 20 Ton Portable Spot Cooling Unit.....	5,672.62	
01 22 23 00-1197 DAY 25 Ton Portable Spot Cooling Unit.....	1,739.60	
01 22 23 00-1198 WK 25 Ton Portable Spot Cooling Unit.....	2,798.50	
01 22 23 00-1199 MO 25 Ton Portable Spot Cooling Unit.....	6,050.80	
01 22 23 00-1200 Fuel Oil Tank <small>(01 22 23 00-1116)</small>		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0724 for reimbursable fuel fees.		
01 22 23 00-1201 MO 100 Gallon Portable Double Wall Fuel Oil Tank Rental	400.46	
01 22 23 00-1202 MO 275 Gallon Portable Double Wall Fuel Oil Tank Rental	622.94	
01 22 23 00-1203 MO 500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,557.36	
01 22 23 00-1204 MO 1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,595.60	
01 22 23 00-1205 MO 2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,426.19	
01 22 23 00-1206 MO 5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	6,120.67	
01 22 23 00-1207 Truck And Trailer Equipment <small>(01 22 23)</small>		
01 22 23 00-1208 Trucks <small>(01 22 23 00-1207)</small>		
Note: Includes driver, delivery, and removal.		
01 22 23 00-1209 Flat Bed Trucks <small>(01 22 23 00-1208)</small>		
Note: Includes hydraulic tilt bed.		
01 22 23 00-1210 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	895.22	
<i>For Equipment Without Operator, Deduct</i>		
	-644.75	
01 22 23 00-1211 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,880.40	
<i>For Equipment Without Operator, Deduct</i>		
	-3,223.76	
01 22 23 00-1212 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	15,628.18	
<i>For Equipment Without Operator, Deduct</i>		
	-13,969.65	
01 22 23 00-1213 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,003.53	
<i>For Equipment Without Operator, Deduct</i>		
	-644.75	
01 22 23 00-1214 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,157.95	
<i>For Equipment Without Operator, Deduct</i>		
	-3,223.76	
01 22 23 00-1215 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	16,338.97	
<i>For Equipment Without Operator, Deduct</i>		
	-13,969.65	
01 22 23 00-1216 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,081.25	
<i>For Equipment Without Operator, Deduct</i>		
	-644.75	
01 22 23 00-1217 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,455.00	
<i>For Equipment Without Operator, Deduct</i>		
	-3,223.76	
01 22 23 00-1218 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	17,469.48	
<i>For Equipment Without Operator, Deduct</i>		
	-13,969.65	
01 22 23 00-1219 Light Off-Road Utility Passenger Vehicles <small>(01 22 23 00-1208)</small>		
01 22 23 00-1220 DAY 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	241.66	
01 22 23 00-1221 WK 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	558.85	
01 22 23 00-1222 MO 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	1,208.32	
01 22 23 00-1223 DAY 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	249.22	
01 22 23 00-1224 WK 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	581.50	
01 22 23 00-1225 MO 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	1,283.84	
01 22 23 00-1226 Light Duty Trucks <small>(01 22 23 00-1208)</small>		
01 22 23 00-1227 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	880.73	
<i>For Equipment Without Operator, Deduct</i>		
	-638.15	
01 22 23 00-1228 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	3,986.70	
<i>For Equipment Without Operator, Deduct</i>		
	-3,190.75	
01 22 23 00-1229 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	15,494.30	
<i>For Equipment Without Operator, Deduct</i>		
	-13,826.59	
01 22 23 00-1230 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	926.21	
<i>For Equipment Without Operator, Deduct</i>		
	-638.15	
01 22 23 00-1231 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	4,123.15	
<i>For Equipment Without Operator, Deduct</i>		
	-3,190.75	
01 22 23 00-1232 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	15,797.52	
<i>For Equipment Without Operator, Deduct</i>		
	-13,826.59	
01 22 23 00-1233 Rear Dump Trucks <small>(01 22 23 00-1208)</small>		
01 22 23 00-1234 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver	976.15	
<i>For Equipment Without Operator, Deduct</i>		
	-644.75	
01 22 23 00-1235 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver	4,099.09	
<i>For Equipment Without Operator, Deduct</i>		
	-3,223.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1236 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver	16,649.69	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1237 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver	1,086.02	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1238 WK 4 CY Rear Dump Truck With Full-Time Truck Driver	4,439.50	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1239 MO 4 CY Rear Dump Truck With Full-Time Truck Driver	17,121.57	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1240 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver	1,149.06	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1241 WK 6 CY Rear Dump Truck With Full-Time Truck Driver	4,574.58	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1242 MO 6 CY Rear Dump Truck With Full-Time Truck Driver	17,211.63	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1243 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver	1,896.51	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1244 WK 13 CY Rear Dump Truck With Full-Time Truck Driver	6,114.53	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1245 MO 13 CY Rear Dump Truck With Full-Time Truck Driver	21,534.27	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1246 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver	2,021.69	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1247 WK 18 CY Rear Dump Truck With Full-Time Truck Driver	6,403.60	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1248 MO 18 CY Rear Dump Truck With Full-Time Truck Driver	22,290.73	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1249 Vacuum Trucks <small>(01 22 23 00-1208)</small>		
01 22 23 00-1250 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	1,887.51	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1251 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	6,966.45	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1252 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	25,014.00	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1253 Water Trucks <small>(01 22 23 00-1208)</small>		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1006 for additional discharge hose, 01 22 23 00-1269 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1254 DAY 2,000 Gallon Water Truck With Full-Time Driver	1,296.89	
For Equipment Without Operator, Deduct	-644.75	
For Each 1,000 Gallon Of Purchased Water, Add	11.64	
01 22 23 00-1255 WK 2,000 Gallon Water Truck With Full-Time Driver	4,941.06	
For Equipment Without Operator, Deduct	-3,223.76	
For Each 1,000 Gallon Of Purchased Water, Add	11.64	
01 22 23 00-1256 MO 2,000 Gallon Water Truck With Full-Time Driver	18,027.41	
For Equipment Without Operator, Deduct	-13,969.65	
For Each 1,000 Gallon Of Purchased Water, Add	11.64	
01 22 23 00-1257 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	1,615.71	
For Equipment Without Operator, Deduct	-644.75	
For Each 1,000 Gallon Of Purchased Water, Add	11.64	
01 22 23 00-1258 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	5,897.53	
For Equipment Without Operator, Deduct	-3,223.76	
For Each 1,000 Gallon Of Purchased Water, Add	11.64	
01 22 23 00-1259 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	20,491.05	
For Equipment Without Operator, Deduct	-13,969.65	
For Each 1,000 Gallon Of Purchased Water, Add	11.64	
01 22 23 00-1260 Asphalt Distribution Trucks <small>(01 22 23 00-1208)</small>		
01 22 23 00-1261 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	1,805.04	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1262 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	6,689.74	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1263 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	24,215.97	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1264 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1208)</small>		
01 22 23 00-1265 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,312.41	
For Equipment Without Operator, Deduct	-638.15	
01 22 23 00-1266 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	5,180.67	
For Equipment Without Operator, Deduct	-3,190.75	
01 22 23 00-1267 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	18,659.02	
For Equipment Without Operator, Deduct	-13,826.59	

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1268 Trailers <small>(01 22 23 00-1207)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1269 Water Trailers With Pump <small>(01 22 23 00-1268)</small>		
01 22 23 00-1270 DAY 500 To 600 Gallon Water Trailer With Pump	166.66	
01 22 23 00-1271 WK 500 To 600 Gallon Water Trailer With Pump	427.51	
01 22 23 00-1272 MO 500 To 600 Gallon Water Trailer With Pump	1,144.87	

01 30 Administrative Requirements (01)

01 31 Project Management and Coordination (01 30)

01 31 33 Project Minimum Labor Costs (01 31)

01 31 33 00-0001	Minimum Charge <small>(01 31 33)</small> Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.	
01 31 33 00-0002 EA	Carpenter Minimum Charge	1,051.83
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0003 EA	Carpet, Linoleum Minimum Charge	1,008.68
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0004 EA	Cement Mason Minimum Charge	711.67
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0005 EA	Drywall Finisher Minimum Charge	946.17
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0006 EA	Drywall Installer Minimum Charge	1,016.68
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0007 EA	Electrician Minimum Charge	1,238.47
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0008 EA	Glazier Minimum Charge	915.96
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0009 EA	Insulator Minimum Charge	1,065.19
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0010 EA	Laborer Minimum Charge	651.39
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0011 EA	Landscape Maintenance Worker Minimum Charge	776.39
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0012 EA	Ornamental Metal Worker Minimum Charge	976.00
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0013 EA	Painter, Ordinary Minimum Charge	791.58
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0014 EA	Plasterer Minimum Charge	928.45
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0015 EA	Plumber Minimum Charge	1,315.61
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0016 EA	Roofer, Tile/Slate Minimum Charge	1,003.23
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0017 EA	Roofer, Composite Built-Up Minimum Charge	1,003.23
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0018 EA	Sheet Metal Worker Minimum Charge	1,210.92
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0019 EA	Sprinkler Installer Minimum Charge	1,268.80
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0020 EA	Tile Layer (Floor) Minimum Charge	839.68
	Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	

01 35 Special Procedures (01 30)

01 35 29 Health, Safety, and Emergency Response Procedures (01 35)

See CSI section 02 90 00 00-0000 for disaster recovery task.



General Requirements	01	10
Administrative Requirements	01 30	
Special Procedures	01 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 35 29 00-0001 Emergency Response <small>(01 35 29)</small> See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0051 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.		
01 35 29 00-0002 MI Trucking Delivery Of 20' Shipping Container	2.11	
01 35 29 00-0003 MI Trucking Delivery Of 40' Shipping Container	4.22	
01 35 33 Infection Control Procedures <small>(01 35)</small> See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.		
01 40 Quality Requirements <small>(01)</small>		
01 45 Quality Control <small>(01 40)</small>		
01 45 23 Testing and Inspecting Services <small>(01 45)</small> Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.		
01 45 23 00-0001 Soils/Aggregate Testing <small>(01 45 23)</small>		
01 45 23 00-0002 Field Soils Tests <small>(01 45 23 00-0001)</small>		
01 45 23 00-0003 EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	275.45	
01 45 23 00-0004 EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	390.96	
01 45 23 00-0005 EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	444.28	
01 45 23 00-0006 EA Resistance (R) Value Soils Test, CA 301, Field Soils Test	355.42	
01 45 23 00-0007 EA Soils Classification Test, ASTM D-2487, Field Soils Test	533.13	
01 45 23 00-0008 SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test	1,065.89	
01 45 23 00-0009 EA Moisture Content, Field Soils Test	39.97	
01 45 23 00-0010 EA UBC Or Swell Test, Field Soils Test	140.03	
01 45 23 00-0011 EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test	266.47	
01 45 23 00-0012 EA Proctor Compaction 6" Standard Mold, Field Soils Test	333.09	
01 45 23 00-0013 EA Density And Classification Test, Field Soils Test	106.59	
01 45 23 00-0014 EA Percolation Test, Field Soils Test	266.47	
01 45 23 00-0015 EA Infiltration Test, Field Soils Test	532.95	
01 45 23 00-0016 Aggregate Testing <small>(01 45 23 00-0001)</small>		
01 45 23 00-0017 EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	88.86	
01 45 23 00-0018 EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202	159.94	
01 45 23 00-0019 EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	222.14	
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136	173.21	
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127	141.14	
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127	126.57	
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	188.19	
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	177.71	
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227	177.71	
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	133.28	
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229	142.17	
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88	373.06	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211	284.34	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535	284.34	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29	79.97	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40	79.94	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method	79.94	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142	159.88	
01 45 23 00-0035 Permeability Tests <small>(01 45 23 00-0001)</small>		
01 45 23 00-0036 In-Place Tests <small>(01 45 23 00-0035)</small>		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385	1,411.42	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	66.62	
01 45 23 00-0039 Lab Tests <small>(01 45 23 00-0035)</small>		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE	658.66	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100	658.66	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	376.38	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing <small>(01 45 23)</small>		
01 45 23 00-0044 Concrete Testing <small>(01 45 23 00-0043)</small>		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	21.79	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	56.46	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42	115.51	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	168.82	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567	62.20	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0050 EA Concrete Mix Design Review	337.65	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory	799.70	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified	621.98	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	95.96	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143.....	44.43	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	44.43	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24)	44.43	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	71.08	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	88.86	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	231.02	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559	88.86	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559	231.02	
01 45 23 00-0064 EA Swell Test, CA 305	106.63	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	266.56	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041.....	169.37	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308	35.54	
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C	35.54	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum	183.04	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	119.91	
01 45 23 00-0071 EA Penetration, ASTM D5	128.36	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test	58.64	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test.....	58.64	
01 45 23 00-0076 EA Masonry Cores Compression Test.....	115.51	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test.....	222.14	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	142.17	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight.....	97.74	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	373.06	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	186.53	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	535.28	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	594.37	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	653.26	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	137.75	
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	826.48	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	41.56	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample	172.26	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	172.26	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	172.26	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	947.43	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves	623.51	
01 45 23 00-0098 Nondestructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	3,100.68	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	5.17	
For CADD Drawings, Add	1.03	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	3.45	
For CADD Drawings, Add	0.69	



General Requirements	01	10
Quality Requirements	01 40	
Quality Control	01 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	2.58	
For CADD Drawings, Add	0.52	
For Elevated Infrared Thermography Roof Investigation, Add	0.65	
For Aerial Infrared Thermography Roof Investigation, Add	0.65	
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	1.72	
For CADD Drawings, Add	0.34	
For Elevated Infrared Thermography Roof Investigation, Add	0.43	
For Aerial Infrared Thermography Roof Investigation, Add	0.43	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge.....	1,636.47	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography	5.17	
For Digital Or Analog Recording Of All Items, Add	2.59	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	3.45	
For Digital Or Analog Recording Of All Items, Add	1.73	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	1.72	
For Digital Or Analog Recording Of All Items, Add	0.86	
01 45 23 00-0111 General Building Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0112 EA General Building Investigation Using Infrared Thermography, Mobilization Charge.....	3,359.07	
01 45 23 00-0113 CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography	5.17	
For Digital Or Analog Recording Of All Items, Add	2.59	
01 45 23 00-0114 CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography.....	3.45	
For Digital Or Analog Recording Of All Items, Add	1.73	
01 45 23 00-0115 CSF >5,000 SF, General Building Investigation Using Infrared Thermography	1.72	
For Digital Or Analog Recording Of All Items, Add	0.86	
01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography (01 45 23 00-0099)		
Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0117 EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge.....	1,636.47	
01 45 23 00-0118 HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography	243.56	
For Digital Or Analog Recording Of All Items, Add	36.46	
01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0120 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,636.47	
01 45 23 00-0121 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	5.17	
For Digital Or Analog Recording Of All Items, Add	0.78	
01 45 23 00-0122 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	3.45	
For Digital Or Analog Recording Of All Items, Add	0.52	
01 45 23 00-0123 Other Nondestructive Field Testing Services (01 45 23 00-0098)		
01 45 23 00-0124 HR ASNT Certified Level I NDT Consultant.....	95.62	
01 45 23 00-0125 HR ASNT Certified Level II NDT Consultant.....	119.25	
01 45 23 00-0126 HR ASNT Certified Level III NDT Consultant.....	136.88	
01 45 23 00-0127 HR Certified Industrial Radiography Radiation Safety Personnel	139.12	
01 45 23 00-0128 Testing Professional Services (01 45 23 00-0088)		
01 45 23 00-0129 HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection.....	165.27	
01 45 23 00-0130 HR Laboratory Technician	159.94	
01 45 23 00-0131 HR Portable Digital Reinforcement Scanner.....	231.02	
01 45 23 00-0132 HR Subsurface Detection Radar System.....	390.96	
01 45 23 00-0133 HR Pavement Rehabilitation Analysis Using Deflectors	444.28	
01 45 29 Testing Laboratory Services (01 45)		
01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)		
See CSI section 02 32 13 00-0000 for soil borings.		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	122.32	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test.....	39.04	
01 45 29 00-0004 EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	94.10	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test.....	658.66	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test	130.11	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test.....	28.23	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	17.54	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test.....	226.41	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test	78.96	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test	15.61	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test.....	780.71	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	157.91	

01	01	General Requirements
	01 40	Quality Requirements
	01 45	Quality Control



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 29 00-0014	EA		Sulfate Soundness, Soil Borings Laboratory Test.....	195.18	
01 45 29 00-0015	EA		Los Angeles Abrasion, Soil Borings Laboratory Test.....	455.09	
01 45 29 00-0016	EA		Soil Bearing Ratio, ASTM D1883.....	399.85	
01 45 29 00-0017	EA		Compaction Test Subgrade, Soil Borings Laboratory Test.....	117.11	
01 45 29 00-0018	EA		Compaction Test Base Course, Soil Borings Laboratory Test.....	99.08	
01 45 29 00-0019	EA		In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	385.08	
01 45 29 00-0020	EA		Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	59.85	

01 50 Temporary Facilities and Controls (01)

Note: Tasks in this section shall be used as directed by owner.

01 51 Temporary Utilities (01 50)

01 51 13 Temporary Electricity (01 51)

01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch (01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,617.96
01 51 13 00-0003	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,524.86
01 51 13 00-0004	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,579.27
01 51 13 00-0005	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	7,373.89

01 51 13 00-0006 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses (01 51 13)

Note: Includes mounting on wall and removal after use.

01 51 13 00-0007	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,618.08
01 51 13 00-0008	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,316.69
01 51 13 00-0009	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,609.24
01 51 13 00-0010	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,219.04

01 51 13 00-0011 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards (01 51 13)

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0012	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	9.49
01 51 13 00-0013	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	10.40

01 51 26 Temporary Lighting (01 51)

01 51 26 00-0001 Temporary Devices (01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	320.73
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	117.86
01 51 26 00-0004	EA	Temporary High Bay Light.....	445.92

01 52 Construction Facilities (01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices and Sheds (01 52)

01 52 13 00-0001 Field Offices (01 52 13)

Note: Excludes furniture, utility connections and service. Minimum 6 months rental.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	166.62
		For Each Delivery And Removal, Two Round Trips, Add	692.02
		For Each Set-Up (Block And Level), Add	388.51
		For Each Anchoring Into Dirt, Add	118.47
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71
		For Office Trailer Without Toilet, Deduct	-33.32
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	188.83
		For Each Delivery And Removal, Two Round Trips, Add	692.02
		For Each Set-Up (Block And Level), Add	388.51
		For Each Anchoring Into Dirt, Add	118.47
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71
		For Office Trailer Without Toilet, Deduct	-37.77
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	255.48
		For Each Delivery And Removal, Two Round Trips, Add	980.37
		For Each Set-Up (Block And Level), Add	633.89
		For Each Anchoring Into Dirt, Add	118.47
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71
		For Office Trailer Without Toilet, Deduct	-51.10
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet.....	272.15
		For Each Delivery And Removal, Two Round Trips, Add	980.37
		For Each Set-Up (Block And Level), Add	633.89
		For Each Anchoring Into Dirt, Add	118.47
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71
		For Office Trailer Without Toilet, Deduct	-54.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0006 MO 10' x 44' Mobile Office, With Toilet.....	299.92	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet.....	316.58	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	244.93	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
For Each Delivery And Set-Up (Block And Level), Add	949.29	
For Each Knock-Down And Pick-Up, Add	754.29	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	327.47	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	372.12	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	405.44	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	888.63	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,066.36	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	506.80	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	45.84	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	28.65	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	34.38	
01 52 13 00-0019 MO Table For Field Office Trailer.....	22.92	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	10.86	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	126.07	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	80.23	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	144.45	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer.....	14.22	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer.....	33.68	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	41.47	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	57.30	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	91.69	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	192.50	
For Each Delivery And Removal, Two Round Trips, Add	225.69	
For >12 Months, Deduct	-57.75	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	201.25	
For Each Delivery And Removal, Two Round Trips, Add	248.26	
For >12 Months, Deduct	-60.38	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	238.00	
For Each Delivery And Removal, Two Round Trips, Add	500.00	
For >12 Months, Deduct	-71.40	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	59.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 52	Construction Facilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 19 00-0003	MO		Portable Chemical Toilet.....	177.00	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0004	WK		Americans With Disabilities Act Compliant Portable Chemical Toilet.....	70.37	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0005	MO		Americans With Disabilities Act Compliant Portable Chemical Toilet.....	206.49	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0006	WK		Two Station Portable Handwash.....	43.93	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0007	MO		Two Station Portable Handwash.....	133.24	
			<i>For Each Delivery, Add</i>	75.00	
01 52 19 00-0008	MO		6 Station, Portable Toilets, Multi Trailer	3,661.58	
			Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009	WK		Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,112.45	

01 53 Temporary Construction (01 50)

01 53 16 Temporary Decking (01 53)

01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)

Note: Includes removal after use.

01 53 16 00-0002	SF		Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	6.88	
01 53 16 00-0003	LF		Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	33.32	
01 53 16 00-0004	LF		Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	12.51	
01 53 16 00-0005	RSR		Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	23.78	

01 53 23 Temporary Ramps (01 53)

01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)

Note: Includes removal after use.

01 53 23 00-0002	SF		Temporary Plywood For Wheel Barrow Access.....	1.57	0.50
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01 54 Construction Aids (01 50)

01 54 09 Personnel Protection Equipment (01 54)

01 54 09 00-0001 Personnel Protection Equipment (01 54 09)

Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.

01 54 09 00-0002	NTE		Personnel Protection Equipment.....	0.00	
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01 54 23 Temporary Scaffolding and Platforms (01 54)

01 54 23 00-0001 Scaffolding (01 54 23)

Note: Additional scaffolding rental for work above the normal working height.

01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.

01 54 23 00-0003	CCF		Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	28.12	
			<i>For Up To 25, Add</i>	11.25	
			<i>For >25 To 50, Add</i>	7.03	
			<i>For >50 To 150, Add</i>	2.81	
01 54 23 00-0004	CCF		Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	31.62	
			<i>For Up To 25, Add</i>	12.65	
			<i>For >25 To 50, Add</i>	7.91	
			<i>For >50 To 150, Add</i>	3.16	
01 54 23 00-0005	CCF		Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	42.18	
			<i>For Up To 25, Add</i>	16.87	
			<i>For >25 To 50, Add</i>	10.55	
			<i>For >50 To 150, Add</i>	4.22	

01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.

01 54 23 00-0007	CCF		Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	52.38	
01 54 23 00-0008	CCF		>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	65.48	
01 54 23 00-0009	CCF		>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	78.57	
01 54 23 00-0010	CCF		>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	86.43	
01 54 23 00-0011	CCF		>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	99.52	
01 54 23 00-0012	CCF		Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	62.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only <small>(01 54 23 00-0001)</small>		
<small>Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.</small>		
01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	54.82	
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	100.51	
01 54 23 00-0016 LF Aluminum Joists (LF / Month)	8.91	
01 54 23 00-0017 LF Aluminum Stringers (LF / Month)	12.78	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....	16.11	
01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only <small>(01 54 23 00-0001)</small>		
<small>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.</small>		
01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	83.81	
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	104.76	
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	125.71	
01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	136.19	
01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	151.90	
01 54 23 00-0025 Scaffolding Accessories <small>(01 54 23 00-0001)</small>		
<small>See CSI section 01 54 23 00-0019 for erection.</small>		
01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding	35.64	
<small>Note: Includes removal after use.</small>		
01 54 23 00-0027 Rolling Scaffolding <small>(01 54 23)</small>		
<small>Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.</small>		
01 54 23 00-0028 DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	10.39	
01 54 23 00-0029 WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	41.65	
01 54 23 00-0030 MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	166.57	
01 54 23 00-0031 DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	17.40	
01 54 23 00-0032 WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	69.68	
01 54 23 00-0033 MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	278.76	
01 54 23 00-0034 EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	98.56	
01 54 23 00-0035 EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	123.20	
01 54 23 00-0036 Shoring Posts <small>(01 54 23)</small>		
<small>Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.</small>		
01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	6.44	
01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	19.31	
01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	32.19	
01 54 23 00-0040 Temporary Lumber <small>(01 54 23)</small>		
<small>Note: Includes removal after use.</small>		
01 54 23 00-0041 SF 5/16" CD Grade Plywood, Temporary Lumber	2.70	
01 54 23 00-0042 SF 1/2" CD Grade Plywood, Temporary Lumber	2.84	
01 54 23 00-0043 SF 5/8" CD Grade Plywood, Temporary Lumber	3.49	
01 54 23 00-0044 SF 3/4" CD Grade Plywood, Temporary Lumber	3.90	
01 54 23 00-0045 SF 1" CD Grade Plywood, Temporary Lumber	5.92	
01 54 23 00-0046 LF 2" x 4" Temporary Lumber	3.07	
01 54 23 00-0047 LF 2" x 6" Temporary Lumber	3.86	
01 54 23 00-0048 LF 2" x 8" Temporary Lumber	4.65	
01 54 23 00-0049 LF 2" x 10" Temporary Lumber	5.46	
01 54 23 00-0050 LF 2" x 12" Temporary Lumber	6.25	
01 54 23 00-0051 LF 3" x 8" Temporary Lumber	6.25	
01 54 23 00-0052 LF 3" x 10" Temporary Lumber	7.44	
01 54 23 00-0053 LF 3" x 12" Temporary Lumber	8.63	
01 54 23 00-0054 LF 4" x 4" Temporary Lumber	4.08	
01 54 23 00-0055 LF 4" x 6" Temporary Lumber	5.80	
01 54 23 00-0056 LF 6" x 6" Temporary Lumber	7.53	
01 54 23 00-0057 LF 6" x 8" Temporary Lumber	9.75	
01 54 23 00-0058 LF 12" x 12" Temporary Lumber	23.47	
01 54 23 00-0059 Temporary Precast Concrete Blocks <small>(01 54 23)</small>		
<small>Note: Includes removal after use.</small>		
01 54 23 00-0060 EA 2' x 2' x 2' Temporary Precast Concrete Block	100.87	
01 54 23 00-0061 EA 2' x 2' x 4' Temporary Precast Concrete Block	126.08	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 54	Construction Aids



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0062 EA 2' x 2' x 8' Temporary Precast Concrete Block.....	151.31	
01 54 26 Temporary Swing Staging (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001 Swing Stage (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002 MO 7' Swing Stage, Electric Operated	2,409.84	
01 54 26 00-0003 MO 10' Swing Stage, Electric Operated	2,530.33	
01 54 26 00-0004 MO 14' Swing Stage, Electric Operated	2,650.82	
01 54 26 00-0005 MO 20' Swing Stage, Electric Operated	2,771.31	
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	2,891.80	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	3,012.30	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	3,132.79	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated	694.89	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated	868.61	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling..... Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.	4,202.13	
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,839.57	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,209.57	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,077.62	
01 55 Vehicular Access and Parking (01 50)		
01 55 23 Temporary Roads (01 55)		
01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23) Note: As per Caltrans detail.		
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.90	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.07	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004 Rumble Trench Plate (01 55 23)		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	321.86	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate	85.83	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	21.46	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23) Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,983.33	191.22
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,427.04	286.83
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	7,496.98	382.45
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	15,516.21	478.07
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	22,752.63	573.68
01 55 26 Traffic Control (01 55)		
01 55 26 00-0001 Removable Preformed Traffic Black Line Mask (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask.....	5.93	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask.....	7.37	
01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	4.39	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	5.96	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	7.43	
01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	2.10	
For Not Removed, Deduct	-2.76	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.76	
For Not Removed, Deduct	-3.73	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0011	LF		8" Temporary Painted Traffic Lines..... <i>For Not Removed, Deduct</i>	3.47 -4.72	
01 55 26 00-0012	EA		2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.90	
01 55 26 00-0013	EA		2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.92	
01 55 26 00-0014			Pedestrian Traffic Control <small>(01 55 26)</small>		
01 55 26 00-0015	CLF		1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	12.68	
01 55 26 00-0016	CLF		2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	17.36	
01 55 26 00-0017	CLF		3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.82	
01 55 26 00-0018	CLF		2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	11.19	
01 55 26 00-0019	CLF		3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	12.70	
01 55 26 00-0020	CLF		6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	18.71	
01 55 26 00-0021	CLF		1" Exterior Vinyl Tape (Warning Tape)	15.99	
01 55 26 00-0022	CLF		2" Exterior Vinyl Tape (Warning Tape)	23.64	
01 55 26 00-0023	CLF		3" Exterior Vinyl Tape (Warning Tape)	31.17	
01 55 26 00-0024	CLF		4" Exterior Vinyl Tape (Warning Tape)	36.56	
01 55 26 00-0025			Linear Delineation System, Temporary Or Permanent <small>(01 55 26)</small> Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026	LF		4" Linear Delineation System.....	9.25	
01 55 26 00-0027	LF		6" Linear Delineation System.....	12.47	
01 55 26 00-0028			Traffic Protection <small>(01 55 26)</small>		
01 55 26 00-0029			Portable Traffic Control Device Usage <small>(01 55 26 00-0028)</small> Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0030	DAY		28" Cone With Reflective Collar.....	0.69	
01 55 26 00-0031	WK		28" Cone With Reflective Collar.....	2.07	
01 55 26 00-0032	MO		28" Cone With Reflective Collar.....	6.22	
01 55 26 00-0033	DAY		Vertical Panel.....	2.09	
01 55 26 00-0034	WK		Vertical Panel.....	6.26	
01 55 26 00-0035	MO		Vertical Panel.....	18.79	
01 55 26 00-0036	DAY		Channelizer Drum.....	2.27	
01 55 26 00-0037	WK		Channelizer Drum.....	6.80	
01 55 26 00-0038	MO		Channelizer Drum.....	20.39	
01 55 26 00-0039	DAY		Stackable Channelizer Panel.....	1.07	
01 55 26 00-0040	WK		Stackable Channelizer Panel.....	3.21	
01 55 26 00-0041	MO		Stackable Channelizer Panel.....	9.64	
01 55 26 00-0042	DAY		Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.48	
01 55 26 00-0043	WK		Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	4.45	
01 55 26 00-0044	MO		Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	13.36	
01 55 26 00-0045	DAY		Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	3.29	
01 55 26 00-0046	WK		Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	9.87	
01 55 26 00-0047	MO		Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	29.60	
01 55 26 00-0048	DAY		Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	3.75	
01 55 26 00-0049	WK		Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	11.25	
01 55 26 00-0050	MO		Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	33.74	
01 55 26 00-0051	DAY		Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	6.86	
01 55 26 00-0052	WK		Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	20.57	
01 55 26 00-0053	MO		Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	61.71	
01 55 26 00-0054	DAY		Up To 10' Wide A Frame Barricade	3.76	
01 55 26 00-0055	WK		Up To 10' Wide A Frame Barricade	11.28	
01 55 26 00-0056	MO		Up To 10' Wide A Frame Barricade	33.85	
01 55 26 00-0057	DAY		Type A Or C Flasher.....	0.77	
01 55 26 00-0058	WK		Type A Or C Flasher.....	2.30	
01 55 26 00-0059	MO		Type A Or C Flasher.....	6.90	
01 55 26 00-0060	DAY		Type B Flasher (High Intensity)	4.16	
01 55 26 00-0061	WK		Type B Flasher (High Intensity)	12.47	
01 55 26 00-0062	MO		Type B Flasher (High Intensity)	37.42	
01 55 26 00-0063			Traffic Barriers Usage <small>(01 55 26 00-0028)</small> Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0064	DAY		6' Long Portable Parking Curbs	1.79	
01 55 26 00-0065	WK		6' Long Portable Parking Curbs	5.37	
01 55 26 00-0066	MO		6' Long Portable Parking Curbs	16.12	
01 55 26 00-0067	DAY		6' Long Portable Speed Bumps	5.30	
01 55 26 00-0068	WK		6' Long Portable Speed Bumps	15.90	
01 55 26 00-0069	MO		6' Long Portable Speed Bumps	47.70	
01 55 26 00-0070	DAY		Up To 12.5' Concrete Traffic Barrier	12.73	
01 55 26 00-0071	WK		Up To 12.5' Concrete Traffic Barrier	38.20	
01 55 26 00-0072	MO		Up To 12.5' Concrete Traffic Barrier	114.59	
01 55 26 00-0073	DAY		>12.5' To 20' Concrete Traffic Barrier	25.46	
01 55 26 00-0074	WK		>12.5' To 20' Concrete Traffic Barrier	76.39	
01 55 26 00-0075	MO		>12.5' To 20' Concrete Traffic Barrier	229.18	
01 55 26 00-0076	DAY		6' x 32" Tall Plastic Water Barrier	15.20	
01 55 26 00-0077	WK		6' x 32" Tall Plastic Water Barrier	45.61	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 55	Vehicular Access and Parking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	136.84	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	21.71	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	65.13	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	195.40	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	8.50	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	25.49	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	76.48	
01 55 26 00-0085 Portable Signs And Message Displays Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0086 DAY Mesh Or Vinyl Roll-up Sign With Stand	6.67	
01 55 26 00-0087 WK Mesh Or Vinyl Roll-up Sign With Stand	20.02	
01 55 26 00-0088 MO Mesh Or Vinyl Roll-up Sign With Stand	60.05	
01 55 26 00-0089 DAY Aluminum Sign And Post	3.38	
01 55 26 00-0090 WK Aluminum Sign And Post	10.14	
01 55 26 00-0091 MO Aluminum Sign And Post	30.41	
01 55 26 00-0092 DAY Aluminum Sign And A Frame Stand	5.04	
01 55 26 00-0093 WK Aluminum Sign And A Frame Stand	15.13	
01 55 26 00-0094 MO Aluminum Sign And A Frame Stand	45.40	
01 55 26 00-0095 DAY Trailer Mounted Flashing Arrow Board	102.00	
01 55 26 00-0096 WK Trailer Mounted Flashing Arrow Board	282.32	
01 55 26 00-0097 MO Trailer Mounted Flashing Arrow Board	746.77	
01 55 26 00-0098 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	366.00	
01 55 26 00-0099 WK Trailer Mounted Portable Variable Message Sign (PVMS)	976.00	
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS)	1,952.00	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,136.03	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	3,408.09	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	10,224.27	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 Place And Remove Traffic Protection Using Truck (01 55 26 00-0028)		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.		
01 55 26 00-0105 EA Placement And Removal Of Up To 250 Cones Using Truck.....	3.37	
01 55 26 00-0106 EA Placement And Removal Of >250 Cones Using Truck	2.96	
01 55 26 00-0107 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	5.57	
01 55 26 00-0108 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.64	
01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	8.44	
01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck.....	6.75	
01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	8.44	
01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck.....	5.07	
01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck	21.09	
01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	63.29	
01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	85.83	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	214.58	
For 2 Barriers, Add	77.25	
For 3 Barriers, Add	25.75	
01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	128.76	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	321.90	
For 2 Barriers, Add	115.88	
For 3 Barriers, Add	38.63	
01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier.....	48.74	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	107.30	
For 2 Barriers, Add	38.63	
For 3 Barriers, Add	12.88	
01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels	64.38	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	160.95	
For 2 Barriers, Add	57.94	
For 3 Barriers, Add	19.31	
01 55 26 00-0119 Place And Remove Traffic Protection From Roadside (Daily) (01 55 26 00-0028)		
01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.11	
01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.69	
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	2.81	
01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.24	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.21	
01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.55	
01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	31.64	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier.....	42.92	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0129 Temporary Rumble Strips (01 55 26)		
Note: Includes removal after use.		
01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	11.02	
01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	7.96	
01 56 Temporary Barriers and Enclosures (01 50)		
Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers (01 56)		
01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors	0.33	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.43	
01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.57	
01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.57	
01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.40	
01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.50	
01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.64	
01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.61	
01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.77	
01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.42	
01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.52	
01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.66	
01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.63	
01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.41	
01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.51	
01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.65	
01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.62	
01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.47	
01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.57	
01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.71	
01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.68	
01 56 16 00-0023 Accessories For Temporary Sheeting (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0024 EA 7' Zipper Door For Plastic Sheeting.....	21.59	
01 56 16 00-0025 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	8.20	
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0026 Temporary Critical Barriers For Protection (01 56 16)		
Note: Includes removal after use. See CSI section 02 89 00 00-0002 for Other barriers for infectious control.		
01 56 16 00-0027 EA Up To 1 SF Individual Critical Barriers.....	11.86	
Note: For Outlets And Receptacles		
01 56 16 00-0028 EA >1 To 4 SF Individual Critical Barriers.....	17.95	
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0029 EA >4 To 8 SF Individual Critical Barriers.....	24.12	
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0030 EA >8 To 32 SF Individual Critical Barriers.....	37.48	
Note: For doors, windows, etc.		
01 56 16 00-0031 Temporary Stud Wall (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0032 Temporary Stud Wall With Drywall (01 56 16 00-0031)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0033 Temporary Stud Wall With Drywall (01 56 16 00-0032)		
01 56 16 00-0034 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.24	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0035 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.24	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0036 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.32	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0037 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.57	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0038 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.57	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0039 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.73	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 16 00-0040	Temporary Stud Wall With Fire Rated Drywall <small>(01 56 16 00-0032)</small>	
01 56 16 00-0041	SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.33 0.62
01 56 16 00-0042	SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.36 0.62
01 56 16 00-0043	SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.31 0.62
01 56 16 00-0044	SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.93 0.62
01 56 16 00-0045	SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.75 0.72
01 56 16 00-0046	SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.80 0.72
01 56 16 00-0047	SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.71 0.72
01 56 16 00-0048	SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.95 0.72

01 56 16 00-0049	Temporary Stud Wall With Oriented Strand Board (OSB) <small>(01 56 16 00-0031)</small>	
	<small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.</small>	
01 56 16 00-0050	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.23 0.62
01 56 16 00-0051	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.28 0.62
01 56 16 00-0052	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.42 0.62
01 56 16 00-0053	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.49 0.62
01 56 16 00-0054	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.55 0.72
01 56 16 00-0055	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.65 0.72
01 56 16 00-0056	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.92 0.72
01 56 16 00-0057	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.06 0.72

01 56 16 00-0058	Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0031)</small>	
	<small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.</small>	
01 56 16 00-0059	SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.56 0.62
01 56 16 00-0060	SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.73 0.62
01 56 16 00-0061	SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.40 0.62
01 56 16 00-0062	SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.62 0.62
01 56 16 00-0063	SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.20 0.72
01 56 16 00-0064	SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.55 0.72
01 56 16 00-0065	SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.89 0.72
01 56 16 00-0066	SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	11.32 0.72

01 56 16 00-0067	Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0031)</small>	
	<small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.</small>	
01 56 16 00-0068	SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.63 0.51
01 56 16 00-0069	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.70 0.51
01 56 16 00-0070	SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.72 0.51
01 56 16 00-0071	SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.71 0.51
01 56 16 00-0072	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.77 0.51

01 56 16 00-0073	Temporary Doors <small>(01 56 16 00-0031)</small>	
	<small>Note: For temporary stud walls. Includes removal after use.</small>	
01 56 16 00-0074	EA Temporary Metal Door And Frame <small>Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.</small>	641.83



General Requirements		01
Temporary Facilities and Controls		01 50
Temporary Barriers and Enclosures		01 56

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0075 Temporary Floor Protection <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0076 SF Masonite For Temporary Floor Protection	1.86	
01 56 16 00-0077 SF 1/2" Plywood For Temporary Floor Protection	1.87	
01 56 16 00-0078 SF 3/4" Plywood For Temporary Floor Protection	2.51	
01 56 16 00-0079 LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	1.12	
01 56 16 00-0080 LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.33	
01 56 16 00-0081 CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film	22.38	
01 56 16 00-0082 SF Burlap For Temporary Floor Protection	0.68	
01 56 16 00-0083 Sticky Mats <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0084 EA 18" x 36", 30 Layer Sticky Mat	30.50	
For 60 Layers Instead Of 30, Add	19.91	
01 56 16 00-0085 EA 18" x 46", 30 Layer Sticky Mat	34.93	
For 60 Layers Instead Of 30, Add	23.24	
01 56 16 00-0086 EA 24" x 36", 30 Layer Sticky Mat	34.93	
For 60 Layers Instead Of 30, Add	23.24	
01 56 16 00-0087 EA 25" x 45", 30 Layer Sticky Mat	45.99	
For 60 Layers Instead Of 30, Add	31.53	
01 56 16 00-0088 EA 36" x 36", 30 Layer Sticky Mat	50.42	
For 60 Layers Instead Of 30, Add	34.85	
01 56 16 00-0089 EA 36" x 46", 30 Layer Sticky Mat	54.84	
For 60 Layers Instead Of 30, Add	38.17	
01 56 16 00-0090 EA 36" x 60", 30 Layer Sticky Mat	110.16	
For 60 Layers Instead Of 30, Add	79.66	
01 56 16 00-0091 EA 36" x 72", 30 Layer Sticky Mat	131.41	
01 56 26 Temporary Fencing <small>(01 56)</small>		
01 56 26 00-0001 Temporary Fencing <small>(01 56 26)</small>		
Note: Per ASTM A392-06 Standards		
01 56 26 00-0002 Temporary Chain Link Fence <small>(01 56 26 00-0001)</small>		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete, 32 31 13 13-0001 for auguring and backfill of posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months	5.80	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.27	
For >500, Deduct	-0.40	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months	6.46	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.30	
For >500, Deduct	-0.45	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months	8.84	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.51	
For >500, Deduct	-0.76	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months	19.22	
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-2.25	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months	6.07	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.29	
For >500, Deduct	-0.44	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	6.76	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.33	
For >500, Deduct	-0.49	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	9.34	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.83	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	20.71	
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-2.48	
For Each LF Shade Cloth, Add	4.75	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0013			Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014	LF		Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	6.37	
			For >100 To 250, Deduct	-0.16	
			For >250 To 500, Deduct	-0.32	
			For >500, Deduct	-0.48	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015	LF		Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	7.10	
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.36	
			For >500, Deduct	-0.54	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0016	LF		Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	9.91	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.92	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017	LF		Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	22.37	
			For >100 To 250, Deduct	-0.91	
			For >250 To 500, Deduct	-1.82	
			For >500, Deduct	-2.73	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018			Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019	LF		Temporary 4' High Chain Link Fence And Posts, >18 Months.....	6.69	
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.35	
			For >500, Deduct	-0.53	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020	LF		Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.44	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.40	
			For >500, Deduct	-0.60	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021	LF		Temporary 8' High Chain Link Fence And Posts, >18 Months.....	10.51	
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-1.01	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022	LF		Temporary 10' High Chain Link Fence And Posts, >18 Months.....	24.18	
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-3.00	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023			Temporary Chain Link Fence Gates (01 56 26 00-0001)		
			Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0024			Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025			4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	228.12	
			For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0027	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	389.05	
			For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0028	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	435.27	
			For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0029	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	495.69	
			For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0030	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	593.26	
			For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0031	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	660.88	
			For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0032			6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	244.48	
			For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0034	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	420.72	
			For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0035	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	471.80	
			For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0036	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	547.35	
			For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0037	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	661.36	
			For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0038	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	751.58	
			For Each LF Shade Cloth, Add	120.62	



		General Requirements	01
		Temporary Facilities and Controls	01 50
		Temporary Barriers and Enclosures	01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	273.18	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	482.91	
For Shade Cloth, Add	70.95	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	539.66	
For Shade Cloth, Add	85.14	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	618.19	
For Shade Cloth, Add	106.43	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	755.51	
For Shade Cloth, Add	141.90	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	878.78	
For Shade Cloth, Add	170.29	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	330.51	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	578.20	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	647.47	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	740.58	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	905.32	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,048.15	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	236.57	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	402.19	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	450.28	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	512.59	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	613.91	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	683.41	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	253.31	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	434.45	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	487.50	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	565.02	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	682.95	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	775.13	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	282.90	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	498.02	
For Shade Cloth, Add	70.95	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	556.93	
For Shade Cloth, Add	85.14	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	637.62	
For Shade Cloth, Add	106.43	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	779.26	
For Shade Cloth, Add	141.90	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	904.68	
For Shade Cloth, Add	170.29	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	342.66	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	597.08	
For Each LF Shade Cloth, Add	93.62	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0078	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	669.06	
			<i>For Each LF Shade Cloth, Add</i>	112.34	
01 56 26 00-0079	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	764.86	
			<i>For Each LF Shade Cloth, Add</i>	140.43	
01 56 26 00-0080	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	935.00	
			<i>For Each LF Shade Cloth, Add</i>	187.24	
01 56 26 00-0081	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,080.53	
			<i>For Each LF Shade Cloth, Add</i>	224.68	
01 56 26 00-0082			Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0083			4' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0084	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	245.44	
			<i>For Each LF Shade Cloth, Add</i>	12.61	
01 56 26 00-0085	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	415.98	
			<i>For Each LF Shade Cloth, Add</i>	31.53	
01 56 26 00-0086	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	466.05	
			<i>For Each LF Shade Cloth, Add</i>	37.84	
01 56 26 00-0087	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	530.33	
			<i>For Each LF Shade Cloth, Add</i>	47.30	
01 56 26 00-0088	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	635.59	
			<i>For Each LF Shade Cloth, Add</i>	63.07	
01 56 26 00-0089	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	707.06	
			<i>For Each LF Shade Cloth, Add</i>	75.68	
01 56 26 00-0090			6' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0091	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	262.58	
			<i>For Each LF Shade Cloth, Add</i>	20.10	
01 56 26 00-0092	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	448.87	
			<i>For Each LF Shade Cloth, Add</i>	50.26	
01 56 26 00-0093	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	503.98	
			<i>For Each LF Shade Cloth, Add</i>	60.31	
01 56 26 00-0094	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	583.56	
			<i>For Each LF Shade Cloth, Add</i>	75.39	
01 56 26 00-0095	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	705.61	
			<i>For Each LF Shade Cloth, Add</i>	100.52	
01 56 26 00-0096	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	799.86	
			<i>For Each LF Shade Cloth, Add</i>	120.62	
01 56 26 00-0097			8' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0098	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	293.10	
			<i>For Each LF Shade Cloth, Add</i>	28.38	
01 56 26 00-0099	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	513.89	
			<i>For Shade Cloth, Add</i>	70.95	
01 56 26 00-0100	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	575.06	
			<i>For Shade Cloth, Add</i>	85.14	
01 56 26 00-0101	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	658.02	
			<i>For Shade Cloth, Add</i>	106.43	
01 56 26 00-0102	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	804.19	
			<i>For Shade Cloth, Add</i>	141.90	
01 56 26 00-0103	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	931.88	
			<i>For Shade Cloth, Add</i>	170.29	
01 56 26 00-0104			10' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0105	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	355.40	
			<i>For Each LF Shade Cloth, Add</i>	37.45	
01 56 26 00-0106	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	616.92	
			<i>For Each LF Shade Cloth, Add</i>	93.62	
01 56 26 00-0107	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	691.72	
			<i>For Each LF Shade Cloth, Add</i>	112.34	
01 56 26 00-0108	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	790.36	
			<i>For Each LF Shade Cloth, Add</i>	140.43	
01 56 26 00-0109	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	966.16	
			<i>For Each LF Shade Cloth, Add</i>	187.24	
01 56 26 00-0110	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,114.53	
			<i>For Each LF Shade Cloth, Add</i>	224.68	
01 56 26 00-0111			Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0112			4' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0113	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	254.31	
			<i>For Each LF Shade Cloth, Add</i>	12.61	
01 56 26 00-0114	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	429.78	
			<i>For Each LF Shade Cloth, Add</i>	31.53	
01 56 26 00-0115	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	481.82	
			<i>For Each LF Shade Cloth, Add</i>	37.84	
01 56 26 00-0116	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	548.06	
			<i>For Each LF Shade Cloth, Add</i>	47.30	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	657.27	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	730.71	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	271.85	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	463.30	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	520.46	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	602.11	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	728.28	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	824.58	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	303.30	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	529.76	
For Shade Cloth, Add	70.95	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	593.19	
For Shade Cloth, Add	85.14	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	678.41	
For Shade Cloth, Add	106.43	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	829.12	
For Shade Cloth, Add	141.90	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	959.08	
For Shade Cloth, Add	170.29	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	368.15	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	636.75	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	714.39	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	815.86	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	997.33	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,148.53	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	6.32	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.32	
For >500, Deduct	-0.48	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	7.03	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.53	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	9.52	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.57	
For >500, Deduct	-0.86	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	6.60	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.52	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	7.32	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.58	
For Each LF Shade Cloth, Add	2.55	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.02 -0.31 -0.62 -0.93 3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.87 -0.19 -0.37 -0.56 1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.66 -0.21 -0.42 -0.63 2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.59 -0.34 -0.68 -1.02 3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.21 -0.20 -0.41 -0.61 1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	8.00 -0.23 -0.45 -0.68 2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	11.18 -0.37 -0.74 -1.11 3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag..... Note: Includes placement and removal.	6.22	
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001) Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts 01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts 01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts 01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	3.45 5.17 7.47 9.19	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing 01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing 01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	0.79 0.94 1.06	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts 01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts 01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts 01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	102.57 118.35 145.97 157.81	
01 56 26 00-0174 Temporary Safety Fence (01 56 26) Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.21	
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29) Note: Includes removal after use.		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0003	LF		Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	167.62	
			<i>For 3 Post System, Add</i>	6.00	
			<i>For Each Additional Foot Over 8' Wide, Add</i>	3.00	
			<i>For Each Additional Foot Over 8' High, Add</i>	2.00	
01 56 29 00-0004	LF		Installation of Netting for Sidewalk Bridge	4.27	
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)					
01 56 29 00-0006	LF		Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	12.08	
			<i>For 3 Post System, Add</i>	1.81	
01 56 29 00-0007	LF		Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	13.61	
			<i>For 3 Post System, Add</i>	2.04	
01 56 29 00-0008	LF		Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	15.12	
			<i>For 3 Post System, Add</i>	2.27	
01 56 29 00-0009	LF		Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	15.12	
			<i>For 3 Post System, Add</i>	2.27	
01 56 29 00-0010	LF		Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	16.61	
			<i>For 3 Post System, Add</i>	2.49	
01 56 29 00-0011	LF		Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	19.67	
			<i>For 3 Post System, Add</i>	2.95	
01 56 29 00-0012	LF		Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	18.16	
			<i>For 3 Post System, Add</i>	2.72	
01 56 29 00-0013	LF		Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	21.18	
			<i>For 3 Post System, Add</i>	3.18	
01 56 29 00-0014	LF		Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting and maintenance.	22.66	
			<i>For 3 Post System, Add</i>	3.40	
01 56 29 00-0015	LF		Monthly Rental of Netting for Sidewalk Bridge.....	2.27	
01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)					
01 56 29 00-0017	LF		Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	34.89	
			<i>For 3 Post System, Add</i>	2.50	
			<i>For Each Additional Foot Over 8' Wide, Add</i>	1.25	
			<i>For Each Additional Foot Over 8' High, Add</i>	0.75	
01 56 29 00-0018	LF		Removal Of Netting For Sidewalk Bridge	2.13	
01 56 29 00-0019 Safety Nets (01 56 29)					
			Note: Includes removal after use.		
01 56 29 00-0020	SF		Small Mesh Debris Netting Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	1.86	
01 56 33 Temporary Security Barriers (01 56)					
01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)					
			Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPN		Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	11.84	
01 56 33 00-0003	SF		5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening	8.07	
01 56 33 00-0004	SF		3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening	9.35	
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)					
			Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	11.27	
01 56 33 00-0007	WK		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	27.36	
01 56 33 00-0008	MO		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	82.07	
01 56 39 Temporary Tree and Plant Protection (01 56)					
01 56 39 00-0001 Temporary Tree Guards (01 56 39)					
			Note: Includes digging holes and removal after use.		

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 56	Temporary Barriers and Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 39 00-0002	EA		Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	169.01	
01 56 39 00-0003	EA		4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	199.65	
01 56 39 00-0004	EA		6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	216.83	

01 57 Temporary Controls (01 50)

01 57 13 Temporary Erosion and Sediment Control (01 57)
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.

01 57 23 Temporary Storm Water Pollution Control (01 57)
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.

01 57 23 00-0001 Temporary Drain Guard (01 57 23)
Note: Includes removal after use.

01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227)	90.20	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217)	88.54	
			Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219)	111.86	
			Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356)	110.19	
			Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358)	135.18	
			Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001			Project Sign <small>(01 58 13)</small>		
01 58 13 00-0002			MDO Plywood Signs <small>(01 58 13 00-0001)</small> Note: Excludes posts.		
01 58 13 00-0003			Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0004			Engineer Grade, Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0003)</small>		
01 58 13 00-0005	EA		Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	143.13	21.70
			For High-Intensity Grade, Add	34.91	
			For Diamond Grade, Add	67.32	
01 58 13 00-0006	EA		>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	244.82	22.69
			For High-Intensity Grade, Add	69.81	
			For Diamond Grade, Add	134.63	
01 58 13 00-0007	EA		>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	346.53	23.67
			For High-Intensity Grade, Add	104.71	
			For Diamond Grade, Add	201.95	
01 58 13 00-0008	EA		>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	448.22	24.66
			For High-Intensity Grade, Add	139.62	
			For Diamond Grade, Add	269.26	
01 58 13 00-0009	SF		>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	14.05	0.79
			For High-Intensity Grade, Add	4.36	
			For Diamond Grade, Add	8.42	
01 58 13 00-0010			Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0011			One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0012	EA		Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	178.70	21.70
01 58 13 00-0013	EA		>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	212.96	22.69
01 58 13 00-0014	EA		>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	266.45	23.67
01 58 13 00-0015	EA		>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	316.94	24.66
01 58 13 00-0016	SF		>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	9.94	0.79
01 58 13 00-0017			Full Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0018	EA		Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	182.51	21.70
01 58 13 00-0019	EA		>8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	233.50	22.69
01 58 13 00-0020	EA		>16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	287.31	23.67
01 58 13 00-0021	EA		>24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	334.83	24.66
01 58 13 00-0022	SF		>32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	10.50	0.79
01 58 13 00-0023			Fabricate And Install New Posts <small>(01 58 13 00-0001)</small> Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF		Galvanized Metal Channel Sign Posts	14.93	
01 58 13 00-0025	LF		4" x 4" Pressure Treated Wood Sign Posts	12.59	
01 58 13 00-0026	LF		4" x 6" Pressure Treated Wood Sign Posts	14.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 58 13 00-0027	Owner Supplied Signs <small>(01 58 13 00-0001)</small>		78.91
01 58 13 00-0028	EA Installation And Removal Of Owner Supplied Project Sign.....		

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

01 66 19 00-0001	Transfer Delivered Materials Between Floors <small>(01 66 19)</small>		
	Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002	CY Transfer Delivered Material Between Floors Via Stairs, Per Floor.....		15.18
	Note: Quantity equals volume of materials multiplied by number of floors traveled.		
01 66 19 00-0003	CY Transfer Delivered Material Between Floors Via Elevator, Per Trip.....		9.86
	Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0004	Transfer Delivered Materials Distances Greater Than 125' <small>(01 66 19)</small>		
	Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005	CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'		6.16
01 66 19 00-0006	Transfer Demolition Debris Between Floors <small>(01 66 19)</small>		
	Note: Only for use with demolition tasks.		
01 66 19 00-0007	CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor		15.18
	Note: Quantity equals material volume times bulk factor times number of floors traveled.		
01 66 19 00-0008	CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip		9.86
	Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009	Transfer Demolition Debris Distances Greater Than 125' <small>(01 66 19)</small>		
	Note: Only for use with demolition tasks.		
01 66 19 00-0010	CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'		6.16
01 66 19 00-0011	Moving Furniture And Furnishings <small>(01 66 19)</small>		
	Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012	SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings.....		0.98
	Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.		

01 70 Execution and Closeout Requirements (01)

01 71 Examination and Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001	Equipment Delivery, Pickup, Mobilization And Demobilization <small>(01 71 13)</small>		
	Note: Excludes flagman for traffic control where necessary.		
01 71 13 00-0002	EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck		280.40
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003	EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....		951.57
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		
01 71 13 00-0004	Crane Delivery, Pickup, Mobilization And Demobilization <small>(01 71 13)</small>		
	Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.		
01 71 13 00-0005	EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane		448.64
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	112.16	
	For >60 To 100 Miles Radius, Add	179.46	
01 71 13 00-0006	EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane		729.03
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	182.26	
	For >60 To 100 Miles Radius, Add	291.61	
01 71 13 00-0007	EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane		1,009.43
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	252.36	
	For >60 To 100 Miles Radius, Add	403.77	

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 71	Examination and Preparation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71	13 00-0008	EA	>70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	1,626.30 406.58 650.52	
01 71	13 00-0009	EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,041.28 510.32 816.51	
01 71	13 00-0010	EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,540.38 635.10 1,016.15	
01 71	13 00-0011	EA	>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,927.34 731.84 1,170.94	
01 71	13 00-0012	EA	>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,275.02 818.76 1,310.01	
01 71	13 00-0013	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	1,738.45 434.61 695.38	
01 71	13 00-0014	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	2,747.88 686.97 1,099.15	
01 71	13 00-0015	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,476.90 869.23 1,390.76	
01 71	13 00-0016	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	4,318.09 1,079.52 1,727.24	
01 71	13 00-0017	EA	200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	5,383.60 1,345.90 2,153.44	
01 71	13 00-0018	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	6,280.86 1,570.22 2,512.34	
01 71	13 00-0019	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	8,972.66 2,243.17 3,589.06	
01 71	13 00-0020	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	12,303.76 3,075.94 4,921.50	

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

01 71 23 16-0001		Conventional Topographic Survey (01 71 23 16) Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.	
01 71 23 16-0002	ACR	Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,077.59
01 71 23 16-0003	ACR	Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	3,026.44
01 71 23 16-0004	ACR	Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings)	4,345.38
01 71 23 16-0005	ACR	Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings)	6,539.90
01 71 23 16-0006	ACR	Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	8,189.87
01 71 23 16-0007		Property Lines Survey (01 71 23 16) Note: Not to be added to tasks in the "Conventional Topographic Survey" section.	
01 71 23 16-0008	LF	Survey Property Lines On Cleared Land	2.43
01 71 23 16-0009	LF	Survey Property Lines On Slightly Wooded Land	2.81
01 71 23 16-0010	LF	Survey Property Lines On Wooded Land.....	3.30
01 71 23 16-0011		Survey Monument (01 71 23 16)	
01 71 23 16-0012	EA	3' Precast Survey Monument	166.39
		<i>For Owner Furnished Monument, Deduct</i>	-68.67
01 71 23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	248.38
01 71 23 16-0014	EA	Riser Ring For Survey Monument.....	127.43
01 71 23 16-0015	EA	Adjust Survey Monument Cover To Grade	206.02
01 71 23 16-0016		Facade Surveying (01 71 23 16)	



General Requirements	01	10
Execution and Closeout Requirements	01 70	
Examination and Preparation	01 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors)	6.67	
01 71 23 16-0018 Utility Survey <small>(01 71 23 16)</small> Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities.....	5,596.93	
01 71 36 Non-Destructive Concrete Examination <small>(01 71)</small>		
01 71 36 00-0001 Electromagnetic Survey <small>(01 71 36)</small> Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey <small>(01 71 36 00-0001)</small>		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	906.24	
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,359.36	
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	2,718.72	
01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys <small>(01 71 36 00-0001)</small>		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	302.08	
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	604.16	
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,359.36	
		Note: Includes additions to the owner provided CAD drawing.
01 74 Cleaning and Waste Management <small>(01 70)</small>		
01 74 13 Progress Cleaning <small>(01 74)</small> Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001 General <small>(01 74 13)</small>		
01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	19.75	
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster	23.14	
		Note: Per CY of debris removed.
01 74 16 Site Maintenance <small>(01 74)</small>		
01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance <small>(01 74 16)</small> Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002 Parking Lot, Road, And Street Sweeping <small>(01 74 16 00-0001)</small>		
01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	19.67	
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	23.60	
01 74 16 00-0005 Runway Sweeping <small>(01 74 16 00-0001)</small>		
01 74 16 00-0006 MSF Sweep Runway, With Street Sweep	29.51	
01 74 19 Construction Waste Management and Disposal <small>(01 74)</small> Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001 Debris Chutes <small>(01 74 19)</small> Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002 Steel Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute.....	36.55	
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute.....	55.00	
01 74 19 00-0005 Plastic Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	14.45	
For Steel Liner, Add	2.79	
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	16.57	
For Steel Liner, Add	3.21	
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	18.67	
For Steel Liner, Add	3.61	
01 74 19 00-0009 Wood Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute.....	27.98	
		Note: Includes fabrication and installation.

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 74	Cleaning and Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 74 19 00-0011	Construction Dumpsters Rental <small>(01 74 19)</small>		
	Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012	EA 10 CY Dumpster (1.5 Ton) "Construction Debris".....	585.00	
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
	<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0013	EA 15 CY Dumpster (2 Ton) "Construction Debris".....	584.98	
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
	<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0014	EA 20 CY Dumpster (3 Ton) "Construction Debris".....	635.00	
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
	<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0015	EA 30 CY Dumpster (4 Ton) "Construction Debris".....	684.98	
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
	<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0016	EA 40 CY Dumpster (6 Ton) "Construction Debris".....	765.00	
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
	<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0017	EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....	765.00	
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018	EA 15 CY Low-Boy Dumpster Clean Recyclable.....	732.21	
	Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019	EA 15 CY Low-Boy Dumpster Mixed Recyclable.....	786.85	
	Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020	Concrete Washout Service <small>(01 74 19)</small>		
01 74 19 00-0021	MO Rampless Concrete Washout Bin.....	546.47	
	Note: Includes delivery.		
01 74 19 00-0022	MO Ramped Concrete Washout Bin.....	655.77	
	Note: Includes delivery.		
01 74 19 00-0023	EA Interim Vacuum Service, Concrete Washout Bin.....	498.66	
	Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024	EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin.....	1,080.43	
	Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0025	Debris Processing Fee <small>(01 74 19)</small>		
01 74 19 00-0026	Material Recycling Fees <small>(01 74 19 00-0025)</small>		
	Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027	CY Drop-Off Asphalt At Recycling Center.....	45.04	
01 74 19 00-0028	CY Drop-Off Non Reinforced Concrete At Recycling Center.....	60.34	
01 74 19 00-0029	CY Drop-Off Reinforced Concrete At Recycling Center.....	90.52	
01 74 19 00-0030	CY Drop-Off Brick Or Block At Recycling Center.....	78.45	
01 74 19 00-0031	CY Drop-Off Dirt At Recycling Center.....	87.50	
01 74 19 00-0032	CY Drop-Off Dimensional Lumber At Recycling Center.....	84.48	
01 74 19 00-0033	Landfill Dump Fees <small>(01 74 19 00-0025)</small>		
	Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.		
01 74 19 00-0034	CY Traditional Building Construction Materials Landfill Dump Fee.....	40.16	
01 74 19 00-0035	TON Traditional Building Construction Materials, Landfill Dump Fee.....	175.00	
01 74 19 00-0036	CY Trees, Stumps And Brush, Landfill Dump Fee.....	48.34	
01 74 19 00-0037	CY Hazardous Materials And Rubbish Landfill Dump Fee.....	115.26	
	Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.		
01 74 19 00-0038	CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....	81.90	
01 74 19 00-0039	Hauling <small>(01 74 19)</small>		
	Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0040	CYM Hauling On Paved Roads, First 15 Miles.....	0.90	
01 74 19 00-0041	CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.60	
01 74 19 00-0042	CYM Hauling On Unimproved Roads, First 15 Miles.....	1.38	



General Requirements	01	01
Execution and Closeout Requirements	01 70	
Cleaning and Waste Management	01 74	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0043 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.08	
01 74 23 Final Cleaning <small>(01 74)</small>		
01 74 23 00-0001 Cleaning Of Glass <small>(01 74 23)</small>		
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces.....	26.68	

END OF SECTION 01

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 74	Cleaning and Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Existing Conditions	02	02
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 Existing Conditions

02 20 Assessment (02)

02 25 Existing Material Assessment (02 20)

02 25 16 Existing Concrete, Masonry or Asphalt Assessment (02 25)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling (02 25 16)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 30 Subsurface Investigation (02)

02 32 Geotechnical Investigations (02 30)

02 32 13 Subsurface Drilling and Sampling (02 32)

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew (02 32 13)

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,083.29

02 32 13 00-0003 Auger Borings (02 32 13)

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 32.62

02 32 13 00-0005 Cased Borings In Earth, With Samples (02 32 13)

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 80.65

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 137.92

02 32 13 00-0008 Drilling In Rock, BW Core (2.125") (02 32 13)

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 85.72

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 7.95

02 32 13 00-0011 Drilling In Rock, NW Core (2.98") (02 32 13)

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 110.73

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 9.14

02 32 13 00-0014 Test Pits For Boring Activities (02 32 13)

Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.

02 32 13 00-0015 Backhoe Dug Test Pits (02 32 13 00-0014)

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 61.46

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 71.71

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 95.61

02 32 13 00-0019 Hand-Dug Test Pits (02 32 13 00-0014)

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 175.33

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 315.60

02 32 13 00-0022 Shelby Tube Sampling (02 32 13)

02 32 13 00-0023 EA Shelby Tube Sampling 43.55

02 32 13 00-0024 EA Penetration Test 35.49

02 32 13 00-0025 Grouting (02 32 13)

02 32 13 00-0026 VLF Boreholes 8.26

02 32 19 Exploratory Excavations (02 32)

02 32 19 00-0001 Hydro Excavation (02 32 19)

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 161.39

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 645.56

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) 35.86

Note: Normal soil conditions consist of silt, sand and gravel.

02	02 Existing Conditions
	02 30 Subsurface Investigation
	02 32 Geotechnical Investigations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....57.38
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition and Structure Moving⁽⁰²⁾

02 41 Demolition^(02 40)

02 41 13 Selective Site Demolition^(02 41)

02 41 13 13 Paving Removal^(02 41 13)

Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.

02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving.....	6.50
		For >500 To 1,000, Deduct	-0.65
		For >1,000 To 2,500, Deduct	-1.17
		For >2,500 To 5,000, Deduct	-1.69
		For >5,000 To 10,000, Deduct	-2.21
		For >10,000, Deduct	-2.73
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving.....	9.76
		For >500 To 1,000, Deduct	-0.98
		For >1,000 To 2,500, Deduct	-1.76
		For >2,500 To 5,000, Deduct	-2.54
		For >5,000 To 10,000, Deduct	-3.32
		For >10,000, Deduct	-4.10
02 41 13 13-0004	SY	>6" To 8" By Machine, Break-up And Leave In Place Bituminous Paving.....	13.00
		For >500 To 1,000, Deduct	-1.30
		For >1,000 To 2,500, Deduct	-2.34
		For >2,500 To 5,000, Deduct	-3.38
		For >5,000 To 10,000, Deduct	-4.42
		For >10,000, Deduct	-5.46
02 41 13 13-0005	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving.....	12.96
		For >500 To 1,000, Deduct	-1.30
		For >1,000 To 2,500, Deduct	-2.33
		For >2,500 To 5,000, Deduct	-3.37
		For >5,000 To 10,000, Deduct	-4.41
		For >10,000, Deduct	-5.44
02 41 13 13-0006	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving.....	18.29
		For >500 To 1,000, Deduct	-1.83
		For >1,000 To 2,500, Deduct	-3.29
		For >2,500 To 5,000, Deduct	-4.76
		For >5,000 To 10,000, Deduct	-6.22
		For >10,000, Deduct	-7.68
02 41 13 13-0007	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving.....	25.92
		For >500 To 1,000, Deduct	-2.59
		For >1,000 To 2,500, Deduct	-4.67
		For >2,500 To 5,000, Deduct	-6.74
		For >5,000 To 10,000, Deduct	-8.81
		For >10,000, Deduct	-10.89
02 41 13 13-0008	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	36.59
		For >500 To 1,000, Deduct	-3.66
		For >1,000 To 2,500, Deduct	-6.59
		For >2,500 To 5,000, Deduct	-9.51
		For >5,000 To 10,000, Deduct	-12.44
		For >10,000, Deduct	-15.37
02 41 13 13-0009	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	47.85
		For >500 To 1,000, Deduct	-4.79
		For >1,000 To 2,500, Deduct	-8.61
		For >2,500 To 5,000, Deduct	-12.44
		For >5,000 To 10,000, Deduct	-16.27
		For >10,000, Deduct	-20.10
02 41 13 13-0010	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	62.20
		For >500 To 1,000, Deduct	-6.22
		For >1,000 To 2,500, Deduct	-11.20
		For >2,500 To 5,000, Deduct	-16.17
		For >5,000 To 10,000, Deduct	-21.15
		For >10,000, Deduct	-26.12

02 41 13 13-0011 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 13 13-0032 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0012	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving.....	1.58
02 41 13 13-0013	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving.....	2.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0014 SF >6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving.....	2.66	
02 41 13 13-0015 SF Up To 3" By Hand, Break-up And Leave In Place Concrete Paving.....	1.98	
02 41 13 13-0016 SF >3" To 6" By Hand, Break-up And Leave In Place Concrete Paving.....	2.51	
02 41 13 13-0017 SF >6" To 8" By Hand, Break-up And Leave In Place Concrete Paving.....	3.32	
02 41 13 13-0018 By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
<small>¹³⁾ Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 13 13-0019 SY Up To 3" By Machine, Break-up And Remove Bituminous Paving.....	14.46	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.34	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	7.23	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,500, Deduct	-2.60	
For >2,500 To 5,000, Deduct	-3.76	
For >5,000 To 10,000, Deduct	-4.92	
For >10,000, Deduct	-6.07	
02 41 13 13-0020 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	19.75	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.93	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	9.88	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,500, Deduct	-3.56	
For >2,500 To 5,000, Deduct	-5.14	
For >5,000 To 10,000, Deduct	-6.72	
For >10,000, Deduct	-8.30	
02 41 13 13-0021 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.64	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.99	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	8.32	
For >500 To 1,000, Deduct	-1.66	
For >1,000 To 2,500, Deduct	-3.00	
For >2,500 To 5,000, Deduct	-4.33	
For >5,000 To 10,000, Deduct	-5.66	
For >10,000, Deduct	-6.99	
02 41 13 13-0022 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	21.77	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.53	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	10.89	
For >500 To 1,000, Deduct	-2.18	
For >1,000 To 2,500, Deduct	-3.92	
For >2,500 To 5,000, Deduct	-5.66	
For >5,000 To 10,000, Deduct	-7.40	
For >10,000, Deduct	-9.14	
02 41 13 13-0023 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	22.08	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.62	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	11.04	
For >500 To 1,000, Deduct	-2.21	
For >1,000 To 2,500, Deduct	-3.97	
For >2,500 To 5,000, Deduct	-5.74	
For >5,000 To 10,000, Deduct	-7.51	
For >10,000, Deduct	-9.27	
02 41 13 13-0024 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	28.61	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	8.58	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	14.31	
For >500 To 1,000, Deduct	-2.86	
For >1,000 To 2,500, Deduct	-5.15	
For >2,500 To 5,000, Deduct	-7.44	
For >5,000 To 10,000, Deduct	-9.73	
For >10,000, Deduct	-12.02	
02 41 13 13-0025 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	47.43	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	14.23	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	23.72	
For >500 To 1,000, Deduct	-4.74	
For >1,000 To 2,500, Deduct	-8.54	
For >2,500 To 5,000, Deduct	-12.33	
For >5,000 To 10,000, Deduct	-16.13	
For >10,000, Deduct	-19.92	
02 41 13 13-0026 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	23.95	
For Elevated Slab, Add	11.98	
For >500 To 1,000, Deduct	-2.40	
For >1,000 To 2,500, Deduct	-4.31	
For >2,500 To 5,000, Deduct	-6.23	
For >5,000 To 10,000, Deduct	-8.14	
For >10,000, Deduct	-10.06	

02	Existing Conditions
02 40	Demolition and Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0027 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	30.79	
For Elevated Slab, Add	15.40	
For >500 To 1,000, Deduct	-3.08	
For >1,000 To 2,500, Deduct	-5.54	
For >2,500 To 5,000, Deduct	-8.01	
For >5,000 To 10,000, Deduct	-10.47	
For >10,000, Deduct	-12.93	
02 41 13 13-0028 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	55.05	
For Elevated Slab, Add	27.53	
For >500 To 1,000, Deduct	-5.51	
For >1,000 To 2,500, Deduct	-9.91	
For >2,500 To 5,000, Deduct	-14.31	
For >5,000 To 10,000, Deduct	-18.72	
For >10,000, Deduct	-23.12	
02 41 13 13-0029 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	71.84	
For Elevated Slab, Add	35.92	
For >500 To 1,000, Deduct	-7.18	
For >1,000 To 2,500, Deduct	-12.93	
For >2,500 To 5,000, Deduct	-18.68	
For >5,000 To 10,000, Deduct	-24.43	
For >10,000, Deduct	-30.17	
02 41 13 13-0030 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	93.93	
For Elevated Slab, Add	46.97	
For >500 To 1,000, Deduct	-9.39	
For >1,000 To 2,500, Deduct	-16.91	
For >2,500 To 5,000, Deduct	-24.42	
For >5,000 To 10,000, Deduct	-31.94	
For >10,000, Deduct	-39.45	
02 41 13 13-0031 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	113.98	
For Elevated Slab, Add	56.99	
For >500 To 1,000, Deduct	-11.40	
For >1,000 To 2,500, Deduct	-20.52	
For >2,500 To 5,000, Deduct	-29.63	
For >5,000 To 10,000, Deduct	-38.75	
For >10,000, Deduct	-47.87	
02 41 13 13-0032 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.53	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	4.65	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	6.04	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.41	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.10	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	7.81	
02 41 13 13-0039 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.18	
02 41 13 13-0040 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	8.52	
02 41 13 13-0041 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	10.93	
02 41 13 13-0042 Grind Concrete (02 41 13 13)		
02 41 13 13-0043 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard).....	230.77	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	34.62	
For >1" To 1-1/2" Depth Of Grinding, Add	57.69	
For Up To 5, Add	46.15	
For >5 To 10, Add	23.08	
For >10 To 20, Add	23.08	
For >20 To 250, Deduct	-23.08	
For >250 To 250, Deduct	-34.62	
For >250, Deduct	-46.15	
For Sidewalks >5', Add	23.08	
For Up To 12" Additional Feathering Per Side, Add	23.08	
02 41 13 15 Hydro Demolition (02 41 13)		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement (02 41 13 15)		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	6.95	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	8.68	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	11.61	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	23.12	
02 41 16 Structure Demolition (02 41)		
02 41 16 13 Building Demolition (02 41 16)		



Existing Conditions	02
Demolition and Structure Moving	02 40
Demolition	02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0001 Building Interior Demolition <small>(02 41 16 13)</small>		
<p>Note: Guttled and placed in truck or dumpsters. Based on overall floor area including space under demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminants or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panel boards. Excludes hauling, dump fees, recycling charges, and/or salvage value.</p>		
02 41 16 13-0002 GSF Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	7.09	
02 41 16 13-0003 GSF Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	10.73	
02 41 16 13-0004 GSF >2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	8.78	
02 41 16 13-0005 GSF >10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	7.80	
02 41 16 13-0006 Commercial And Residential Structures Demolition <small>(02 41 16 13)</small>		
<p>Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site clean-up, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, adjacent property cleanup, adjacent property work, site paving (asphalt or concrete), recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.</p>		
02 41 16 13-0007 Steel Framed Building Demolition <small>(02 41 16 13-0006)</small>		
<p>Note: Includes masonry partitions and concrete decks.</p>		
02 41 16 13-0008 CCF By Pneumatic Tools/Hand, Steel Framed Building Demolition	67.12	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-5.03	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-10.07	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-15.10	
For Up To 500, Add	20.14	
For >500 To 1,000, Add	13.42	
For >1,000 To 2,000, Add	6.71	
For Volume Of Area Within 15' To An Adjacent Building, Add	22.15	
For No Interior Partitions, Deduct	-16.78	
02 41 16 13-0009 CCF By Machine, Steel Framed Building Demolition	42.06	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.15	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.31	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-9.46	
For Up To 500, Add	12.62	
For >500 To 1,000, Add	8.41	
For >1,000 To 2,000, Add	4.21	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.31	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	10.52	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	14.72	
For Volume Of Area Within 15' To An Adjacent Building, Add	13.88	
For No Interior Partitions, Deduct	-10.52	
02 41 16 13-0010 Reinforced Concrete Building Demolition <small>(02 41 16 13-0006)</small>		
02 41 16 13-0011 CCF By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition.....	84.22	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-6.32	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-12.63	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-18.95	
For Up To 500, Add	25.27	
For >500 To 1,000, Add	16.84	
For >1,000 To 2,000, Add	8.42	
For Volume Of Area Within 15' To An Adjacent Building, Add	27.79	
For No Interior Partitions, Deduct	-21.06	
02 41 16 13-0012 CCF By Machine, Reinforced Concrete Building Demolition.....	55.53	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.16	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.33	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-12.49	
For Up To 500, Add	16.66	
For >500 To 1,000, Add	11.11	
For >1,000 To 2,000, Add	5.55	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	8.33	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	13.88	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	19.44	
For Volume Of Area Within 15' To An Adjacent Building, Add	18.32	
For No Interior Partitions, Deduct	-13.88	
02 41 16 13-0013 Masonry Construction Building Demolition <small>(02 41 16 13-0006)</small>		
02 41 16 13-0014 CCF By Pneumatic Tools/Hand, Masonry Construction Building Demolition	59.18	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.44	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.88	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-13.32	
For Up To 500, Add	17.75	
For >500 To 1,000, Add	11.84	
For >1,000 To 2,000, Add	5.92	
For Volume Of Area Within 15' To An Adjacent Building, Add	19.53	
For No Interior Partitions, Deduct	-14.80	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0015 CCF By Machine, Masonry Construction Building Demolition.....	37.73	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.83	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-5.66	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-8.49	
For Up To 500, Add	11.32	
For >500 To 1,000, Add	7.55	
For >1,000 To 2,000, Add	3.77	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	5.66	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	9.43	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	13.21	
For Volume Of Area Within 15' To An Adjacent Building, Add	12.45	
For No Interior Partitions, Deduct	-9.43	
02 41 16 13-0016 Wood Frame Construction Building Demolition (02 41 16 13-0006)		
02 41 16 13-0017 CCF By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition	51.43	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.86	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-7.71	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-11.57	
For Up To 500, Add	15.43	
For >500 To 1,000, Add	10.29	
For >1,000 To 2,000, Add	5.14	
For Volume Of Area Within 15' To An Adjacent Building, Add	16.97	
For No Interior Partitions, Deduct	-12.86	
02 41 16 13-0018 CCF By Machine, Wood Frame Construction Building Demolition	32.30	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.42	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-4.85	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-7.27	
For Up To 500, Add	9.69	
For >500 To 1,000, Add	6.46	
For >1,000 To 2,000, Add	3.23	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	4.85	
For Volume Of Area Within 15' To An Adjacent Building, Add	10.66	
For No Interior Partitions, Deduct	-8.08	
02 41 16 13-0019 Sorting Of Material Debris For Recycling Prior To Hauling Off (02 41 16 13-0006)		
Note: Per building volume.		
02 41 16 13-0020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off	8.67	
For Up To 500, Add	2.60	
For >500 To 1,000, Add	1.73	
For >1,000 To 2,000, Add	0.87	
02 41 16 13-0021 Foundation Demolition (02 41 16 13)		
Note: Excludes earthwork. See CSI section 31 00 00 00-0000 for earthwork.		
02 41 16 13-0022 Concrete Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0023 CF Non Reinforced Concrete Foundation Demolition.....	13.38	
For >135 To 405, Deduct	-1.17	
For >405 To 810, Deduct	-2.34	
For >810 To 2025, Deduct	-3.35	
For >2025, Deduct	-5.35	
02 41 16 13-0024 CF Reinforced Concrete Foundation Demolition	16.06	
For >135 To 405, Deduct	-1.41	
For >405 To 810, Deduct	-2.81	
For >810 To 2025, Deduct	-4.02	
For >2025, Deduct	-6.42	
02 41 16 13-0025 Concrete Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0026 SF 4" Thick Non Reinforced Concrete Foundation Wall Demolition.....	5.74	
For >500 To 2,000, Deduct	-0.43	
For >2,000 To 6,000, Deduct	-1.15	
For >6,000 To 8,000, Deduct	-2.01	
For >8,000, Deduct	-3.16	
02 41 16 13-0027 SF 6" Thick Non Reinforced Concrete Foundation Wall Demolition.....	7.65	
For >500 To 2,000, Deduct	-0.57	
For >2,000 To 6,000, Deduct	-1.53	
For >6,000 To 8,000, Deduct	-2.68	
For >8,000, Deduct	-4.21	
02 41 16 13-0028 SF 8" Thick Non Reinforced Concrete Foundation Wall Demolition.....	9.56	
For >500 To 2,000, Deduct	-0.72	
For >2,000 To 6,000, Deduct	-1.91	
For >6,000 To 8,000, Deduct	-3.35	
For >8,000, Deduct	-5.26	
02 41 16 13-0029 SF 10" Thick Non Reinforced Concrete Foundation Wall Demolition.....	11.47	
For >500 To 2,000, Deduct	-0.86	
For >2,000 To 6,000, Deduct	-2.29	
For >6,000 To 8,000, Deduct	-4.01	
For >8,000, Deduct	-6.31	
02 41 16 13-0030 SF 12" Thick Non Reinforced Concrete Foundation Wall Demolition.....	13.38	
For >500 To 2,000, Deduct	-1.00	
For >2,000 To 6,000, Deduct	-2.68	
For >6,000 To 8,000, Deduct	-4.68	
For >8,000, Deduct	-7.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0031 SF 16" Thick Non Reinforced Concrete Foundation Wall Demolition.....	15.29	
<i>For >500 To 2,000, Deduct</i>	-1.15	
<i>For >2,000 To 6,000, Deduct</i>	-3.06	
<i>For >6,000 To 8,000, Deduct</i>	-5.35	
<i>For >8,000, Deduct</i>	-8.41	
02 41 16 13-0032 SF 4" Thick Reinforced Concrete Foundation Wall Demolition	6.88	
<i>For >500 To 2,000, Deduct</i>	-0.52	
<i>For >2,000 To 6,000, Deduct</i>	-1.38	
<i>For >6,000 To 8,000, Deduct</i>	-2.41	
<i>For >8,000, Deduct</i>	-3.78	
02 41 16 13-0033 SF 6" Thick Reinforced Concrete Foundation Wall Demolition	9.18	
<i>For >500 To 2,000, Deduct</i>	-0.69	
<i>For >2,000 To 6,000, Deduct</i>	-1.84	
<i>For >6,000 To 8,000, Deduct</i>	-3.21	
<i>For >8,000, Deduct</i>	-5.05	
02 41 16 13-0034 SF 8" Thick Reinforced Concrete Foundation Wall Demolition	11.47	
<i>For >500 To 2,000, Deduct</i>	-0.86	
<i>For >2,000 To 6,000, Deduct</i>	-2.29	
<i>For >6,000 To 8,000, Deduct</i>	-4.01	
<i>For >8,000, Deduct</i>	-6.31	
02 41 16 13-0035 SF 10" Thick Reinforced Concrete Foundation Wall Demolition	13.57	
<i>For >500 To 2,000, Deduct</i>	-1.02	
<i>For >2,000 To 6,000, Deduct</i>	-2.71	
<i>For >6,000 To 8,000, Deduct</i>	-4.75	
<i>For >8,000, Deduct</i>	-7.46	
02 41 16 13-0036 SF 12" Thick Reinforced Concrete Foundation Wall Demolition	16.06	
<i>For >500 To 2,000, Deduct</i>	-1.20	
<i>For >2,000 To 6,000, Deduct</i>	-3.21	
<i>For >6,000 To 8,000, Deduct</i>	-5.62	
<i>For >8,000, Deduct</i>	-8.83	
02 41 16 13-0037 SF 16" Thick Reinforced Concrete Foundation Wall Demolition	18.35	
<i>For >500 To 2,000, Deduct</i>	-1.38	
<i>For >2,000 To 6,000, Deduct</i>	-3.67	
<i>For >6,000 To 8,000, Deduct</i>	-6.42	
<i>For >8,000, Deduct</i>	-10.09	
02 41 16 13-0038 Concrete Block Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0039 SF 4" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.21	
<i>For >500 To 2,000, Deduct</i>	-0.32	
<i>For >2,000 To 6,000, Deduct</i>	-0.84	
<i>For >6,000 To 8,000, Deduct</i>	-1.47	
<i>For >8,000, Deduct</i>	-2.32	
02 41 16 13-0040 SF 6" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.50	
<i>For >500 To 2,000, Deduct</i>	-0.34	
<i>For >2,000 To 6,000, Deduct</i>	-0.90	
<i>For >6,000 To 8,000, Deduct</i>	-1.58	
<i>For >8,000, Deduct</i>	-2.48	
02 41 16 13-0041 SF 8" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.07	
<i>For >500 To 2,000, Deduct</i>	-0.38	
<i>For >2,000 To 6,000, Deduct</i>	-1.01	
<i>For >6,000 To 8,000, Deduct</i>	-1.77	
<i>For >8,000, Deduct</i>	-2.79	
02 41 16 13-0042 SF 10" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.84	
<i>For >500 To 2,000, Deduct</i>	-0.44	
<i>For >2,000 To 6,000, Deduct</i>	-1.17	
<i>For >6,000 To 8,000, Deduct</i>	-2.04	
<i>For >8,000, Deduct</i>	-3.21	
02 41 16 13-0043 SF 12" Thick Non Reinforced Concrete Block Foundation Wall Demolition	6.50	
<i>For >500 To 2,000, Deduct</i>	-0.49	
<i>For >2,000 To 6,000, Deduct</i>	-1.30	
<i>For >6,000 To 8,000, Deduct</i>	-2.28	
<i>For >8,000, Deduct</i>	-3.58	
02 41 16 13-0044 SF 16" Thick Non Reinforced Concrete Block Foundation Wall Demolition	8.13	
<i>For >500 To 2,000, Deduct</i>	-0.61	
<i>For >2,000 To 6,000, Deduct</i>	-1.63	
<i>For >6,000 To 8,000, Deduct</i>	-2.85	
<i>For >8,000, Deduct</i>	-4.47	
02 41 16 13-0045 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.05	
<i>For >500 To 2,000, Deduct</i>	-0.38	
<i>For >2,000 To 6,000, Deduct</i>	-1.01	
<i>For >6,000 To 8,000, Deduct</i>	-1.77	
<i>For >8,000, Deduct</i>	-2.78	
02 41 16 13-0046 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.40	
<i>For >500 To 2,000, Deduct</i>	-0.41	
<i>For >2,000 To 6,000, Deduct</i>	-1.08	
<i>For >6,000 To 8,000, Deduct</i>	-1.89	
<i>For >8,000, Deduct</i>	-2.97	
02 41 16 13-0047 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition.....	6.08	
<i>For >500 To 2,000, Deduct</i>	-0.46	
<i>For >2,000 To 6,000, Deduct</i>	-1.22	
<i>For >6,000 To 8,000, Deduct</i>	-2.13	
<i>For >8,000, Deduct</i>	-3.34	

02	Existing Conditions
02 40	Demolition and Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0048 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition.....	7.00	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.40	
For >6,000 To 8,000, Deduct	-2.45	
For >8,000, Deduct	-3.85	
02 41 16 13-0049 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition.....	7.80	
For >500 To 2,000, Deduct	-0.59	
For >2,000 To 6,000, Deduct	-1.56	
For >6,000 To 8,000, Deduct	-2.73	
For >8,000, Deduct	-4.29	
02 41 16 13-0050 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition.....	9.75	
For >500 To 2,000, Deduct	-0.73	
For >2,000 To 6,000, Deduct	-1.95	
For >6,000 To 8,000, Deduct	-3.41	
For >8,000, Deduct	-5.36	
02 41 16 13-0051 Brick Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0052 SF 4" Thick Brick Foundation Wall Demolition	4.21	
For >500 To 2,000, Deduct	-0.32	
For >2,000 To 6,000, Deduct	-0.84	
For >6,000 To 8,000, Deduct	-1.47	
For >8,000, Deduct	-2.32	
02 41 16 13-0053 SF 6" Thick Brick Foundation Wall Demolition	4.50	
For >500 To 2,000, Deduct	-0.34	
For >2,000 To 6,000, Deduct	-0.90	
For >6,000 To 8,000, Deduct	-1.58	
For >8,000, Deduct	-2.48	
02 41 16 13-0054 SF 8" Thick Brick Foundation Wall Demolition	5.07	
For >500 To 2,000, Deduct	-0.38	
For >2,000 To 6,000, Deduct	-1.01	
For >6,000 To 8,000, Deduct	-1.77	
For >8,000, Deduct	-2.79	
02 41 16 13-0055 SF 10" Thick Brick Foundation Wall Demolition	5.84	
For >500 To 2,000, Deduct	-0.44	
For >2,000 To 6,000, Deduct	-1.17	
For >6,000 To 8,000, Deduct	-2.04	
For >8,000, Deduct	-3.21	
02 41 16 13-0056 SF 12" Thick Brick Foundation Wall Demolition	6.50	
For >500 To 2,000, Deduct	-0.49	
For >2,000 To 6,000, Deduct	-1.30	
For >6,000 To 8,000, Deduct	-2.28	
For >8,000, Deduct	-3.58	
02 41 16 13-0057 SF 16" Thick Brick Foundation Wall Demolition	8.13	
For >500 To 2,000, Deduct	-0.61	
For >2,000 To 6,000, Deduct	-1.63	
For >6,000 To 8,000, Deduct	-2.85	
For >8,000, Deduct	-4.47	
02 41 16 13-0058 Stone Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0059 CF Stone Footing Or Foundation Wall Demolition.....	13.38	
For >135 To 405, Deduct	-1.17	
For >405 To 810, Deduct	-2.34	
For >810 To 2025, Deduct	-3.35	
For >2025, Deduct	-5.35	
02 41 16 13-0060 Other Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0061 CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition	13.97	
Note: Includes excavation.		
For >135 To 405, Deduct	-1.22	
For >405 To 810, Deduct	-2.44	
For >810 To 2025, Deduct	-3.49	
For >2025, Deduct	-5.59	
02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Saw Cutting (02 41 19 13)		
Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002 LF Bituminous Paving Up To 4" Depth, Saw Cut.....	2.01	
For Each Additional Pass (Depth To 3"), Add	0.78	
For >250, Deduct	-0.19	
02 41 19 13-0003 LF Brick Masonry Up To 4" Depth, Saw Cut.....	7.62	
For Each Additional Pass (Depth To 3"), Add	3.02	
For >250, Deduct	-0.75	
02 41 19 13-0004 LF Concrete Block Up To 4" Depth, Saw Cut.....	6.89	
For Each Additional Pass (Depth To 3"), Add	2.73	
For >250, Deduct	-0.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0005 LF Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.29	
<i>For Each Additional Pass (Depth To 3"), Add</i>	0.89	
<i>For >250, Deduct</i>	-0.22	
02 41 19 13-0006 LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.03	
<i>For Each Additional Pass (Depth To 3"), Add</i>	1.18	
<i>For >250, Deduct</i>	-0.29	
02 41 19 13-0007 LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.04	
<i>For Each Additional Pass (Depth To 3"), Add</i>	1.98	
<i>For >250, Deduct</i>	-0.49	
02 41 19 13-0008 LF Plain Concrete Walls Up To 4" Depth, Saw Cut	9.75	
<i>For Each Additional Pass (Depth To 3"), Add</i>	3.87	
<i>For >250, Deduct</i>	-0.97	
02 41 19 13-0009 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	13.10	
<i>For Each Additional Pass (Depth To 3"), Add</i>	5.20	
<i>For >250, Deduct</i>	-1.30	
02 41 19 13-0010 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....	2.63	
<i>For Each Additional Pass (Depth To 3"), Add</i>	0.95	
<i>For >250, Deduct</i>	-0.23	
02 41 19 13-0011 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut.....	6.91	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.73	
<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0012 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	6.91	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.73	
<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0013 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....	6.91	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.73	
<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0014 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	6.91	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.73	
<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0015 EA Saw Cut Minimum Charge.....	935.84	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0016 Torch Cutting <small>(02 41 19 13)</small>		
Note: Includes grinding edge		
02 41 19 13-0017 LF Up To 1/2", Torch Cut Steel Plate.....	2.87	
02 41 19 13-0018 LF >1/2" To 1" Thick, Torch Cut Steel Plate	5.74	
02 41 19 13-0019 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate	8.61	
02 41 19 13-0020 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate	11.48	
02 41 19 13-0021 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate	14.36	
02 41 19 13-0022 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate	17.23	
02 41 19 13-0023 EA Torch Cutting Minimum Charge.....	907.59	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0024 Drilling In Existing Materials <small>(02 41 19 13)</small>		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0025 Concrete Core Drilling <small>(02 41 19 13-0024)</small>		
02 41 19 13-0026 Up To 4" Thick Concrete Core Drilling <small>(02 41 19 13-0025)</small>		
02 41 19 13-0027 EA Drill 1" Diameter Core In Up To 4" Concrete.....	37.23	
<i>For Horizontal Cores, Add</i>	7.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.81	
02 41 19 13-0028 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	41.33	
<i>For Horizontal Cores, Add</i>	8.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.45	
02 41 19 13-0029 EA Drill 2" Diameter Core In Up To 4" Concrete.....	45.91	
<i>For Horizontal Cores, Add</i>	9.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.28	
02 41 19 13-0030 EA Drill 3" Diameter Core In Up To 4" Concrete.....	65.57	
<i>For Horizontal Cores, Add</i>	13.06	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.11	
02 41 19 13-0031 EA Drill 4" Diameter Core In Up To 4" Concrete.....	87.87	
<i>For Horizontal Cores, Add</i>	17.50	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.99	
02 41 19 13-0032 EA Drill 6" Diameter Core In Up To 4" Concrete.....	98.40	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0033 EA Drill 8" Diameter Core In Up To 4" Concrete.....	157.34	
<i>For Horizontal Cores, Add</i>	31.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.67	
02 41 19 13-0034 EA Drill 10" Diameter Core In Up To 4" Concrete.....	196.76	
<i>For Horizontal Cores, Add</i>	39.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.34	
02 41 19 13-0035 EA Drill 12" Diameter Core In Up To 4" Concrete.....	229.60	
<i>For Horizontal Cores, Add</i>	45.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	91.40	
02 41 19 13-0036 EA Drill 14" Diameter Core In Up To 4" Concrete.....	262.40	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0037	EA		Drill 18" Diameter Core In Up To 4" Concrete.....	295.41	
			<i>For Horizontal Cores, Add</i>	58.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0038			>4" To 6" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0039	EA		Drill 1" Diameter Core In >4" To 6" Concrete.....	53.19	
			<i>For Horizontal Cores, Add</i>	10.57	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.14	
02 41 19 13-0040	EA		Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	59.08	
			<i>For Horizontal Cores, Add</i>	11.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.50	
02 41 19 13-0041	EA		Drill 2" Diameter Core In >4" To 6" Concrete.....	65.60	
			<i>For Horizontal Cores, Add</i>	13.05	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.11	
02 41 19 13-0042	EA		Drill 3" Diameter Core In >4" To 6" Concrete.....	78.79	
			<i>For Horizontal Cores, Add</i>	15.67	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0043	EA		Drill 4" Diameter Core In >4" To 6" Concrete.....	98.51	
			<i>For Horizontal Cores, Add</i>	19.58	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0044	EA		Drill 6" Diameter Core In >4" To 6" Concrete.....	131.31	
			<i>For Horizontal Cores, Add</i>	26.11	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.23	
02 41 19 13-0045	EA		Drill 8" Diameter Core In >4" To 6" Concrete.....	196.86	
			<i>For Horizontal Cores, Add</i>	39.17	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.34	
02 41 19 13-0046	EA		Drill 10" Diameter Core In >4" To 6" Concrete.....	229.87	
			<i>For Horizontal Cores, Add</i>	45.70	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	91.40	
02 41 19 13-0047	EA		Drill 12" Diameter Core In >4" To 6" Concrete.....	262.73	
			<i>For Horizontal Cores, Add</i>	52.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0048	EA		Drill 14" Diameter Core In >4" To 6" Concrete.....	295.73	
			<i>For Horizontal Cores, Add</i>	58.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0049	EA		Drill 18" Diameter Core In >4" To 6" Concrete.....	328.96	
			<i>For Horizontal Cores, Add</i>	65.28	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.56	
02 41 19 13-0050			>6" To 8" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0051	EA		Drill 1" Diameter Core In >6" To 8" Concrete.....	58.61	
			<i>For Horizontal Cores, Add</i>	11.63	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.27	
02 41 19 13-0052	EA		Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	65.07	
			<i>For Horizontal Cores, Add</i>	12.93	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.85	
02 41 19 13-0053	EA		Drill 2" Diameter Core In >6" To 8" Concrete.....	72.25	
			<i>For Horizontal Cores, Add</i>	14.36	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.72	
02 41 19 13-0054	EA		Drill 3" Diameter Core In >6" To 8" Concrete.....	85.48	
			<i>For Horizontal Cores, Add</i>	16.97	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.95	
02 41 19 13-0055	EA		Drill 4" Diameter Core In >6" To 8" Concrete.....	111.77	
			<i>For Horizontal Cores, Add</i>	22.19	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.39	
02 41 19 13-0056	EA		Drill 6" Diameter Core In >6" To 8" Concrete.....	157.67	
			<i>For Horizontal Cores, Add</i>	31.34	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.67	
02 41 19 13-0057	EA		Drill 8" Diameter Core In >6" To 8" Concrete.....	262.46	
			<i>For Horizontal Cores, Add</i>	52.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0058	EA		Drill 10" Diameter Core In >6" To 8" Concrete.....	295.55	
			<i>For Horizontal Cores, Add</i>	58.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0059	EA		Drill 12" Diameter Core In >6" To 8" Concrete.....	328.56	
			<i>For Horizontal Cores, Add</i>	65.28	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.56	
02 41 19 13-0060	EA		Drill 14" Diameter Core In >6" To 8" Concrete.....	361.65	
			<i>For Horizontal Cores, Add</i>	71.80	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	143.60	
02 41 19 13-0061	EA		Drill 18" Diameter Core In >6" To 8" Concrete.....	395.16	
			<i>For Horizontal Cores, Add</i>	78.34	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.68	
02 41 19 13-0062			>8" To 10" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0063	EA		Drill 1" Diameter Core In >8" To 10" Concrete.....	69.30	
			<i>For Horizontal Cores, Add</i>	13.75	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.50	
02 41 19 13-0064	EA		Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	76.94	
			<i>For Horizontal Cores, Add</i>	15.28	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0065 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	85.42	
<i>For Horizontal Cores, Add</i>	16.97	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.94	
02 41 19 13-0066 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	98.69	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0067 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	111.97	
<i>For Horizontal Cores, Add</i>	22.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.39	
02 41 19 13-0068 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	157.92	
<i>For Horizontal Cores, Add</i>	31.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.67	
02 41 19 13-0069 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	262.80	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0070 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	296.00	
<i>For Horizontal Cores, Add</i>	58.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0071 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	329.04	
<i>For Horizontal Cores, Add</i>	65.27	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.54	
02 41 19 13-0072 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	362.33	
<i>For Horizontal Cores, Add</i>	71.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	143.60	
02 41 19 13-0073 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	395.96	
<i>For Horizontal Cores, Add</i>	78.32	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.64	
02 41 19 13-0074 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0075 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	74.71	
<i>For Horizontal Cores, Add</i>	14.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.61	
02 41 19 13-0076 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	82.94	
<i>For Horizontal Cores, Add</i>	16.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.90	
02 41 19 13-0077 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	92.08	
<i>For Horizontal Cores, Add</i>	18.28	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.56	
02 41 19 13-0078 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	98.85	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0079 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	131.78	
<i>For Horizontal Cores, Add</i>	26.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.23	
02 41 19 13-0080 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	171.24	
<i>For Horizontal Cores, Add</i>	33.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.90	
02 41 19 13-0081 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	276.22	
<i>For Horizontal Cores, Add</i>	54.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	109.68	
02 41 19 13-0082 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	296.45	
<i>For Horizontal Cores, Add</i>	58.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0083 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	342.73	
<i>For Horizontal Cores, Add</i>	67.90	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	135.80	
02 41 19 13-0084 >12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0085 IN Drill 1" Diameter Core In >12" Concrete.....	9.11	
<i>For Horizontal Cores, Add</i>	1.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.62	
02 41 19 13-0086 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	10.12	
<i>For Horizontal Cores, Add</i>	2.01	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.02	
02 41 19 13-0087 IN Drill 2" Diameter Core In >12" Concrete.....	11.23	
<i>For Horizontal Cores, Add</i>	2.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.47	
02 41 19 13-0088 IN Drill 3" Diameter Core In >12" Concrete.....	12.32	
<i>For Horizontal Cores, Add</i>	2.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.90	
02 41 19 13-0089 IN Drill 4" Diameter Core In >12" Concrete.....	16.42	
<i>For Horizontal Cores, Add</i>	3.26	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.53	
02 41 19 13-0090 IN Drill 6" Diameter Core In >12" Concrete.....	21.35	
<i>For Horizontal Cores, Add</i>	4.25	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.49	
02 41 19 13-0091 IN Drill 8" Diameter Core In >12" Concrete.....	34.47	
<i>For Horizontal Cores, Add</i>	6.86	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.72	
02 41 19 13-0092 IN Drill 10" Diameter Core In >12" Concrete.....	37.10	
<i>For Horizontal Cores, Add</i>	7.37	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.75	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0093 IN Drill 12" Diameter Core In >12" Concrete	42.73	
For Horizontal Cores, Add	8.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.98	
02 41 19 13-0094 Brick/Concrete Block Core Drilling (02 41 19 13-0024)		
02 41 19 13-0095 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0096 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	29.83	
For Horizontal Cores, Add	5.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.85	
02 41 19 13-0097 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	33.10	
For Horizontal Cores, Add	6.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.16	
02 41 19 13-0098 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	36.77	
For Horizontal Cores, Add	7.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.62	
02 41 19 13-0099 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	52.52	
For Horizontal Cores, Add	10.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.89	
02 41 19 13-0100 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	70.37	
For Horizontal Cores, Add	14.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.99	
02 41 19 13-0101 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	78.82	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0102 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	126.01	
For Horizontal Cores, Add	25.07	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	50.14	
02 41 19 13-0103 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	157.59	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0104 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	183.90	
For Horizontal Cores, Add	36.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.12	
02 41 19 13-0105 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	210.18	
For Horizontal Cores, Add	41.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.56	
02 41 19 13-0106 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	236.65	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0107 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0108 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	42.62	
For Horizontal Cores, Add	8.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.92	
02 41 19 13-0109 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	47.32	
For Horizontal Cores, Add	9.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.80	
02 41 19 13-0110 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	52.55	
For Horizontal Cores, Add	10.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.89	
02 41 19 13-0111 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	63.12	
For Horizontal Cores, Add	12.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.07	
02 41 19 13-0112 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	78.93	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0113 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	105.20	
For Horizontal Cores, Add	20.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.78	
02 41 19 13-0114 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	157.69	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0115 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	184.17	
For Horizontal Cores, Add	36.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.12	
02 41 19 13-0116 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	210.51	
For Horizontal Cores, Add	41.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.56	
02 41 19 13-0117 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	236.97	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0118 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	263.69	
For Horizontal Cores, Add	52.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.45	
02 41 19 13-0119 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0120 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	46.97	
For Horizontal Cores, Add	9.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0121 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	52.14	
<i>For Horizontal Cores, Add</i>	10.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.68	
02 41 19 13-0122 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	57.89	
<i>For Horizontal Cores, Add</i>	11.49	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.98	
02 41 19 13-0123 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	68.51	
<i>For Horizontal Cores, Add</i>	13.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.16	
02 41 19 13-0124 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	89.59	
<i>For Horizontal Cores, Add</i>	17.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.52	
02 41 19 13-0125 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	126.34	
<i>For Horizontal Cores, Add</i>	25.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.14	
02 41 19 13-0126 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	210.24	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0127 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block.....	236.79	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0128 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block.....	263.29	
<i>For Horizontal Cores, Add</i>	52.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.45	
02 41 19 13-0129 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block.....	289.85	
<i>For Horizontal Cores, Add</i>	57.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	114.88	
02 41 19 13-0130 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block.....	316.82	
<i>For Horizontal Cores, Add</i>	62.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.34	
02 41 19 13-0131 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0132 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block.....	55.55	
<i>For Horizontal Cores, Add</i>	11.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.00	
02 41 19 13-0133 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block.....	61.66	
<i>For Horizontal Cores, Add</i>	12.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.44	
02 41 19 13-0134 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block.....	68.46	
<i>For Horizontal Cores, Add</i>	13.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.16	
02 41 19 13-0135 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block.....	79.11	
<i>For Horizontal Cores, Add</i>	15.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0136 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block.....	89.79	
<i>For Horizontal Cores, Add</i>	17.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.52	
02 41 19 13-0137 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block.....	126.59	
<i>For Horizontal Cores, Add</i>	25.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.14	
02 41 19 13-0138 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block.....	210.58	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0139 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block.....	237.24	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0140 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block.....	263.78	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.43	
02 41 19 13-0141 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block.....	290.53	
<i>For Horizontal Cores, Add</i>	57.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	114.88	
02 41 19 13-0142 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block.....	317.64	
<i>For Horizontal Cores, Add</i>	62.66	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.32	
02 41 19 13-0143 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0144 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block.....	59.91	
<i>For Horizontal Cores, Add</i>	11.85	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.69	
02 41 19 13-0145 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block.....	66.48	
<i>For Horizontal Cores, Add</i>	13.16	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.32	
02 41 19 13-0146 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block.....	73.80	
<i>For Horizontal Cores, Add</i>	14.62	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.25	
02 41 19 13-0147 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block.....	79.27	
<i>For Horizontal Cores, Add</i>	15.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0148 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block.....	105.67	
<i>For Horizontal Cores, Add</i>	20.89	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.78	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0149 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	137.28	
For Horizontal Cores, Add	27.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.32	
02 41 19 13-0150 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	221.37	
For Horizontal Cores, Add	43.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.74	
02 41 19 13-0151 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	237.69	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0152 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	274.84	
For Horizontal Cores, Add	54.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.64	
02 41 19 13-0153 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0154 IN Drill 1" Diameter Core In >12" Brick/Concrete Block.....	7.30	
For Horizontal Cores, Add	1.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	2.90	
02 41 19 13-0155 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block.....	8.10	
For Horizontal Cores, Add	1.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.22	
02 41 19 13-0156 IN Drill 2" Diameter Core In >12" Brick/Concrete Block.....	9.00	
For Horizontal Cores, Add	1.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.58	
02 41 19 13-0157 IN Drill 3" Diameter Core In >12" Brick/Concrete Block.....	9.87	
For Horizontal Cores, Add	1.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.92	
02 41 19 13-0158 IN Drill 4" Diameter Core In >12" Brick/Concrete Block.....	13.15	
For Horizontal Cores, Add	2.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.22	
02 41 19 13-0159 IN Drill 6" Diameter Core In >12" Brick/Concrete Block.....	17.11	
For Horizontal Cores, Add	3.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.80	
02 41 19 13-0160 IN Drill 8" Diameter Core In >12" Brick/Concrete Block.....	27.62	
For Horizontal Cores, Add	5.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.98	
02 41 19 13-0161 IN Drill 10" Diameter Core In >12" Brick/Concrete Block.....	29.73	
For Horizontal Cores, Add	5.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.80	
02 41 19 13-0162 IN Drill 12" Diameter Core In >12" Brick/Concrete Block.....	34.24	
For Horizontal Cores, Add	6.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.59	
02 41 19 13-0163 Asphalt Core Drilling (02 41 19 13-0024)		
02 41 19 13-0164 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0165 EA Drill 1" Diameter Core In Up To 2" Asphalt.....	17.92	
02 41 19 13-0166 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt.....	22.40	
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt.....	28.00	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt.....	34.73	
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt.....	43.70	
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt.....	54.91	
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt.....	68.36	
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt.....	85.15	
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt.....	106.43	
02 41 19 13-0174 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0175 EA Drill 1" Diameter Core In >2" To 3" Asphalt.....	22.40	
02 41 19 13-0176 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt.....	29.11	
02 41 19 13-0177 EA Drill 2" Diameter Core In >2" To 3" Asphalt.....	35.84	
02 41 19 13-0178 EA Drill 3" Diameter Core In >2" To 3" Asphalt.....	44.80	
02 41 19 13-0179 EA Drill 4" Diameter Core In >2" To 3" Asphalt.....	56.00	
02 41 19 13-0180 EA Drill 6" Diameter Core In >2" To 3" Asphalt.....	70.57	
02 41 19 13-0181 EA Drill 8" Diameter Core In >2" To 3" Asphalt.....	87.38	
02 41 19 13-0182 EA Drill 10" Diameter Core In >2" To 3" Asphalt.....	109.77	
02 41 19 13-0183 EA Drill 12" Diameter Core In >2" To 3" Asphalt.....	136.65	
02 41 19 13-0184 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0185 EA Drill 1" Diameter Core In >3" To 4" Asphalt.....	29.12	
02 41 19 13-0186 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt.....	36.96	
02 41 19 13-0187 EA Drill 2" Diameter Core In >3" To 4" Asphalt.....	45.92	
02 41 19 13-0188 EA Drill 3" Diameter Core In >3" To 4" Asphalt.....	57.13	
02 41 19 13-0189 EA Drill 4" Diameter Core In >3" To 4" Asphalt.....	71.70	
02 41 19 13-0190 EA Drill 6" Diameter Core In >3" To 4" Asphalt.....	89.63	
02 41 19 13-0191 EA Drill 8" Diameter Core In >3" To 4" Asphalt.....	112.07	
02 41 19 13-0192 EA Drill 10" Diameter Core In >3" To 4" Asphalt.....	140.05	
02 41 19 13-0193 EA Drill 12 Diameter Core In >3" To 4" Asphalt.....	174.77	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0194				>4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0195	EA			Drill 1" Diameter Core In >4" To 6" Asphalt	38.09	
02 41 19 13-0196	EA			Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	47.06	
02 41 19 13-0197	EA			Drill 2" Diameter Core In >4" To 6" Asphalt	58.26	
02 41 19 13-0198	EA			Drill 3" Diameter Core In >4" To 6" Asphalt	73.96	
02 41 19 13-0199	EA			Drill 4" Diameter Core In >4" To 6" Asphalt	91.93	
02 41 19 13-0200	EA			Drill 6" Diameter Core In >4" To 6" Asphalt	114.35	
02 41 19 13-0201	EA			Drill 8" Diameter Core In >4" To 6" Asphalt	143.52	
02 41 19 13-0202	EA			Drill 10" Diameter Core In >4" To 6" Asphalt	179.36	
02 41 19 13-0203	EA			Drill 12" Diameter Core In >4" To 6" Asphalt	224.18	
02 41 19 13-0204				Manhole Core Drilling (02 41 19 13-0024)		
02 41 19 13-0205	EA			Drill 4" Diameter Core In 6" Brick Manhole	196.25	
02 41 19 13-0206	EA			Drill 5" Diameter Core In 6" Brick Manhole	224.28	
02 41 19 13-0207	EA			Drill 6" Diameter Core In 6" Brick Manhole	261.60	
02 41 19 13-0208	EA			Drill 8" Diameter Core In 6" Brick Manhole	392.37	
02 41 19 13-0209	EA			Drill 2" Diameter Core In 8" Concrete Manhole	263.02	
02 41 19 13-0210	EA			Drill 3" Diameter Core In 8" Concrete Manhole	279.96	
02 41 19 13-0211	EA			Drill 4" Diameter Core In 8" Concrete Manhole	308.08	
02 41 19 13-0212	EA			Drill 5" Diameter Core In 8" Concrete Manhole	330.52	
02 41 19 13-0213	EA			Drill 6" Diameter Core In 8" Concrete Manhole	392.07	
02 41 19 13-0214	EA			Drill 8" Diameter Core In 8" Concrete Manhole	560.05	
02 41 19 13-0215	EA			Drill 2" Diameter Core In Fiberglass Manhole	26.12	
02 41 19 13-0216	EA			Drill 3" Diameter Core In Fiberglass Manhole	30.15	
02 41 19 13-0217	EA			Drill 4" Diameter Core In Fiberglass Manhole	32.66	
02 41 19 13-0218	EA			Drill 5" Diameter Core In Fiberglass Manhole	35.63	
02 41 19 13-0219	EA			Drill 6" Diameter Core In Fiberglass Manhole	39.20	
02 41 19 13-0220	EA			Drill 8" Diameter Core In Fiberglass Manhole	43.56	
02 41 19 13-0221				Drilling In Concrete Per Inch Of Depth (02 41 19 13-0024)		
				Note: Includes layout.		
02 41 19 13-0222	IN			1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.02	
02 41 19 13-0223	IN			3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.13	
02 41 19 13-0224	IN			1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.28	
02 41 19 13-0225	IN			5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.43	
02 41 19 13-0226	IN			3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.67	
02 41 19 13-0227	IN			7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.90	
02 41 19 13-0228	IN			1" Diameter Drilling In Concrete Per Inch Of Depth	3.05	
02 41 19 13-0229	IN			1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.35	
02 41 19 13-0230	IN			1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.81	
02 41 19 13-0231				Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0024)		
				Note: Includes layout.		
02 41 19 13-0232	IN			1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.69	
02 41 19 13-0233	IN			3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.77	
02 41 19 13-0234	IN			1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.90	
02 41 19 13-0235	IN			5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.02	
02 41 19 13-0236	IN			3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.22	
02 41 19 13-0237	IN			7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.42	
02 41 19 13-0238	IN			1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.54	
02 41 19 13-0239	IN			1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.80	
02 41 19 13-0240	IN			1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.47	
02 41 19 13-0241				Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0024)		
				Note: Includes layout.		
02 41 19 13-0242	IN			1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.84	
02 41 19 13-0243	IN			3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.89	
02 41 19 13-0244	IN			1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.95	
02 41 19 13-0245	IN			5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.01	
02 41 19 13-0246	IN			3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.11	
02 41 19 13-0247	IN			7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.20	
02 41 19 13-0248	IN			1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.27	
02 41 19 13-0249	IN			1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.40	
02 41 19 13-0250	IN			1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.64	
02 41 19 13-0251				Limestone Core Drilling (02 41 19 13-0024)		
02 41 19 13-0252				10" To 14" Thick Limestone Core Drilling (02 41 19 13-0251)		
02 41 19 13-0253	EA			Drill 1" Diameter Core In 10" To 14" Limestone	56.15	
02 41 19 13-0254	EA			Drill 1-1/2" Diameter Core In 10" To 14" Limestone	67.41	
02 41 19 13-0255	EA			Drill 2" Diameter Core In 10" To 14" Limestone	73.07	
02 41 19 13-0256	EA			Drill 3" Diameter Core In 10" To 14" Limestone	84.42	
02 41 19 13-0257	EA			Drill 4" Diameter Core In 10" To 14" Limestone	95.76	
02 41 19 13-0258	EA			Drill 6" Diameter Core In 10" To 14" Limestone	135.07	
02 41 19 13-0259	EA			Drill 8" Diameter Core In 10" To 14" Limestone	224.83	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0260	15" To 18" Thick Limestone Core Drilling (02 41 19 13-0251)	
02 41 19 13-0261	EA Drill 1" Diameter Core In 15" To 18" Limestone	61.80
02 41 19 13-0262	EA Drill 1-1/2" Diameter Core In 15" To 18" Limestone	73.06
02 41 19 13-0263	EA Drill 2" Diameter Core In 15" To 18" Limestone	78.76
02 41 19 13-0264	EA Drill 3" Diameter Core In 15" To 18" Limestone	84.55
02 41 19 13-0265	EA Drill 4" Diameter Core In 15" To 18" Limestone	112.71
02 41 19 13-0266	EA Drill 6" Diameter Core In 15" To 18" Limestone	146.43
02 41 19 13-0267	EA Drill 8" Diameter Core In 15" To 18" Limestone	236.37
02 41 19 13-0268	19" To 24" Thick Limestone Core Drilling (02 41 19 13-0251)	
02 41 19 13-0269	EA Drill 1" Diameter Core In 19" To 24" Limestone	67.44
02 41 19 13-0270	EA Drill 1-1/2" Diameter Core In 19" To 24" Limestone	78.72
02 41 19 13-0271	EA Drill 2" Diameter Core In 19" To 24" Limestone	84.42
02 41 19 13-0272	EA Drill 3" Diameter Core In 19" To 24" Limestone	95.82
02 41 19 13-0273	EA Drill 4" Diameter Core In 19" To 24" Limestone	135.19
02 41 19 13-0274	EA Drill 6" Diameter Core In 19" To 24" Limestone	168.98
02 41 19 13-0275	EA Drill 8" Diameter Core In 19" To 24" Limestone	253.53
02 41 19 13-0276	Minimum Charge For Core Drilling (02 41 19 13-0024)	
02 41 19 13-0277	EA Core Drill Minimum Charge.....	754.18
	Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".	
02 41 19 13-0278	Cutouts (02 41 19 13)	
	Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.	
02 41 19 13-0279	Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0278)	
02 41 19 13-0280	SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	45.07
02 41 19 13-0281	SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	47.80
02 41 19 13-0282	SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	50.53
02 41 19 13-0283	SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	53.27
02 41 19 13-0284	SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	54.62
02 41 19 13-0285	Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0278)	
	Note: Includes cutting and removing steel decking.	
02 41 19 13-0286	SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	54.93
02 41 19 13-0287	SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	58.25
02 41 19 13-0288	SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	61.59
02 41 19 13-0289	SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	64.91
02 41 19 13-0290	SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	66.58
02 41 19 13-0291	Reinforced Concrete Wall Cutouts (02 41 19 13-0278)	
02 41 19 13-0292	SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF	56.34
02 41 19 13-0293	SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF	59.75
02 41 19 13-0294	SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF	63.16
02 41 19 13-0295	SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF	66.58
02 41 19 13-0296	SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF	68.29
02 41 19 13-0297	Brick Wall Cutouts (02 41 19 13-0278)	
	Note: Excludes toothing.	
02 41 19 13-0298	SF 4" Thick Brick Wall Cutouts, <24 SF	17.07
02 41 19 13-0299	SF 6" Thick Brick Wall Cutouts, <24 SF	28.17
02 41 19 13-0300	SF 8" Thick Brick Wall Cutouts, <24 SF	39.23
02 41 19 13-0301	SF 10" Thick Brick Wall Cutouts, <24 SF	47.80
02 41 19 13-0302	SF 12" Thick Brick Wall Cutouts, <24 SF	57.19
02 41 19 13-0303	SF 16" Thick Brick Wall Cutouts, <24 SF	67.43
02 41 19 13-0304	Concrete Block Wall Cutouts (02 41 19 13-0278)	
	Note: Excludes toothing.	
02 41 19 13-0305	SF 4" Thick Concrete Block Wall Cutouts, <24 SF	28.24
02 41 19 13-0306	SF 6" Thick Concrete Block Wall Cutouts, <24 SF	29.91
02 41 19 13-0307	SF 8" Thick Concrete Block Wall Cutouts, <24 SF	31.58
02 41 19 13-0308	SF 10" Thick Concrete Block Wall Cutouts, <24 SF	33.29
02 41 19 13-0309	SF 12" Thick Concrete Block Wall Cutouts, <24 SF	34.14
02 41 19 13-0310	SF 16" Thick Concrete Block Wall Cutouts, <24 SF	35.85
02 41 19 13-0311	Limestone Cutouts (02 41 19 13-0278)	
02 41 19 13-0312	SF 2" Thick Limestone Cutouts, <24 SF	47.80
02 41 19 13-0313	SF 4" Thick Limestone Cutouts, <24 SF	58.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0314 SF 6" Thick Limestone Cutouts, <24 SF	61.45	
02 41 19 13-0315 SF 8" Thick Limestone Cutouts, <24 SF	64.87	
02 41 19 13-0316 SF 10" Thick Limestone Cutouts, <24 SF	68.29	
02 41 19 13-0317 SF 12" Thick Limestone Cutouts, <24 SF	71.70	
02 41 19 13-0318 Toothing Masonry Cutouts <small>(02 41 19 13-0278)</small>		
<small>Note: For use where existing masonry must be removed in a tooothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.</small>		
02 41 19 13-0319 VLF Brick, Soft Old Mortar, Tooothing Masonry Cutouts.....	17.07	
02 41 19 13-0320 VLF Brick, Hard Mortar, Tooothing Masonry Cutouts.....	23.04	
02 41 19 13-0321 VLF Concrete Block, Soft Old Mortar, Tooothing Masonry Cutouts	10.24	
02 41 19 13-0322 VLF Concrete Block, Hard Mortar, Tooothing Masonry Cutouts	13.66	
02 41 19 13-0323 Minimum Charge For Cutouts <small>(02 41 19 13-0278)</small>		
<small>Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>		
02 41 19 13-0324 EA Cutouts Minimum Charge	341.42	
02 41 19 13-0325 Exterior Masonry Removal <small>(02 41 19 13)</small>		
02 41 19 13-0326 Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0325)</small>		
02 41 19 13-0327 VLF 8" x 8" Masonry Column Removal	13.29	
02 41 19 13-0328 VLF 10" x 10" Masonry Column Removal	20.76	
02 41 19 13-0329 VLF 12" x 12" Masonry Column Removal	26.58	
02 41 19 13-0330 VLF 14" x 14" Masonry Column Removal	33.28	
02 41 19 13-0331 VLF 16" x 16" Masonry Column Removal	40.89	
02 41 19 13-0332 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	22.96	
02 41 19 13-0333 Masonry Chimney Removal <small>(02 41 19 13-0325)</small>		
02 41 19 13-0334 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	26.93	
02 41 19 13-0335 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	20.22	
02 41 19 13-0336 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	15.48	
02 41 19 13-0337 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	10.71	
02 41 19 13-0338 Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0325)</small>		
<small>Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0339 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	18.82	
02 41 19 13-0340 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	28.16	
02 41 19 13-0341 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	53.86	
02 41 19 13-0342 Facade Removal <small>(02 41 19 13-0325)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0343 SF Stone Or Brick Veneer Facade Removal	5.05	
<i>For Cleaning and Storage For Reuse, Add</i>	7.58	
02 41 19 13-0344 Exterior Masonry Removal <small>(02 41 19 13-0325)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0345 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	4.45	
02 41 19 13-0346 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....	5.01	
02 41 19 13-0347 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....	6.06	
02 41 19 13-0348 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	6.64	
02 41 19 13-0349 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	7.28	
02 41 19 13-0350 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	9.11	
02 41 19 13-0351 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	5.26	
02 41 19 13-0352 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.02	
02 41 19 13-0353 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	7.28	
02 41 19 13-0354 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	7.96	
02 41 19 13-0355 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	8.74	
02 41 19 13-0356 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	10.93	
02 41 19 13-0357 SF Demolish 4" Thick Brick Exterior Wall	4.45	
<i>For Cleaning and Storage For Reuse, Add</i>	6.68	
02 41 19 13-0358 SF Demolish 6" Thick Brick Exterior Wall	5.01	
<i>For Cleaning and Storage For Reuse, Add</i>	7.52	
02 41 19 13-0359 SF Demolish 8" Thick Brick Exterior Wall	6.06	
<i>For Cleaning and Storage For Reuse, Add</i>	9.09	
02 41 19 13-0360 SF Demolish 10" Thick Brick Exterior Wall	6.64	
<i>For Cleaning and Storage For Reuse, Add</i>	9.96	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0361 SF Demolish 12" Thick Brick Exterior Wall.....	7.28	
<i>For Cleaning and Storage For Reuse, Add</i>	10.92	
02 41 19 13-0362 SF Demolish 16" Thick Brick Exterior Wall.....	9.11	
<i>For Cleaning and Storage For Reuse, Add</i>	13.67	
02 41 19 13-0363 CF Exterior Brick, Concrete Block Or Composite Removal	12.95	
<i>For Cleaning and Storage For Reuse, Add</i>	19.43	
02 41 19 13-0364 Lintel Removal <small>(02 41 19 13-0325)</small>		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0365 LF Demolish Steel Lintel	17.43	
02 41 19 13-0366 LF Demolish Concrete Or Stone Lintel.....	23.24	
02 41 19 13-0367 LF Demolish Steel Shelf Angle	18.40	
02 41 19 13-0368 Reinstall Lintel <small>(02 41 19 13-0325)</small>		
Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0369 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	10.68	
02 41 19 13-0370 LF Reinstall Existing Concrete Or Stone Lintel	23.24	
02 41 19 13-0371 LF Reinstall Existing Steel Shelf Angle	47.22	
Note: Includes fasteners.		
02 41 19 13-0372 LF Reinstall Existing Steel Lintel.....	19.37	
02 41 19 13-0373 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	80.71	
02 41 19 13-0374 LF Removal And Replacement Of Steel Lintel Over Window Openings	137.18	
02 41 19 13-0375 Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
02 41 19 13-0376 SF Demolish 4" Thick Reinforced Concrete Exterior Wall	5.96	
02 41 19 13-0377 SF Demolish 6" Thick Reinforced Concrete Exterior Wall	10.81	
02 41 19 13-0378 SF Demolish 8" Thick Reinforced Concrete Exterior Wall	13.57	
02 41 19 13-0379 SF Demolish 10" Thick Reinforced Concrete Exterior Wall	16.01	
02 41 19 13-0380 SF Demolish 12" Thick Reinforced Concrete Exterior Wall	18.93	
02 41 19 13-0381 Elevated Concrete Removal <small>(02 41 19 13)</small>		
02 41 19 13-0382 CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced	11.44	
02 41 19 16 Selective Interior Demolition <small>(02 41 19)</small>		
Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
02 41 19 16-0001 Floor Removal <small>(02 41 19 16)</small>		
02 41 19 16-0002 Scarify Concrete <small>(02 41 19 16-0001)</small>		
Note: Up to 1/4" removal per pass.		
02 41 19 16-0003 SF Scarify Concrete Floor	0.28	
02 41 19 16-0004 SF Scarify Concrete Tread And Riser	2.38	
02 41 19 16-0005 SF Scarify Concrete Wall	2.16	
02 41 19 16-0006 Fireproofing Removal <small>(02 41 19 16)</small>		
02 41 19 16-0007 SF Removal Of Fireproofing From Concrete Or Steel.....	1.12	
02 41 19 16-0008 Demolish Ceiling <small>(02 41 19 16)</small>		
02 41 19 16-0009 SF Demolish Drywall Ceiling	0.86	
02 41 19 16-0010 SF Demolish Furred Plastered Ceiling	2.02	
02 41 19 16-0011 SF Demolish Suspended Plastered Ceiling And Suspension System.....	1.55	
02 41 19 16-0012 Demolish Concrete Stair <small>(02 41 19 16)</small>		
02 41 19 16-0013 CF Demolish Interior Reinforced Concrete Stairs.....	7.28	
02 41 19 16-0014 CF Demolish Exterior Reinforced Concrete Stairs.....	6.22	
02 41 19 16-0015 Demolish Interior Partition/Wall <small>(02 41 19 16)</small>		
Note: Price includes knock down, loading, clean-up.		
02 41 19 16-0016 Demolish Masonry And Concrete Interior Partition/Walls <small>(02 41 19 16-0015)</small>		
Note: Includes saw cutting, knock down, loading and clean-up.		
02 41 19 16-0017 Demolish Concrete Block Interior Partition/Walls <small>(02 41 19 16-0016)</small>		
02 41 19 16-0018 SF Demolish 4" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	4.71	
02 41 19 16-0019 SF Demolish 6" Thick Non Reinforced Concrete Block Interior Partition/Wall	5.03	
02 41 19 16-0020 SF Demolish 8" Thick Non Reinforced Concrete Block Interior Partition/Wall	5.68	
02 41 19 16-0021 SF Demolish 12" Thick Non Reinforced Concrete Block Interior Partition/Wall	7.29	
02 41 19 16-0022 SF Demolish 16" Thick Non Reinforced Concrete Block Interior Partition/Wall	9.11	
02 41 19 16-0023 SF Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall	5.66	
02 41 19 16-0024 SF Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall	6.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 16-0025 SF Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall	6.81	
02 41 19 16-0026 SF Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall	8.75	
02 41 19 16-0027 SF Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall	10.93	
02 41 19 16-0028 Demolish Brick Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0029 SF Demolish 4" Thick Brick Interior Partition/Wall.....	4.71	
02 41 19 16-0030 SF Demolish 8" Thick Brick Interior Partition/Wall.....	5.68	
02 41 19 16-0031 SF Demolish 12" Thick Brick Interior Partition/Wall.....	7.28	
02 41 19 16-0032 SF Demolish 16" Thick Brick Interior Partition/Wall.....	9.11	
02 41 19 16-0033 Demolish Glass Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0034 SF Demolish Glass Block Interior Partition/Walls.....	4.04	
02 41 19 16-0035 Demolish Concrete Interior Partition/Walls (02 41 19 16-0016)		
See CSI section 02 41 16 13-0021 for concrete foundation demolition.		
02 41 19 16-0036 SF Demolish 6" Thick Non Reinforced Concrete Interior Partition/Wall.....	8.57	
02 41 19 16-0037 SF Demolish 8" Thick Non Reinforced Concrete Interior Partition/Wall.....	10.71	
02 41 19 16-0038 SF Demolish 12" Thick Non Reinforced Concrete Interior Partition/Wall.....	15.00	
02 41 19 16-0039 SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall.....	10.29	
02 41 19 16-0040 SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall.....	12.95	
02 41 19 16-0041 SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall.....	18.01	
02 41 19 16-0042 Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0043 SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster	1.62	
02 41 19 16-0044 Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0015)		
Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.		
02 41 19 16-0045 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side	2.86	
For Heights >14' To 20', Add	0.43	
For Heights >20', Add	0.57	
02 41 19 16-0046 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....	3.33	
For Heights >14' To 20', Add	0.50	
For Heights >20', Add	0.67	
02 41 19 16-0047 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....	3.65	
For Heights >14' To 20', Add	0.55	
For Heights >20', Add	0.73	
02 41 19 16-0048 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....	5.07	
For Heights >14' To 20', Add	0.76	
For Heights >20', Add	1.01	
02 41 19 16-0049 SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....	1.51	
For Heights >14' To 20', Add	0.23	
For Heights >20', Add	0.30	
02 41 19 16-0050 SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....	1.79	
For Heights >14' To 20', Add	0.27	
For Heights >20', Add	0.36	
02 42 Removal and Salvage of Construction Materials (02 40)		
02 42 21 Salvage of Construction Materials (02 42)		
Note: Includes placement on pallets and storage on site.		
02 42 21 35 Roofing Salvage (02 42 21)		
02 42 21 35-0001 Clay Tile Roof Remove And Salvage For Re-use (02 42 21 35)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 35-0002 SQ Removal Of Clay Roof Tile, Salvage For Re-use.....	262.78	
02 42 21 47 Flooring Salvage (02 42 21)		
02 42 21 47-0001 Remove And Salvage For Re-Use (02 42 21 47)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 47-0002 SF Removal Of Brick Flooring And Salvage.....	2.39	
02 42 21 47-0003 SF Removal Of Ceramic/Quarry Tile Floor And Salvage	2.39	
02 42 21 47-0004 SF Removal Of Terrazzo Flooring And Salvage.....	3.31	
02 42 21 47-0005 SF Removal Of Wood Strip Flooring And Salvage.....	1.93	
02 42 21 47-0006 SF Removal Of Wood Parquet Flooring And Salvage.....	1.02	
02 42 21 47-0007 SF Removal Of Resilient/Linoleum Flooring And Salvage	0.73	

02 43 Structure Moving (02 40)

02 43 13 Structure Relocation (02 43)

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

02 43 13 13 Building Relocation (02 43 13)

02	02 Existing Conditions
	02 40 Demolition and Structure Moving
	02 43 Structure Moving



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13)

¹³⁾ Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 13-0002	SF	Up To 800 SF, Move Relocatable Metal Frame Building	32.71
02 43 13 13-0003	SF	>800 To 920 SF, Move Relocatable Metal Frame Building	30.92
02 43 13 13-0004	SF	>920 SF, Move Relocatable Metal Frame Building	28.94
02 43 13 13-0005	SF	Up To 800 SF, Move Relocatable Wood Frame Building	26.25
02 43 13 13-0006	SF	>800 To 920 SF, Move Relocatable Wood Frame Building	24.53
02 43 13 13-0007	SF	>920 SF, Move Relocatable Wood Frame Building	21.70
02 43 13 13-0008	SF	Up To 800 SF, Move Relocatable Wood/Metal Frame Building	31.79
02 43 13 13-0009	SF	>800 To 920 SF, Move Relocatable Wood/Metal Frame Building	28.94
02 43 13 13-0010	SF	>920 SF, Move Relocatable Wood/Metal Frame Building	24.53

02 50 Site Remediation (02)

02 58 Snow Control (02 50)

02 58 13 Snow Fencing (02 58)

02 58 13 00-0001 Snow/Sand Fence On Steel Posts (02 58 13)

02 58 13 00-0002	LF	Steel Fence Post, 10' On Center With 4' Wood Snow/Sand Fence	6.65	1.90
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02 60 Contaminated Site Material Removal (02)

02 61 Removal and Disposal of Contaminated Soils (02 60)

02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils (02 61 26)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0002	EA	Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	887.49
		<i>For Work In Restricted Working Space, Add</i>	266.25
02 61 26 00-0003	CF	>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	58.83
		<i>For Work In Restricted Working Space, Add</i>	17.65
02 61 26 00-0004	CF	>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	39.22
		<i>For Work In Restricted Working Space, Add</i>	11.77
02 61 26 00-0005	CF	>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	29.45
		<i>For Work In Restricted Working Space, Add</i>	8.84
02 61 26 00-0006	CF	>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	23.53
		<i>For Work In Restricted Working Space, Add</i>	7.06
02 61 26 00-0007	CF	>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	20.00
		<i>For Work In Restricted Working Space, Add</i>	6.00
02 61 26 00-0008	CF	>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	18.00
		<i>For Work In Restricted Working Space, Add</i>	5.40

02 80 Facility Remediation (02)

02 81 Transportation and Disposal of Hazardous Materials (02 80)

02 81 00 00-0001 Equipment Oil Drain And Disposal (02 81)

02 81 00 00-0002	TRIP	Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site	528.64
		<small>Note: Excludes Disposal Cost.</small>	
02 81 00 00-0003	DRM	Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum	83.07
		<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>	
02 81 00 00-0004	DRM	Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum	377.60
		<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>	
02 81 00 00-0005	DRM	Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	679.68
		<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>	
02 81 00 00-0006	CF	Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	90.48
		<small>Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.</small>	



Existing Conditions	02	02
Facility Remediation	02 80	
Transportation and Disposal of Hazardous Materials	02 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 82 Asbestos Remediation (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for containment construction, 02 89 00 00-0010 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0002	HR	Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	70.80
02 82 13 00-0003	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	49.08
02 82 13 00-0004	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	57.54
02 82 13 00-0005	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	91.40
02 82 13 00-0006	EA	48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	157.40
02 82 13 00-0007	EA	Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	191.25
02 82 13 00-0008	EA	48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	38.93
02 82 13 00-0009	EA	Next Day Turnaround, (Air) PCM Test, Asbestos Testing	47.39
02 82 13 00-0010	EA	Same Day Turnaround, (Air) PCM Test, Asbestos Testing	64.32
02 82 13 00-0011	EA	48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	49.08
02 82 13 00-0012	EA	Next Day Turnaround, (Air Point Counting) PLM Test	57.54
02 82 13 00-0013	EA	Same Day Turnaround, (Air Point Counting) PLM Test	91.40
02 82 13 00-0014	EA	48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	157.40
02 82 13 00-0015	EA	Next Day Turnaround, (Air) TEM Test, Asbestos Testing	181.10
02 82 13 00-0016	EA	Same Day Turnaround, (Air) TEM Test, Asbestos Testing	252.18

02 82 16 Engineering Control of Asbestos Containing Materials (02 82)

02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)

02 82 16 00-0002	SF	Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.43
02 82 16 00-0003	SF	Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound)	1.93
02 82 16 00-0004	SF	Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.07
02 82 16 00-0005	SF	Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.27
02 82 16 00-0006	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®)	6.90
02 82 16 00-0007	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	7.79

02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects.

02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)

02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)

Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	930.18
		<i>For Work In Restricted Working Space, Add</i>	266.25
02 82 33 00-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	32.38
		<i>For Work In Restricted Working Space, Add</i>	9.08
02 82 33 00-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	24.82
		<i>For Work In Restricted Working Space, Add</i>	6.81
02 82 33 00-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	19.15
		<i>For Work In Restricted Working Space, Add</i>	5.11
02 82 33 00-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	14.89
		<i>For Work In Restricted Working Space, Add</i>	3.83
02 82 33 00-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	13.23
		<i>For Work In Restricted Working Space, Add</i>	3.33

02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0011	SET	Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	972.87
		<i>For Work In Restricted Working Space, Add</i>	266.25
02 82 33 00-0012	LF	>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	39.07
		<i>For Work In Restricted Working Space, Add</i>	10.44
02 82 33 00-0013	LF	>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	30.36
		<i>For Work In Restricted Working Space, Add</i>	7.83
02 82 33 00-0014	LF	>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	23.84
		<i>For Work In Restricted Working Space, Add</i>	5.87

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0015	LF		>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	18.94	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
02 82 33 00-0016	LF		>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	17.04	
			<i>For Work In Restricted Working Space, Add</i>	3.83	
02 82 33 00-0017			Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-002)		
			Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018	SET		Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal	579.17	
			<i>For Work In Restricted Working Space, Add</i>	169.91	
02 82 33 00-0019	LF		>3 To 20 LF Additional Glove Bag Work for Pipe Insulation	98.66	
			<i>For Work In Restricted Working Space, Add</i>	28.32	
02 82 33 00-0020	LF		>20 To 250 LF Additional Glove Bag Work for Pipe Insulation	40.92	
			<i>For Work In Restricted Working Space, Add</i>	11.00	
02 82 33 00-0021	LF		>250 To 500 LF Additional Glove Bag Work for Pipe Insulation	31.74	
			<i>For Work In Restricted Working Space, Add</i>	8.24	
02 82 33 00-0022	LF		>500 LF Additional Glove Bag Work for Pipe Insulation	24.88	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
02 82 33 00-0023			Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024			Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025	SET		Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	908.83	
02 82 33 00-0026	SF		>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	38.29	
02 82 33 00-0027	SF		>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	31.87	
02 82 33 00-0028	SF		>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	25.90	
02 82 33 00-0029	SF		>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	21.44	
02 82 33 00-0030			Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031	SET		Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	898.16	
02 82 33 00-0032	SF		>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	33.10	
02 82 33 00-0033	SF		>500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	26.68	
02 82 33 00-0034	SF		>2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	20.71	
02 82 33 00-0035	SF		>10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	16.25	
02 82 33 00-0036			Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0037	SET		Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	894.61	
02 82 33 00-0038	SF		>10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	29.19	
02 82 33 00-0039	SF		>500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	22.76	
02 82 33 00-0040	SF		>2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	16.79	
02 82 33 00-0041	SF		>10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	12.33	
02 82 33 00-0042			Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023)		
			Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043	SET		Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	914.17	
02 82 33 00-0044	SF		>25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	31.32	
02 82 33 00-0045	SF		>500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	24.89	
02 82 33 00-0046	SF		>2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	18.94	
02 82 33 00-0047	SF		>10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	14.47	
02 82 33 00-0048			Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049			Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050	EA		Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal	148.99	
			Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0051			Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052	SET		Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	914.17	
02 82 33 00-0053	SF		>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	37.37	
02 82 33 00-0054	SF		>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	28.28	
02 82 33 00-0055	SF		>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	21.48	
02 82 33 00-0056	SF		>10,000 SF, Fireproofing, Asbestos Abatement And Disposal	16.38	
02 82 33 00-0057			Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058	SET		Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	905.28	
02 82 33 00-0059	SF		>25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	15.87	
02 82 33 00-0060	SF		>500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	12.17	



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Facility Remediation	02 80	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.22	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.00	
02 82 33 00-0063 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0064 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	923.07	
For Additional Layer, Add	244.06	
02 82 33 00-0065 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	12.35	
For Additional Layer, Add	3.20	
02 82 33 00-0066 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.22	
For Additional Layer, Add	2.34	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.37	
For Additional Layer, Add	1.83	
02 82 33 00-0068 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	5.89	
For Additional Layer, Add	1.42	
02 82 33 00-0069 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.78	
For Additional Layer, Add	1.12	
02 82 33 00-0070 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	3.97	
For Additional Layer, Add	0.90	
02 82 33 00-0071 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0072 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	905.28	
02 82 33 00-0073 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	22.83	
02 82 33 00-0074 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	16.90	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.36	
02 82 33 00-0076 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.55	
02 82 33 00-0077 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	7.74	
02 82 33 00-0078 Stucco, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0079 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	923.07	
02 82 33 00-0080 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	26.43	
02 82 33 00-0081 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	20.00	
02 82 33 00-0082 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	15.18	
02 82 33 00-0083 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	11.56	
02 82 33 00-0084 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0085 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	923.07	
02 82 33 00-0086 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	10.57	
02 82 33 00-0087 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	8.81	
02 82 33 00-0088 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	6.26	
02 82 33 00-0089 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	4.86	
02 82 33 00-0090 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0091 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	915.96	
02 82 33 00-0092 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	13.28	
02 82 33 00-0093 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	6.76	
02 82 33 00-0094 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	4.80	
02 82 33 00-0095 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.19	
02 82 33 00-0096 Flooring Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0097 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0098 Floor Tile, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0099 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	894.61	
For Each Additional Layer, Add	223.65	
02 82 33 00-0100 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	6.76	
For Each Additional Layer, Add	1.69	
02 82 33 00-0101 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	5.63	
For Each Additional Layer, Add	1.41	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	4.59	
For Each Additional Layer, Add	1.15	
02 82 33 00-0103 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	3.33	
For Each Additional Layer, Add	0.83	
02 82 33 00-0104 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Single layer or first of multiple layers. Excludes mastic.		

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0105 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	894.61	
For Each Additional Layer, Add	223.65	
02 82 33 00-0106 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.76	
For Each Additional Layer, Add	1.69	
02 82 33 00-0107 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.65	
For Each Additional Layer, Add	1.41	
02 82 33 00-0108 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.17	
For Each Additional Layer, Add	1.29	
02 82 33 00-0109 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	4.27	
For Each Additional Layer, Add	1.07	
02 82 33 00-0110 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0097)		
02 82 33 00-0111 SET Up To 100 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	894.61	
02 82 33 00-0112 SF >100 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	5.35	
02 82 33 00-0113 SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0114 SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0115 SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.69	
02 82 33 00-0116 Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Up to 12".		
02 82 33 00-0117 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	304.72	
02 82 33 00-0118 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	4.31	
02 82 33 00-0119 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.72	
02 82 33 00-0120 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.84	
02 82 33 00-0121 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.40	
02 82 33 00-0122 Mastic, Asbestos Abatement And Disposal (02 82 33 00-0096)		
Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0123 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal.....	905.29	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0124 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	2.39	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0125 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	1.80	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0126 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.43	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0127 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.18	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0128 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0096)		
Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0129 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	958.65	
02 82 33 00-0130 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.70	
02 82 33 00-0131 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.82	
02 82 33 00-0132 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.70	
02 82 33 00-0133 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.82	
02 82 33 00-0134 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0135 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	923.05	
02 82 33 00-0136 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	8.28	
02 82 33 00-0137 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.54	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0138 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0139 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	3.68	
02 82 33 00-0140 Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0141 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)		
Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0142 Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0143 SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	976.44	
02 82 33 00-0144 SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.38	
02 82 33 00-0145 SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.25	



Existing Conditions	02	02
Facility Remediation	02 80	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0146 SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.34	
02 82 33 00-0147 SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.43	
02 82 33 00-0148 SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.75	
02 82 33 00-0149 >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0150 SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,044.02	
02 82 33 00-0151 SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.88	
02 82 33 00-0152 SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.57	
02 82 33 00-0153 SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.56	
02 82 33 00-0154 SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.53	
02 82 33 00-0155 SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.74	
02 82 33 00-0156 >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0157 SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,122.28	
02 82 33 00-0158 SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.30	
02 82 33 00-0159 SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.85	
02 82 33 00-0160 SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.73	
02 82 33 00-0161 SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.58	
02 82 33 00-0162 SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.71	
02 82 33 00-0163 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0164 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0163)		
02 82 33 00-0165 SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	909.72	
Note: Single or first of multiple layers.		
02 82 33 00-0166 SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	5.85	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.46	
02 82 33 00-0167 SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.72	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.18	
02 82 33 00-0168 SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.81	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.95	
02 82 33 00-0169 SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.90	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.73	
02 82 33 00-0170 SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.22	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.56	
02 82 33 00-0171 Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0172 SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	297.61	
02 82 33 00-0173 SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.40	
02 82 33 00-0174 SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.00	
02 82 33 00-0175 SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.64	
02 82 33 00-0176 SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.24	
02 82 33 00-0177 Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0178 SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	297.61	
02 82 33 00-0179 LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	6.84	
02 82 33 00-0180 LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.50	
02 82 33 00-0181 LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.62	
02 82 33 00-0182 LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0183 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0184 Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183)		
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0185 SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	923.05	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0186 SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	6.41	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0187 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.39	
Note: Includes detachment of mounted objects before removal.		

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0188 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal .....2.78 Note: Includes detachment of mounted objects before removal.	2.78	
02 82 33 00-0189 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal .....2.46 Note: Includes detachment of mounted objects before removal.	2.46	
02 82 33 00-0190 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0191 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....923.05	923.05	
02 82 33 00-0192 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....5.61	5.61	
02 82 33 00-0193 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....3.05	3.05	
02 82 33 00-0194 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....2.51	2.51	
02 82 33 00-0195 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....2.23	2.23	
02 82 33 00-0196 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0197 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....782.27	782.27	
02 82 33 00-0198 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....34.52	34.52	
02 82 33 00-0199 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....26.96	26.96	
02 82 33 00-0200 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....21.29	21.29	
02 82 33 00-0201 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....17.03	17.03	
02 82 33 00-0202 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....13.85	13.85	
02 82 33 00-0203 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....13.62	13.62	
02 82 33 00-0204 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0205 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....947.79 Note: Single or first of multiple layers.	947.79	
02 82 33 00-0206 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....5.09 Note: Single or first of multiple layers.	5.09	
02 82 33 00-0207 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....4.14 Note: Single or first of multiple layers.	4.14	
02 82 33 00-0208 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....3.39 Note: Single or first of multiple layers.	3.39	
02 82 33 00-0209 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....2.63 Note: Single or first of multiple layers.	2.63	
02 82 33 00-0210 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....2.07 Note: Single or first of multiple layers.	2.07	
02 82 33 00-0211 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0212 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0211)		
02 82 33 00-0213 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....634.35 <i>For Work In Restricted Working Space, Add</i> 177.50	634.35	
02 82 33 00-0214 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....63.10 <i>For Work In Restricted Working Space, Add</i> 17.65	63.10	
02 82 33 00-0215 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....43.49 <i>For Work In Restricted Working Space, Add</i> 11.77	43.49	
02 82 33 00-0216 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....33.72 <i>For Work In Restricted Working Space, Add</i> 8.84	33.72	
02 82 33 00-0217 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....27.80 <i>For Work In Restricted Working Space, Add</i> 7.06	27.80	
02 82 33 00-0218 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....24.27 <i>For Work In Restricted Working Space, Add</i> 6.00	24.27	
02 82 33 00-0219 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....22.27 <i>For Work In Restricted Working Space, Add</i> 5.40	22.27	
02 82 33 00-0220 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0211)		
02 82 33 00-0221 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....673.62	673.62	
02 82 33 00-0222 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....73.44	73.44	
02 82 33 00-0223 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....55.79	55.79	
02 82 33 00-0224 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....47.00	47.00	
02 82 33 00-0225 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....41.67	41.67	
02 82 33 00-0226 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....38.49	38.49	
02 82 33 00-0227 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....36.68	36.68	
02 82 33 00-0228 Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0229 30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0228)		
02 82 33 00-0230 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....315.04	315.04	
02 82 33 00-0231 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....125.71	125.71	
02 82 33 00-0232 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....115.06	115.06	
02 82 33 00-0233 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal (02 82 33 00-0228)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0234 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	296.72	
02 82 33 00-0235 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	6.14	
02 82 33 00-0236 LF >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	4.63	
02 82 33 00-0237 LF >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	3.99	
02 82 33 00-0238 LF >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	3.45	
02 82 33 00-0239 LF >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	2.97	
02 82 33 00-0240 LF >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....	2.57	
02 82 33 00-0241 Grout, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: e.g. flue grout.		
02 82 33 00-0242 SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	296.42	
02 82 33 00-0243 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	11.70	
02 82 33 00-0244 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	8.07	
02 82 33 00-0245 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	6.93	
02 82 33 00-0246 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	5.96	
02 82 33 00-0247 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	5.14	
02 82 33 00-0248 LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	4.41	
02 82 33 00-0249 Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: e.g. rope, web cloth, flat.		
02 82 33 00-0250 SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	296.72	
02 82 33 00-0251 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal.....	15.78	
02 82 33 00-0252 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal.....	11.85	
02 82 33 00-0253 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal.....	10.12	
02 82 33 00-0254 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal.....	9.11	
02 82 33 00-0255 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	8.19	
02 82 33 00-0256 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	7.80	
02 82 33 00-0257 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: e.g. grid, spline, or glued on.		
02 82 33 00-0258 SET Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	609.44	
02 82 33 00-0259 SF >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	12.93	
02 82 33 00-0260 SF >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	6.41	
02 82 33 00-0261 SF >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	4.45	
02 82 33 00-0262 SF >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	3.84	
02 82 33 00-0263 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0228) Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
02 82 33 00-0264 SET Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	601.26	
02 82 33 00-0265 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	12.93	
02 82 33 00-0266 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	6.41	
02 82 33 00-0267 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.45	
02 82 33 00-0268 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.84	
02 82 33 00-0269 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0228)		
02 82 33 00-0270 Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0269)		
02 82 33 00-0271 SET Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	296.42	
02 82 33 00-0272 LF >10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	8.78	
02 82 33 00-0273 LF >50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	6.22	
02 82 33 00-0274 LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	4.64	
02 82 33 00-0275 LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	3.50	
02 82 33 00-0276 LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	2.78	
02 82 33 00-0277 LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal.....	2.42	
02 82 33 00-0278 Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0228)		
02 82 33 00-0279 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal.....	296.42	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 82 33 00-0280	LF	>10 To 50 LF, Window Putty, Asbestos Abatement And Disposal.....	11.70
02 82 33 00-0281	LF	>50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	8.07
02 82 33 00-0282	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	6.93
02 82 33 00-0283	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.96
02 82 33 00-0284	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.14

02 83 Lead Remediation (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.

02 83 19 Lead-Based Paint Remediation (02 83)**02 83 19 13 Lead-Based Paint Abatement (02 83 19)**

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site.

02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.

02 83 19 13-0002	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring.....	80.68
02 83 19 13-0003	EA	X-Ray Fluorescence (XRF) Lead Testing.....	58.34
		Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0004	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee.....	55.85
02 83 19 13-0005	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee.....	84.62
02 83 19 13-0006	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee.....	118.48
02 83 19 13-0007	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee.....	22.00
02 83 19 13-0008	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee.....	33.85
02 83 19 13-0009	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee.....	42.31
02 83 19 13-0010	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee.....	55.85
02 83 19 13-0011	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee.....	84.62
02 83 19 13-0012	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee.....	9.31
02 83 19 13-0013	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee.....	12.69
02 83 19 13-0014	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee.....	18.62
02 83 19 13-0015	EA	5 Day Turnaround Lead Air Samples And Lab Fee.....	9.31
02 83 19 13-0016	EA	24 Hour Turnaround Lead Air Samples And Lab Fee.....	12.69
02 83 19 13-0017	EA	8 Hour Turnaround Lead Air Samples And Lab Fee.....	18.62
02 83 19 13-0018	EA	5 Day Turnaround Lead Water Test and Lab Fee.....	33.85
02 83 19 13-0019	EA	24 Hour Turnaround Lead Water Test and Lab Fee.....	50.78
02 83 19 13-0020	EA	8 Hour Turnaround Lead Water Test and Lab Fee.....	67.70
02 83 19 13-0021	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee.....	35.01
02 83 19 13-0022	EA	5 Day Turnaround Lead Soil Test and Lab Fee.....	70.01

02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)

02 83 19 13-0024	EA	Lead-Based Paint Remediation Minimum Show Up Charge.....	1,051.97
		Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	

02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material.....	30.82
		For 0.025" (25 mil) Application, Add	1.73
		For 0.03" (30 mil) Application, Add	2.71
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material.....	45.76
		For 0.025" (25 mil) Application, Add	2.48
		For 0.03" (30 mil) Application, Add	3.83
02 83 19 13-0028	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material.....	13.22
		For 0.025" (25 mil) Application, Add	0.77
		For 0.03" (30 mil) Application, Add	1.23
		For 0.125" (125 mil) Application, Add	6.67
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material.....	27.06
		For 0.025" (25 mil) Application, Add	1.47
		For 0.03" (30 mil) Application, Add	2.27
		For 0.125" (125 mil) Application, Add	10.13
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material.....	14.34
		For 0.025" (25 mil) Application, Add	0.91
		For 0.03" (30 mil) Application, Add	1.48
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material.....	40.79
		For 0.025" (25 mil) Application, Add	2.23
		For 0.03" (30 mil) Application, Add	3.46



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0032	SF			Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material 8.82 For 0.025" (25 mil) Application, Add 0.59 For 0.03" (30 mil) Application, Add 0.98 For 0.125" (125 mil) Application, Add 6.71		
02 83 19 13-0033	SF			Cabinets, Chemical Stripping Of Lead Contaminated Material 25.77 For 0.025" (25 mil) Application, Add 1.44 For 0.03" (30 mil) Application, Add 2.25		
02 83 19 13-0034	SF			Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material 32.86 For 0.025" (25 mil) Application, Add 1.79 For 0.03" (30 mil) Application, Add 2.78		
02 83 19 13-0035	SF			Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material 12.19 For 0.025" (25 mil) Application, Add 0.76 For 0.03" (30 mil) Application, Add 1.23		
02 83 19 13-0036	SF			Columns, Chemical Stripping Of Lead Contaminated Material 11.70 For 0.025" (25 mil) Application, Add 0.77 For 0.03" (30 mil) Application, Add 1.28 For 0.125" (125 mil) Application, Add 8.57		
02 83 19 13-0037	SF			Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material 10.31 For 0.025" (25 mil) Application, Add 0.67 For 0.03" (30 mil) Application, Add 1.09		
02 83 19 13-0038	SF			Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material 10.76 For 0.025" (25 mil) Application, Add 0.69 For 0.03" (30 mil) Application, Add 1.13		
02 83 19 13-0039	SF			Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated 18.72 For 0.025" (25 mil) Application, Add 1.12 For 0.03" (30 mil) Application, Add 1.80		
02 83 19 13-0040	EA			Electrical Devices, Chemical Stripping Of Lead Contaminated Material 53.63 For 0.025" (25 mil) Application, Add 2.98 For 0.03" (30 mil) Application, Add 4.66		
02 83 19 13-0041	LF			Door Frames, Chemical Stripping Of Lead Contaminated Material 13.26 For 0.025" (25 mil) Application, Add 0.81 For 0.03" (30 mil) Application, Add 1.31		
02 83 19 13-0042	SF			Wood Floors, Chemical Stripping Of Lead Contaminated Material 7.25 For 0.025" (25 mil) Application, Add 0.51 For 0.03" (30 mil) Application, Add 0.86		
02 83 19 13-0043	SF			HVAC Grilles, Chemical Stripping Of Lead Contaminated Material 27.55 For 0.025" (25 mil) Application, Add 1.53 For 0.03" (30 mil) Application, Add 2.39		
02 83 19 13-0044	SF			HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material 32.86 For 0.025" (25 mil) Application, Add 1.79 For 0.03" (30 mil) Application, Add 2.78		
02 83 19 13-0045	EA			Hinges, Chemical Stripping Of Lead Contaminated Material 17.19 For 0.025" (25 mil) Application, Add 1.09 For 0.03" (30 mil) Application, Add 1.77		
02 83 19 13-0046	EA			Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material 21.20 For 0.025" (25 mil) Application, Add 1.29 For 0.03" (30 mil) Application, Add 2.07 For 0.125" (125 mil) Application, Add 12.08		
02 83 19 13-0047	LF			Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 5.89 For 0.025" (25 mil) Application, Add 0.41 For 0.03" (30 mil) Application, Add 0.68 For 0.125" (125 mil) Application, Add 4.83		
02 83 19 13-0048	LF			>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 9.49 For 0.025" (25 mil) Application, Add 0.59 For 0.03" (30 mil) Application, Add 0.95 For 0.125" (125 mil) Application, Add 5.73		
02 83 19 13-0049	LF			>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 17.00 For 0.025" (25 mil) Application, Add 1.04 For 0.03" (30 mil) Application, Add 1.67 For 0.125" (125 mil) Application, Add 9.89		
02 83 19 13-0050	LF			>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 23.31 For 0.025" (25 mil) Application, Add 1.39 For 0.03" (30 mil) Application, Add 2.23 For 0.125" (125 mil) Application, Add 12.61		
02 83 19 13-0051	LF			>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material 41.83 For 0.025" (25 mil) Application, Add 2.43 For 0.03" (30 mil) Application, Add 3.86 For 0.125" (125 mil) Application, Add 20.60		
02 83 19 13-0052	SF			>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area 12.51 For 0.025" (25 mil) Application, Add 0.71 For 0.03" (30 mil) Application, Add 1.11 For 0.125" (125 mil) Application, Add 5.53		
02 83 19 13-0053	EA			Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material 249.00 For 0.025" (25 mil) Application, Add 13.54 For 0.03" (30 mil) Application, Add 20.99		
02 83 19 13-0054	SF			Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material 17.25 For 0.025" (25 mil) Application, Add 1.29 For 0.03" (30 mil) Application, Add 2.19		
02 83 19 13-0055	SF			Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material 18.90 For 0.025" (25 mil) Application, Add 1.37 For 0.03" (30 mil) Application, Add 2.32		
02 83 19 13-0056	SF			Siding, Chemical Stripping Of Lead Contaminated Material 9.87 For 0.025" (25 mil) Application, Add 0.68 For 0.03" (30 mil) Application, Add 1.14 For 0.125" (125 mil) Application, Add 8.11		

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0057	SF		Soffit, Chemical Stripping Of Lead Contaminated Material	20.82	
			For 0.025" (25 mil) Application, Add	1.19	
			For 0.03" (30 mil) Application, Add	1.88	
			For 0.125" (125 mil) Application, Add	9.71	
02 83 19 13-0058	SF		Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	9.53	
			For 0.025" (25 mil) Application, Add	0.63	
			For 0.03" (30 mil) Application, Add	1.03	
			For 0.125" (125 mil) Application, Add	6.88	
02 83 19 13-0059	SF		Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	10.83	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.21	
02 83 19 13-0060	SF		Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	10.80	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.20	
02 83 19 13-0061	SF		Steel Trusses, Chemical Stripping Of Lead Contaminated Material	15.35	
			For 0.025" (25 mil) Application, Add	0.92	
			For 0.03" (30 mil) Application, Add	1.47	
			For 0.125" (125 mil) Application, Add	8.34	
02 83 19 13-0062	SF		Wood Surfaces, Chemical Stripping Of Lead Contaminated Material	10.80	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.20	
02 83 19 13-0063	SF		Windows, One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material	25.01	
			For 0.025" (25 mil) Application, Add	1.40	
			For 0.03" (30 mil) Application, Add	2.19	
02 83 19 13-0064	SF		Windows, One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material	27.38	
			For 0.025" (25 mil) Application, Add	1.52	
			For 0.03" (30 mil) Application, Add	2.37	
02 83 19 13-0065	SF		Windows, One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material	28.98	
			For 0.025" (25 mil) Application, Add	1.60	
			For 0.03" (30 mil) Application, Add	2.49	
02 83 19 13-0066	SF		Windows, One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material	30.59	
			For 0.025" (25 mil) Application, Add	1.68	
			For 0.03" (30 mil) Application, Add	2.61	
02 83 19 13-0067	SF		Windows, One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material	32.20	
			For 0.025" (25 mil) Application, Add	1.76	
			For 0.03" (30 mil) Application, Add	2.73	
02 83 19 13-0068	SF		Windows, One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material	33.86	
			For 0.025" (25 mil) Application, Add	1.84	
			For 0.03" (30 mil) Application, Add	2.86	
02 83 19 13-0069	SF		Windows, One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material	35.42	
			For 0.025" (25 mil) Application, Add	1.92	
			For 0.03" (30 mil) Application, Add	2.98	
02 83 19 13-0070	SF		Windows, One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material	36.22	
			For 0.025" (25 mil) Application, Add	1.96	
			For 0.03" (30 mil) Application, Add	3.04	
02 83 19 13-0071	SF		Windows, One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material	37.05	
			For 0.025" (25 mil) Application, Add	2.00	
			For 0.03" (30 mil) Application, Add	3.10	
02 83 19 13-0072	SF		Windows, One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material	37.82	
			For 0.025" (25 mil) Application, Add	2.04	
			For 0.03" (30 mil) Application, Add	3.16	
02 83 19 13-0073	SF		Metal Stairs, Chemical Stripping Of Lead Contaminated Material	49.92	
			For 0.025" (25 mil) Application, Add	2.80	
			For 0.03" (30 mil) Application, Add	4.38	
			For 0.125" (125 mil) Application, Add	21.48	
02 83 19 13-0074	LF		Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	8.63	
			For 0.025" (25 mil) Application, Add	0.54	
			For 0.03" (30 mil) Application, Add	0.89	
			For 0.125" (125 mil) Application, Add	5.52	
02 83 19 13-0075	SF		Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	25.34	
			Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
			For 0.025" (25 mil) Application, Add	1.49	
			For 0.03" (30 mil) Application, Add	2.38	
			For 0.125" (125 mil) Application, Add	13.12	
02 83 19 13-0076	SF		Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material	27.74	
			For 0.025" (25 mil) Application, Add	1.58	
			For 0.03" (30 mil) Application, Add	2.48	
			For 0.125" (125 mil) Application, Add	12.58	
02 83 19 13-0077			Demolish Lead Contaminated Material <small>(02 83 19 13)</small>		
			Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0078	SF		Demolish Ceiling Suspension System, Lead Contaminated Material	2.20	
02 83 19 13-0079	SF		Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.28	
02 83 19 13-0080	SF		Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.82	
02 83 19 13-0081	SF		Demolish Metal Pan Grid System, Lead Contaminated Material	1.27	
02 83 19 13-0082	EA		Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	61.43	
02 83 19 13-0083	EA		Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	81.49	
02 83 19 13-0084	SF		Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.10	
02 83 19 13-0085	SF		Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0086 SF Demolish Brick, Lead Contaminated Material.....	3.83	
02 83 19 13-0087 SF Demolish Concrete Block, Lead Contaminated Material.....	4.94	
02 83 19 13-0088 SF Demolish Tile, Lead Contaminated Material.....	3.73	
02 83 19 13-0089 SF Demolish Up To 6" Concrete, Lead Contaminated Material.....	5.59	
02 83 19 13-0090 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	4.35	
02 83 19 13-0091 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	5.78	
02 83 19 13-0092 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material.....	6.37	
02 83 19 13-0093 LF Demolish Up To 6" Wide Baseboard, Lead Contaminated Material.....	1.66	
02 83 19 13-0094 LF Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material.....	2.08	
02 83 19 13-0095 LF Demolish Base Shoe Molding, Lead Contaminated Material.....	1.35	
02 83 19 13-0096 SF Demolish Concrete, Lead Contaminated Material.....	12.67	
02 83 19 13-0097 LF Demolish Cabinets, Lead Contaminated Material.....	29.52	
02 83 19 13-0098 SF Demolish Ceilings, Gypsum Board, Lead Contaminated Material.....	1.67	
02 83 19 13-0099 SF Demolish Up To 12" Diameter Columns, Lead Contaminated Material.....	16.35	
02 83 19 13-0100 SF Demolish Cornice, Lead Contaminated Material.....	2.17	
02 83 19 13-0101 EA Demolish Doors, Lead Contaminated Material.....	64.03	
02 83 19 13-0102 LF Demolish Door And Window Trim Or Frames, Lead Contaminated Material.....	1.95	
02 83 19 13-0103 EA Demolish Electrical Devices, Lead Contaminated Material.....	19.65	
02 83 19 13-0104 LF Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material.....	2.52	
02 83 19 13-0105 LF Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material.....	4.19	
02 83 19 13-0106 SF Demolish Wood Floors, Lead Contaminated Material.....	3.02	
02 83 19 13-0107 SF Demolish Grilles, Lead Contaminated Material.....	3.56	
02 83 19 13-0108 EA Demolish Hinges, Lead Contaminated Material.....	7.14	
02 83 19 13-0109 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material.....	15.35	
02 83 19 13-0110 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material.....	6.29	
02 83 19 13-0111 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material.....	9.18	
02 83 19 13-0112 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material.....	13.88	
02 83 19 13-0113 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material.....	25.59	
02 83 19 13-0114 EA Demolish Radiators, Lead Contaminated Material.....	110.52	
02 83 19 13-0115 EA Demolish Shutters, Lead Contaminated Material.....	43.07	
02 83 19 13-0116 SF Demolish Siding, Lead Contaminated Material.....	1.71	
02 83 19 13-0117 SF Demolish Soffit, Lead Contaminated Material.....	1.45	
02 83 19 13-0118 SF Demolish Flat Steel Surfaces, Lead Contaminated Material.....	3.98	
02 83 19 13-0119 SF Demolish Steel Beams, Lead Contaminated Material.....	4.69	
02 83 19 13-0120 SF Demolish Trusses, Lead Contaminated Material.....	6.15	
02 83 19 13-0121 SF Demolish Walls, Wood, Lead Contaminated Material.....	4.54	
02 83 19 13-0122 SF Demolish Windows, Lead Contaminated Material.....	15.29	
02 83 19 13-0123 SF Demolish Metal Stair, Lead Contaminated Material.....	7.32	
02 83 19 13-0124 LF Demolish Single Metal Hand Rail, Lead Contaminated Material.....	5.38	
02 83 19 13-0125 LF Demolish Metal Railing And Posts, Lead Contaminated Material.....	8.78	
02 83 19 13-0126 SF Demolish Metal Picket Fence, Lead Contaminated Material.....	2.42	
02 83 19 13-0127 SF Demolish Plywood, Lead Contaminated Material.....	6.61	
02 83 19 13-0128 SF Demolish Planks (Various Sizes), Lead Contaminated Material.....	3.23	
02 83 19 13-0129 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material.....	20.17	
02 83 19 13-0130 SF Demolish Ceramic Tile Block, Lead Contaminated Material.....	4.40	
02 83 19 13-0131 LF Demolish Metal Guard Rails, Lead Contaminated Material.....	12.11	
02 83 19 13-0132 SF Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material.....	6.45	
02 83 19 13-0133 SF Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material.....	4.64	
02 83 19 13-0134 SF Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	3.63	
02 83 19 13-0135 SF Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	2.83	
02 83 19 13-0136 SF Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material.....	20.17	
02 83 19 13-0137 SF Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material.....	14.34	
02 83 19 13-0138 SF Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material.....	10.76	
02 83 19 13-0139 SF Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material.....	8.07	
02 83 19 13-0140 Wet Sanding Of Lead Contaminated Material (02 83 19 13)		
02 83 19 13-0141 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint.....	1.75	
02 83 19 13-0142 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0143 SF Balustrades, Lead Abatement Encapsulation.....	5.54	
02 83 19 13-0144 LF Up To 6" Wide, Baseboard, Lead Abatement Encapsulation.....	6.42	
02 83 19 13-0145 LF >6" To 12" Wide, Baseboard, Lead Abatement Encapsulation.....	8.64	
02 83 19 13-0146 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation.....	3.55	
02 83 19 13-0147 SF Ornate Cabinets, Lead Abatement Encapsulation.....	8.03	
02 83 19 13-0148 SF Simple Design Cabinets, Lead Abatement Encapsulation.....	6.53	
02 83 19 13-0149 SF Drywall Ceilings, Lead Abatement Encapsulation.....	2.21	
02 83 19 13-0150 SF Wood Ceilings, Lead Abatement Encapsulation.....	2.70	
02 83 19 13-0151 SF Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation.....	2.50	
02 83 19 13-0152 SF Columns, Lead Abatement Encapsulation.....	4.30	
02 83 19 13-0153 SF Doors, Lead Abatement Encapsulation.....	9.44	
02 83 19 13-0154 LF Up To 2" Electrical Conduit, Lead Abatement Encapsulation.....	3.63	
02 83 19 13-0155 SF Picket Fence (Brush), Lead Abatement Encapsulation.....	2.55	
02 83 19 13-0156 SF Wood Floors (Roller), Lead Abatement Encapsulation.....	2.13	
02 83 19 13-0157 SF Grilles, Vents, Lead Abatement Encapsulation.....	5.98	
02 83 19 13-0158 LF Gutters And Downspouts, Lead Abatement Encapsulation.....	5.54	
02 83 19 13-0159 EA Hangers, Lead Abatement Encapsulation.....	47.41	
02 83 19 13-0160 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	3.36	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0161	LF		>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	4.82	
02 83 19 13-0162	LF		>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	7.46	
02 83 19 13-0163	LF		>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	11.02	
02 83 19 13-0164	EA		Radiators, Lead Abatement Encapsulation.....	202.26	
02 83 19 13-0165	EA		Up To 6' Shutters, Lead Abatement Encapsulation.....	174.79	
02 83 19 13-0166	SF		Siding, Lead Abatement Encapsulation.....	3.05	
02 83 19 13-0167	SF		Up To 12" Soffit, Lead Abatement Encapsulation.....	4.30	
02 83 19 13-0168	SF		Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.55	
02 83 19 13-0169	SF		Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.65	
02 83 19 13-0170	SF		Trusses, Lead Abatement Encapsulation.....	4.65	
02 83 19 13-0171	SF		Drywall Walls, Lead Abatement Encapsulation.....	1.97	
02 83 19 13-0172	SF		Wood Walls, Lead Abatement Encapsulation.....	2.42	
02 83 19 13-0173	EA		Window Without Grille, Lead Abatement Encapsulation.....	174.99	
02 83 19 13-0174	EA		Window With Grille, Lead Abatement Encapsulation.....	205.62	
02 83 19 13-0175	LF		Frames And Trim, Lead Abatement Encapsulation.....	3.18	
02 83 19 13-0176	LF		Steel Lintels, Lead Abatement Encapsulation.....	3.64	

02 83 33 Removal and Disposal of Material Containing Lead (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)****02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)**

02 83 33 13-0002	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.26	
02 83 33 13-0003	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.26	
02 83 33 13-0004	SF		High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.27	

02 84 Polychlorinated Biphenyl Remediation (02 80)**02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)****02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)**

02 84 16 00-0002	EA		Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling.....	10.96	
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02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)

Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.					
02 84 16 00-0004	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	1.41	
02 84 16 00-0005	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	2.12	
02 84 16 00-0006	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	6.59	
02 84 16 00-0007	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	15.06	

02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.					
02 84 16 00-0009	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	3.53	
02 84 16 00-0010	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	5.29	
02 84 16 00-0011	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	9.88	
02 84 16 00-0012	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	22.58	

02 84 33 Removal and Disposal of Polychlorinated Biphenyls (02 84)**02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled Transformers (02 84 33)**

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.					
02 84 33 00-0002	EA		Removal And Disposal Of Transformers 2.5/3.5 KVA, Non Polychlorinated Biphenyl (PCB).....	2,385.10	
Note: Includes disposal costs.					
02 84 33 00-0003	EA		Removal And Disposal Of Transformers 20 KVA, Non Polychlorinated Biphenyl (PCB).....	3,691.08	
Note: Includes disposal costs.					
02 84 33 00-0004	EA		Removal And Disposal Of Switch, Non Polychlorinated Biphenyl (PCB).....	1,155.86	
02 84 33 00-0005	EA		Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB).....	4,301.31	
Note: Includes disposal costs.					
02 84 33 00-0006	EA		Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB).....	1,950.97	
02 84 33 00-0007	EA		Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB).....	6,694.44	
Note: Includes disposal costs.					

02 87 Bio-Hazard Material Remediation (02 80)**02 87 13 Mold Remediation (02 87)**

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.

02 87 13 33		Removal and Disposal of Materials with Mold <small>(02 87 13)</small>	
02 87 13 33-0001		Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal <small>(02 87 13 33)</small> Note: Treat fittings as additional lf of insulation.	
02 87 13 33-0002		Pipe Insulation, Mold Abatement And Disposal <small>(02 87 13 33-0001)</small> Note: Diameter is outer size of insulation.	
02 87 13 33-0003		Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal <small>(02 87 13 33-0002)</small> Note: Excludes encased fittings.	
02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	613.00
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.95
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.22
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.94
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	10.72
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	9.47
02 87 13 33-0010		>6" Diameter Pipe Insulation, Mold Abatement And Disposal <small>(02 87 13 33-0002)</small>	
02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	677.04
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	30.58
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	24.00
02 87 13 33-0014	LF	>500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	19.07
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.37
02 87 13 33-0016	LF	>10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.92
02 87 13 33-0017		Thermal Insulation, Mold Abatement And Disposal <small>(02 87 13 33)</small>	
02 87 13 33-0018		Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal <small>(02 87 13 33-0017)</small>	
02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	645.02
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.22
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	10.93
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	8.46
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	6.73
02 87 13 33-0024		Surfacing Material, Mold Abatement And Disposal <small>(02 87 13 33)</small> Note: e.g. fireproofing, acoustical plaster, etc.	
02 87 13 33-0025		Stucco, Mold Abatement And Disposal <small>(02 87 13 33-0024)</small> Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal	627.24
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal	13.86
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	10.57
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	8.10
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	6.27
02 87 13 33-0031		Acoustical Plaster, Mold Abatement And Disposal <small>(02 87 13 33-0024)</small> Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0032	SET	Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal	627.24
02 87 13 33-0033	SF	>50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal	13.86
02 87 13 33-0034	SF	>500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal	10.57
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	8.10
02 87 13 33-0036	SF	>10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	6.27
02 87 13 33-0037		Gypsum Board, Mold Abatement And Disposal <small>(02 87 13 33-0024)</small>	
02 87 13 33-0038	SET	Up To 100 SF, Gypsum Board, Mold Abatement And Disposal.....	662.82
02 87 13 33-0039	SF	>100 To 500 SF, Gypsum Board, Mold Abatement And Disposal	4.96
02 87 13 33-0040	SF	>500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	4.03
02 87 13 33-0041	SF	>2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	3.30
02 87 13 33-0042	SF	>10,000 SF, Gypsum Board, Mold Abatement And Disposal	2.56
02 87 13 33-0043		Fireproofing, Mold Abatement And Disposal <small>(02 87 13 33-0024)</small> Note: Exposed surface area, includes associated overspray.	
02 87 13 33-0044	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal	645.02
02 87 13 33-0045	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal	19.19
02 87 13 33-0046	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	14.68
02 87 13 33-0047	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	11.27
02 87 13 33-0048	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	8.72

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0049	Flooring, Mold Abatement And Disposal (02 87 13 33)	
Note: Includes cove base.		
02 87 13 33-0050	Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)	
02 87 13 33-0051	Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050)	
Note: Single layer or first of multiple layers.		
02 87 13 33-0052 SET	Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	662.82
02 87 13 33-0053 SF	>100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	4.94
For Each Additional Layer, Add		
		1.24
02 87 13 33-0054 SF	>500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	2.98
For Each Additional Layer, Add		
		0.75
02 87 13 33-0055 SF	>2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	1.95
For Each Additional Layer, Add		
		0.49
02 87 13 33-0056 SF	>10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.62
For Each Additional Layer, Add		
		0.41
02 87 13 33-0057	Carpet, Mold Abatement And Disposal (02 87 13 33-0049)	
02 87 13 33-0058	Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)	
02 87 13 33-0059 SET	Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal	662.82
02 87 13 33-0060 SF	>100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	4.19
02 87 13 33-0061 SF	>500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.82
02 87 13 33-0062 SF	>2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.05
02 87 13 33-0063 SF	>10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	1.69
02 87 13 33-0064	Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)	
02 87 13 33-0065 SET	Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal	662.82
Note: Includes tack strips.		
02 87 13 33-0066 SF	>100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal.....	4.66
Note: Includes tack strips.		
02 87 13 33-0067 SF	>500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal.....	3.53
Note: Includes tack strips.		
02 87 13 33-0068 SF	>2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.90
Note: Includes tack strips.		
02 87 13 33-0069 SF	>10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.35
Note: Includes tack strips.		
02 87 13 33-0070	Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)	
02 87 13 33-0071 SET	Up To 75 SF, Subflooring, Mold Abatement And Disposal	645.02
02 87 13 33-0072 SF	>75 To 500 SF, Subflooring, Mold Abatement And Disposal.....	5.61
02 87 13 33-0073 SF	>500 To 2,500 SF, Subflooring, Mold Abatement And Disposal.....	3.77
02 87 13 33-0074 SF	>2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal.....	2.48
02 87 13 33-0075 SF	>10,000 SF, Subflooring, Mold Abatement And Disposal.....	1.77
02 87 13 33-0076	Siding, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0077	Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076)	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078 SET	Up To 100 SF, Interior Paneling, Mold Abatement And Disposal	662.82
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0079 SF	>100 To 500 SF, Interior Paneling, Mold Abatement And Disposal.....	4.92
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080 SF	>500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal	3.61
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0081 SF	>2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal	2.32
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082 SF	>10,000 SF, Interior Paneling, Mold Abatement And Disposal	1.89
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0083	Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)	
02 87 13 33-0084 SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	662.82
02 87 13 33-0085 SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.99
02 87 13 33-0086 SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	4.32
02 87 13 33-0087 SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.07
02 87 13 33-0088 SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.82
02 87 13 33-0089	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0090	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)	
02 87 13 33-0091 SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	677.04
02 87 13 33-0092 CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	24.74
02 87 13 33-0093 CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	17.91
02 87 13 33-0094 CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	14.50
02 87 13 33-0095 CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	12.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0096 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.74	
02 87 13 33-0097 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.28	
02 87 13 33-0098 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0099 Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098) Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100 SET Up To 100 LF, Wood Studs, Mold Abatement And Disposal	331.39	
02 87 13 33-0101 LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal	2.74	
02 87 13 33-0102 LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal	2.11	
02 87 13 33-0103 LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal	1.69	
02 87 13 33-0104 LF >10,000 LF, Wood Studs, Mold Abatement And Disposal	1.35	
02 87 13 33-0105 Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098) Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106 SET Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal	662.82	
02 87 13 33-0107 SF >100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	8.10	
02 87 13 33-0108 SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	4.08	
02 87 13 33-0109 SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.07	
02 87 13 33-0110 SF >10,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.82	
02 87 13 33-0111 Caulking, Mold Abatement And Disposal (02 87 13 33-0098)		
02 87 13 33-0112 SET Up To 20 LF, Caulking, Mold Abatement And Disposal	149.10	
02 87 13 33-0113 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	3.02	
02 87 13 33-0114 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	2.17	
02 87 13 33-0115 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.66	
02 87 13 33-0116 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.24	
02 87 13 33-0117 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.01	
02 87 13 33-0118 LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.88	
02 87 13 33-0119 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)		
02 87 13 33-0120 CSF Wipe Down Floors With Mild Bleach Solution	16.45	
For >25 To 50, Deduct	-1.64	
For >50 To 200, Deduct	-4.11	
For >200, Deduct	-6.57	
02 87 13 33-0121 CSF Wipe Down Walls With Mild Bleach Solution	19.35	
For >25 To 50, Deduct	-1.93	
For >50 To 200, Deduct	-4.83	
For >200, Deduct	-7.73	
02 87 13 33-0122 CSF Wipe Down Ceilings With Mild Bleach Solution	22.02	
For >25 To 50, Deduct	-2.20	
For >50 To 200, Deduct	-5.50	
For >200, Deduct	-8.80	
02 87 13 33-0123 CSF Wipe Down Countertops With Mild Bleach Solution	17.95	
For >25 To 50, Deduct	-1.79	
02 87 13 33-0124 CSF Wipe Down Other Surfaces With Mild Bleach Solution	22.77	
For >25 To 50, Deduct	-2.28	
For >50 To 200, Deduct	-5.69	
For >200, Deduct	-9.10	
02 87 13 33-0125 Cabinets (02 87 13 33-0098)		
02 87 13 33-0126 SET Up To 10 LF, Base Cabinet, Mold Abatement And Disposal	822.50	
02 87 13 33-0127 LF >10 To 20 LF, Base Cabinet, Mold Abatement And Disposal	85.78	
02 87 13 33-0128 LF >20 LF, Base Cabinet, Mold Abatement And Disposal	68.09	
02 87 13 33-0129 SET Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal	694.43	
02 87 13 33-0130 LF >10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal	65.91	
02 87 13 33-0131 LF >20 LF, Wall Cabinet, Mold Abatement And Disposal	48.20	
02 87 16 Excrement Removal (02 87) Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13 Bird Excrement Removal (02 87 16)		
02 87 16 13-0001 Bird Waste Removal (02 87 16 13) Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	591.66	
For Work In Restricted Working Space, Add	177.50	
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	9.86	
For Work In Restricted Working Space, Add	2.96	

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness..... <i>For Work In Restricted Working Space, Add</i>	8.97 2.69	
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness..... <i>For Work In Restricted Working Space, Add</i>	8.15 2.45	
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness..... <i>For Work In Restricted Working Space, Add</i>	7.41 2.22	
02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)		
02 87 19 00-0001 Temporary Barriers (02 87 19)		
02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Panels are opal or transparent. Includes self leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.		
02 87 19 00-0003 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000).....	837.09	
02 87 19 00-0004 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001).....	794.84	
02 87 19 00-0005 EA 2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002).....	625.85	
02 87 19 00-0006 EA 2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1).....	724.43	
02 87 19 00-0007 EA 6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005).....	383.34	
02 87 19 00-0008 EA 12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006).....	411.51	
02 87 19 00-0009 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010)..... Note: Includes a hydraulic closer and a lever style lockset standard.	1,280.71	
02 87 19 00-0010 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003)..... Note: Includes a hydraulic closer and a lever style lockset standard.	1,421.54	
02 87 19 00-0011 EA 4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008)..... Note: Includes a hydraulic closer and a lever style lockset standard.	1,703.20	
02 87 19 00-0012 EA 7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004).....	283.33	
02 87 19 00-0013 EA 7'-8" To 10' High, Outside Corner Post (Edge Guard 4007).....	234.03	
02 87 19 00-0014 EA 7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009).....	234.03	
02 87 19 00-0015 EA Closure Strips (Edge Guard 3003)..... Note: To seal panels to existing walls	16.28	
02 87 19 00-0016 EA Digital Differential Pressure Gauge Kit (Edge Guard 3005).....	392.98	
02 87 19 00-0017 Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal and disposal in approved landfill after use.		
02 87 19 00-0018 SF 6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control.....	0.55	
02 87 19 00-0019 SF 6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.73	
02 87 19 00-0020 SF 6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	0.99	
02 87 19 00-0021 SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control.....	0.64	
02 87 19 00-0022 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.82	
02 87 19 00-0023 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	1.08	
02 87 19 00-0024 Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal after use.		
02 87 19 00-0025 SF Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.08	
02 87 19 00-0026 SF 1/2" Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.09	
02 87 19 00-0027 SF 3/4" Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.76	
02 87 19 00-0028 Temporary Stud Wall For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
Note: Includes removal after use.		
02 87 19 00-0029 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.11	
02 87 19 00-0030 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	8.39	
02 87 19 00-0031 SF 5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.23	
02 87 19 00-0032 SF 5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	8.62	
02 87 19 00-0033 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	3.61	
02 87 19 00-0034 Isolation Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0035 GSF Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control..... Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airlock.	23.73	
02 87 19 00-0036 GSF Relocate Tent Construction To Different Area.....	2.85	
02 87 19 00-0037 Plexiglass Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0038 SF 3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	21.11	
02 87 19 00-0039 SF 1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	24.93	
02 87 19 00-0040 SF 3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	35.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0041 PR Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control.....	1,214.80	
Note: Excludes gloves.		
02 87 19 00-0042 PR Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	434.92	
Note: For installation in glove iris port.		
02 87 19 00-0043 PR Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	689.51	
Note: For installation in glove iris port.		
02 87 19 00-0044 EA 5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease.....	132.81	
Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).		
02 87 19 00-0045 Temporary Portable And Mobile Trailers (02 87 19)		
02 87 19 00-0046 Trailer Delivery (02 87 19 00-0045)		
02 87 19 00-0047 EA Deliver Trailer Within 25 Miles.....	1,074.43	
02 87 19 00-0048 Portable And Mobile Trailers, Purchase (02 87 19 00-0045)		
Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
02 87 19 00-0049 EA 8' x 24' Mobile Trailer With Toilet, Purchase.....	10,514.95	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0050 EA 8' x 32' Mobile Trailer With Toilet, Purchase.....	14,851.73	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0051 EA 10' x 36' Mobile Trailer With Toilet, Purchase.....	21,184.15	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0052 EA 10' x 44' Mobile Trailer With Toilet, Purchase.....	26,465.42	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0053 EA 10' x 50' Mobile Trailer With Toilet, Purchase.....	30,086.66	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0054 EA 12' x 50' Mobile Trailer With Toilet, Purchase.....	31,634.28	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0055 EA 12' x 60' Mobile Trailer With Toilet, Purchase.....	35,199.10	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0056 Accessories For Portable And Mobile Trailers (02 87 19 00-0045)		
02 87 19 00-0057 Skirting (02 87 19 00-0056)		
Note: Includes 2" x 4" wood framing 16" on center.		
02 87 19 00-0058 SF 1'-8" High Vinyl Covered Skirt.....	4.84	2.00
02 87 19 00-0059 SF 3' High Vinyl Covered Skirt.....	7.18	3.30
02 87 19 00-0060 Aluminum Modular Access Ramp (02 87 19 00-0056)		
Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
02 87 19 00-0061 EA Up To 35" High, Aluminum Modular Access Ramp.....	3,077.29	38.32
02 87 19 00-0062 Aluminum Modular Stairs (02 87 19 00-0056)		
Note: Excludes earthwork		
02 87 19 00-0063 EA Aluminum Steps For Mobile Trailers.....	856.51	
02 87 19 00-0064 Decontamination Chambers For Bio-Hazard And Infectious Disease Control (02 87 19)		
Note: Includes removal after use.		
02 87 19 00-0065 EA Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control.....	868.88	
Note: Includes connection to negative air system.		
02 87 19 00-0066 EA Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control.....	1,025.42	
Note: Includes connection to negative air system.		
02 87 19 00-0067 EA Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control.....	541.28	
Note: Includes connection to negative air system.		
02 87 19 00-0068 Bio-Hazard And Infectious Disease Control Cleaning, Level 2 (02 87 19)		
Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
02 87 19 00-0069 Bio-Hazard And Infectious Disease Control Cleaning Mobilization (02 87 19 00-0068)		
02 87 19 00-0070 EA Bio-Hazard And Infectious Disease Control Mobilization And Set-Up.....	373.86	
Note: Mobilization and set-up minimum for each site location.		

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 87 19 00-0071		Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces <small>(02 87 19 00-0068)</small>	
Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces			
02 87 19 00-0072	CSF	Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	27.71
		For >25 To 50, Deduct	-2.77
		For >50 To 200, Deduct	-5.54
		For >200, Deduct	-8.31
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-5.54
		For Level 3 Biohazard Cleaning, Add	9.14
02 87 19 00-0073	CSF	Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.60
		For >25 To 50, Deduct	-3.26
		For >50 To 200, Deduct	-6.52
		For >200, Deduct	-9.77
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-6.52
		For Level 3 Biohazard Cleaning, Add	10.75
02 87 19 00-0074	CSF	Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	37.09
		For >25 To 50, Deduct	-3.71
		For >50 To 200, Deduct	-7.41
		For >200, Deduct	-11.12
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-7.41
		For Level 3 Biohazard Cleaning, Add	12.23
02 87 19 00-0075	CSF	Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	30.23
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For >5 To 10, Deduct	-1.51
		For >10 To 50, Deduct	-3.02
		For >50, Deduct	-6.04
		For Level 1 Biohazard Cleaning, Deduct	-6.04
		For Level 3 Biohazard Cleaning, Add	9.97
02 87 19 00-0076	CSF	Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	38.36
		For >25 To 50, Deduct	-3.83
		For >50 To 200, Deduct	-7.67
		For >200, Deduct	-11.50
		For Cleaning Surfaces With Goldshield® GS5, Add	11.73
		For Level 1 Biohazard Cleaning, Deduct	-7.67
		For Level 3 Biohazard Cleaning, Add	12.65
02 87 19 00-0077		Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials <small>(02 87 19 00-0068)</small>	
Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect			
02 87 19 00-0078	EA	Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	71.63
		For Level 1 Biohazard Cleaning, Deduct	-14.32
		For Level 3 Biohazard Cleaning, Add	23.63
		For Cleaning Surfaces With Goldshield® GS5, Add	5.86
02 87 19 00-0079	EA	Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.87
		For Level 1 Biohazard Cleaning, Deduct	-6.57
		For Level 3 Biohazard Cleaning, Add	10.84
		For Cleaning Surfaces With Goldshield® GS5, Add	3.91
02 87 19 00-0080	EA	Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	115.39
		For Level 1 Biohazard Cleaning, Deduct	-23.07
		For Level 3 Biohazard Cleaning, Add	38.07
		For Cleaning Surfaces With Goldshield® GS5, Add	5.86
02 87 19 00-0081	EA	Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	7.11
		For Level 1 Biohazard Cleaning, Deduct	-1.42
		For Level 3 Biohazard Cleaning, Add	2.34
		For Cleaning Surfaces With Goldshield® GS5, Add	1.17
02 87 19 00-0082	EA	Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	106.38
		Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers	
		For Level 1 Biohazard Cleaning, Deduct	-21.27
		For Level 3 Biohazard Cleaning, Add	35.10
		For Cleaning Surfaces With Goldshield® GS5, Add	5.86
02 87 19 00-0083	EA	Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	11.36
		For Level 1 Biohazard Cleaning, Deduct	-2.27
		For Level 3 Biohazard Cleaning, Add	3.74
		For Cleaning Surfaces With Goldshield® GS5, Add	1.17
02 87 19 00-0084		Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork <small>(02 87 19 00-0068)</small>	
02 87 19 00-0085	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	4.18
		For Level 1 Biohazard Cleaning, Deduct	-0.83
		For Level 3 Biohazard Cleaning, Add	1.37
02 87 19 00-0086	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning	5.25
		For Level 1 Biohazard Cleaning, Deduct	-1.04
		For Level 3 Biohazard Cleaning, Add	1.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0087 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	7.02	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.38	
<i>For Level 3 Biohazard Cleaning, Add</i>	2.28	
02 87 19 00-0088 LF >8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	9.92	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.95	
<i>For Level 3 Biohazard Cleaning, Add</i>	3.21	
02 87 19 00-0089 EA Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	186.95	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-37.39	
<i>For Level 3 Biohazard Cleaning, Add</i>	61.69	
02 87 19 00-0090 SF Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning.....	13.01	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.60	
<i>For Level 3 Biohazard Cleaning, Add</i>	4.29	
02 87 19 00-0091 EA Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning.....	124.64	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-24.92	
<i>For Level 3 Biohazard Cleaning, Add</i>	41.12	
02 87 19 00-0092 EA Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	373.88	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-74.77	
<i>For Level 3 Biohazard Cleaning, Add</i>	123.37	
02 87 19 00-0093 EA Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning.....	31.18	
Note: Includes removal and reinstallation.		
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-6.23	
<i>For Level 3 Biohazard Cleaning, Add</i>	10.28	
02 87 19 00-0094 SF Apply Sporidicin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.55	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0095 SF Apply Goldshield® GS5 Antimicrobial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.62	
<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0096 Bio-Hazard And Infectious Disease Control Equipment Rental (02 87 19)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0097 DAY Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	141.76	
02 87 19 00-0098 WK Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	603.81	
02 87 19 00-0099 MO Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	1,690.66	
02 87 19 00-0100 DAY Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	125.69	
02 87 19 00-0101 WK Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	345.65	
02 87 19 00-0102 MO Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	942.68	
02 87 19 00-0103 DAY Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	39.65	
02 87 19 00-0104 WK Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	109.03	
02 87 19 00-0105 MO Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	297.36	
02 87 19 00-0106 DAY Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	81.38	
02 87 19 00-0107 WK Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	334.24	
02 87 19 00-0108 MO Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	1,009.97	
02 87 19 00-0109 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio-Hazard And Infectious Disease Control Clean-up.....	173.27	
Note: Required if over 800 hours operation.		
02 87 19 00-0110 DAY 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	395.20	
02 87 19 00-0111 WK 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	790.40	
02 87 19 00-0112 MO 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,580.80	
02 87 19 00-0113 DAY 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	526.93	
02 87 19 00-0114 WK 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,053.86	
02 87 19 00-0115 MO 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,107.73	
02 87 19 00-0116 DAY 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	789.21	
02 87 19 00-0117 WK 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,578.42	
02 87 19 00-0118 MO 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,156.85	
02 87 19 00-0119 DAY 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,052.28	
02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,104.56	
02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	4,209.13	
02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,315.35	
02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,630.70	
02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	5,261.41	
02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	113.97	
Note: Includes staking down tent.		
02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	227.94	
Note: Includes staking down tent.		
02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	683.81	
Note: Includes staking down tent.		
02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,367.62	
Note: Includes staking down tent.		
02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,279.38	
Note: Includes staking down tent.		
02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	86.42	

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0131	WK		Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	237.65	
02 87 19 00-0132	MO		Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	648.13	
02 87 19 00-0133			Bio-Hazard And Infectious Disease Control Hauling By Truck <small>(02 87 19)</small> Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.		
02 87 19 00-0134	EA		Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	95.76	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	1.20	
02 87 19 00-0135	EA		Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Control Clean Up	146.39	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	1.83	
02 87 19 00-0136	EA		Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	152.24	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	1.90	
02 87 19 00-0137	EA		Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	161.14	
			Note: Each first 15 miles per trip		
			For Each Additional Mile Over First 15 Miles, Add Per Mile	2.01	
02 87 19 00-0138			Bio-Hazard And Infectious Disease Control Disposal <small>(02 87 19)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0139	CY		Bio-Hazard And Infectious Disease Control Landfill Dump Fee	115.26	
02 87 19 00-0140			BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters <small>(02 87 19)</small> Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.		
02 87 19 00-0141	EA		20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P)	36,664.79	
02 87 19 00-0142	EA		7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST)	3,524.71	
02 87 19 00-0143	EA		Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04)	5,831.98	
02 87 19 00-0144	SF		Sub Flooring For Medical Shelter (AKS-AB846)	5.47	
02 87 19 00-0145	EA		Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5)	1,600.76	
02 87 19 00-0146	EA		Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5)	26,218.36	
02 87 19 00-0147	EA		3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915)	913.85	
02 87 19 00-0148	EA		Negative Pressure Isolation (NPI) System (AK-NPIS-5)	41,267.27	
			Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case		
02 87 19 00-0149	EA		6' Step Ladder (AKS-AC595)	250.02	
02 87 19 00-0150	EA		10 Lbs Sledgehammer (AKS-AA268)	75.06	
02 87 19 00-0151			Bio-Hazard And Infectious Disease Time And Material Tasks <small>(02 87 19)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0152			Bio-Hazard And Infectious Disease Control Labor <small>(02 87 19 00-0151)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0153	HR		General Laborer For Bio-Hazard And Infectious Disease Control Clean Up	93.96	
02 87 19 00-0154	HR		Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up	139.02	
02 87 19 00-0155	HR		Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up	101.25	
02 87 19 00-0156	HR		Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up	121.74	
02 87 19 00-0157	HR		Project Manager For Bio-Hazard And Infectious Disease Control Clean Up	133.89	
02 87 19 00-0158			Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment <small>(02 87 19 00-0151)</small> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0159	EA		Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	13.13	
02 87 19 00-0160	EA		Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	21.48	
02 87 19 00-0161	PR		Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	13.92	
02 87 19 00-0162	EA		Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	101.30	
02 87 19 00-0163	EA		Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	45.86	
02 87 19 00-0164	EA		Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	309.05	
			Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension		
02 87 19 00-0165	EA		14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	42.25	
			Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010		
02 87 19 00-0166	EA		19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	76.75	
			Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.		



Existing Conditions	02	02
Facility Remediation	02 80	
Bio-Hazard Material Remediation	02 87	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0167 BOX Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	23.79	
02 87 19 00-0168 EA Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	20.31	
02 87 19 00-0169 EA Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	2,065.76	
Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (AfI), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly		
02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables (02 87 19 00-0151)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.		
02 87 19 00-0171 GAL Bleach For Bio-Hazard And Infectious Disease Control Clean-up	10.23	
02 87 19 00-0172 EA N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up	3.40	
02 87 19 00-0173 GAL Disinfectant/Antimicrobial For Bio-Hazard And Infectious Disease Control Clean Up	100.27	
02 87 19 00-0174 GAL Goldshield® GSS Antimicrobial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up	281.48	
Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days		
02 87 19 00-0175 QT Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up	10.63	
02 87 19 00-0176 EA Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up	5.01	
02 87 19 00-0177 ROL Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up	13.05	
02 87 19 00-0178 EA UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up	61.50	
02 87 19 00-0179 ROL Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up	52.60	
02 87 19 00-0180 LB Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up	7.75	
02 87 19 00-0181 EA Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up	15.66	
02 87 19 00-0182 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up	161.91	
02 89 Hazmat Ancillary Tasks and Support (02 80)		
02 89 00 00-0001 Barriers And Protection (02 89)		
Note: Includes removal and disposal after use.		
02 89 00 00-0002 Isolation Barriers (02 89 00 00-0001)		
See CSI section 01 56 16 00-0031 for temporary stud walls.		
02 89 00 00-0003 Hazmat Containment Construction (02 89 00 00-0001)		
02 89 00 00-0004 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.36	
02 89 00 00-0005 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.48	
02 89 00 00-0006 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.63	
02 89 00 00-0007 SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.66	
02 89 00 00-0008 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.84	
02 89 00 00-0009 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.10	
02 89 00 00-0010 Decontamination Chambers (02 89)		
Note: Includes removal after use.		
02 89 00 00-0011 EA 3 Stage Portable Personnel Decontamination Wash Facility	878.59	
Note: Includes connection to negative air system.		
02 89 00 00-0012 EA 5 Stage Portable Personnel Decontamination Wash Facility	1,037.09	
Note: Includes connection to negative air system.		
02 89 00 00-0013 EA Portable Waste Decontamination Unit	549.06	
Note: Includes connection to negative air system.		
		369.61
<i>For Dismantling And Relocation To A Different Area, Add</i>		
02 90 Disaster Recovery (02)		
Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically provided by the Owner.		
02 90 50 Cleaning and Disaster Clean-up (02 90)		
02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal (02 90 50)		
Note: For materials not requiring mold abatement.		
02 90 50 00-0002 SY Wet Broadloom Carpet Removal For Disaster Clean-up	23.18	
02 90 50 00-0003 SY Wet Carpet Tile Removal For Disaster Clean-up	5.64	
02 90 50 00-0004 SF Wet Batt Insulation Removal For Disaster Clean-up	0.47	
02 90 50 00-0005 SF Wet Ceiling Tile Removal For Disaster Clean-up	0.56	
02 90 50 00-0006 SF Single Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.55	
02 90 50 00-0007 SF Double Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.86	
02 90 50 00-0008 Cleaning (02 90 50)		
Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required		
02 90 50 00-0009 Clean Furnishings (02 90 50 00-0008)		

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0010 EA Office Equipment, Exterior Wipe For Disaster Clean-up	27.80	
For Medium Clean, Add	11.68	
For Heavy Clean, Add	36.14	
02 90 50 00-0011 SF Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up	1.55	
For Medium Clean, Add	0.65	
For Heavy Clean, Add	2.02	
02 90 50 00-0012 LF Shelving, Light Clean For Disaster Clean-up	2.78	
For Medium Clean, Add	1.17	
For Heavy Clean, Add	3.61	
02 90 50 00-0013 EA Plastic Or Metal Chair, Light Clean For Disaster Clean-up	8.03	
For Medium Clean, Add	3.37	
For Heavy Clean, Add	10.44	
02 90 50 00-0014 EA Upholstered Chair, Light Clean For Disaster Clean-up	25.95	
For Medium Clean, Add	10.90	
For Heavy Clean, Add	33.74	
02 90 50 00-0015 EA Upholstered Sofa, Light Clean For Disaster Clean-up	159.98	
For Medium Clean, Add	67.19	
For Heavy Clean, Add	207.97	
02 90 50 00-0016 EA Desk, Light Clean For Disaster Clean-up	32.74	
For Medium Clean, Add	13.75	
For Heavy Clean, Add	42.56	
02 90 50 00-0017 EA Table, Light Clean For Disaster Clean-up	30.89	
For Medium Clean, Add	12.97	
For Heavy Clean, Add	40.16	
02 90 50 00-0018 EA Two Drawer File Cabinet, Light Clean For Disaster Clean-up	6.77	
For Medium Clean, Add	2.84	
For Heavy Clean, Add	8.80	
02 90 50 00-0019 EA Four Drawer File Cabinet, Light Clean For Disaster Clean-up	8.66	
For Medium Clean, Add	3.64	
For Heavy Clean, Add	11.26	
02 90 50 00-0020 LF Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.11	
For Medium Clean, Add	2.99	
For Heavy Clean, Add	9.24	
02 90 50 00-0021 LF Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	13.90	
For Medium Clean, Add	5.84	
For Heavy Clean, Add	18.07	
02 90 50 00-0022 LF Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.11	
For Medium Clean, Add	2.99	
For Heavy Clean, Add	9.24	
02 90 50 00-0023 LF Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	12.35	
For Medium Clean, Add	5.19	
For Heavy Clean, Add	16.06	
02 90 50 00-0024 EA Picture Frame, Glass And Back, Light Clean For Disaster Clean-up	2.96	
For Medium Clean, Add	1.24	
For Heavy Clean, Add	3.85	
02 90 50 00-0025 Clean Hard Surfaces (02 90 50 00-0008)		
02 90 50 00-0026 LF Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up	0.40	
For Medium Clean, Add	0.17	
For Heavy Clean, Add	0.52	
02 90 50 00-0027 EA Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.25	
For Medium Clean, Add	2.21	
For Heavy Clean, Add	6.83	
02 90 50 00-0028 EA Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.95	
For Medium Clean, Add	2.50	
For Heavy Clean, Add	7.74	
02 90 50 00-0029 SF Overhead Door, Light Clean For Disaster Clean-up	0.42	
For Medium Clean, Add	0.18	
For Heavy Clean, Add	0.55	
02 90 50 00-0030 SF Mirror, Light Clean For Disaster Clean-up	0.31	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.40	
02 90 50 00-0031 SF Window, Light Clean For Disaster Clean-up	0.91	
For Medium Clean, Add	0.38	
For Heavy Clean, Add	1.18	
02 90 50 00-0032 LF Handrail, Light Clean For Disaster Clean-up	0.81	
For Medium Clean, Add	0.34	
For Heavy Clean, Add	1.05	
02 90 50 00-0033 LF Bumper Rail, Light Clean For Disaster Clean-up	0.44	
For Medium Clean, Add	0.18	
For Heavy Clean, Add	0.57	
02 90 50 00-0034 SF Hard Floor, Light Clean For Disaster Clean-up	0.36	
For Medium Clean, Add	0.15	
For Heavy Clean, Add	0.47	
02 90 50 00-0035 SF Carpet, Light Clean For Disaster Clean-up	0.37	
For Medium Clean, Add	0.16	
For Heavy Clean, Add	0.48	
02 90 50 00-0036 SF Hard Ceiling, Light Clean For Disaster Clean-up	0.28	
For Medium Clean, Add	0.12	
For Heavy Clean, Add	0.36	
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up	0.31	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	0.26 0.11 0.34	
02 90 50 00-0039 SF Wall, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	0.19 0.08 0.25	
02 90 50 00-0040 SF Masonry Wall, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	0.26 0.11 0.34	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up..... Note: Includes removal from site, cleaning, and return. <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	65.15 27.36 84.70	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up..... Note: Includes removal from site, cleaning, and return. <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	81.43 34.20 105.86	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up..... Note: Includes removal from site, cleaning, and return. <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	97.71 41.04 127.02	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	114.00 47.88 148.20	
02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)		
02 90 50 00-0046 SF Window Blind, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	0.71 0.30 0.92	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	1.45 0.61 1.89	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	1.67 0.70 2.17	
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	1.52 0.64 1.98	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	1.75 0.74 2.28	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	1.86 0.78 2.42	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	2.14 0.90 2.78	
02 90 50 00-0053 Clean Appliances (02 90 50 00-0008)		
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	12.80 5.38 16.64	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	30.15 12.66 39.20	
02 90 50 00-0056 EA Range, Outside, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	26.06 10.95 33.88	
02 90 50 00-0057 Clean Plumbing (02 90 50 00-0008)		
02 90 50 00-0058 EA Water Heater, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	18.54 7.79 24.10	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	18.72 7.86 24.34	
02 90 50 00-0060 EA Restroom Accessory, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	8.59 3.61 11.17	
02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)		
02 90 50 00-0062 LF Baseboard Heater, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	5.53 2.32 7.19	
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	15.45 6.49 20.09	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	59.30 24.91 77.09	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up	5.56	
For Medium Clean, Add	2.34	
For Heavy Clean, Add	7.23	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up.....	38.51	
For Medium Clean, Add	16.17	
For Heavy Clean, Add	50.06	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up	34.29	
For Medium Clean, Add	14.40	
For Heavy Clean, Add	44.58	
02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)		
02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up	22.86	
For Medium Clean, Add	9.60	
For Heavy Clean, Add	29.72	
02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up.....	24.71	
For Medium Clean, Add	10.38	
For Heavy Clean, Add	32.12	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up.....	32.12	
For Medium Clean, Add	13.49	
For Heavy Clean, Add	41.76	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up.....	22.54	
For Medium Clean, Add	9.47	
For Heavy Clean, Add	29.30	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up	14.83	
For Medium Clean, Add	6.23	
For Heavy Clean, Add	19.28	
02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up	6.79	
For Medium Clean, Add	2.85	
For Heavy Clean, Add	8.83	
02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up	5.25	
For Medium Clean, Add	2.21	
For Heavy Clean, Add	6.83	
02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up.....	1.85	
For Medium Clean, Add	0.78	
For Heavy Clean, Add	2.41	
02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up.....	0.02	
02 90 50 00-0079 Contents Manipulation (02 90 50)		
02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheetting For Disaster Clean-up.....	0.23	
02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up	0.28	
02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up	0.49	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up.....	175.39	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up.....	232.60	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up.....	143.67	
02 90 50 00-0086 Water Disaster Clean-up (02 90 50)		
02 90 50 00-0087 LF Detach Baseboard For Disaster Clean-up	0.67	
02 90 50 00-0088 LF Detach And Later Reset Baseboard For Disaster Clean-up	1.19	
02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up	4.37	
02 90 50 00-0090 SF Water Extraction From Floor For Disaster Clean-up	0.45	
02 90 50 00-0091 SF Gray Water Extraction From Floor For Disaster Clean-up	0.74	
02 90 50 00-0092 SF Black Water Extraction From Floor For Disaster Clean-up	1.16	
02 90 50 00-0093 SF Tear Out Wet Non Salvageable Carpet For Disaster Clean-up	0.36	
02 90 50 00-0094 SF Tear Out Wet Non Salvageable Carpet, Black Water For Disaster Clean-up	0.43	
02 90 50 00-0095 SF Tear Out Wet Non Salvageable Glue Down Carpet For Disaster Clean-up.....	0.65	
02 90 50 00-0096 SF Tear Out Wet Non Salvageable Glue Down Carpet, Black Water For Disaster Clean-up.....	0.94	
02 90 50 00-0097 SF Tear Out Vinyl Flooring For Disaster Clean-up	0.89	
02 90 50 00-0098 SF Tear Out Vinyl Flooring, Black Water For Disaster Clean-up	1.31	
02 90 50 00-0099 SF Tear Out Wood Flooring, Black Water For Disaster Clean-up	3.39	
02 90 50 00-0100 SF Tear Out Laminated Wood Flooring For Disaster Clean-up.....	1.67	
02 90 50 00-0101 SF Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up.....	2.45	
02 90 50 00-0102 SF Tear Out Wet Ceiling Tile For Disaster Clean-up.....	0.28	
02 90 50 00-0103 SF Tear Out Batt Insulation For Disaster Clean-up	0.28	
02 90 50 00-0104 SF Tear Out Wet Gypsum Board For Disaster Clean-up.....	0.48	
02 90 50 00-0105 SF Apply Antimicrobial Agent For Disaster Clean-up	0.26	
02 90 50 00-0106 SF High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up	0.35	
02 90 50 00-0107 Board Up And Tarp Up (02 90 50)		
02 90 50 00-0108 SF Polyethylene Tarp On Roof For Disaster Clean-up.....	0.26	
02 90 50 00-0109 SF Temporary Plywood On Roof For Disaster Clean-up.....	1.49	
02 90 50 00-0110 SF Temporary Plywood On Wall Or Windows For Disaster Clean-up.....	1.86	
02 90 50 00-0111 Minimum Charges (02 90 50)		
02 90 50 00-0112 EA Disaster Cleaning Minimum Charge	1,127.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0113 EA Disaster Water Extraction Minimum Charge.....	242.67	
02 90 50 00-0114 EA Disaster Carpet Cleaning Minimum Charge.....	225.83	
02 90 50 00-0115 Document Restoration (02 90 50)		
02 90 50 00-0116 EA Book Rebinding, Each For Document Restoration	116.62	
02 90 50 00-0117 EA Book Recasing, Each For Document Restoration.....	58.30	
02 90 50 00-0118 EA Boxes-MCS, 1.2 CF For Document Restoration	7.34	
02 90 50 00-0119 EA Boxes-MCS, 2.0 CF For Document Restoration.....	8.10	
02 90 50 00-0120 EA Boxes Bankers For Document Restoration.....	18.63	
02 90 50 00-0121 EA Boxes Standard Packout For Document Restoration	4.70	
02 90 50 00-0122 EA Boxes X Ray For Document Restoration	11.67	
02 90 50 00-0123 EA CD Scanning and Diagnostics, Each For Document Restoration	11.67	
02 90 50 00-0124 EA Cleaning Antique Books, Each For Document Restoration	349.85	
02 90 50 00-0125 EA Cleaning Catheter Roll, Per Roll For Document Restoration	46.63	
02 90 50 00-0126 EA Cleaning CD And DVD, Per Disc For Document Restoration	4.69	
02 90 50 00-0127 EA Cleaning Level 1 - Blue Prints, Each For Document Restoration.....	3.28	
02 90 50 00-0128 CF Cleaning Level 1 - Document Per CF For Document Restoration	101.58	
02 90 50 00-0129 EA Cleaning Level 1 - Linen, Each For Document Restoration	3.28	
02 90 50 00-0130 EA Cleaning Level 1 - Mylar, Each For Document Restoration.....	3.28	
02 90 50 00-0131 EA Cleaning Level 2 - Blue Print, Each For Document Restoration	4.07	
02 90 50 00-0132 CF Cleaning Level 2 - Document Per CF For Document Restoration	152.23	
02 90 50 00-0133 EA Cleaning Level 2 - Linen, Each For Document Restoration	4.07	
02 90 50 00-0134 EA Cleaning Level 2 - Mylar, Each For Document Restoration	4.07	
02 90 50 00-0135 EA Cleaning Level 3 - Blue Prints, Each For Document Restoration.....	5.78	
02 90 50 00-0136 CF Cleaning Level 3 - Document Per CF For Document Restoration	203.12	
02 90 50 00-0137 EA Cleaning Level 3 - Linen, Each For Document Restoration	5.78	
02 90 50 00-0138 EA Cleaning Level 3 - Mylar, Each For Document Restoration	5.78	
02 90 50 00-0139 EA Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration.....	8.10	
02 90 50 00-0140 EA Cleaning Level 4 - All Fire-Linen, Each For Document Restoration.....	8.10	
02 90 50 00-0141 EA Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration.....	8.10	
02 90 50 00-0142 CF Cleaning Level 4 - Light Fire-Document Per CF For Document Restoration	253.85	
02 90 50 00-0143 EA Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration.....	8.97	
02 90 50 00-0144 CF Cleaning Level 5 - Severe Fire-Document Per CF For Document Restoration.....	380.89	
02 90 50 00-0145 EA Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration	8.97	
02 90 50 00-0146 EA Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration	8.97	
02 90 50 00-0147 EA Cleaning Microfiche Sheets, Each For Document Restoration	3.19	
02 90 50 00-0148 EA Cleaning Microfiche Strips, Each For Document Restoration	0.74	
02 90 50 00-0149 EA Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration	116.62	
02 90 50 00-0150 EA Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration	163.27	
02 90 50 00-0151 EA Cleaning Photographs Negatives, Per Negative For Document Restoration.....	3.19	
02 90 50 00-0152 EA Cleaning Photographs, Each For Document Restoration	0.74	
02 90 50 00-0153 EA Cleaning Record Albums, Each For Document Restoration	4.69	
02 90 50 00-0154 EA Cleaning VHS And Beta Tapes-In House, Each For Document Restoration	11.67	
02 90 50 00-0155 EA Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration	46.63	
02 90 50 00-0156 EA Cleaning X Ray 1-1000, Per Film For Document Restoration.....	4.35	
02 90 50 00-0157 EA Cleaning X Ray 1K-5K, Per Film For Document Restoration.....	3.72	
02 90 50 00-0158 EA Cleaning X Ray 5K-Up, Per Film For Document Restoration.....	2.92	
02 90 50 00-0159 EA Copying Clean Water, Per Page For Document Restoration.....	0.42	
02 90 50 00-0160 EA Copying Greywater Fire, Per Page For Document Restoration	1.26	
02 90 50 00-0161 CF Deodorization, Vapor Tech For Document Restoration	8.02	
02 90 50 00-0162 CF Disinfectant-Fogging For Document Restoration	16.35	
02 90 50 00-0163 EA Document Disposal In House No Shredding For Document Restoration.....	62.32	
02 90 50 00-0164 EA Document Disposal In House With Shredding For Document Restoration	17.01	
02 90 50 00-0165 CF Up To 150 CF, Drying-MCS Center For Document Restoration	209.91	
02 90 50 00-0166 CF >150 To 500 CF, Drying-MCS Center For Document Restoration.....	163.27	
02 90 50 00-0167 CF >500 CF, Drying-MCS Center For Document Restoration.....	139.94	
02 90 50 00-0168 CF >50 To 150 CF, Drying-MCS Center For Document Restoration.....	186.59	
02 90 50 00-0169 CF Up To 500 CF, Drying-Onsite For Document Restoration	349.85	
02 90 50 00-0170 CF >500 CF, Drying-Onsite For Document Restoration	214.61	
02 90 50 00-0171 EA Drying Antique Books, Each For Document Restoration	46.63	
02 90 50 00-0172 EA Drying Blue Prints, Each For Document Restoration	5.83	
02 90 50 00-0173 EA DVD Scanning And Diagnostics, Each For Document Restoration	11.67	
02 90 50 00-0174 EA Freeze Drying (In House) For Document Restoration.....	105.73	
02 90 50 00-0175 EA Freeze Drying (Outside) For Document Restoration.....	90.62	
02 90 50 00-0176 EA Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration	2,492.16	
02 90 50 00-0177 CF >48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration	22.66	
02 90 50 00-0178 EA Minimal Drying Jobs For Document Restoration.....	1,049.73	
02 90 50 00-0179 EA Monthly Storage For Document Restoration.....	195.70	
02 90 50 00-0180 EA Mylar Prints For Document Restoration	11.67	
02 90 50 00-0181 CF Ozoning For Document Restoration	7.20	
02 90 50 00-0182 CF Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration	9.12	
02 90 50 00-0183 MO Stabilization Freezer Storage, Per Page-Per Month For Document Restoration	0.11	
02 90 50 00-0184 EA Wood Pallets, Each For Document Restoration.....	25.36	

02 90 55 Emergency Clean-up (02 90)

02 90 55 00-0001 Emergency Clean-up (02 90 55)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**02 90 55 00-0002****Emergency Clean-up Labor** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0003	HR	Skilled Tradesman For Emergency Clean Up.....	60.72
02 90 55 00-0004	HR	Restoration / Document Laborer For Emergency Clean Up.....	42.50
02 90 55 00-0005	HR	Restoration / Document Supervisor For Emergency Clean Up.....	58.44
02 90 55 00-0006	HR	Restoration / Document Project Manager For Emergency Clean Up.....	95.63
02 90 55 00-0007	HR	Assistant Project Manager For Emergency Clean Up.....	79.70
02 90 55 00-0008	HR	Senior Project Manager For Emergency Clean Up.....	111.57
02 90 55 00-0009	HR	Project Director / Document Consultant / Account Manager For Emergency Clean Up.....	159.39
02 90 55 00-0010	HR	Equipment Technician For Emergency Clean Up.....	116.89
02 90 55 00-0011	HR	Mold Remediation Laborer For Emergency Clean Up.....	58.19
02 90 55 00-0012	HR	Mold Remediation Supervisor For Emergency Clean Up.....	79.70
02 90 55 00-0013	HR	Administrative Personnel For Emergency Clean Up.....	37.19
02 90 55 00-0014	HR	Project Accountant For Emergency Clean Up.....	60.72
02 90 55 00-0015	HR	Biohazard Technician For Emergency Clean Up.....	84.38
02 90 55 00-0016	HR	Biohazard Supervisor For Emergency Clean Up.....	101.45
02 90 55 00-0017	HR	Health And Safety Officer For Emergency Clean Up.....	91.08
02 90 55 00-0018	HR	Resource And Logistics Coordinator For Emergency Clean Up.....	65.78
02 90 55 00-0019	HR	Loss Control Specialist For Emergency Clean Up.....	63.76
02 90 55 00-0020	HR	Moisture Control Specialist For Emergency Clean Up.....	52.62
02 90 55 00-0021	HR	Mobilization Support For Emergency Clean Up.....	32.38

02 90 55 00-0022**Emergency Clean-up Equipment** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0023**General Emergency Clean-up Equipment** (02 90 55 00-0022)

02 90 55 00-0024	DAY	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	141.76
02 90 55 00-0025	WK	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	540.80
02 90 55 00-0026	MO	265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	1,480.64
02 90 55 00-0027	DAY	13" Floor Buffer Rental For Emergency Clean-up.....	47.58
02 90 55 00-0028	WK	13" Floor Buffer Rental For Emergency Clean-up.....	133.61
02 90 55 00-0029	MO	13" Floor Buffer Rental For Emergency Clean-up.....	368.85
02 90 55 00-0030	DAY	17" Floor Buffer Rental For Emergency Clean-up.....	92.21
02 90 55 00-0031	WK	17" Floor Buffer Rental For Emergency Clean-up.....	235.24
02 90 55 00-0032	MO	17" Floor Buffer Rental For Emergency Clean-up.....	555.16
02 90 55 00-0033	DAY	Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	508.11
02 90 55 00-0034	WK	Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	1,364.38
02 90 55 00-0035	MO	Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	3,801.44
02 90 55 00-0036	DAY	Ride-On Floor Scrubber Rental For Emergency Clean-up.....	1,147.96
02 90 55 00-0037	WK	Ride-On Floor Scrubber Rental For Emergency Clean-up.....	3,029.86
02 90 55 00-0038	MO	Ride-On Floor Scrubber Rental For Emergency Clean-up.....	8,167.45
02 90 55 00-0039	DAY	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	82.80
02 90 55 00-0040	WK	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	235.24
02 90 55 00-0041	MO	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	809.22
02 90 55 00-0042	DAY	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	77.16
02 90 55 00-0043	WK	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	207.01
02 90 55 00-0044	MO	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	536.34
02 90 55 00-0045	DAY	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	123.45
02 90 55 00-0046	WK	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	352.29
02 90 55 00-0047	MO	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	984.61
02 90 55 00-0048	DAY	Truck Mounted Extractor Rental For Emergency Clean-up.....	774.97
02 90 55 00-0049	WK	Truck Mounted Extractor Rental For Emergency Clean-up.....	2,324.92
02 90 55 00-0050	MO	Truck Mounted Extractor Rental For Emergency Clean-up.....	6,974.75
02 90 55 00-0051	DAY	16" Chain Saw Rental For Emergency Clean-up.....	90.33
02 90 55 00-0052	WK	16" Chain Saw Rental For Emergency Clean-up.....	203.25
02 90 55 00-0053	MO	16" Chain Saw Rental For Emergency Clean-up.....	541.99
02 90 55 00-0054	DAY	20" Chain Saw Rental For Emergency Clean-up.....	112.91
02 90 55 00-0055	WK	20" Chain Saw Rental For Emergency Clean-up.....	254.06
02 90 55 00-0056	MO	20" Chain Saw Rental For Emergency Clean-up.....	677.48
02 90 55 00-0057	EA	Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up.....	84.69
02 90 55 00-0058	DAY	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	120.44
02 90 55 00-0059	WK	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	329.33
02 90 55 00-0060	MO	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	922.13
02 90 55 00-0061	DAY	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	146.79
02 90 55 00-0062	WK	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	498.70
02 90 55 00-0063	MO	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up.....	950.36
02 90 55 00-0064	DAY	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up.....	134.80
02 90 55 00-0065	DAY	Extension Cords - 220 Volt For Emergency Clean-up.....	47.05
02 90 55 00-0066	DAY	Extension Cords - 220 Volt Converter Box For Emergency Clean-up.....	28.23
02 90 55 00-0067	DAY	Demolition Cart, 7 Yard For Emergency Clean-up.....	71.37
02 90 55 00-0068	EA	Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up.....	141.14
02 90 55 00-0069	DAY	Dry-Ice Blasting System For Emergency Clean-up.....	1,524.11
02 90 55 00-0070	DAY	Fogger - Mist For Emergency Clean-up.....	39.65
02 90 55 00-0071	DAY	Fogger - Electric Thermal For Emergency Clean-up.....	57.09
02 90 55 00-0072	DAY	Fogger - Gas Power Thermal For Emergency Clean-up.....	153.36
02 90 55 00-0073	EA	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up.....	188.80
02 90 55 00-0074	DAY	Hand Trucks/Dollies For Emergency Clean-up.....	22.58
02 90 55 00-0075	DAY	Heat Gun - Shrink Wrap For Emergency Clean-up.....	117.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0076 DAY High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up.....	166.14	
Note: Includes all filters.		
02 90 55 00-0077 DAY Ladder For Emergency Clean-up.....	31.99	
02 90 55 00-0078 DAY Lights - Demo, Drop, Stand, String For Emergency Clean-up.....	28.55	
02 90 55 00-0079 DAY Lights - Wobble For Emergency Clean-up.....	34.89	
02 90 55 00-0080 DAY Moisture Meter For Emergency Clean-up.....	47.58	
02 90 55 00-0081 DAY Nail Gun For Emergency Clean-up.....	84.69	
02 90 55 00-0082 DAY Ozone Generator For Emergency Clean-up.....	198.24	
02 90 55 00-0083 DAY PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up.....	112.91	
02 90 55 00-0084 DAY Portable Generator, Up To 7,500 Watt For Emergency Clean-up.....	158.59	
02 90 55 00-0085 DAY Pressure Washer, Hot For Emergency Clean-up.....	237.89	
02 90 55 00-0086 DAY Pressure Washer, Cold For Emergency Clean-up.....	158.59	
02 90 55 00-0087 DAY Scaffolding - Per Section For Emergency Clean-up.....	122.32	
02 90 55 00-0088 DAY Small Tools - Tool Box For Emergency Clean-up.....	47.05	
02 90 55 00-0089 DAY Soda Blasting Equipment For Emergency Clean-up.....	1,512.37	
02 90 55 00-0090 DAY Sprayer - Hudson For Emergency Clean-up.....	15.06	
02 90 55 00-0091 DAY 0.47 GPM, Airless Paint Sprayer For Emergency Clean-up.....	127.60	
02 90 55 00-0092 DAY Storage Space (Per SF Per Day) For Emergency Clean-up.....	3.65	
02 90 55 00-0093 DAY Submersible Pump For Emergency Clean-up.....	39.65	
02 90 55 00-0094 DAY Trash Pump - 2" Gas Powered For Emergency Clean-up.....	217.62	
02 90 55 00-0095 DAY Vehicle, Pick-up, SUV, Car For Emergency Clean-up.....	108.03	
02 90 55 00-0096 DAY Vehicle, Van For Emergency Clean-up.....	176.13	
02 90 55 00-0097 DAY 16' Or 24' Box Truck Vehicle For Emergency Clean-up.....	213.01	
Note: Includes Mileage		
02 90 55 00-0098 DAY Trailer - Refrigerated 40' Storage For Emergency Clean-up.....	234.06	
02 90 55 00-0099 DAY Utility Trailer For Emergency Clean-up.....	194.92	
Note: Includes Mileage		
02 90 55 00-0100 DAY Truck Mount, Per Wand Extraction For Emergency Clean-up.....	879.08	
02 90 55 00-0101 DAY High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up.....	39.65	
02 90 55 00-0102 DAY Vacuum - Shop Vacuum For Emergency Clean-up.....	39.65	
02 90 55 00-0103 DAY Vacuum - Commercial For Emergency Clean-up.....	118.94	
02 90 55 00-0104 DAY 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	134.80	
02 90 55 00-0105 DAY Vacuum - Upright For Emergency Clean-up.....	25.83	
02 90 55 00-0106 DAY Zip Walls (Per 2 Poles) For Emergency Clean-up.....	39.65	
02 90 55 00-0107 DAY 2 Way Radio For Emergency Clean-up.....	31.72	
02 90 55 00-0108	Technical/Electronics Restoration Equipment (02 90 55 00-0022)	
02 90 55 00-0109 DAY Computer - Diagnostic For Emergency Clean-up.....	47.05	
02 90 55 00-0110 WK Computer - Diagnostic For Emergency Clean-up.....	129.38	
02 90 55 00-0111 MO Computer - Diagnostic For Emergency Clean-up.....	352.86	
02 90 55 00-0112 DAY Convection Oven - Large For Emergency Clean-up.....	683.38	
02 90 55 00-0113 WK Convection Oven - Large For Emergency Clean-up.....	1,879.31	
02 90 55 00-0114 MO Convection Oven - Large For Emergency Clean-up.....	5,125.38	
02 90 55 00-0115 DAY Convection Oven - Small For Emergency Clean-up.....	169.37	
02 90 55 00-0116 WK Convection Oven - Small For Emergency Clean-up.....	465.77	
02 90 55 00-0117 MO Convection Oven - Small For Emergency Clean-up.....	1,270.28	
02 90 55 00-0118 DAY Convection Oven - Vacuum For Emergency Clean-up.....	975.37	
02 90 55 00-0119 WK Convection Oven - Vacuum For Emergency Clean-up.....	2,682.26	
02 90 55 00-0120 MO Convection Oven - Vacuum For Emergency Clean-up.....	7,315.27	
02 90 55 00-0121 DAY Decontamination Booth For Emergency Clean-up.....	806.28	
02 90 55 00-0122 WK Decontamination Booth For Emergency Clean-up.....	2,217.28	
02 90 55 00-0123 MO Decontamination Booth For Emergency Clean-up.....	6,047.13	
02 90 55 00-0124 DAY DI Water System For Emergency Clean-up.....	62.62	
02 90 55 00-0125 WK DI Water System For Emergency Clean-up.....	172.22	
02 90 55 00-0126 MO DI Water System For Emergency Clean-up.....	469.68	
02 90 55 00-0127 DAY ESD Bench Workstation For Emergency Clean-up.....	38.36	
02 90 55 00-0128 WK ESD Bench Workstation For Emergency Clean-up.....	105.48	
02 90 55 00-0129 MO ESD Bench Workstation For Emergency Clean-up.....	287.68	
02 90 55 00-0130 DAY Heater/Enclosure Control System For Emergency Clean-up.....	28.23	
02 90 55 00-0131 WK Heater/Enclosure Control System For Emergency Clean-up.....	77.63	
02 90 55 00-0132 MO Heater/Enclosure Control System For Emergency Clean-up.....	211.71	
02 90 55 00-0133 DAY Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	98.63	
02 90 55 00-0134 WK Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	271.24	
02 90 55 00-0135 MO Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	739.75	
02 90 55 00-0136 DAY Micro-Blaster/Dust Collector For Emergency Clean-up.....	423.43	
02 90 55 00-0137 WK Micro-Blaster/Dust Collector For Emergency Clean-up.....	1,164.43	
02 90 55 00-0138 MO Micro-Blaster/Dust Collector For Emergency Clean-up.....	3,175.71	
02 90 55 00-0139 DAY Mobile Laboratory For Emergency Clean-up.....	1,176.19	
02 90 55 00-0140 WK Mobile Laboratory For Emergency Clean-up.....	3,234.52	
02 90 55 00-0141 MO Mobile Laboratory For Emergency Clean-up.....	8,821.41	
02 90 55 00-0142 DAY Nitrogen Enclosure Cabinet For Emergency Clean-up.....	22.58	
02 90 55 00-0143 WK Nitrogen Enclosure Cabinet For Emergency Clean-up.....	62.10	
02 90 55 00-0144 MO Nitrogen Enclosure Cabinet For Emergency Clean-up.....	169.37	
02 90 55 00-0145 DAY Odell Cleaning Station For Emergency Clean-up.....	658.66	
02 90 55 00-0146 WK Odell Cleaning Station For Emergency Clean-up.....	1,811.33	
02 90 55 00-0147 MO Odell Cleaning Station For Emergency Clean-up.....	4,939.99	
02 90 55 00-0148 DAY Parts Washer For Emergency Clean-up.....	47.05	
02 90 55 00-0149 WK Parts Washer For Emergency Clean-up.....	129.38	
02 90 55 00-0150 MO Parts Washer For Emergency Clean-up.....	352.86	
02 90 55 00-0151 DAY Ultrasonic Cleaning System For Emergency Clean-up.....	293.55	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0152	WK		Ultrasonic Cleaning System For Emergency Clean-up.....	807.26	
02 90 55 00-0153	MO		Ultrasonic Cleaning System For Emergency Clean-up.....	2,201.62	
02 90 55 00-0154	DAY		Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	125.69	
02 90 55 00-0155	WK		Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	345.65	
02 90 55 00-0156	MO		Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	942.68	
02 90 55 00-0157 Drying/Dehumidification Equipment (02 90 55 00-0022)					
02 90 55 00-0158	DAY		202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up.....	198.24	
			Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 55 00-0159	WK		202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up.....	545.16	
			Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 55 00-0160	MO		202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up.....	1,486.80	
			Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 55 00-0161	DAY		2,200 CFM Centrifugal Air Mover For Emergency Clean-up.....	46.25	
02 90 55 00-0162	WK		2,200 CFM Centrifugal Air Mover For Emergency Clean-up.....	127.19	
02 90 55 00-0163	MO		2,200 CFM Centrifugal Air Mover For Emergency Clean-up.....	346.89	
02 90 55 00-0164	DAY		3,000 CFM Axial Air Mover For Emergency Clean-up.....	77.09	
02 90 55 00-0165	WK		3,000 CFM Axial Air Mover For Emergency Clean-up.....	211.99	
02 90 55 00-0166	MO		3,000 CFM Axial Air Mover For Emergency Clean-up.....	578.16	
02 90 55 00-0167	DAY		Injectidry System For Emergency Clean-up.....	245.82	
02 90 55 00-0168	WK		Injectidry System For Emergency Clean-up.....	676.00	
02 90 55 00-0169	MO		Injectidry System For Emergency Clean-up.....	1,843.63	
02 90 55 00-0170	DAY		Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	158.59	
02 90 55 00-0171	WK		Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	436.13	
02 90 55 00-0172	MO		Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,189.44	
02 90 55 00-0173	DAY		>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	235.24	
02 90 55 00-0174	WK		>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	646.90	
02 90 55 00-0175	MO		>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,764.28	
02 90 55 00-0176	DAY		>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	219.01	
02 90 55 00-0177	WK		>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	602.27	
02 90 55 00-0178	MO		>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,642.56	
02 90 55 00-0179	DAY		Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up.....	234.11	
02 90 55 00-0180	WK		Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up.....	643.81	
02 90 55 00-0181	MO		Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up.....	1,755.84	
02 90 55 00-0182	DAY		Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up.....	234.11	
02 90 55 00-0183	WK		Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up.....	643.81	
02 90 55 00-0184	MO		Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up.....	1,755.84	
02 90 55 00-0185	DAY		D-500 Desiccant Dehumidifier For Emergency Clean-up.....	264.32	
02 90 55 00-0186	WK		D-500 Desiccant Dehumidifier For Emergency Clean-up.....	726.88	
02 90 55 00-0187	MO		D-500 Desiccant Dehumidifier For Emergency Clean-up.....	1,982.40	
02 90 55 00-0188	DAY		D-750 Desiccant Dehumidifier For Emergency Clean-up.....	555.07	
02 90 55 00-0189	WK		D-750 Desiccant Dehumidifier For Emergency Clean-up.....	1,526.45	
02 90 55 00-0190	MO		D-750 Desiccant Dehumidifier For Emergency Clean-up.....	4,163.04	
02 90 55 00-0191	DAY		D-1000 Desiccant Dehumidifier For Emergency Clean-up.....	951.55	
02 90 55 00-0192	WK		D-1000 Desiccant Dehumidifier For Emergency Clean-up.....	2,616.77	
02 90 55 00-0193	MO		D-1000 Desiccant Dehumidifier For Emergency Clean-up.....	7,136.64	
02 90 55 00-0194	DAY		D-1500 Desiccant Dehumidifier For Emergency Clean-up.....	1,465.09	
02 90 55 00-0195	WK		D-1500 Desiccant Dehumidifier For Emergency Clean-up.....	4,028.99	
02 90 55 00-0196	MO		D-1500 Desiccant Dehumidifier For Emergency Clean-up.....	10,988.16	
02 90 55 00-0197	DAY		D-2000 Desiccant Dehumidifier For Emergency Clean-up.....	1,465.09	
02 90 55 00-0198	WK		D-2000 Desiccant Dehumidifier For Emergency Clean-up.....	4,028.99	
02 90 55 00-0199	MO		D-2000 Desiccant Dehumidifier For Emergency Clean-up.....	10,988.16	
02 90 55 00-0200	DAY		D-2250 Desiccant Dehumidifier For Emergency Clean-up.....	1,530.04	
02 90 55 00-0201	WK		D-2250 Desiccant Dehumidifier For Emergency Clean-up.....	4,207.60	
02 90 55 00-0202	MO		D-2250 Desiccant Dehumidifier For Emergency Clean-up.....	11,475.26	
02 90 55 00-0203	DAY		D-3000 Desiccant Dehumidifier For Emergency Clean-up.....	1,903.10	
02 90 55 00-0204	WK		D-3000 Desiccant Dehumidifier For Emergency Clean-up.....	5,233.54	
02 90 55 00-0205	MO		D-3000 Desiccant Dehumidifier For Emergency Clean-up.....	14,273.28	
02 90 55 00-0206	DAY		D-4500 Desiccant Dehumidifier For Emergency Clean-up.....	2,140.99	
02 90 55 00-0207	WK		D-4500 Desiccant Dehumidifier For Emergency Clean-up.....	5,887.73	
02 90 55 00-0208	MO		D-4500 Desiccant Dehumidifier For Emergency Clean-up.....	16,057.44	
02 90 55 00-0209	DAY		D-5000 Desiccant Dehumidifier For Emergency Clean-up.....	2,299.58	
02 90 55 00-0210	WK		D-5000 Desiccant Dehumidifier For Emergency Clean-up.....	6,323.86	
02 90 55 00-0211	MO		D-5000 Desiccant Dehumidifier For Emergency Clean-up.....	17,246.88	
02 90 55 00-0212	DAY		D-9000 Desiccant Dehumidifier For Emergency Clean-up.....	3,020.80	
02 90 55 00-0213	WK		D-9000 Desiccant Dehumidifier For Emergency Clean-up.....	8,307.20	
02 90 55 00-0214	MO		D-9000 Desiccant Dehumidifier For Emergency Clean-up.....	22,656.00	
02 90 55 00-0215	DAY		D-10500 Desiccant Dehumidifier For Emergency Clean-up.....	3,171.84	
02 90 55 00-0216	WK		D-10500 Desiccant Dehumidifier For Emergency Clean-up.....	8,722.56	
02 90 55 00-0217	MO		D-10500 Desiccant Dehumidifier For Emergency Clean-up.....	23,788.80	
02 90 55 00-0218	DAY		3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	515.42	
02 90 55 00-0219	WK		3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,417.42	
02 90 55 00-0220	MO		3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,865.68	
02 90 55 00-0221	DAY		5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	713.66	
02 90 55 00-0222	WK		5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,962.58	
02 90 55 00-0223	MO		5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	5,352.48	
02 90 55 00-0224	DAY		10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	951.55	
02 90 55 00-0225	WK		10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,616.77	
02 90 55 00-0226	MO		10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,136.64	
02 90 55 00-0227	DAY		25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,268.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0228 WK 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,489.02	
02 90 55 00-0229 MO 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	9,515.52	
02 90 55 00-0230 DAY 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,140.99	
02 90 55 00-0231 WK 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	5,887.73	
02 90 55 00-0232 MO 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	16,057.44	
02 90 55 00-0233 DAY 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,378.88	
02 90 55 00-0234 WK 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,541.92	
02 90 55 00-0235 MO 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	17,841.60	
02 90 55 00-0236 DAY 25' Flex Duct For Emergency Clean-up.....	31.72	
02 90 55 00-0237 WK 25' Flex Duct For Emergency Clean-up.....	87.23	
02 90 55 00-0238 MO 25' Flex Duct For Emergency Clean-up.....	237.89	
02 90 55 00-0239 DAY Hygrothermograph For Emergency Clean-up.....	47.05	
02 90 55 00-0240 WK Hygrothermograph For Emergency Clean-up.....	129.38	
02 90 55 00-0241 MO Hygrothermograph For Emergency Clean-up.....	352.86	
02 90 55 00-0242 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	7,455.20	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0243 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	20,501.79	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0244 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	55,913.98	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0245 Power Equipment (02 90 55 00-0022)		
02 90 55 00-0246 WK Up to 65 KVA Generator For Emergency Clean-up.....	981.76	
02 90 55 00-0247 WK >65 to 125 KVA Generator For Emergency Clean-up.....	1,661.44	
02 90 55 00-0248 WK >125 to 250 KVA Generator For Emergency Clean-up.....	1,618.84	
02 90 55 00-0249 WK >250 to 375 KVA Generator For Emergency Clean-up.....	2,794.24	
02 90 55 00-0250 WK >375 Up to 440 KVA Generator For Emergency Clean-up.....	3,776.00	
02 90 55 00-0251 WK >440 to 625 KVA Generator For Emergency Clean-up.....	5,680.15	
02 90 55 00-0252 WK >625 to 800 KVA Generator For Emergency Clean-up.....	5,815.04	
02 90 55 00-0253 WK >800 to 1,000 KVA Generator For Emergency Clean-up.....	7,778.56	
02 90 55 00-0254 WK >1,000 to 1,500 KVA Generator For Emergency Clean-up.....	11,705.60	
02 90 55 00-0255 EA Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....	25.37	
02 90 55 00-0256 EA Sub-Distribution Panel (Spider Box) For Emergency Clean-up.....	121.59	
02 90 55 00-0257 EA Electrical Distribution Panel For Emergency Clean-up.....	293.55	
02 90 55 00-0258 EA Quad Box Strings (25' Sections) For Emergency Clean-up.....	45.69	
02 90 55 00-0259 EA 50' Power Cord For Spider Box For Emergency Clean-up.....	42.29	
02 90 55 00-0260 EA Pig Tails (Per Each) For Emergency Clean-up.....	4.70	
02 90 55 00-0261 Freight Charges (02 90 55 00-0022)		
02 90 55 00-0262 MI Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	2.35	
02 90 55 00-0263 MI Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	4.23	
02 90 55 00-0264 MI Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment.....	4.23	
02 90 55 00-0265 MI Freight Tractor Trailer For Emergency Clean-up Equipment.....	6.12	
02 90 55 00-0266 Emergency Clean-up Personal Protection Equipment (02 90 55 00-0001)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0267 EA Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment.....	13.13	
02 90 55 00-0268 EA Respirator Cartridge For Emergency Clean-up Personal Protection Equipment.....	45.86	
02 90 55 00-0269 BOX Dust Mask For Emergency Clean-up Personal Protection Equipment.....	51.13	
02 90 55 00-0270 PR Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....	3.52	
02 90 55 00-0271 BOX 5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment.....	23.79	
02 90 55 00-0272 PR Leather Gloves For Emergency Clean-up Personal Protection Equipment.....	11.90	
02 90 55 00-0273 EA Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment.....	20.31	
02 90 55 00-0274 PR Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	13.92	
02 90 55 00-0275 EA Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment.....	101.30	
02 90 55 00-0276 PR Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....	6.10	
02 90 55 00-0277 EA Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment.....	7.93	
02 90 55 00-0278 Emergency Clean-up Expendables (02 90 55 00-0001)		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0279 General Materials (02 90 55 00-0278)		
02 90 55 00-0280 GAL Adhesive Remover For Emergency Clean-up.....	95.16	
02 90 55 00-0281 GAL Bio-HS For Emergency Clean-up.....	32.08	
02 90 55 00-0282 GAL Biocide For Emergency Clean-up.....	40.94	
02 90 55 00-0283 EA 10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....	5.01	
02 90 55 00-0284 EA 10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up.....	7.61	
02 90 55 00-0285 GAL Bleach For Emergency Clean-up.....	10.23	
02 90 55 00-0286 EA Small Stainless Brush For Emergency Clean-up.....	6.26	
02 90 55 00-0287 EA 2-1/2 Gallon Buckets For Emergency Clean-up.....	7.95	
02 90 55 00-0288 EA 5 Gallon Bucket For Emergency Clean-up.....	12.04	
02 90 55 00-0289 GAL Carpet Defoamer For Emergency Clean-up.....	30.98	
02 90 55 00-0290 GAL Carpet Pre-treat For Emergency Clean-up.....	23.17	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0291 GAL Carpet Spotter For Emergency Clean-up.....	38.83	
02 90 55 00-0292 GAL Carpet/Upholstery Cleaner For Emergency Clean-up.....	31.31	
02 90 55 00-0293 ROL Carpet Masking/Shield For Emergency Clean-up.....	86.86	
02 90 55 00-0294 EA Chemical Sponge For Emergency Clean-up.....	3.75	
02 90 55 00-0295 GAL Clear Seal For Emergency Clean-up.....	127.94	
02 90 55 00-0296 GAL Coil Cleaner For Emergency Clean-up.....	59.81	
02 90 55 00-0297 EA Comfort Masks, Per Box 50 For Emergency Clean-up Personal Protection Equipment.....	43.95	
02 90 55 00-0298 EA Hooded Coverall With Elastic Wrists/Ankles For Emergency Clean-up Personal Protection Equipment.....	19.44	
02 90 55 00-0299 EA Decontamination Chamber For Emergency Clean-up.....	260.09	
02 90 55 00-0300 GAL All Purpose Degreaser For Emergency Clean-up.....	41.87	
02 90 55 00-0301 GAL De-Foamer Liquid For Emergency Clean-up.....	55.03	
02 90 55 00-0302 EA Deodorization Membrane For Emergency Clean-up.....	107.89	
02 90 55 00-0303 GAL 9-D-9 Smoke Deodorizer For Emergency Clean-up.....	164.49	
02 90 55 00-0304 LB Deodorizing Gel For Emergency Clean-up.....	38.64	
02 90 55 00-0305 GAL Deodorizing Liquid For Emergency Clean-up.....	57.21	
02 90 55 00-0306 PAIL Deodorizing Block For Emergency Clean-up.....	9.71	
02 90 55 00-0307 GAL Disinfectant/Antimicrobial For Emergency Clean-up.....	100.27	
02 90 55 00-0308 GAL BruClean Disinfectant For Emergency Clean-up.....	30.45	
02 90 55 00-0309 GAL Dryclean For Emergency Clean-up.....	44.95	
02 90 55 00-0310 GAL Duct Sealant Spray For Emergency Clean-up.....	67.75	
02 90 55 00-0311 GAL Antifungal Duct Sealant For Emergency Clean-up.....	97.86	
02 90 55 00-0312 GAL Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up.....	148.33	
02 90 55 00-0313 PR Ear Plugs For Emergency Clean-up Personal Protection Equipment.....	0.61	
02 90 55 00-0314 GAL Encapsulant For Emergency Clean-up.....	102.70	
02 90 55 00-0315 GAL Aftershock Fiberlocke For Emergency Clean-up.....	90.18	
02 90 55 00-0316 GAL IAQ 2500 Fiberlocke For Emergency Clean-up.....	116.20	
02 90 55 00-0317 GAL IAS 6000 Fiberlocke For Emergency Clean-up.....	119.51	
02 90 55 00-0318 ROL Filter Material For Emergency Clean-up.....	233.27	
02 90 55 00-0319 EA Blue Paper Collection Bag Filter For Emergency Clean-up.....	6.28	
02 90 55 00-0320 EA CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	498.92	
02 90 55 00-0321 EA Pre-Filter For Negative Air Machine For Emergency Clean-up.....	2.39	
02 90 55 00-0322 EA Pleated Filter For Negative Air Machine For Emergency Clean-up.....	10.66	
02 90 55 00-0323 EA Charcoal Filter For Negative Air Machine For Emergency Clean-up.....	37.94	
02 90 55 00-0324 EA High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up.....	360.85	
02 90 55 00-0325 EA Pleated Dehumidifier Filter For Emergency Clean-up.....	9.52	
02 90 55 00-0326 GAL Floor Stripper For Emergency Clean-up.....	21.08	
02 90 55 00-0327 GAL Floor Wax For Emergency Clean-up.....	30.11	
02 90 55 00-0328 GAL Fogger (Thermal) For Emergency Clean-up.....	174.46	
02 90 55 00-0329 BOX Furniture Blocks For Emergency Clean-up.....	140.52	
02 90 55 00-0330 EA Furniture Polish, Per 10 Oz Can For Emergency Clean-up.....	18.93	
02 90 55 00-0331 GAL Glass Cleaner For Emergency Clean-up.....	12.63	
02 90 55 00-0332 PR Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	22.96	
02 90 55 00-0333 EA Goof Off Spray, 12 Oz For Emergency Clean-up.....	15.10	
02 90 55 00-0334 EA Halogen Light Bulbs For Emergency Clean-up.....	21.50	
02 90 55 00-0335 QT Hand Sanitizer For Emergency Clean-up.....	10.63	
02 90 55 00-0336 EA Hard Hats For Emergency Clean-up Personal Protection Equipment.....	8.75	
02 90 55 00-0337 BOX Hog Rings, Box Of 2,500 For Emergency Clean-up.....	18.40	
02 90 55 00-0338 GAL HVAC Coal Cleaner For Emergency Clean-up.....	59.81	
02 90 55 00-0339 BOX Inventory Tag, Box Of 1,000 For Emergency Clean-up.....	129.45	
02 90 55 00-0340 EA Utility Knives For Emergency Clean-up.....	16.56	
02 90 55 00-0341 ROL 13" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	111.04	
02 90 55 00-0342 ROL 20" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	117.23	
02 90 55 00-0343 ROL 29" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	233.41	
02 90 55 00-0344 ROL 39" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	337.38	
02 90 55 00-0345 GAL Lemon Oil For Emergency Clean-up.....	50.75	
02 90 55 00-0346 GAL LPS 1/Mecca Lube For Emergency Clean-up.....	54.71	
02 90 55 00-0347 GAL LPS 2 For Emergency Clean-up.....	57.90	
02 90 55 00-0348 GAL LPS Contact Cleaner For Emergency Clean-up.....	57.63	
02 90 55 00-0349 GAL Light Lubricant Preserve For Emergency Clean-up.....	135.13	
02 90 55 00-0350 GAL Heavy Lubricant Preserver For Emergency Clean-up.....	30.11	
02 90 55 00-0351 GAL Machinery Cleaning Solvent For Emergency Clean-up.....	242.97	
02 90 55 00-0352 GAL Metal Polishing Paste For Emergency Clean-up.....	25.01	
02 90 55 00-0353 GAL MediClean® Disinfectant For Emergency Clean-up.....	60.85	
02 90 55 00-0354 GAL Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up.....	74.69	
02 90 55 00-0355 EA Mop Heads For Emergency Clean-up.....	9.01	
02 90 55 00-0356 EA Nylon Scouring Pads For Emergency Clean-up.....	1.66	
02 90 55 00-0357 GAL Odor Neutralizer For Emergency Clean-up.....	38.83	
02 90 55 00-0358 EA Packing Paper, 25 LB Bundle For Emergency Clean-up.....	67.32	
02 90 55 00-0359 EA Paint Brushes For Emergency Clean-up.....	7.53	
02 90 55 00-0360 ROL Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up.....	156.98	
02 90 55 00-0361 EA Putty Knives For Emergency Clean-up.....	6.82	
02 90 55 00-0362 ROL Red Resin Paper, 200' Roll For Emergency Clean-up.....	34.26	
02 90 55 00-0363 GAL Reodorant For Emergency Clean-up.....	127.97	
02 90 55 00-0364 EA N95 Respirator For Emergency Clean-up Personal Protection Equipment.....	4.38	
02 90 55 00-0365 EA N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment.....	6.80	
02 90 55 00-0366 PR 3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	45.65	
02 90 55 00-0367 PR P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	45.65	
02 90 55 00-0368 EA Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment.....	36.52	
02 90 55 00-0369 GAL Restoracide For Emergency Clean-up.....	60.03	
02 90 55 00-0370 GAL Rust Remover For Emergency Clean-up.....	88.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0371 EA Saltesmo Test Samples For Emergency Clean-up	8.25	
02 90 55 00-0372 EA Sand Bag For Emergency Clean-up	2.16	
Note: Excludes sand material		
02 90 55 00-0373 EA Scotch-Brite 7447, Per Box 50 For Emergency Clean-up	26.96	
02 90 55 00-0374 EA Small Scrub Brushes For Emergency Clean-up	14.40	
02 90 55 00-0375 GAL Clear Soot Sealant For Emergency Clean-up	103.00	
02 90 55 00-0376 GAL Pigmented Soot Sealant For Emergency Clean-up	277.77	
02 90 55 00-0377 ROL Shrinkwrap Plastic For Emergency Clean-up	63.94	
02 90 55 00-0378 EA Dry Sponges For Emergency Clean-up	5.01	
02 90 55 00-0379 EA Spray Adhesive, Per Can For Emergency Clean-up	6.67	
02 90 55 00-0380 EA Spray Bot./Trigger For Emergency Clean-up	5.81	
02 90 55 00-0381 GAL Stain Remover For Emergency Clean-up	35.07	
02 90 55 00-0382 GAL Stainless Steel Cleaner For Emergency Clean-up	12.57	
02 90 55 00-0383 EA Stainless Steel Polish, Per Can For Emergency Clean-up	16.49	
02 90 55 00-0384 LB Sweeping Compound For Emergency Clean-up	0.55	
02 90 55 00-0385 ROL Duct Tape, 2" x 50 YD For Emergency Clean-up	13.05	
02 90 55 00-0386 ROL Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up	12.28	
02 90 55 00-0387 ROL HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up	33.12	
02 90 55 00-0388 ROL Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up	17.47	
02 90 55 00-0389 ROL Poly Box Tape, 2" x 110 YD For Emergency Clean-up	5.39	
02 90 55 00-0390 LB Terry Towels For Emergency Clean-up	7.75	
02 90 55 00-0391 GAL Thermal Fog For Emergency Clean-up	78.91	
02 90 55 00-0392 ROL Lawn And Leaf Trash Bags For Emergency Clean-up	40.60	
02 90 55 00-0393 ROL 6 Mil Heavy Duty Trash Bags (50 Count) For Emergency Clean-up	161.91	
02 90 55 00-0394 EA Trisodium Phosphate, 20 LB Pail For Emergency Clean-up	54.94	
02 90 55 00-0395 EA Backpack Vacuum Bags For Emergency Clean-up	1.85	
02 90 55 00-0396 EA Upright Vacuum Bags For Emergency Clean-up	2.47	
02 90 55 00-0397 GAL Vinyl And Leather Cleaner For Emergency Clean-up	31.31	
02 90 55 00-0398 ROL 1 Mil Visqueen, 12' x 400', For Emergency Clean-up	52.60	
02 90 55 00-0399 ROL 4 Mil Visqueen, 32' x 100', For Emergency Clean-up	142.82	
02 90 55 00-0400 ROL 6 Mil Visqueen, 32' x 400', For Emergency Clean-up	194.88	
02 90 55 00-0401 LB Wipes, Cotton Cloth For Emergency Clean-up	5.52	
02 90 55 00-0402 ROL 12" x 750', Wrap, Bubble/Anti-Static For Emergency Clean-up	160.40	
02 90 55 00-0403 EA Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up	15.66	
02 90 55 00-0404 EA Zip Wall Zippers For Emergency Clean-up	24.35	
02 90 55 00-0405 Technical/Electronics Restoration Materials <small>(02 90 55 00-0278)</small>		
02 90 55 00-0406 EA Brush - Brass For Emergency Clean-up	5.65	
02 90 55 00-0407 EA 1" Brush, Natural Bristle For Emergency Clean-up	1.81	
02 90 55 00-0408 EA 1/2" Brush, Natural Bristle For Emergency Clean-up	1.51	
02 90 55 00-0409 EA 1/4" Brush, Natural Bristle For Emergency Clean-up	1.28	
02 90 55 00-0410 EA Brush - Parts For Emergency Clean-up	7.83	
02 90 55 00-0411 EA Brush - Plastic For Emergency Clean-up	4.06	
02 90 55 00-0412 EA Brush - Wire Grout For Emergency Clean-up	8.22	
02 90 55 00-0413 EA Brushing Tool For Emergency Clean-up	15.85	
02 90 55 00-0414 EA Cleaning Swabs, Cotton For Emergency Clean-up	0.38	
02 90 55 00-0415 EA Cleaning Swabs, Foam Tip For Emergency Clean-up	0.45	
02 90 55 00-0416 EA Contact Restorer, Per Can For Emergency Clean-up	34.23	
02 90 55 00-0417 EA Contact Spray, Per Can For Emergency Clean-up	23.29	
02 90 55 00-0418 UNT Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up	3.61	
02 90 55 00-0419 UNT Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up	10.35	
02 90 55 00-0420 UNT Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up	13.41	
02 90 55 00-0421 LB Cotton Cleaning Cloths For Emergency Clean-up	21.17	
02 90 55 00-0422 EA 12" x 17" Dust Cloths For Emergency Clean-up	0.33	
02 90 55 00-0423 EA 24" x 24" Dust Cloths For Emergency Clean-up	0.93	
02 90 55 00-0424 EA Deoxidizing Agent, Per Can For Emergency Clean-up	16.58	
02 90 55 00-0425 GAL Electronic Grade Detergent For Emergency Clean-up	35.23	
02 90 55 00-0426 SHT Inventory Labels For Emergency Clean-up	0.19	
02 90 55 00-0427 GAL Isopropyl Alcohol For Emergency Clean-up	93.35	
02 90 55 00-0428 GAL Lubrication/Penetrating Oil, Per Can For Emergency Clean-up	136.12	
02 90 55 00-0429 GAL PC Board Detergent For Emergency Clean-up	96.68	
02 90 55 00-0430 GAL Rust Inhibitor, Regular Duty For Emergency Clean-up	157.01	
02 90 55 00-0431 GAL Rust Inhibitor, Moderate Duty For Emergency Clean-up	158.18	
02 90 55 00-0432 GAL Rust Inhibitor, Severe Duty For Emergency Clean-up	169.08	
02 90 55 00-0433 LB Wipes, Lint Free Cloths For Emergency Clean-up	5.93	
02 90 55 00-0434 EA Wire Marker Card For Emergency Clean-up	2.63	
02 90 55 00-0435 EA Steel Wool, 16 Pad Sleeve For Emergency Clean-up	1.33	

END OF SECTION 02

02

02 Existing Conditions

02 90 Disaster Recovery

02 90 55 Emergency Clean-up



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 Concrete

03 01 Maintenance of Concrete (03)

03 01 30 Maintenance of Cast-In-Place Concrete (03 01)

03 01 30 51 **Cleaning of Cast-In-Place Concrete** (03 01 30)

03 01 30 51-0001	Abrasive Blasting <small>(03 01 30 51)</small> Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.09
	<i>For Up To 100, Add</i>	2.76
	<i>For >100 To 250, Add</i>	0.69
	<i>For >250 To 500, Add</i>	0.35
	<i>For >5,000 To 10,000, Deduct</i>	-0.07
	<i>For >10,000, Deduct</i>	-0.14
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	4.47
	<i>For Up To 100, Add</i>	5.52
	<i>For >100 To 250, Add</i>	1.38
	<i>For >250 To 500, Add</i>	0.69
	<i>For >5,000 To 10,000, Deduct</i>	-0.14
	<i>For >10,000, Deduct</i>	-0.28

03 01 30 71 **Rehabilitation of Cast-In-Place Concrete** (03 01 30)

03 01 30 71-0001	Concrete Resurfacing/Repair <small>(03 01 30 71)</small> See CSI section 09 01 90 52-0002 for surface preparation as required.	
03 01 30 71-0002	Concrete Repair <small>(03 01 30 71-0001)</small>	
03 01 30 71-0003	Decks Or Floors <small>(03 01 30 71-0002)</small> Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	6.80
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	24.64
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.66
03 01 30 71-0007	Verticals Or Overheads <small>(03 01 30 71-0002)</small> Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar.....	9.97
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar.....	31.67
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	36.21
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound.....	7.66
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	13.50
	Note: Rapid Set - WunderFixx	
03 01 30 71-0013	Bridge Deck Treatment <small>(03 01 30 71-0002)</small>	
03 01 30 71-0014	SF Sweep Bridge Deck.....	0.02
03 01 30 71-0015	SF Clean Bridge Deck.....	0.02
03 01 30 71-0016	SF Treat Bridge Deck With Methacrylate Resin Sealant.....	1.87
03 01 30 71-0017	Concrete Finishes <small>(03 01 30 71-0001)</small>	
03 01 30 71-0018	Concrete Patching <small>(03 01 30 71-0017)</small>	
03 01 30 71-0019	Walls <small>(03 01 30 71-0018)</small>	
03 01 30 71-0020	BAG Sika Top 111 Plus.....	144.14
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	<i>For Up To 10, Add</i>	51.23
	<i>For >10 To 25, Add</i>	30.74
	<i>For >25 To 50, Add</i>	20.49
	<i>For >50 To 75, Add</i>	10.25
03 01 30 71-0021	BAG Sika Grout 212, 50 LB Bag.....	99.66
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	<i>For Up To 10, Add</i>	32.46
	<i>For >10 To 25, Add</i>	19.47
	<i>For >25 To 50, Add</i>	12.98
	<i>For >50 To 75, Add</i>	6.49
03 01 30 71-0022	EA Sika Flex 1A, 10.3 Ounce Tube.....	35.18
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0023	BAG Pea Gravel.....	26.08

03 01 30 71-0024 Crack Repair For Concrete (03 01 30 71-0001)

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 01 30 71-0025	Non Structural Crack Repair For Concrete (03 01 30 71-0024)	
03 01 30 71-0026	Surface Applied, Non Structural Crack Repair For Concrete (03 01 30 71-0025) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.	
03 01 30 71-0027	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.68
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0028	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	7.43
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0029	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.79
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.65
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0031	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	6.20
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	8.46
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0033	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	6.50
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	9.06
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0035	Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0025) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0036	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	25.37
	<i>For Cracks Accessible From Both Sides, Add</i>	5.16
03 01 30 71-0037	Structural Crack Repair For Concrete (03 01 30 71-0024)	
03 01 30 71-0038	Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0037) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.	
03 01 30 71-0039	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	6.57
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0040	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	9.21
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0041	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	6.44
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	8.93
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0043	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	7.74
	<i>For V-Grooving Crack With Grinder, Add</i>	4.55
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	11.54
	<i>For V-Grooving Crack With Grinder, Add</i>	4.44
03 01 30 71-0045	Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0037) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0046	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	22.20
	<i>For Cracks Accessible From Both Sides, Add</i>	5.16
03 01 30 71-0047	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	22.06
	<i>For Cracks Accessible From Both Sides, Add</i>	5.16
03 01 30 71-0048	Pool Deck Texture Repair (03 01 30 71-0001)	
03 01 30 71-0049	SF Pool Deck Texture Repair.....	16.01
	Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0050 Carbon Fiber Strengthening System <small>(03 01 30 71-0001)</small>		
<small>Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.</small>		
03 01 30 71-0051 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer	78.96	
<small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>		
03 01 30 71-0052 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer	69.53	
<small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>		
03 01 30 71-0053 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer.....	64.22	
<small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>		
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Walls, Per Layer	61.28	
<small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>		
03 01 30 71-0055 Corrosive Inhibitor <small>(03 01 30 71)</small>		
03 01 30 71-0056 SF Corrosive Inhibitor.....	4.83	
03 01 30 72 Strengthening Of Cast-in-Place Concrete <small>(03 01 30)</small>		
03 01 30 72-0001 Concrete Surface Repairs <small>(03 01 30 72)</small>		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.34	

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001 Concrete Admixtures (03 05 13)

03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	5.40
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	3.74
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	5.82
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	11.64
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	10.39
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	20.78
03 05 13 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	4.49
03 05 13 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	6.23
03 05 13 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	12.47
03 05 13 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	7.64
03 05 13 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	9.97
03 05 13 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	13.30
03 05 13 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture.....	26.57
03 05 13 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture	66.49
03 05 13 00-0016 CY Corrosion Inhibiting Concrete Admixture	24.93
03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add.....	5.82
03 05 13 00-0018 CY Chilled Water, Concrete Add	5.82
03 05 13 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	33.66
03 05 13 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	56.10
03 05 13 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture	107.71
03 05 13 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	149.60

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13)

Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.

03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)

Note: For foundation work below or at grade.

03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork.....	8.30
<small>For <1,000, Add</small>	
<small>For Foundations >8' Below Grade, Add</small>	1.55
<small>For Curved Formwork, Add</small>	1.49
<small>For Curved Formwork, Add</small>	2.98
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	9.87
<small>For <1,000, Add</small>	
<small>For Foundations >8' Below Grade, Add</small>	1.85
<small>For Curved Formwork, Add</small>	1.79
<small>For Curved Formwork, Add</small>	3.59
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	11.53
<small>For <1,000, Add</small>	
<small>For Foundations >8' Below Grade, Add</small>	2.18
<small>For Curved Formwork, Add</small>	2.12
<small>For Curved Formwork, Add</small>	4.24
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork	9.69
<small>For <1,000, Add</small>	
<small>For Foundations >8' Below Grade, Add</small>	1.81
<small>For Foundations >8' Below Grade, Add</small>	1.75
<small>For Curved Formwork, Add</small>	3.50

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0007	SF		Below Grade Walls Foundation Wood Formwork Note: Excludes footing	13.70	
			For <1,000, Add	2.56	
			For Foundations >8' Below Grade, Add	2.47	
			For Curved Formwork, Add	4.95	
03 11 13 00-0008			Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009	LF		Up To 6" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add For Curved Formwork, Add For Up To 250, Add	6.38 1.18 2.37 1.22	
03 11 13 00-0010	LF		>6" To 12" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add For Curved Formwork, Add For Up To 250, Add	9.17 1.65 3.31 1.71	
03 11 13 00-0011	SF		>12" High Slab Edge and Block-Out Wood Formwork For Foundations >8' Below Grade, Add For Curved Formwork, Add For <1,000, Add	11.91 2.15 4.29 2.23	
03 11 13 00-0012			Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF		Up To 8" Square Column Wood Formwork.....	49.52	
03 11 13 00-0014	LF		>8" To 12" Square Column Wood Formwork.....	72.82	
03 11 13 00-0015	LF		>12" To 18" Square Column Wood Formwork.....	91.51	
03 11 13 00-0016	LF		>18" To 24" Square Column Wood Formwork.....	130.90	
03 11 13 00-0017	LF		>24" To 36" Square Column Wood Formwork.....	187.80	
03 11 13 00-0018	LF		>36" To 48" Square Column Wood Formwork.....	247.89	
03 11 13 00-0019			Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF		Up To 8' High Above Grade Wall Wood Formwork..... For Curved Formwork, Add For <1,000, Add	15.28 5.58 2.88	
03 11 13 00-0021	SF		>8' High Above Grade Wall Wood Formwork For Curved Formwork, Add For <1,000, Add	18.06 6.61 3.41	
03 11 13 00-0022			Elevated Beam Wood Formwork (03 11 13 00-0001) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023	SF		Bottom of Elevated Beam Wood Formwork For Curved Formwork, Add For <1,000, Add	19.82 7.25 3.74	
03 11 13 00-0024	SF		Vertical Sides of Elevated Beam Wood Formwork..... For Curved Formwork, Add For <1,000, Add	12.69 4.64 2.39	
03 11 13 00-0025			Elevated Slab Wood Formwork (03 11 13 00-0001) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026	SF		Elevated Slab Wood Formwork..... For <1,000, Add	11.79 2.15	
03 11 13 00-0027			Metal Framed Formwork (03 11 13) Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028			Foundation Metal Framed Formwork (03 11 13 00-0027) Note: For foundation work below or at grade.		
03 11 13 00-0029	SF		Continuous Footings Foundation Metal Framed Formwork For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	7.59 1.40 1.34 2.68	
03 11 13 00-0030	SF		Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	8.42 1.56 1.50 3.01	
03 11 13 00-0031	SF		Mat Foundation Metal Framed Formwork For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	9.43 1.73 1.66 3.32	
03 11 13 00-0032	SF		Grade Beams Or Duct Bank Foundation Metal Framed Formwork..... For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	7.96 1.46 1.40 2.79	
03 11 13 00-0033	SF		Below Grade Walls Foundation Metal Framed Formwork..... Note: Excludes footing. For <1,000, Add For Foundations >8' Below Grade, Add For Curved Formwork, Add	12.13 2.26 2.18 4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork	5.41	
For Foundations >8' Below Grade, Add	1.06	
For Curved Formwork, Add	2.11	
For <250, Add	1.07	
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	6.78	
For Foundations >8' Below Grade, Add	1.31	
For Curved Formwork, Add	2.63	
For <250, Add	1.33	
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork.....	7.50	
For Foundations >8' Below Grade, Add	1.45	
For Curved Formwork, Add	2.90	
For <1,000, Add	1.47	
03 11 13 00-0038 Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039 Square Columns (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork	46.17	
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork	55.77	
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork	65.41	
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork	78.15	
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork	94.15	
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork	113.04	
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork	145.02	
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork	178.85	
03 11 13 00-0048 Round Columns (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork	45.10	
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork.....	50.18	
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork.....	57.62	
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork.....	67.22	
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork.....	79.38	
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork.....	90.93	
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork.....	117.76	
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork.....	153.41	
03 11 13 00-0057 Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork	7.44	
For Curved Formwork, Add	2.49	
For <1,000, Add	1.33	
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork.....	9.07	
For Curved Formwork, Add	3.00	
For <1,000, Add	1.60	
03 11 13 00-0060 Elevated Beam Metal Framed Formwork (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork	7.33	
For Curved Formwork, Add	2.31	
For <1,000, Add	1.26	
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork.....	5.54	
For Curved Formwork, Add	1.82	
For <1,000, Add	0.98	
03 11 13 00-0063 Elevated Slab Metal Framed Formwork (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork.....	9.72	
For <1,000, Add	1.50	
03 11 13 00-0065 Fiber Tube Formwork (03 11 13)		
Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
03 11 13 00-0066 Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork	19.05	
For Plastic Lined, Add	0.68	
For Columns >12' In Length, Add	1.91	
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork	20.08	
For Plastic Lined, Add	0.80	
For Columns >12' In Length, Add	2.01	
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork	22.17	
For Plastic Lined, Add	0.92	
For Columns >12' In Length, Add	2.22	
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork	26.11	
For Plastic Lined, Add	1.32	
For Columns >12' In Length, Add	2.61	
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork	29.47	
For Plastic Lined, Add	1.79	
For Columns >12' In Length, Add	2.95	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0072	LF		16" Diameter Round Fiber Tube Formwork .....31.88 <i>For Plastic Lined, Add</i> 2.26 <i>For Columns >12' In Length, Add</i> 3.19		
03 11 13 00-0073	LF		18" Diameter Round Fiber Tube Formwork .....33.48 <i>For Plastic Lined, Add</i> 2.46 <i>For Columns >12' In Length, Add</i> 3.35		
03 11 13 00-0074	LF		20" Diameter Round Fiber Tube Formwork .....36.45 <i>For Plastic Lined, Add</i> 3.07 <i>For Columns >12' In Length, Add</i> 3.65		
03 11 13 00-0075	LF		22" Diameter Round Fiber Tube Formwork .....39.87 <i>For Plastic Lined, Add</i> 3.70 <i>For Columns >12' In Length, Add</i> 3.99		
03 11 13 00-0076	LF		24" Diameter Round Fiber Tube Formwork .....43.30 <i>For Plastic Lined, Add</i> 4.34 <i>For Columns >12' In Length, Add</i> 4.33		
03 11 13 00-0077	LF		26" Diameter Round Fiber Tube Formwork .....45.14 <i>For Plastic Lined, Add</i> 4.73 <i>For Columns >12' In Length, Add</i> 4.51		
03 11 13 00-0078	LF		28" Diameter Round Fiber Tube Formwork .....47.96 <i>For Plastic Lined, Add</i> 5.42 <i>For Columns >12' In Length, Add</i> 4.80		
03 11 13 00-0079	LF		30" Diameter Round Fiber Tube Formwork .....51.00 <i>For Plastic Lined, Add</i> 6.17 <i>For Columns >12' In Length, Add</i> 5.10		
03 11 13 00-0080	LF		36" Diameter Round Fiber Tube Formwork .....61.77 <i>For Plastic Lined, Add</i> 8.84 <i>For Columns >12' In Length, Add</i> 6.18		
03 11 13 00-0081	LF		42" Diameter Round Fiber Tube Formwork .....83.72 <i>For Plastic Lined, Add</i> 15.01 <i>For Columns >12' In Length, Add</i> 8.37		
03 11 13 00-0082	LF		48" Diameter Round Fiber Tube Formwork .....99.52 <i>For Plastic Lined, Add</i> 19.34 <i>For Columns >12' In Length, Add</i> 9.95		
03 11 13 00-0083	LF		54" Diameter Round Fiber Tube Formwork .....164.44 <i>For Plastic Lined, Add</i> 38.16 <i>For Columns >12' In Length, Add</i> 16.44		
03 11 13 00-0084	LF		60" Diameter Round Fiber Tube Formwork .....182.66 <i>For Plastic Lined, Add</i> 43.12 <i>For Columns >12' In Length, Add</i> 18.27		
03 11 13 00-0085			Accessories For Formwork (03 11 13)		
03 11 13 00-0086			Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087	LF		2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....2.35		
03 11 13 00-0088			Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089	LF		1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....2.49		
03 11 13 00-0090	LF		3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....2.87		
03 11 13 00-0091	LF		1" Wide Chamfer Strips for Concrete Formwork, All Materials.....3.32		
03 11 13 00-0092			Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093	LF		24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....11.49		
03 11 13 00-0094			Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095	EA		2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal .....15.05		
03 11 13 00-0096	EA		4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal .....18.67		
03 11 13 00-0097	EA		6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal .....22.62		
03 11 13 00-0098	EA		8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal .....26.54		
03 11 13 00-0099	EA		12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal .....34.45		
03 11 13 00-0100	EA		18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal .....82.38		
03 11 16			Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13			Concrete Form Liners (03 11 16)		
03 11 16 13-0001			Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002	SF		Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....6.14		
03 11 16 13-0003	SF		Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork .....7.73		
03 11 16 13-0004	SF		Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....10.11		
03 11 23			Permanent Stair Forming (03 11)		
03 11 23 00-0001			Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002	SF		Cast On Grade Stairway Wood Formwork .....19.06 <i>For Curved Formwork, Add</i> 7.32 <i>For <1,000, Add</i> 3.71		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 11 23 00-0003	SF		Elevated Stairway Wood Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	38.20 14.38 7.34	
	03 11 23 00-0004			Stairway Metal Framed Formwork (03 11 23)		
	03 11 23 00-0005	SF		Cast On Grade Stairway Metal Framed Formwork <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	15.87 6.02 3.06	
	03 11 23 00-0006	SF		Elevated Stairway Metal Framed Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	29.35 11.16 5.68	
	03 15			Concrete Accessories (03 10)		
	03 15 13			Waterstops (03 15)		
	03 15 13 13			Non-Expanding Waterstops (03 15 13)		
	03 15 13 13-0001			Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)		
	03 15 13 13-0002	LF		3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	9.73	
	03 15 13 13-0003	LF		3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.06	
	03 15 13 13-0004	LF		3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	13.61	
	03 15 13 13-0005	LF		3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.09	
	03 15 13 13-0006	LF		1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	23.95	
	03 15 13 13-0007	LF		3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.40	
	03 15 13 13-0008	LF		3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.04	
	03 15 13 13-0009	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	26.39	
	03 15 13 13-0010	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	20.31	
	03 15 13 13-0011			Rubber Waterstops (03 15 13 13)		
	03 15 13 13-0012	LF		3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	9.91	
	03 15 13 13-0013	LF		3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	11.26	
	03 15 13 13-0014	LF		1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	10.07	
	03 15 13 13-0015	LF		1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	13.44	
	03 15 13 13-0016	LF		3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	11.50	
	03 15 13 13-0017	LF		3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	14.41	
	03 15 13 16			Expanding Waterstops (03 15 13)		
	03 15 13 16-0001			Bentonite Waterstops (03 15 13 16)		
	03 15 13 16-0002	LF		3/4" x 3/8" Bentonite Waterstop	8.87	
	03 15 13 16-0003	LF		1-1/4" x 1/2" Bentonite Waterstop	13.98	
	03 15 13 16-0004	LF		1" x 3/4" Bentonite Waterstop	15.79	
	03 15 13 16-0005	LF		1" x 1" Bentonite Waterstop	18.10	
	03 15 16			Concrete Construction Joints (03 15)		
	03 15 16 00-0001			Poured Expansion Joint (03 15 16)		
	03 15 16 00-0002	LF		1/2" x 1" Plain Asphalt Expansion Joint, Poured	2.75	0.79
				<i>For Installation In Walls, Add</i>	1.32	
	03 15 16 00-0003	LF		1" x 2" Plain Asphalt Expansion Joint, Poured	5.96	0.79
				<i>For Installation In Walls, Add</i>	1.48	
	03 15 16 00-0004	LF		1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.63	0.79
				<i>For Installation In Walls, Add</i>	1.32	
	03 15 16 00-0005	LF		1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	5.47	0.79
				<i>For Installation In Walls, Add</i>	1.48	
	03 15 16 00-0006	LF		1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.59	0.79
				<i>For Installation In Walls, Add</i>	1.48	
	03 15 16 00-0007	LF		1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	6.42	0.79
				<i>For Installation In Walls, Add</i>	2.40	
	03 15 16 00-0008	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.03	0.79
				<i>For Installation In Walls, Add</i>	1.32	
	03 15 16 00-0009	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	3.69	0.79
				<i>For Installation In Walls, Add</i>	1.32	
	03 15 16 00-0010	LF		1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	9.37	0.79
				<i>For Installation In Walls, Add</i>	1.48	
	03 15 16 00-0011			Premolded Expansion Joints (03 15 16)		
	03 15 16 00-0012			Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
	03 15 16 00-0013	LF		1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.51	1.17
	03 15 16 00-0014	LF		1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.84	1.23
	03 15 16 00-0015	LF		1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.05	1.29
	03 15 16 00-0016	LF		1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.27	1.35
	03 15 16 00-0017	LF		3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.70	1.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0018 LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.99	1.23
03 15 16 00-0019 LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.33	1.29
03 15 16 00-0020 LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.81	1.35
03 15 16 00-0021 LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.46	1.12
03 15 16 00-0022 LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.67	1.17
03 15 16 00-0023 LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.91	1.23
03 15 16 00-0024 LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.12	1.29
03 15 16 00-0025 LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.38	1.35
03 15 16 00-0026 LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.71	1.41
03 15 16 00-0027 LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.98	1.46
03 15 16 00-0028 LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.43	1.52
03 15 16 00-0029 LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.93	1.23
03 15 16 00-0030 LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.32	1.29
03 15 16 00-0031 LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.00	1.41
03 15 16 00-0032 SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	6.77	1.93
03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint.....	4.02	1.23
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint.....	4.52	1.35
03 15 16 00-0036 LF 1/2" x 8" Cork, Premolded Expansion Joint.....	4.88	1.41
03 15 16 00-0037 LF 1/2" x 10" Cork, Premolded Expansion Joint.....	6.69	1.46
03 15 16 00-0038 LF 1/2" x 12" Cork, Premolded Expansion Joint.....	7.11	1.52
03 15 16 00-0039 SF 1/2" Cork, Premolded Expansion Joint.....	7.92	1.93
03 15 16 00-0040 SF 3/4" Cork, Premolded Expansion Joint.....	9.09	1.93
03 15 16 00-0041 SF 1" Cork, Premolded Expansion Joint.....	9.62	1.93
03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043 LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.70	1.23
03 15 16 00-0044 LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.83	1.29
03 15 16 00-0045 LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.98	1.35
03 15 16 00-0046 LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.40	1.41
03 15 16 00-0047 LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.77	1.23
03 15 16 00-0048 LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.90	1.29
03 15 16 00-0049 LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.03	1.35
03 15 16 00-0050 LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.29	1.41
03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052 LF 1" Zip Strip, Premolded Expansion Joint.....	2.73	1.23
03 15 16 00-0053 LF 1-1/2" Zip Strip, Premolded Expansion Joint.....	2.97	1.29
03 15 16 00-0054 LF 2" Zip Strip, Premolded Expansion Joint.....	3.29	1.41
03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056 LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.38	1.17
03 15 16 00-0057 LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.24	1.17
03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059 SF Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.28	0.88
>1,250, Deduct	-0.06	
03 15 16 00-0060 SF Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.22	0.88
>1,250, Deduct	-0.06	
03 15 16 00-0061 Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062 24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063 LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	6.86	
03 15 16 00-0064 LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	7.01	
03 15 16 00-0065 LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	7.28	
03 15 16 00-0066 LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	7.75	
03 15 16 00-0067 LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	9.94	
03 15 19 Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001 Cast In Place Anchors (03 15 19)		
Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004 EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	8.75	
For Galvanized, Add	1.05	
For Stainless Steel, Add	7.35	
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.72	
For >100, Deduct	-1.44	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	9.85	
For Galvanized, Add	1.34	
For Stainless Steel, Add	9.38	
For >10 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-0.78	
For >100, Deduct	-1.57	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	11.45	
For Galvanized, Add	1.85	
For Stainless Steel, Add	12.92	
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.87	
For >100, Deduct	-1.74	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	12.57	
For Galvanized, Add	2.41	
For Stainless Steel, Add	16.84	
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.90	
For >100, Deduct	-1.79	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	14.91	
For Galvanized, Add	3.22	
For Stainless Steel, Add	22.51	
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-1.01	
For >100, Deduct	-2.02	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.67	
For Galvanized, Add	3.68	
For Stainless Steel, Add	25.73	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.12	
For >100, Deduct	-2.23	
03 15 19 00-0010 3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.61	
For Galvanized, Add	3.65	
For Stainless Steel, Add	25.52	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.11	
For >100, Deduct	-2.23	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.85	
For Galvanized, Add	4.25	
For Stainless Steel, Add	29.75	
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.50	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	22.54	
For Galvanized, Add	5.45	
For Stainless Steel, Add	38.12	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.44	
For >100, Deduct	-2.87	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.77	
For Galvanized, Add	6.86	
For Stainless Steel, Add	48.02	
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.30	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.62	
For Galvanized, Add	4.99	
For Stainless Steel, Add	34.90	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.41	
For >100, Deduct	-2.83	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	25.25	
For Galvanized, Add	5.97	
For Stainless Steel, Add	41.79	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.63	
For >100, Deduct	-3.26	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.44	
For Galvanized, Add	7.96	
For Stainless Steel, Add	55.69	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.95	
For >100, Deduct	-3.90	
03 15 19 00-0018 1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.21	
For Galvanized, Add	6.45	
For Stainless Steel, Add	45.15	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.31	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.05	
			<i>For Galvanized, Add</i>	7.76	
			<i>For Stainless Steel, Add</i>	54.32	
			<i>For >10 To 50, Deduct</i>	-0.78	
			<i>For >50 To 100, Deduct</i>	-1.94	
			<i>For >100, Deduct</i>	-3.88	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	38.08	
			<i>For Galvanized, Add</i>	9.73	
			<i>For Stainless Steel, Add</i>	68.08	
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.35	
			<i>For >100, Deduct</i>	-4.70	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	47.06	
			<i>For Galvanized, Add</i>	11.89	
			<i>For Stainless Steel, Add</i>	83.20	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.85	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	30.74	
			<i>For Galvanized, Add</i>	8.06	
			<i>For Stainless Steel, Add</i>	56.42	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-1.87	
			<i>For >100, Deduct</i>	-3.73	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.44	
			<i>For Galvanized, Add</i>	9.70	
			<i>For Stainless Steel, Add</i>	67.90	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100, Deduct</i>	-4.38	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	44.78	
			<i>For Galvanized, Add</i>	12.16	
			<i>For Stainless Steel, Add</i>	85.12	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.65	
			<i>For >100, Deduct</i>	-5.31	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	55.28	
			<i>For Galvanized, Add</i>	14.86	
			<i>For Stainless Steel, Add</i>	103.99	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-3.30	
			<i>For >100, Deduct</i>	-6.60	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.34	
			<i>For Galvanized, Add</i>	10.08	
			<i>For Stainless Steel, Add</i>	70.53	
			<i>For >10 To 50, Deduct</i>	-0.81	
			<i>For >50 To 100, Deduct</i>	-2.12	
			<i>For >100, Deduct</i>	-4.25	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.13	
			<i>For Galvanized, Add</i>	12.13	
			<i>For Stainless Steel, Add</i>	84.91	
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-2.49	
			<i>For >100, Deduct</i>	-4.99	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.07	
			<i>For Galvanized, Add</i>	15.21	
			<i>For Stainless Steel, Add</i>	106.44	
			<i>For >10 To 50, Deduct</i>	-1.13	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.05	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	65.46	
			<i>For Galvanized, Add</i>	18.57	
			<i>For Stainless Steel, Add</i>	129.99	
			<i>For >10 To 50, Deduct</i>	-1.42	
			<i>For >50 To 100, Deduct</i>	-3.76	
			<i>For >100, Deduct</i>	-7.52	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.34	
			<i>For Galvanized, Add</i>	12.60	
			<i>For Stainless Steel, Add</i>	88.17	
			<i>For >10 To 50, Deduct</i>	-0.91	
			<i>For >50 To 100, Deduct</i>	-2.44	
			<i>For >100, Deduct</i>	-4.89	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	51.50	
			<i>For Galvanized, Add</i>	15.16	
			<i>For Stainless Steel, Add</i>	106.12	
			<i>For >10 To 50, Deduct</i>	-1.06	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100, Deduct</i>	-5.75	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0034 EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	63.44	
For Galvanized, Add	19.01	
For Stainless Steel, Add	133.07	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-3.49	
For >100, Deduct	-6.99	
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	78.18	
For Galvanized, Add	23.21	
For Stainless Steel, Add	162.47	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-4.34	
For >100, Deduct	-8.67	
03 15 19 00-0036 L-Type Anchor Bolts (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0037 3/4" And 7/8" Diameter (03 15 19 00-0036)		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	15.93	
For Galvanized, Add	2.79	
For Stainless Steel, Add	19.53	
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.35	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	18.54	
For Galvanized, Add	3.45	
For Stainless Steel, Add	24.12	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.34	
For >100, Deduct	-2.67	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	21.21	
For Galvanized, Add	3.95	
For Stainless Steel, Add	27.65	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	23.73	
For Galvanized, Add	4.10	
For Stainless Steel, Add	28.70	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.52	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	27.24	
For Galvanized, Add	4.31	
For Stainless Steel, Add	30.14	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.08	
For >100, Deduct	-4.16	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	18.56	
For Galvanized, Add	3.46	
For Stainless Steel, Add	24.19	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.34	
For >100, Deduct	-2.68	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	21.36	
For Galvanized, Add	4.03	
For Stainless Steel, Add	28.18	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	24.77	
For Galvanized, Add	4.62	
For Stainless Steel, Add	32.34	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.57	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	28.22	
For Galvanized, Add	4.80	
For Stainless Steel, Add	33.57	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.10	
For >100, Deduct	-4.21	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	33.36	
For Galvanized, Add	5.04	
For Stainless Steel, Add	35.25	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.58	
For >100, Deduct	-5.16	
03 15 19 00-0048 1" And 1-1/8" Diameter (03 15 19 00-0036)		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.18	
			<i>For Galvanized, Add</i>	4.44	
			<i>For Stainless Steel, Add</i>	31.05	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.11	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.50	
			<i>For Galvanized, Add</i>	4.99	
			<i>For Stainless Steel, Add</i>	34.90	
			<i>For >10 To 50, Deduct</i>	-0.78	
			<i>For >50 To 100, Deduct</i>	-1.80	
			<i>For >100, Deduct</i>	-3.60	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.78	
			<i>For Galvanized, Add</i>	5.58	
			<i>For Stainless Steel, Add</i>	39.03	
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.14	
			<i>For >100, Deduct</i>	-4.28	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.93	
			<i>For Galvanized, Add</i>	5.84	
			<i>For Stainless Steel, Add</i>	40.88	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.32	
			<i>For >100, Deduct</i>	-4.63	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.52	
			<i>For Galvanized, Add</i>	6.12	
			<i>For Stainless Steel, Add</i>	42.81	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-2.63	
			<i>For >100, Deduct</i>	-5.27	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.05	
			<i>For Galvanized, Add</i>	7.09	
			<i>For Stainless Steel, Add</i>	49.60	
			<i>For >10 To 50, Deduct</i>	-1.29	
			<i>For >50 To 100, Deduct</i>	-2.94	
			<i>For >100, Deduct</i>	-5.88	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	47.64	
			<i>For Galvanized, Add</i>	8.29	
			<i>For Stainless Steel, Add</i>	58.03	
			<i>For >10 To 50, Deduct</i>	-1.55	
			<i>For >50 To 100, Deduct</i>	-3.52	
			<i>For >100, Deduct</i>	-7.04	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.19	
			<i>For Galvanized, Add</i>	5.83	
			<i>For Stainless Steel, Add</i>	40.81	
			<i>For >10 To 50, Deduct</i>	-0.78	
			<i>For >50 To 100, Deduct</i>	-1.84	
			<i>For >100, Deduct</i>	-3.69	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.68	
			<i>For Galvanized, Add</i>	6.53	
			<i>For Stainless Steel, Add</i>	45.68	
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100, Deduct</i>	-4.38	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.91	
			<i>For Galvanized, Add</i>	6.83	
			<i>For Stainless Steel, Add</i>	47.81	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.37	
			<i>For >100, Deduct</i>	-4.73	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.73	
			<i>For Galvanized, Add</i>	7.05	
			<i>For Stainless Steel, Add</i>	49.35	
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.22	
			<i>For >100, Deduct</i>	-4.43	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.79	
			<i>For Galvanized, Add</i>	8.25	
			<i>For Stainless Steel, Add</i>	57.75	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.48	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	43.21	
			<i>For Galvanized, Add</i>	9.35	
			<i>For Stainless Steel, Add</i>	65.42	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.84	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	46.99	
For Galvanized, Add	10.56	
For Stainless Steel, Add	73.89	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.23	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	52.08	
For Galvanized, Add	11.48	
For Stainless Steel, Add	80.36	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-3.49	
For >100, Deduct	-6.97	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.86	
For Galvanized, Add	12.29	
For Stainless Steel, Add	86.03	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-3.94	
For >100, Deduct	-7.89	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	65.13	
For Galvanized, Add	13.16	
For Stainless Steel, Add	92.09	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.54	
For >100, Deduct	-9.08	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	75.69	
For Galvanized, Add	14.55	
For Stainless Steel, Add	101.85	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-5.39	
For >100, Deduct	-10.77	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	36.26	
For Galvanized, Add	8.82	
For Stainless Steel, Add	61.71	
For >10 To 50, Deduct	-0.93	
For >50 To 100, Deduct	-2.30	
For >100, Deduct	-4.61	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	43.92	
For Galvanized, Add	10.32	
For Stainless Steel, Add	72.21	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.84	
For >100, Deduct	-5.69	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	47.88	
For Galvanized, Add	11.68	
For Stainless Steel, Add	81.76	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-3.04	
For >100, Deduct	-6.07	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	52.26	
For Galvanized, Add	13.19	
For Stainless Steel, Add	92.33	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-3.25	
For >100, Deduct	-6.50	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.82	
For Galvanized, Add	14.35	
For Stainless Steel, Add	100.45	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-3.63	
For >100, Deduct	-7.26	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	64.02	
For Galvanized, Add	15.37	
For Stainless Steel, Add	107.59	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-4.10	
For >100, Deduct	-8.19	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	71.98	
For Galvanized, Add	16.58	
For Stainless Steel, Add	116.06	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.71	
For >100, Deduct	-9.42	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	82.97	
For Galvanized, Add	18.19	
For Stainless Steel, Add	127.33	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-5.57	
For >100, Deduct	-11.14	

03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0077	EA		1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.62	
			<i>For Galvanized, Add</i>	12.22	
			<i>For Stainless Steel, Add</i>	85.54	
			<i>For >10 To 50, Deduct</i>	-1.06	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100, Deduct</i>	-5.46	
03 15 19 00-0078	EA		1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	50.15	
			<i>For Galvanized, Add</i>	12.82	
			<i>For Stainless Steel, Add</i>	89.71	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.09	
			<i>For >100, Deduct</i>	-6.19	
03 15 19 00-0079	EA		1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	55.60	
			<i>For Galvanized, Add</i>	14.10	
			<i>For Stainless Steel, Add</i>	98.70	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100, Deduct</i>	-6.89	
03 15 19 00-0080	EA		1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	59.93	
			<i>For Galvanized, Add</i>	15.41	
			<i>For Stainless Steel, Add</i>	107.84	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-3.68	
			<i>For >100, Deduct</i>	-7.36	
03 15 19 00-0081	EA		1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.48	
			<i>For Galvanized, Add</i>	16.71	
			<i>For Stainless Steel, Add</i>	116.97	
			<i>For >10 To 50, Deduct</i>	-1.55	
			<i>For >50 To 100, Deduct</i>	-3.94	
			<i>For >100, Deduct</i>	-7.88	
03 15 19 00-0082	EA		1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	71.78	
			<i>For Galvanized, Add</i>	17.97	
			<i>For Stainless Steel, Add</i>	125.79	
			<i>For >10 To 50, Deduct</i>	-1.79	
			<i>For >50 To 100, Deduct</i>	-4.48	
			<i>For >100, Deduct</i>	-8.97	
03 15 19 00-0083	EA		1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	81.24	
			<i>For Galvanized, Add</i>	19.44	
			<i>For Stainless Steel, Add</i>	136.08	
			<i>For >10 To 50, Deduct</i>	-2.12	
			<i>For >50 To 100, Deduct</i>	-5.21	
			<i>For >100, Deduct</i>	-10.42	
03 15 19 00-0084	EA		1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	94.88	
			<i>For Galvanized, Add</i>	21.56	
			<i>For Stainless Steel, Add</i>	150.92	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-6.25	
			<i>For >100, Deduct</i>	-12.51	
03 15 19 00-0085	EA		1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	60.06	
			<i>For Galvanized, Add</i>	18.39	
			<i>For Stainless Steel, Add</i>	128.70	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-3.25	
			<i>For >100, Deduct</i>	-6.50	
03 15 19 00-0086	EA		1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.45	
			<i>For Galvanized, Add</i>	18.79	
			<i>For Stainless Steel, Add</i>	131.50	
			<i>For >10 To 50, Deduct</i>	-1.29	
			<i>For >50 To 100, Deduct</i>	-3.53	
			<i>For >100, Deduct</i>	-7.05	
03 15 19 00-0087	EA		1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	65.57	
			<i>For Galvanized, Add</i>	19.09	
			<i>For Stainless Steel, Add</i>	133.60	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-3.69	
			<i>For >100, Deduct</i>	-7.39	
03 15 19 00-0088	EA		1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	73.21	
			<i>For Galvanized, Add</i>	22.05	
			<i>For Stainless Steel, Add</i>	154.32	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-4.01	
			<i>For >100, Deduct</i>	-8.03	
03 15 19 00-0089	EA		1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	84.18	
			<i>For Galvanized, Add</i>	25.45	
			<i>For Stainless Steel, Add</i>	178.15	
			<i>For >10 To 50, Deduct</i>	-1.66	
			<i>For >50 To 100, Deduct</i>	-4.60	
			<i>For >100, Deduct</i>	-9.20	
03 15 19 00-0090	EA		1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	90.39	
			<i>For Galvanized, Add</i>	25.79	
			<i>For Stainless Steel, Add</i>	180.50	
			<i>For >10 To 50, Deduct</i>	-1.94	
			<i>For >50 To 100, Deduct</i>	-5.17	
			<i>For >100, Deduct</i>	-10.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	102.28	
			<i>For Galvanized, Add</i>	27.85	
			<i>For Stainless Steel, Add</i>	194.92	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-6.05	
			<i>For >100, Deduct</i>	-12.10	
03 15 19 00-0092	EA		1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	118.21	
			<i>For Galvanized, Add</i>	29.99	
			<i>For Stainless Steel, Add</i>	209.93	
			<i>For >10 To 50, Deduct</i>	-2.91	
			<i>For >50 To 100, Deduct</i>	-7.32	
			<i>For >100, Deduct</i>	-14.65	
03 15 19 00-0093	EA		2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	83.37	
			<i>For Galvanized, Add</i>	27.99	
			<i>For Stainless Steel, Add</i>	195.90	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-4.14	
			<i>For >100, Deduct</i>	-8.28	
03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	91.57	
			<i>For Galvanized, Add</i>	30.26	
			<i>For Stainless Steel, Add</i>	211.79	
			<i>For >10 To 50, Deduct</i>	-1.55	
			<i>For >50 To 100, Deduct</i>	-4.62	
			<i>For >100, Deduct</i>	-9.24	
03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	101.80	
			<i>For Galvanized, Add</i>	32.98	
			<i>For Stainless Steel, Add</i>	230.86	
			<i>For >10 To 50, Deduct</i>	-1.79	
			<i>For >50 To 100, Deduct</i>	-5.23	
			<i>For >100, Deduct</i>	-10.47	
03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	112.21	
			<i>For Galvanized, Add</i>	34.93	
			<i>For Stainless Steel, Add</i>	244.48	
			<i>For >10 To 50, Deduct</i>	-2.12	
			<i>For >50 To 100, Deduct</i>	-5.98	
			<i>For >100, Deduct</i>	-11.96	
03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	121.65	
			<i>For Galvanized, Add</i>	37.53	
			<i>For Stainless Steel, Add</i>	262.71	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-6.54	
			<i>For >100, Deduct</i>	-13.07	
03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	131.91	
			<i>For Galvanized, Add</i>	40.08	
			<i>For Stainless Steel, Add</i>	280.53	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-7.18	
			<i>For >100, Deduct</i>	-14.36	
03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	152.64	
			<i>For Galvanized, Add</i>	43.04	
			<i>For Stainless Steel, Add</i>	301.28	
			<i>For >10 To 50, Deduct</i>	-3.33	
			<i>For >50 To 100, Deduct</i>	-8.81	
			<i>For >100, Deduct</i>	-17.62	
03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	161.19	
			<i>For Galvanized, Add</i>	47.32	
			<i>For Stainless Steel, Add</i>	331.21	
			<i>For >10 To 50, Deduct</i>	-3.33	
			<i>For >50 To 100, Deduct</i>	-9.02	
			<i>For >100, Deduct</i>	-18.04	
03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	182.84	
			<i>For Galvanized, Add</i>	52.60	
			<i>For Stainless Steel, Add</i>	368.17	
			<i>For >10 To 50, Deduct</i>	-3.88	
			<i>For >50 To 100, Deduct</i>	-10.39	
			<i>For >100, Deduct</i>	-20.79	
03 15 19 00-0102			2-1/2" And 2-3/4" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.76	
			<i>For Galvanized, Add</i>	62.18	
			<i>For Stainless Steel, Add</i>	435.26	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-5.85	
			<i>For >100, Deduct</i>	-11.70	
03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	161.05	
			<i>For Galvanized, Add</i>	65.00	
			<i>For Stainless Steel, Add</i>	454.97	
			<i>For >10 To 50, Deduct</i>	-1.55	
			<i>For >50 To 100, Deduct</i>	-6.36	
			<i>For >100, Deduct</i>	-12.71	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15	19 00-0105	EA	2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	176.81	
			<i>For Galvanized, Add</i>	70.49	
			<i>For Stainless Steel, Add</i>	493.40	
			<i>For >10 To 50, Deduct</i>	-1.79	
			<i>For >50 To 100, Deduct</i>	-7.11	
			<i>For >100, Deduct</i>	-14.22	
03 15	19 00-0106	EA	2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	190.92	
			<i>For Galvanized, Add</i>	74.28	
			<i>For Stainless Steel, Add</i>	519.96	
			<i>For >10 To 50, Deduct</i>	-2.12	
			<i>For >50 To 100, Deduct</i>	-7.95	
			<i>For >100, Deduct</i>	-15.90	
03 15	19 00-0107	EA	2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	203.11	
			<i>For Galvanized, Add</i>	78.26	
			<i>For Stainless Steel, Add</i>	547.82	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-8.57	
			<i>For >100, Deduct</i>	-17.14	
03 15	19 00-0108	EA	2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	217.20	
			<i>For Galvanized, Add</i>	82.72	
			<i>For Stainless Steel, Add</i>	579.04	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-9.31	
			<i>For >100, Deduct</i>	-18.62	
03 15	19 00-0109	EA	2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	241.13	
			<i>For Galvanized, Add</i>	87.29	
			<i>For Stainless Steel, Add</i>	611.00	
			<i>For >10 To 50, Deduct</i>	-3.33	
			<i>For >50 To 100, Deduct</i>	-11.02	
			<i>For >100, Deduct</i>	-22.04	
03 15	19 00-0110	EA	2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	169.90	
			<i>For Galvanized, Add</i>	70.39	
			<i>For Stainless Steel, Add</i>	492.73	
			<i>For >10 To 50, Deduct</i>	-1.46	
			<i>For >50 To 100, Deduct</i>	-6.43	
			<i>For >100, Deduct</i>	-12.86	
03 15	19 00-0111	EA	2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	183.87	
			<i>For Galvanized, Add</i>	75.30	
			<i>For Stainless Steel, Add</i>	527.07	
			<i>For >10 To 50, Deduct</i>	-1.66	
			<i>For >50 To 100, Deduct</i>	-7.09	
			<i>For >100, Deduct</i>	-14.19	
03 15	19 00-0112	EA	2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	199.32	
			<i>For Galvanized, Add</i>	80.25	
			<i>For Stainless Steel, Add</i>	561.75	
			<i>For >10 To 50, Deduct</i>	-1.94	
			<i>For >50 To 100, Deduct</i>	-7.89	
			<i>For >100, Deduct</i>	-15.79	
03 15	19 00-0113	EA	2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	216.01	
			<i>For Galvanized, Add</i>	84.71	
			<i>For Stainless Steel, Add</i>	592.97	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-8.89	
			<i>For >100, Deduct</i>	-17.79	
03 15	19 00-0114	EA	2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	230.93	
			<i>For Galvanized, Add</i>	89.59	
			<i>For Stainless Steel, Add</i>	627.10	
			<i>For >10 To 50, Deduct</i>	-2.59	
			<i>For >50 To 100, Deduct</i>	-9.66	
			<i>For >100, Deduct</i>	-19.31	
03 15	19 00-0115	EA	2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	251.24	
			<i>For Galvanized, Add</i>	96.51	
			<i>For Stainless Steel, Add</i>	675.54	
			<i>For >10 To 50, Deduct</i>	-2.91	
			<i>For >50 To 100, Deduct</i>	-10.65	
			<i>For >100, Deduct</i>	-21.30	
03 15	19 00-0116	EA	2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	281.27	
			<i>For Galvanized, Add</i>	101.81	
			<i>For Stainless Steel, Add</i>	712.67	
			<i>For >10 To 50, Deduct</i>	-3.88	
			<i>For >50 To 100, Deduct</i>	-12.86	
			<i>For >100, Deduct</i>	-25.71	

03 20 Concrete Reinforcing ⁽⁰³⁾

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars ^(03 20)

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

03 21 11 Plain Steel Reinforcement Bars ^(03 21)**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002	LF		#3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.60	
03 21 11 00-0003	LF		#4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.01	
03 21 11 00-0004	LF		#5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.49	
03 21 11 00-0005	LF		#6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.05	
03 21 11 00-0006	LF		#3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.61	
03 21 11 00-0007	LF		#4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.03	
03 21 11 00-0008	LF		#5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.52	
03 21 11 00-0009	LF		#6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.09	
03 21 11 00-0010	LF		#3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.62	
03 21 11 00-0011	LF		#4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.05	
03 21 11 00-0012	LF		#5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.56	
03 21 11 00-0013	LF		#6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.15	
03 21 11 00-0014	LF		#7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.76	
03 21 11 00-0015	LF		#8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.42	
03 21 11 00-0016	LF		#9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.17	
03 21 11 00-0017	LF		#10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.06	
03 21 11 00-0018	LF		#11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.99	
03 21 11 00-0019	LF		#14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	8.22	
03 21 11 00-0020	LF		#18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	13.93	
03 21 11 00-0021	LF		#6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.21	
03 21 11 00-0022	LF		#7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.85	
03 21 11 00-0023	LF		#8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.53	
03 21 11 00-0024	LF		#9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.31	
03 21 11 00-0025	LF		#10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.24	
03 21 11 00-0026	LF		#11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	6.20	
03 21 11 00-0027	LF		#14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	8.53	
03 21 11 00-0028	LF		#18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	14.49	
03 21 11 00-0029	LF		#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.63	
03 21 11 00-0030	LF		#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.07	
03 21 11 00-0031	LF		#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.60	
03 21 11 00-0032	LF		#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.20	
03 21 11 00-0033	LF		#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.83	
03 21 11 00-0034	LF		#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.50	
03 21 11 00-0035	LF		#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.28	
03 21 11 00-0036	LF		#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.19	
03 21 11 00-0037	LF		#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	6.15	
03 21 11 00-0038	LF		#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	8.46	
03 21 11 00-0039	LF		#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	14.35	

03 21 11 00-0040

Columns, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0041	LF		#3, Grade 40, Columns, Steel Reinforcement Bar.....	0.63	
03 21 11 00-0042	LF		#4, Grade 40, Columns, Steel Reinforcement Bar.....	1.08	
03 21 11 00-0043	LF		#5, Grade 40, Columns, Steel Reinforcement Bar.....	1.58	
03 21 11 00-0044	LF		#6, Grade 40, Columns, Steel Reinforcement Bar.....	2.17	
03 21 11 00-0045	LF		#3, Grade 50, Columns, Steel Reinforcement Bar.....	0.64	
03 21 11 00-0046	LF		#4, Grade 50, Columns, Steel Reinforcement Bar.....	1.10	
03 21 11 00-0047	LF		#5, Grade 50, Columns, Steel Reinforcement Bar.....	1.61	
03 21 11 00-0048	LF		#6, Grade 50, Columns, Steel Reinforcement Bar.....	2.21	
03 21 11 00-0049	LF		#3, Grade 60, Columns, Steel Reinforcement Bar.....	0.65	
03 21 11 00-0050	LF		#4, Grade 60, Columns, Steel Reinforcement Bar.....	1.12	
03 21 11 00-0051	LF		#5, Grade 60, Columns, Steel Reinforcement Bar.....	1.65	
03 21 11 00-0052	LF		#6, Grade 60, Columns, Steel Reinforcement Bar.....	2.27	
03 21 11 00-0053	LF		#7, Grade 60, Columns, Steel Reinforcement Bar.....	2.92	
03 21 11 00-0054	LF		#8, Grade 60, Columns, Steel Reinforcement Bar.....	3.59	
03 21 11 00-0055	LF		#9, Grade 60, Columns, Steel Reinforcement Bar.....	4.37	
03 21 11 00-0056	LF		#10, Grade 60, Columns, Steel Reinforcement Bar.....	5.29	
03 21 11 00-0057	LF		#11, Grade 60, Columns, Steel Reinforcement Bar.....	6.25	
03 21 11 00-0058	LF		#14, Grade 60, Columns, Steel Reinforcement Bar.....	8.58	
03 21 11 00-0059	LF		#18, Grade 60, Columns, Steel Reinforcement Bar.....	14.48	
03 21 11 00-0060	LF		#6, Grade 75, Columns, Steel Reinforcement Bar.....	2.33	
03 21 11 00-0061	LF		#7, Grade 75, Columns, Steel Reinforcement Bar.....	3.01	
03 21 11 00-0062	LF		#8, Grade 75, Columns, Steel Reinforcement Bar.....	3.70	
03 21 11 00-0063	LF		#9, Grade 75, Columns, Steel Reinforcement Bar.....	4.51	
03 21 11 00-0064	LF		#10, Grade 75, Columns, Steel Reinforcement Bar.....	5.47	
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar.....	6.46	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar.....	8.89	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar.....	15.04	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.66	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.14	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.69	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.32	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.99	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.67	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.48	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.42	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	6.41	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	8.82	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	14.90	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 11 00-0079

Footings, Steel Reinforcement Bar ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0080	LF #3, Grade 40, Footings, Steel Reinforcement Bar	0.54
03 21 11 00-0081	LF #4, Grade 40, Footings, Steel Reinforcement Bar	0.92
03 21 11 00-0082	LF #5, Grade 40, Footings, Steel Reinforcement Bar	1.36
03 21 11 00-0083	LF #6, Grade 40, Footings, Steel Reinforcement Bar	1.87
03 21 11 00-0084	LF #3, Grade 50, Footings, Steel Reinforcement Bar	0.55
03 21 11 00-0085	LF #4, Grade 50, Footings, Steel Reinforcement Bar	0.94
03 21 11 00-0086	LF #5, Grade 50, Footings, Steel Reinforcement Bar	1.39
03 21 11 00-0087	LF #6, Grade 50, Footings, Steel Reinforcement Bar	1.91
03 21 11 00-0088	LF #3, Grade 60, Footings, Steel Reinforcement Bar	0.56
03 21 11 00-0089	LF #4, Grade 60, Footings, Steel Reinforcement Bar	0.96
03 21 11 00-0090	LF #5, Grade 60, Footings, Steel Reinforcement Bar	1.43
03 21 11 00-0091	LF #6, Grade 60, Footings, Steel Reinforcement Bar	1.97
03 21 11 00-0092	LF #7, Grade 60, Footings, Steel Reinforcement Bar	2.54
03 21 11 00-0093	LF #8, Grade 60, Footings, Steel Reinforcement Bar	3.15
03 21 11 00-0094	LF #9, Grade 60, Footings, Steel Reinforcement Bar	3.86
03 21 11 00-0095	LF #10, Grade 60, Footings, Steel Reinforcement Bar	4.70
03 21 11 00-0096	LF #11, Grade 60, Footings, Steel Reinforcement Bar	5.58
03 21 11 00-0097	LF #14, Grade 60, Footings, Steel Reinforcement Bar	7.70
03 21 11 00-0098	LF #18, Grade 60, Footings, Steel Reinforcement Bar	13.09
03 21 11 00-0099	LF #6, Grade 75, Footings, Steel Reinforcement Bar	2.03
03 21 11 00-0100	LF #7, Grade 75, Footings, Steel Reinforcement Bar	2.63
03 21 11 00-0101	LF #8, Grade 75, Footings, Steel Reinforcement Bar	3.26
03 21 11 00-0102	LF #9, Grade 75, Footings, Steel Reinforcement Bar	4.00
03 21 11 00-0103	LF #10, Grade 75, Footings, Steel Reinforcement Bar	4.88
03 21 11 00-0104	LF #11, Grade 75, Footings, Steel Reinforcement Bar	5.79
03 21 11 00-0105	LF #14, Grade 75, Footings, Steel Reinforcement Bar	8.01
03 21 11 00-0106	LF #18, Grade 75, Footings, Steel Reinforcement Bar	13.65
03 21 11 00-0107	LF #3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.57
03 21 11 00-0108	LF #4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.98
03 21 11 00-0109	LF #5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.47
03 21 11 00-0110	LF #6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.02
03 21 11 00-0111	LF #7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.61
03 21 11 00-0112	LF #8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.23
03 21 11 00-0113	LF #9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.97
03 21 11 00-0114	LF #10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.83
03 21 11 00-0115	LF #11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.74
03 21 11 00-0116	LF #14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	7.94
03 21 11 00-0117	LF #18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	13.51

03 21 11 00-0118

Slab On Grade, Steel Reinforcement Bar ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0119	LF #3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.52
03 21 11 00-0120	LF #4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.88
03 21 11 00-0121	LF #5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.31
03 21 11 00-0122	LF #6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.80
03 21 11 00-0123	LF #3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.53
03 21 11 00-0124	LF #4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.90
03 21 11 00-0125	LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.34
03 21 11 00-0126	LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.84
03 21 11 00-0127	LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.54
03 21 11 00-0128	LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.92
03 21 11 00-0129	LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.38
03 21 11 00-0130	LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.90
03 21 11 00-0131	LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.47
03 21 11 00-0132	LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.06
03 21 11 00-0133	LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.76
03 21 11 00-0134	LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.58
03 21 11 00-0135	LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.45
03 21 11 00-0136	LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar	7.52
03 21 11 00-0137	LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar	12.82
03 21 11 00-0138	LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar	1.96
03 21 11 00-0139	LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.56
03 21 11 00-0140	LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.17
03 21 11 00-0141	LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.90
03 21 11 00-0142	LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.76
03 21 11 00-0143	LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.66
03 21 11 00-0144	LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar	7.83
03 21 11 00-0145	LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar	13.38
03 21 11 00-0146	LF #3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.55
03 21 11 00-0147	LF #4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.94
03 21 11 00-0148	LF #5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.42
03 21 11 00-0149	LF #6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.95
03 21 11 00-0150	LF #7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.54
03 21 11 00-0151	LF #8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.14
03 21 11 00-0152	LF #9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.87
03 21 11 00-0153	LF #10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.71
03 21 11 00-0154	LF #11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.61
03 21 11 00-0155	LF #14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	7.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	13.24
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03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	0.48
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	0.81
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	1.22
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	1.68
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	0.49
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	0.83
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	1.25
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	1.72
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	0.50
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	0.85
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	1.29
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	1.78
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	2.32
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	2.88
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	3.55
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	4.35
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	5.18
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	7.17
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	12.28
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	1.84
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	2.41
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	2.99
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	3.69
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	4.53
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	5.39
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	7.48
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	12.84
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	0.51
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	0.87
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	1.33
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	1.83
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	2.39
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	2.96
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	3.66
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	4.48
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	5.34
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	7.41
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	12.70

03 21 11 00-0196 Walls, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar.....	0.46
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar.....	0.78
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar.....	1.17
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar.....	1.62
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar.....	0.47
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar.....	0.80
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar.....	1.20
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar.....	1.66
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar.....	0.48
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar.....	0.82
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar.....	1.24
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar.....	1.72
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar.....	2.23
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar.....	2.80
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar.....	3.45
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar.....	4.22
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar.....	5.05
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar.....	7.00
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar.....	12.00
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar.....	1.78
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar.....	2.32
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar.....	2.91
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar.....	3.59
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar.....	4.40
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar.....	5.26
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar.....	7.31
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar.....	12.56
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	0.49
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	0.84
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	1.28
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	1.77
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	2.30
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	2.88
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	3.56

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.35	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.21	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	7.24	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	12.42	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice	188.58	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice.....	104.23	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0221 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel	2.90	
			For Up To 12" Length, Deduct	-0.34	
			For >12" To <24" Length, Deduct	-0.17	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel	3.47	
			For Up To 12" Length, Deduct	-0.45	
			For >12" To <24" Length, Deduct	-0.22	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel	4.24	
			For Up To 12" Length, Deduct	-0.71	
			For >12" To <24" Length, Deduct	-0.35	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel	5.16	
			For Up To 12" Length, Deduct	-1.02	
			For >12" To <24" Length, Deduct	-0.51	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel	6.08	
			For Up To 12" Length, Deduct	-1.42	
			For >12" To <24" Length, Deduct	-0.71	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel	7.67	
			For Up To 12" Length, Deduct	-1.82	
			For >12" To <24" Length, Deduct	-0.91	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel	9.04	
			For Up To 12" Length, Deduct	-2.24	
			For >12" To <24" Length, Deduct	-1.12	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel	11.08	
			For Up To 12" Length, Deduct	-2.94	
			For >12" To <24" Length, Deduct	-1.47	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel	13.16	
			For Up To 12" Length, Deduct	-3.62	
			For >12" To <24" Length, Deduct	-1.81	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,434.94	
			For Grade 75, Add	132.89	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,395.02	
			For Grade 75, Add	132.89	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,364.58	
			For Grade 75, Add	132.89	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,314.79	
			For Grade 75, Add	132.89	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,247.46	
			For Grade 75, Add	132.89	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,224.45	
			For Grade 75, Add	136.16	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,168.08	
			For Grade 75, Add	136.16	
03 21 11 00-0258			Dowel Or Hairpin, Drilled And Epoxy Into Concrete (03 21 11)		
03 21 11 00-0259	EA		Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment	27.53	
03 21 11 00-0260	EA		Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment.....	28.72	
03 21 11 00-0261			Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0262			Reinforcing Steel Lap-Weld Splice (03 21 11 00-0261)		
03 21 11 00-0263	EA		Up To #6 Reinforcing Steel Lap-Weld Splice	53.35	
03 21 11 00-0264	EA		>#6 Reinforcing Steel Lap-Weld Splice	83.61	
03 21 11 00-0265			Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0261)		
03 21 11 00-0266	EA		Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	29.36	
03 21 11 00-0267	EA		#5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	42.47	
03 21 11 00-0268	EA		#6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	60.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 13 Galvanized Reinforcement Steel Bars (03 21)

03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0002	LF	#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.70
03 21 13 00-0003	LF	#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.19
03 21 13 00-0004	LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.79
03 21 13 00-0005	LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.47
03 21 13 00-0006	LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.71
03 21 13 00-0007	LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.21
03 21 13 00-0008	LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.82
03 21 13 00-0009	LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.51
03 21 13 00-0010	LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.73
03 21 13 00-0011	LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.24
03 21 13 00-0012	LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.86
03 21 13 00-0013	LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.57
03 21 13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.34
03 21 13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.17
03 21 13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.13
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.27
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	7.48
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	10.37
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	17.75
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.63
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.42
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.28
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.27
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.45
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.70
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	10.69
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	18.31

03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.73
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.26
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.88
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.59
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.74
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.28
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.91
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.63
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.76
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.31
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.95
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.69
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.50
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.34
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	5.33
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	6.50
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	7.74
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	10.73
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	18.30
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	2.75
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.58
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.45
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.47
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	6.68
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	7.96
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	11.05
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	18.86

03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.64
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.10
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.66
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.29
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.65
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.12
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.69
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.33
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.67
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.15
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.73
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.39
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.12
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.90
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.82



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.91
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.07
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	9.85
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	16.91
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.45
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.20
03 21	13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.01
03 21	13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.96
03 21	13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.09
03 21	13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.29
03 21	13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	10.17
03 21	13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	17.47

03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21	13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.62
03 21	13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.06
03 21	13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.61
03 21	13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.22
03 21	13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.63
03 21	13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.08
03 21	13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.64
03 21	13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.26
03 21	13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.65
03 21	13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.11
03 21	13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.68
03 21	13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.32
03 21	13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.05
03 21	13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.81
03 21	13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.72
03 21	13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.79
03 21	13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	6.94
03 21	13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	9.67
03 21	13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	16.64
03 21	13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.38
03 21	13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.13
03 21	13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.92
03 21	13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.86
03 21	13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.97
03 21	13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	7.16
03 21	13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	9.99
03 21	13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	17.20

03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21	13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.58
03 21	13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.99
03 21	13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.52
03 21	13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.10
03 21	13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.59
03 21	13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.01
03 21	13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.55
03 21	13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.14
03 21	13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.61
03 21	13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.04
03 21	13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.59
03 21	13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.20
03 21	13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.90
03 21	13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.63
03 21	13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.51
03 21	13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.56
03 21	13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.67
03 21	13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	9.32
03 21	13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	16.10
03 21	13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.26
03 21	13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.98
03 21	13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.74
03 21	13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.65
03 21	13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.74
03 21	13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.89
03 21	13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	9.64
03 21	13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	16.66

03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21	13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.56
03 21	13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.96
03 21	13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.47



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.04	
03 21	13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.57	
03 21	13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.98	
03 21	13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.50	
03 21	13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.08	
03 21	13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.59	
03 21	13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.01	
03 21	13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.54	
03 21	13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.14	
03 21	13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.81	
03 21	13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.55	
03 21	13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.41	
03 21	13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.43	
03 21	13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.54	
03 21	13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	9.15	
03 21	13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	15.82	
03 21	13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.20	
03 21	13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.89	
03 21	13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.66	
03 21	13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.55	
03 21	13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.61	
03 21	13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	6.76	
03 21	13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	9.47	
03 21	13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	16.38	

03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.69	
03 21	16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.17	
03 21	16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.75	
03 21	16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.42	
03 21	16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.70	
03 21	16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.19	
03 21	16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.78	
03 21	16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.46	
03 21	16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.72	
03 21	16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.22	
03 21	16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.83	
03 21	16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.53	
03 21	16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.28	
03 21	16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.09	
03 21	16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.02	
03 21	16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.14	
03 21	16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.32	
03 21	16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	10.14	
03 21	16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	17.34	
03 21	16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.59	
03 21	16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.36	
03 21	16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.20	
03 21	16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.16	
03 21	16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.32	
03 21	16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.54	
03 21	16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	10.45	
03 21	16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	17.90	

03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.72	
03 21	16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.24	
03 21	16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.84	
03 21	16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.54	
03 21	16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.73	
03 21	16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.26	
03 21	16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.87	
03 21	16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.58	
03 21	16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.75	
03 21	16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.29	
03 21	16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.92	
03 21	16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.65	
03 21	16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.44	
03 21	16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.26	
03 21	16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.22	
03 21	16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.37	
03 21	16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	7.58	
03 21	16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	10.50	
03 21	16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	17.89	
03 21	16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	2.71	
03 21	16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.52	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.37
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.36
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.55
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.80
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	10.81
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	18.45

03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.63
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.08
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.62
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.24
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.64
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.10
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.65
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	2.28
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.66
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.13
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.70
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.35
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.06
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.82
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.71
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	5.78
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	6.91
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	9.62
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	16.50
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.41
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.14
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.93
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	4.85
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	5.96
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	7.13
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	9.93
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	17.06

03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.61
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.04
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.57
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.17
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.62
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.06
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.60
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.21
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.64
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.09
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.65
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.28
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.99
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.73
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.61
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.66
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.78
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	9.44
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	16.23
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.34
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.07
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.84
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.75
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.84
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	7.00
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	9.75
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	16.79

03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.57
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.97
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.48
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.05
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.58
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.99
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.51
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.09
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.60



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0123 LF #4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.02	
03 21 16 00-0124 LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.56	
03 21 16 00-0125 LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.16	
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.84	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.55	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.40	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.43	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.51	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	9.09	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	15.69	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.22	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.92	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.66	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.54	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.61	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.73	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	9.40	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	16.25	

03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.55	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.94	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.43	
03 21 16 00-0145 LF #6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.99	
03 21 16 00-0146 LF #3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.56	
03 21 16 00-0147 LF #4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.96	
03 21 16 00-0148 LF #5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.46	
03 21 16 00-0149 LF #6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.03	
03 21 16 00-0150 LF #3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.58	
03 21 16 00-0151 LF #4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.99	
03 21 16 00-0152 LF #5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.51	
03 21 16 00-0153 LF #6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.10	
03 21 16 00-0154 LF #7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.75	
03 21 16 00-0155 LF #8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.47	
03 21 16 00-0156 LF #9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.30	
03 21 16 00-0157 LF #10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.30	
03 21 16 00-0158 LF #11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.38	
03 21 16 00-0159 LF #14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.92	
03 21 16 00-0160 LF #18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.41	
03 21 16 00-0161 LF #6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.16	
03 21 16 00-0162 LF #7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.83	
03 21 16 00-0163 LF #8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.58	
03 21 16 00-0164 LF #9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.44	
03 21 16 00-0165 LF #10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.48	
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.60	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	9.23	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.97	

03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)

Note: Excludes drilling. See CSI section 02 41 19 13-0221 for drilling in concrete.

03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.82	
For Up To 12" Length, Deduct	-0.48	
For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.67	
For Up To 12" Length, Deduct	-0.72	
For >12" To <24" Length, Deduct	-0.36	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.02	
For Up To 12" Length, Deduct	-1.07	
For >12" To <24" Length, Deduct	-0.54	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.72	
For Up To 12" Length, Deduct	-1.43	
For >12" To <24" Length, Deduct	-0.71	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.48	
For Up To 12" Length, Deduct	-1.94	
For >12" To <24" Length, Deduct	-0.97	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.19	
For Up To 12" Length, Deduct	-2.39	
For >12" To <24" Length, Deduct	-1.20	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	14.39	
For Up To 12" Length, Deduct	-2.90	
For >12" To <24" Length, Deduct	-1.45	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	17.32	
For Up To 12" Length, Deduct	-3.51	
For >12" To <24" Length, Deduct	-1.75	

03 22 Fabric and Grid Reinforcing (03 20)

03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03	Concrete
03 20	Concrete Reinforcing
03 22	Fabric and Grid Reinforcing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 22 11 00-0001	Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs <small>(03 22 11)</small>	
	Note: Includes bar chairs. Under 5 tons. ASTM A-185	
03 22 11 00-0002	SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.81
	For >5 Ton, Deduct	-0.12
03 22 11 00-0003	SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	0.93
	For >5 Ton, Deduct	-0.14
03 22 11 00-0004	SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.06
	For >5 Ton, Deduct	-0.16
03 22 11 00-0005	SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.26
	For >5 Ton, Deduct	-0.18
03 22 11 00-0006	SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.97
	For >5 Ton, Deduct	-0.14
03 22 11 00-0007	SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.10
	For >5 Ton, Deduct	-0.16
03 22 11 00-0008	SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.39
	For >5 Ton, Deduct	-0.19
03 22 11 00-0009	SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.62
	For >5 Ton, Deduct	-0.22
03 22 11 00-0010	SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9)	1.51
	For >5 Ton, Deduct	-0.20

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)

03 22 13 00-0001	Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs <small>(03 22 13)</small>	
	Note: Includes bar chairs. Under 5 tons.	
03 22 13 00-0002	SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.91
	For >5 Ton, Deduct	-0.13
03 22 13 00-0003	SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.04
	For >5 Ton, Deduct	-0.15
03 22 13 00-0004	SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.21
	For >5 Ton, Deduct	-0.17
03 22 13 00-0005	SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.46
	For >5 Ton, Deduct	-0.20
03 22 13 00-0006	SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.10
	For >5 Ton, Deduct	-0.16
03 22 13 00-0007	SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.26
	For >5 Ton, Deduct	-0.18
03 22 13 00-0008	SF 4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.65
	For >5 Ton, Deduct	-0.22
03 22 13 00-0009	SF 4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.95
	For >5 Ton, Deduct	-0.25

03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)

	Note: Includes bar chairs. Under 5 tons.	
03 22 13 00-0011	SF 2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5)	3.16
	For >5 Ton, Deduct	-0.49

03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)

03 22 16 00-0001	Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs <small>(03 22 16)</small>	
	Note: Includes bar chairs. Under 5 tons.	
03 22 16 00-0002	SF 6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.89
	For >5 Ton, Deduct	-0.13
03 22 16 00-0003	SF 6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.02
	For >5 Ton, Deduct	-0.15
03 22 16 00-0004	SF 6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.19
	For >5 Ton, Deduct	-0.17
03 22 16 00-0005	SF 6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.43
	For >5 Ton, Deduct	-0.20
03 22 16 00-0006	SF 4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.08
	For >5 Ton, Deduct	-0.15
03 22 16 00-0007	SF 4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.24
	For >5 Ton, Deduct	-0.17
03 22 16 00-0008	SF 4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.62
	For >5 Ton, Deduct	-0.21
03 22 16 00-0009	SF 4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.91
	For >5 Ton, Deduct	-0.25

03 22 23 Stainless Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 23 00-0001	Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs <small>(03 22 23)</small>	
03 22 23 00-0002	SF 6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.51
03 22 23 00-0003	SF 4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.94



Concrete	03	03
Concrete Reinforcing	03 20	
Fabric and Grid Reinforcing	03 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0039 for hauling over 15 miles.

03 30 53 Miscellaneous Cast-in-Place Concrete (03 30)

03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill (03 30 53)

03 30 53 00-0002	CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	289.27
	<i>For 2,000 PSI Concrete, Deduct</i>	-11.88
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.94
	<i>For 3,500 PSI Concrete, Add</i>	11.00
	<i>For 3,750 PSI Concrete, Add</i>	14.96
	<i>For 4,000 PSI Concrete, Add</i>	18.92
	<i>For 4,500 PSI Concrete, Add</i>	22.00
	<i>For 5,000 PSI Concrete, Add</i>	25.08
	<i>For 6,000 PSI Concrete, Add</i>	59.40
	<i>For White Cement Concrete, Add</i>	26.40
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	28.60
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.00
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	66.00
	<i>For Up To 20, Add</i>	27.71
	<i>For >20 To 50, Add</i>	10.39
	<i>For >100 To 200, Deduct</i>	-5.79
	<i>For >200 To 400, Deduct</i>	-11.57
	<i>For >400, Deduct</i>	-17.36

03 30 53 00-0003 Place Concrete Slurry (03 30 53)

03 30 53 00-0004	CY Direct Chute, Place Two Sack Cement, Concrete Slurry	229.18
	Note: Two 94# sack cement per CY.	
03 30 53 00-0005	CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	223.06
	Note: Two 94# sack cement per CY. Excludes pumping equipment.	

03 30 53 00-0006 Hand Mix And Place Concrete (03 30 53)

03 30 53 00-0007	CF Hand Mix And Place Concrete	32.59
	Note: For use where conventional equipment access is limited or when directed by the owner.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-0.51
	<i>For 2,500 PSI Concrete, Deduct</i>	-0.25
	<i>For 3,500 PSI Concrete, Add</i>	0.47
	<i>For 3,750 PSI Concrete, Add</i>	0.64
	<i>For 4,000 PSI Concrete, Add</i>	0.81
	<i>For 4,500 PSI Concrete, Add</i>	0.94
	<i>For 5,000 PSI Concrete, Add</i>	1.07
	<i>For 6,000 PSI Concrete, Add</i>	2.54
	<i>For White Cement Concrete, Add</i>	1.13
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	1.22
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	0.94
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	2.82

03 31 Structural Concrete (03 30)

03 31 13 Heavyweight Structural Concrete (03 31)

Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)

03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)

Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.

03 31 13 00-0003	SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.85
	<i>For 2,000 PSI Concrete, Deduct</i>	-0.29
	<i>For 2,500 PSI Concrete, Deduct</i>	-0.14
	<i>For 3,500 PSI Concrete, Add</i>	0.10
	<i>For 4,000 PSI Concrete, Add</i>	0.34
	<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13
	<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40
	<i>For Up To 500, Add</i>	3.17
	<i>For >500 To 1,000, Add</i>	2.21
	<i>For >1,000 To 2,000, Add</i>	1.24
	<i>For >2,000 To 5,000, Add</i>	0.62
	<i>For >10,000 To 20,000, Deduct</i>	-0.27
	<i>For >20,000 To 35,000, Deduct</i>	-0.49
	<i>For >35,000 To 50,000, Deduct</i>	-0.71
	<i>For >50,000 To 70,000, Deduct</i>	-0.93
	<i>For >70,000, Deduct</i>	-1.15

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0004	SF	5" 3,000 PSI Slab On Grade Concrete Slabs Assembly	9.74	
			For 2,000 PSI Concrete, Deduct	-0.33	
			For 2,500 PSI Concrete, Deduct	-0.16	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.38	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.42	
			For >500 To 1,000, Add	2.38	
			For >1,000 To 2,000, Add	1.34	
			For >2,000 To 5,000, Add	0.67	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000 To 35,000, Deduct	-0.55	
			For >35,000 To 50,000, Deduct	-0.79	
			For >50,000 To 70,000, Deduct	-1.03	
			For >70,000, Deduct	-1.28	
03 31	13 00-0005	SF	6" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.01	
			For 2,000 PSI Concrete, Deduct	-0.38	
			For 2,500 PSI Concrete, Deduct	-0.19	
			For 3,500 PSI Concrete, Add	0.13	
			For 4,000 PSI Concrete, Add	0.45	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.77	
			For >500 To 1,000, Add	2.63	
			For >1,000 To 2,000, Add	1.49	
			For >2,000 To 5,000, Add	0.75	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000 To 35,000, Deduct	-0.63	
			For >35,000 To 50,000, Deduct	-0.91	
			For >50,000 To 70,000, Deduct	-1.18	
			For >70,000, Deduct	-1.46	
03 31	13 00-0006	SF	7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	12.23	
			For 2,000 PSI Concrete, Deduct	-0.44	
			For 2,500 PSI Concrete, Deduct	-0.22	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.51	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.07	
			For >500 To 1,000, Add	2.85	
			For >1,000 To 2,000, Add	1.63	
			For >2,000 To 5,000, Add	0.82	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000 To 35,000, Deduct	-0.71	
			For >35,000 To 50,000, Deduct	-1.02	
			For >50,000 To 70,000, Deduct	-1.33	
			For >70,000, Deduct	-1.63	
03 31	13 00-0007	SF	8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.27	
			For 2,000 PSI Concrete, Deduct	-0.49	
			For 2,500 PSI Concrete, Deduct	-0.24	
			For 3,500 PSI Concrete, Add	0.17	
			For 4,000 PSI Concrete, Add	0.57	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.35	
			For >500 To 1,000, Add	3.05	
			For >1,000 To 2,000, Add	1.75	
			For >2,000 To 5,000, Add	0.88	
			For >10,000 To 20,000, Deduct	-0.45	
			For >20,000 To 35,000, Deduct	-0.78	
			For >35,000 To 50,000, Deduct	-1.12	
			For >50,000 To 70,000, Deduct	-1.45	
			For >70,000, Deduct	-1.78	
03 31	13 00-0008	SF	10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	15.97	
			For 2,000 PSI Concrete, Deduct	-0.62	
			For 2,500 PSI Concrete, Deduct	-0.31	
			For 3,500 PSI Concrete, Add	0.22	
			For 4,000 PSI Concrete, Add	0.72	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	5.02	
			For >500 To 1,000, Add	3.54	
			For >1,000 To 2,000, Add	2.05	
			For >2,000 To 5,000, Add	1.03	
			For >10,000 To 20,000, Deduct	-0.57	
			For >20,000 To 35,000, Deduct	-0.97	
			For >35,000 To 50,000, Deduct	-1.37	
			For >50,000 To 70,000, Deduct	-1.77	
			For >70,000, Deduct	-2.17	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	18.04	
For 2,000 PSI Concrete, Deduct	-0.71	
For 2,500 PSI Concrete, Deduct	-0.36	
For 3,500 PSI Concrete, Add	0.25	
For 4,000 PSI Concrete, Add	0.83	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	5.56	
For >500 To 1,000, Add	3.93	
For >1,000 To 2,000, Add	2.29	
For >2,000 To 5,000, Add	1.15	
For >10,000 To 20,000, Deduct	-0.66	
For >20,000 To 35,000, Deduct	-1.11	
For >35,000 To 50,000, Deduct	-1.56	
For >50,000 To 70,000, Deduct	-2.01	
For >70,000, Deduct	-2.46	
 03 31 13 00-0010 Concrete Delivery And Placement <small>(03 31 13)</small>		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
 03 31 13 00-0011 Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small>		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
 03 31 13 00-0012 Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	335.02	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	46.01	
For >20 To 50, Add	17.25	
For >100 To 200, Deduct	-6.70	
For >200 To 400, Deduct	-13.40	
For >400, Deduct	-20.10	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	270.92	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	20.37	
For >20 To 50, Add	7.64	
For >100 To 200, Deduct	-5.42	
For >200 To 400, Deduct	-10.84	
For >400, Deduct	-16.26	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	286.83	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	19.40	
For >20 To 50, Add	7.28	
For >100 To 200, Deduct	-5.74	
For >200 To 400, Deduct	-11.47	
For >400, Deduct	-17.21	
 03 31 13 00-0016 Place Concrete Continuous Footings <small>(03 31 13 00-0011)</small>		

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0017	CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	322.22	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	40.89	
	For >20 To 50, Add	15.33	
	For >100 To 200, Deduct	-6.44	
	For >200 To 400, Deduct	-12.89	
	For >400, Deduct	-19.33	
03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	265.27	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	18.11	
	For >20 To 50, Add	6.79	
	For >100 To 200, Deduct	-5.31	
	For >200 To 400, Deduct	-10.61	
	For >400, Deduct	-15.92	
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	281.44	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	17.25	
	For >20 To 50, Add	6.47	
	For >100 To 200, Deduct	-5.63	
	For >200 To 400, Deduct	-11.26	
	For >400, Deduct	-16.89	
03 31 13 00-0020	Place Concrete Spread Footings (03 31 13 00-0011)		
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings.....	392.51	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	69.01	
	For >20 To 50, Add	25.88	
	For >100 To 200, Deduct	-7.85	
	For >200 To 400, Deduct	-15.70	
	For >400, Deduct	-23.55	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0022 CY Direct Chute, Place 3,000 PSI Concrete Spread Footings	296.39	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	30.56	
For >20 To 50, Add	11.46	
For >100 To 200, Deduct	-5.93	
For >200 To 400, Deduct	-11.86	
For >400, Deduct	-17.78	
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings	311.09	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	29.11	
For >20 To 50, Add	10.92	
For >100 To 200, Deduct	-6.22	
For >200 To 400, Deduct	-12.44	
For >400, Deduct	-18.67	
03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	250.66	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	12.27	
For >20 To 50, Add	4.60	
For >100 To 200, Deduct	-5.01	
For >200 To 400, Deduct	-10.03	
For >400, Deduct	-15.04	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	233.58	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	5.44	
For >20 To 50, Add	2.04	
For >100 To 200, Deduct	-4.67	
For >200 To 400, Deduct	-9.34	
For >400, Deduct	-14.01	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0027	CY	Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	249.64	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-12.87	
			For 2,500 PSI Concrete, Deduct	-6.43	
			For 3,500 PSI Concrete, Add	11.92	
			For 3,750 PSI Concrete, Add	16.21	
			For 4,000 PSI Concrete, Add	20.50	
			For 4,500 PSI Concrete, Add	23.83	
			For 5,000 PSI Concrete, Add	27.17	
			For 6,000 PSI Concrete, Add	64.35	
			For White Cement Concrete, Add	28.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
			For High Early Strength, Type 3 ASTM C150, Add	23.83	
			For Lightweight Aggregate, ASTM C330, Add	71.50	
			For Up To 20, Add	4.53	
			For >20 To 50, Add	1.70	
			For >100 To 200, Deduct	-4.99	
			For >200 To 400, Deduct	-9.99	
			For >400, Deduct	-14.98	
03 31	13 00-0028		Place Concrete Grade Beams (03 31 13 00-0011)		
03 31	13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	301.78	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	32.72	
			For >20 To 50, Add	12.27	
			For >100 To 200, Deduct	-6.04	
			For >200 To 400, Deduct	-12.07	
			For >400, Deduct	-18.11	
03 31	13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	256.20	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	14.48	
			For >20 To 50, Add	5.43	
			For >100 To 200, Deduct	-5.12	
			For >200 To 400, Deduct	-10.25	
			For >400, Deduct	-15.37	
03 31	13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	272.82	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-12.87	
			For 2,500 PSI Concrete, Deduct	-6.43	
			For 3,500 PSI Concrete, Add	11.92	
			For 3,750 PSI Concrete, Add	16.21	
			For 4,000 PSI Concrete, Add	20.50	
			For 4,500 PSI Concrete, Add	23.83	
			For 5,000 PSI Concrete, Add	27.17	
			For 6,000 PSI Concrete, Add	64.35	
			For White Cement Concrete, Add	28.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
			For High Early Strength, Type 3 ASTM C150, Add	23.83	
			For Lightweight Aggregate, ASTM C330, Add	71.50	
			For Up To 20, Add	13.80	
			For >20 To 50, Add	5.18	
			For >100 To 200, Deduct	-5.46	
			For >200 To 400, Deduct	-10.91	
			For >400, Deduct	-16.37	
03 31	13 00-0032		Place Concrete Slab On Grade (03 31 13 00-0011)		



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0033 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	303.70	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	33.48	
For >20 To 50, Add	12.56	
For >100 To 200, Deduct	-6.07	
For >200 To 400, Deduct	-12.15	
For >400, Deduct	-18.22	
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	283.51	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	25.41	
For >20 To 50, Add	9.53	
For >100 To 200, Deduct	-5.67	
For >200 To 400, Deduct	-11.34	
For >400, Deduct	-17.01	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	257.07	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	14.83	
For >20 To 50, Add	5.56	
For >100 To 200, Deduct	-5.14	
For >200 To 400, Deduct	-10.28	
For >400, Deduct	-15.42	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	248.11	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	11.25	
For >20 To 50, Add	4.22	
For >100 To 200, Deduct	-4.96	
For >200 To 400, Deduct	-9.92	
For >400, Deduct	-14.89	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0037	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	269.22
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-12.87
		For 2,500 PSI Concrete, Deduct	-6.43
		For 3,500 PSI Concrete, Add	11.92
		For 3,750 PSI Concrete, Add	16.21
		For 4,000 PSI Concrete, Add	20.50
		For 4,500 PSI Concrete, Add	23.83
		For 5,000 PSI Concrete, Add	27.17
		For 6,000 PSI Concrete, Add	64.35
		For White Cement Concrete, Add	28.60
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98
		For High Early Strength, Type 3 ASTM C150, Add	23.83
		For Lightweight Aggregate, ASTM C330, Add	71.50
		For Up To 20, Add	12.36
		For >20 To 50, Add	4.64
		For >100 To 200, Deduct	-5.38
		For >200 To 400, Deduct	-10.77
		For >400, Deduct	-16.15
03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	261.76
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-12.87
		For 2,500 PSI Concrete, Deduct	-6.43
		For 3,500 PSI Concrete, Add	11.92
		For 3,750 PSI Concrete, Add	16.21
		For 4,000 PSI Concrete, Add	20.50
		For 4,500 PSI Concrete, Add	23.83
		For 5,000 PSI Concrete, Add	27.17
		For 6,000 PSI Concrete, Add	64.35
		For White Cement Concrete, Add	28.60
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98
		For High Early Strength, Type 3 ASTM C150, Add	23.83
		For Lightweight Aggregate, ASTM C330, Add	71.50
		For Up To 20, Add	9.38
		For >20 To 50, Add	3.52
		For >100 To 200, Deduct	-5.24
		For >200 To 400, Deduct	-10.47
		For >400, Deduct	-15.71
03 31 13 00-0039		Place Concrete Duct Bank (03 31 13 00-0011)	
03 31 13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank	250.67
		For 2,000 PSI Concrete, Deduct	-11.88
		For 2,500 PSI Concrete, Deduct	-5.94
		For 3,500 PSI Concrete, Add	11.00
		For 3,750 PSI Concrete, Add	14.96
		For 4,000 PSI Concrete, Add	18.92
		For 4,500 PSI Concrete, Add	22.00
		For 5,000 PSI Concrete, Add	25.08
		For 6,000 PSI Concrete, Add	59.40
		For White Cement Concrete, Add	26.40
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60
		For High Early Strength, Type 3 ASTM C150, Add	22.00
		For Lightweight Aggregate, ASTM C330, Add	66.00
		For Up To 20, Add	12.27
		For >20 To 50, Add	4.60
		For >100 To 200, Deduct	-5.01
		For >200 To 400, Deduct	-10.03
		For >400, Deduct	-15.04
03 31 13 00-0041		Place Concrete Stairs (03 31 13 00-0011)	
03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	596.61
		For 2,000 PSI Concrete, Deduct	-11.88
		For 2,500 PSI Concrete, Deduct	-5.94
		For 3,500 PSI Concrete, Add	11.00
		For 3,750 PSI Concrete, Add	14.96
		For 4,000 PSI Concrete, Add	18.92
		For 4,500 PSI Concrete, Add	22.00
		For 5,000 PSI Concrete, Add	25.08
		For 6,000 PSI Concrete, Add	59.40
		For White Cement Concrete, Add	26.40
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60
		For High Early Strength, Type 3 ASTM C150, Add	22.00
		For Lightweight Aggregate, ASTM C330, Add	66.00
		For Up To 20, Add	150.65
		For >20 To 50, Add	56.49
		For >100 To 200, Deduct	-11.93
		For >200 To 400, Deduct	-23.86
		For >400, Deduct	-35.80



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0043 CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	386.81	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	66.73	
For >20 To 50, Add	25.02	
For >100 To 200, Deduct	-7.74	
For >200 To 400, Deduct	-15.47	
For >400, Deduct	-23.21	
03 31 13 00-0044 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	377.36	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	55.62	
For >20 To 50, Add	20.86	
For >100 To 200, Deduct	-7.55	
For >200 To 400, Deduct	-15.09	
For >400, Deduct	-22.64	
03 31 13 00-0045 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)		
See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0046 Place Elevated Concrete Beams (03 31 13 00-0045)		
03 31 13 00-0047 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams.....	424.46	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	81.79	
For >20 To 50, Add	30.67	
For >100 To 200, Deduct	-8.49	
For >200 To 400, Deduct	-16.98	
For >400, Deduct	-25.47	
03 31 13 00-0048 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	324.56	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	34.50	
For >20 To 50, Add	12.94	
For >100 To 200, Deduct	-6.49	
For >200 To 400, Deduct	-12.98	
For >400, Deduct	-19.47	
03 31 13 00-0049 Place Elevated Concrete Slab (03 31 13 00-0045)		

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0050	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab.....	316.25	
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.88	
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.94	
		<i>For 3,500 PSI Concrete, Add</i>	11.00	
		<i>For 3,750 PSI Concrete, Add</i>	14.96	
		<i>For 4,000 PSI Concrete, Add</i>	18.92	
		<i>For 4,500 PSI Concrete, Add</i>	22.00	
		<i>For 5,000 PSI Concrete, Add</i>	25.08	
		<i>For 6,000 PSI Concrete, Add</i>	59.40	
		<i>For White Cement Concrete, Add</i>	26.40	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	28.60	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.00	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	66.00	
		<i>For Up To 20, Add</i>	38.50	
		<i>For >20 To 50, Add</i>	14.44	
		<i>For >100 To 200, Deduct</i>	-6.33	
		<i>For >200 To 400, Deduct</i>	-12.65	
		<i>For >400, Deduct</i>	-18.98	
03 31 13 00-0051	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	293.02	
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.88	
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.94	
		<i>For 3,500 PSI Concrete, Add</i>	11.00	
		<i>For 3,750 PSI Concrete, Add</i>	14.96	
		<i>For 4,000 PSI Concrete, Add</i>	18.92	
		<i>For 4,500 PSI Concrete, Add</i>	22.00	
		<i>For 5,000 PSI Concrete, Add</i>	25.08	
		<i>For 6,000 PSI Concrete, Add</i>	59.40	
		<i>For White Cement Concrete, Add</i>	26.40	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	28.60	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.00	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	66.00	
		<i>For Up To 20, Add</i>	29.21	
		<i>For >20 To 50, Add</i>	10.95	
		<i>For >100 To 200, Deduct</i>	-5.86	
		<i>For >200 To 400, Deduct</i>	-11.72	
		<i>For >400, Deduct</i>	-17.58	
03 31 13 00-0052	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	278.92	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.87	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.43	
		<i>For 3,500 PSI Concrete, Add</i>	11.92	
		<i>For 3,750 PSI Concrete, Add</i>	16.21	
		<i>For 4,000 PSI Concrete, Add</i>	20.50	
		<i>For 4,500 PSI Concrete, Add</i>	23.83	
		<i>For 5,000 PSI Concrete, Add</i>	27.17	
		<i>For 6,000 PSI Concrete, Add</i>	64.35	
		<i>For White Cement Concrete, Add</i>	28.60	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.98	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.83	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	71.50	
		<i>For Up To 20, Add</i>	16.24	
		<i>For >20 To 50, Add</i>	6.09	
		<i>For >100 To 200, Deduct</i>	-5.58	
		<i>For >200 To 400, Deduct</i>	-11.16	
		<i>For >400, Deduct</i>	-16.74	
03 31 13 00-0053	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	269.13	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.87	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.43	
		<i>For 3,500 PSI Concrete, Add</i>	11.92	
		<i>For 3,750 PSI Concrete, Add</i>	16.21	
		<i>For 4,000 PSI Concrete, Add</i>	20.50	
		<i>For 4,500 PSI Concrete, Add</i>	23.83	
		<i>For 5,000 PSI Concrete, Add</i>	27.17	
		<i>For 6,000 PSI Concrete, Add</i>	64.35	
		<i>For White Cement Concrete, Add</i>	28.60	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.98	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.83	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	71.50	
		<i>For Up To 20, Add</i>	12.32	
		<i>For >20 To 50, Add</i>	4.62	
		<i>For >100 To 200, Deduct</i>	-5.38	
		<i>For >200 To 400, Deduct</i>	-10.77	
		<i>For >400, Deduct</i>	-16.15	

03 31 13 00-0054 Place Concrete Columns (03 31 13 00-0045)



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0055 CY 12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	440.81	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	88.33	
For >20 To 50, Add	33.12	
For >100 To 200, Deduct	-8.82	
For >200 To 400, Deduct	-17.63	
For >400, Deduct	-26.45	
03 31 13 00-0056 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	380.50	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	64.20	
For >20 To 50, Add	24.08	
For >100 To 200, Deduct	-7.61	
For >200 To 400, Deduct	-15.22	
For >400, Deduct	-22.83	
03 31 13 00-0057 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	337.36	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	46.95	
For >20 To 50, Add	17.61	
For >100 To 200, Deduct	-6.75	
For >200 To 400, Deduct	-13.49	
For >400, Deduct	-20.24	
03 31 13 00-0058 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	318.13	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	39.26	
For >20 To 50, Add	14.72	
For >100 To 200, Deduct	-6.36	
For >200 To 400, Deduct	-12.73	
For >400, Deduct	-19.09	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0059	CY	12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	331.46	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	37.26	
		For >20 To 50, Add	13.97	
		For >100 To 200, Deduct	-6.63	
		For >200 To 400, Deduct	-13.26	
		For >400, Deduct	-19.89	
03 31 13 00-0060	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	306.02	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	27.08	
		For >20 To 50, Add	10.16	
		For >100 To 200, Deduct	-6.12	
		For >200 To 400, Deduct	-12.24	
		For >400, Deduct	-18.36	
03 31 13 00-0061	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	287.82	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	19.80	
		For >20 To 50, Add	7.43	
		For >100 To 200, Deduct	-5.76	
		For >200 To 400, Deduct	-11.51	
		For >400, Deduct	-17.27	
03 31 13 00-0062	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	279.71	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	16.56	
		For >20 To 50, Add	6.21	
		For >100 To 200, Deduct	-5.59	
		For >200 To 400, Deduct	-11.19	
		For >400, Deduct	-16.78	

03 31 13 00-0063 Place Concrete Walls (03 31 13 00-0045)



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0064 CY Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	427.01	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	82.81	
For >20 To 50, Add	31.05	
For >100 To 200, Deduct	-8.54	
For >200 To 400, Deduct	-17.08	
For >400, Deduct	-25.62	
03 31 13 00-0065 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	409.85	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	75.94	
For >20 To 50, Add	28.48	
For >100 To 200, Deduct	-8.20	
For >200 To 400, Deduct	-16.39	
For >400, Deduct	-24.59	
03 31 13 00-0066 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	364.91	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	57.97	
For >20 To 50, Add	21.74	
For >100 To 200, Deduct	-7.30	
For >200 To 400, Deduct	-14.60	
For >400, Deduct	-21.89	
03 31 13 00-0067 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	311.67	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	36.67	
For >20 To 50, Add	13.75	
For >100 To 200, Deduct	-6.23	
For >200 To 400, Deduct	-12.47	
For >400, Deduct	-18.70	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0068	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	293.34	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	29.34	
	For >20 To 50, Add	11.00	
	For >100 To 200, Deduct	-5.87	
	For >200 To 400, Deduct	-11.73	
	For >400, Deduct	-17.60	
03 31 13 00-0069	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	284.17	
	For 2,000 PSI Concrete, Deduct	-11.88	
	For 2,500 PSI Concrete, Deduct	-5.94	
	For 3,500 PSI Concrete, Add	11.00	
	For 3,750 PSI Concrete, Add	14.96	
	For 4,000 PSI Concrete, Add	18.92	
	For 4,500 PSI Concrete, Add	22.00	
	For 5,000 PSI Concrete, Add	25.08	
	For 6,000 PSI Concrete, Add	59.40	
	For White Cement Concrete, Add	26.40	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
	For High Early Strength, Type 3 ASTM C150, Add	22.00	
	For Lightweight Aggregate, ASTM C330, Add	66.00	
	For Up To 20, Add	25.67	
	For >20 To 50, Add	9.63	
	For >100 To 200, Deduct	-5.68	
	For >200 To 400, Deduct	-11.37	
	For >400, Deduct	-17.05	
03 31 13 00-0070	CY Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	325.63	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	34.92	
	For >20 To 50, Add	13.10	
	For >100 To 200, Deduct	-6.51	
	For >200 To 400, Deduct	-13.03	
	For >400, Deduct	-19.54	
03 31 13 00-0071	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	308.17	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-12.87	
	For 2,500 PSI Concrete, Deduct	-6.43	
	For 3,500 PSI Concrete, Add	11.92	
	For 3,750 PSI Concrete, Add	16.21	
	For 4,000 PSI Concrete, Add	20.50	
	For 4,500 PSI Concrete, Add	23.83	
	For 5,000 PSI Concrete, Add	27.17	
	For 6,000 PSI Concrete, Add	64.35	
	For White Cement Concrete, Add	28.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
	For High Early Strength, Type 3 ASTM C150, Add	23.83	
	For Lightweight Aggregate, ASTM C330, Add	71.50	
	For Up To 20, Add	27.94	
	For >20 To 50, Add	10.48	
	For >100 To 200, Deduct	-6.16	
	For >200 To 400, Deduct	-12.33	
	For >400, Deduct	-18.49	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0072 CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	299.44	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	24.45	
For >20 To 50, Add	9.17	
For >100 To 200, Deduct	-5.99	
For >200 To 400, Deduct	-11.98	
For >400, Deduct	-17.97	
03 31 13 00-0073 Place Elevated Concrete Stairs (03 31 13 00-0045)		
03 31 13 00-0074 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	638.51	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	167.41	
For >20 To 50, Add	62.78	
For >100 To 200, Deduct	-12.77	
For >200 To 400, Deduct	-25.54	
For >400, Deduct	-38.31	
03 31 13 00-0075 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	405.33	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	74.14	
For >20 To 50, Add	27.80	
For >100 To 200, Deduct	-8.11	
For >200 To 400, Deduct	-16.21	
For >400, Deduct	-24.32	
03 31 13 00-0076 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	392.78	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	61.78	
For >20 To 50, Add	23.17	
For >100 To 200, Deduct	-7.86	
For >200 To 400, Deduct	-15.71	
For >400, Deduct	-23.57	
03 31 13 00-0077 Place Concrete Coping (03 31 13 00-0045)		

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 31 13 00-0078	CY	Crane And Bucket, Place 3,000 PSI Concrete Coping	652.98	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	173.20	
			For >20 To 50, Add	64.95	
			For >100 To 200, Deduct	-13.06	
			For >200 To 400, Deduct	-26.12	
			For >400, Deduct	-39.18	
	03 31 13 00-0079	CY	Direct Chute, Place 3,000 PSI Concrete Coping	404.09	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	73.64	
			For >20 To 50, Add	27.62	
			For >100 To 200, Deduct	-8.08	
			For >200 To 400, Deduct	-16.16	
			For >400, Deduct	-24.25	
	03 31 13 00-0080	CY	Concrete Pump, Place 3,000 PSI Concrete Coping.....	517.17	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-12.87	
			For 2,500 PSI Concrete, Deduct	-6.43	
			For 3,500 PSI Concrete, Add	11.92	
			For 3,750 PSI Concrete, Add	16.21	
			For 4,000 PSI Concrete, Add	20.50	
			For 4,500 PSI Concrete, Add	23.83	
			For 5,000 PSI Concrete, Add	27.17	
			For 6,000 PSI Concrete, Add	64.35	
			For White Cement Concrete, Add	28.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
			For High Early Strength, Type 3 ASTM C150, Add	23.83	
			For Lightweight Aggregate, ASTM C330, Add	71.50	
			For Up To 20, Add	111.54	
			For >20 To 50, Add	41.83	
			For >100 To 200, Deduct	-10.34	
			For >200 To 400, Deduct	-20.69	
			For >400, Deduct	-31.03	
	03 31 13 00-0081		Concrete Carts <small>(03 31 13 00-0010)</small>		
			Note: Used to place concrete were necessary.		
	03 31 13 00-0082	CY	50' Haul, Non Motorized, Concrete Buggy	22.10	
	03 31 13 00-0083	CY	150' Haul, Non Motorized, Concrete Buggy	29.59	
	03 31 13 00-0084	CY	250' Haul, Non Motorized, Concrete Buggy	39.46	
	03 31 13 00-0085	CY	50' Haul, Motorized, Concrete Buggy	10.06	
	03 31 13 00-0086	CY	150' Haul, Motorized, Concrete Buggy	13.47	
	03 31 13 00-0087	CY	250' Haul, Motorized, Concrete Buggy.....	17.97	
	03 31 13 00-0088		Delivery Fee For Small Purchases <small>(03 31 13)</small>		
	03 31 13 00-0089	CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	26.66	
			Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
	03 31 13 00-0090		Equipment Pads <small>(03 31 13)</small>		
	03 31 13 00-0091		Small Concrete Equipment Housekeeping Pad Assemblies <small>(03 31 13 00-0090)</small>		
			Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
	03 31 13 00-0092	SF	4" Equipment Pad With Welded Wire Reinforcement	18.08	
			For >5 To 20 Pads, Deduct	-2.11	
			For >20 To 50 Pads, Deduct	-3.87	
			For >50 Pads, Deduct	-5.63	
	03 31 13 00-0093	SF	4" Equipment Pad With Rebar	21.88	
			For >5 To 20 Pads, Deduct	-2.44	
			For >20 To 50 Pads, Deduct	-4.47	
			For >50 Pads, Deduct	-6.50	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0094 SF 6" Equipment Pad With Rebar.....	27.88	
<i>For >5 To 20 Pads, Deduct</i>	-3.06	
<i>For >20 To 50 Pads, Deduct</i>	-5.62	
<i>For >50 Pads, Deduct</i>	-8.17	
03 31 13 00-0095 SF 8" Equipment Pad With Rebar.....	35.23	
<i>For >5 To 20 Pads, Deduct</i>	-3.89	
<i>For >20 To 50 Pads, Deduct</i>	-7.13	
<i>For >50 Pads, Deduct</i>	-10.38	
03 31 13 00-0096 Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0097 EA Concrete Delivery Fee, Per Truck.....	40.00	
Note: To be added to all concrete leaving concrete yard		
03 31 16 Lightweight Structural Concrete (03 31)		
03 31 16 00-0001 Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002 CY Lightweight Low Density Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	256.57	
03 35 Concrete Finishing (03 30)		
03 35 13 High-Tolerance Concrete Floor Finishing (03 35)		
03 35 13 00-0001 Floor Finishes (03 35 13)		
Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002 SF Screed, Concrete Floor Finish.....	0.92	
<i>For Up To 100, Add</i>	1.84	
<i>For >100 To 250, Add</i>	0.46	
<i>For >250 To 500, Add</i>	0.23	
<i>For >5,000 To 10,000, Deduct</i>	-0.05	
<i>For >10,000, Deduct</i>	-0.09	
03 35 13 00-0003 SF Darby, Concrete Floor Finish.....	1.11	
<i>For Up To 100, Add</i>	2.22	
<i>For >100 To 250, Add</i>	0.56	
<i>For >250 To 500, Add</i>	0.28	
<i>For >5,000 To 10,000, Deduct</i>	-0.06	
<i>For >10,000, Deduct</i>	-0.11	
03 35 13 00-0004 SF Broom, Concrete Floor Finish.....	1.22	
<i>For Up To 100, Add</i>	2.44	
<i>For >100 To 250, Add</i>	0.61	
<i>For >250 To 500, Add</i>	0.31	
<i>For >5,000 To 10,000, Deduct</i>	-0.06	
<i>For >10,000, Deduct</i>	-0.12	
03 35 13 00-0005 SF Final Float, Concrete Floor Finish.....	1.43	
<i>For Up To 100, Add</i>	2.86	
<i>For >100 To 250, Add</i>	0.72	
<i>For >250 To 500, Add</i>	0.36	
<i>For >5,000 To 10,000, Deduct</i>	-0.07	
<i>For >10,000, Deduct</i>	-0.14	
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish.....	1.61	
<i>For Up To 100, Add</i>	3.22	
<i>For >100 To 250, Add</i>	0.81	
<i>For >250 To 500, Add</i>	0.40	
<i>For >5,000 To 10,000, Deduct</i>	-0.08	
<i>For >10,000, Deduct</i>	-0.16	
03 35 13 00-0007 SF Concrete Floor Finishes, Machine.....	1.43	
<i>For Up To 100, Add</i>	2.86	
<i>For >100 To 250, Add</i>	0.72	
<i>For >250 To 500, Add</i>	0.36	
<i>For >5,000 To 10,000, Deduct</i>	-0.07	
<i>For >10,000, Deduct</i>	-0.14	
03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.26	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener.....	2.02	
03 35 16 00-0004 SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener.....	1.18	
03 35 16 00-0005 SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener.....	1.49	
03 35 19 Colored Concrete Finishing (03 35)		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent.....	0.47	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent.....	2.74	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproof.....	0.33	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproof.....	0.35	
03 35 23 Exposed Aggregate Concrete Finishing (03 35)		

03	03	Concrete
	03 30	Cast-In-Place Concrete
	03 35	Concrete Finishing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 23 00-0001 Exposed Aggregate, Concrete Finish <small>(03 35 23)</small>		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish	3.04	
03 35 26 Grooved Concrete Surface Finishing <small>(03 35)</small>		
03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing <small>(03 35 26)</small>		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing	4.12	
03 35 29 Tooled Concrete Finishing <small>(03 35)</small>		
03 35 29 00-0001 Solid Board Concrete Finish <small>(03 35 29)</small>		
03 35 29 00-0002 SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork.....	16.86	
03 35 29 00-0003 Marblecrete Finishes <small>(03 35 29)</small>		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish	51.44	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish	68.86	
03 35 33 Stamped Concrete Finishing <small>(03 35)</small>		
03 35 33 00-0001 Stamped Concrete Finishes <small>(03 35 33)</small>		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish	3.69	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish.....	3.35	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish.....	3.20	
03 35 43 Polished Concrete Finishing <small>(03 35)</small>		
03 35 43 00-0001 Concrete Floor Polishing System <small>(03 35 43)</small>		
Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.		
03 35 43 00-0002 SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels.....	1.75	
For Up To 500, Add	3.32	
For >500 To 1,000, Add	3.08	
For >1,000 To 2,500, Add	2.03	
For >2,500 To 4,000, Add	1.06	
For >8,000 To 15,000, Deduct	-0.41	
For >15,000 To 25,000, Deduct	-0.52	
For >25,000, Deduct	-0.74	
03 35 43 00-0003 SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels.....	1.41	
For Up To 500, Add	2.66	
For >500 To 1,000, Add	2.47	
For >1,000 To 2,500, Add	1.63	
For >2,500 To 4,000, Add	0.85	
For >8,000 To 15,000, Deduct	-0.33	
For >15,000 To 25,000, Deduct	-0.42	
For >25,000, Deduct	-0.59	
03 35 43 00-0004 SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	1.18	
For Up To 500, Add	2.21	
For >500 To 1,000, Add	2.05	
For >1,000 To 2,500, Add	1.36	
For >2,500 To 4,000, Add	0.71	
For >8,000 To 15,000, Deduct	-0.27	
For >15,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.49	
03 35 43 00-0005 SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels.....	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0006 SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0007 SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0008 SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0009 SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	1.01	
For Up To 500, Add	1.88	
For >500 To 1,000, Add	1.75	
For >1,000 To 2,500, Add	1.15	
For >2,500 To 4,000, Add	0.60	
For >8,000 To 15,000, Deduct	-0.23	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.25	
For Up To 500, Add	0.41	
For >500 To 1,000, Add	0.38	
For >1,000 To 2,500, Add	0.25	
For >2,500 To 4,000, Add	0.13	
For >8,000 To 15,000, Deduct	-0.05	
For >15,000 To 25,000, Deduct	-0.06	
For >25,000, Deduct	-0.09	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier	0.44	
For Up To 500, Add	0.50	
For >500 To 1,000, Add	0.47	
For >1,000 To 2,500, Add	0.31	
For >2,500 To 4,000, Add	0.16	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.08	
For >25,000, Deduct	-0.11	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector	0.75	
For Up To 500, Add	0.76	
For >500 To 1,000, Add	0.70	
For >1,000 To 2,500, Add	0.46	
For >2,500 To 4,000, Add	0.24	
For >8,000 To 15,000, Deduct	-0.09	
For >15,000 To 25,000, Deduct	-0.12	
For >25,000, Deduct	-0.17	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up.....	0.14	
For Up To 500, Add	0.27	
For >500 To 1,000, Add	0.25	
For >1,000 To 2,500, Add	0.17	
For >2,500 To 4,000, Add	0.09	
For >8,000 To 15,000, Deduct	-0.03	
For >15,000 To 25,000, Deduct	-0.04	
For >25,000, Deduct	-0.06	
03 35 63 Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.28	
For Up To 100, Add	1.78	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.09	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.16	
For Up To 100, Add	1.78	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.09	
03 35 66 Acid Etch Floor Finishing (03 35)		
03 35 66 00-0001 Acid Etch Floor (03 35 66)		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse	1.12	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.04	
03 35 83 Concrete Wall Finishing (03 35)		
03 35 83 00-0001 Wall Finishes (03 35 83)		

03	Concrete
03 30	Cast-In-Place Concrete
03 35	Concrete Finishing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0002 SF Burlap Rub With Grout, New Concrete Wall Finishes.....	1.68	
For Up To 100, Add	3.10	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.16	
03 35 83 00-0003 SF 1/16" Float Finish, New Concrete Wall Finishes	2.51	
For Up To 100, Add	4.64	
For >100 To 250, Add	1.16	
For >250 To 500, Add	0.58	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000, Deduct	-0.23	
03 35 83 00-0004 SF Etch With Acid And Rinse, New Concrete Wall Finishes	1.21	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000, Deduct	-0.05	
03 35 83 00-0005 SF Bush Hammer Green Concrete, New Concrete Wall Finishes.....	4.97	
For Up To 100, Add	9.82	
For >100 To 250, Add	2.46	
For >250 To 500, Add	1.23	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000, Deduct	-0.49	
03 35 83 00-0006 SF Bush Hammer Cured Concrete, New Concrete Wall Finishes.....	7.72	
For Up To 100, Add	15.18	
For >100 To 250, Add	3.80	
For >250 To 500, Add	1.90	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000, Deduct	-0.76	
03 35 83 00-0007 SF Break Ties And Patch, New Concrete Wall Finishes	0.99	
For Up To 100, Add	1.66	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.21	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.08	
03 35 83 00-0008 SF Carborundum Dry Rub, New Concrete Wall Finishes.....	3.25	
For Up To 100, Add	6.18	
For >100 To 250, Add	1.55	
For >250 To 500, Add	0.77	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000, Deduct	-0.31	
03 35 83 00-0009 SF Carborundum Wet Rub, New Concrete Wall Finishes	4.93	
For Up To 100, Add	9.54	
For >100 To 250, Add	2.39	
For >250 To 500, Add	1.19	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000, Deduct	-0.48	
03 35 83 00-0010 SF Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	4.75	
Note: 4.5 Lbs of sand or abrasive material per SF		
For Up To 100, Add	7.80	
For >100 To 250, Add	1.95	
For >250 To 500, Add	0.98	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000, Deduct	-0.39	
03 35 83 00-0011 SF >1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	9.52	
Note: 9 Lbs of sand abrasive material per SF		
For Up To 100, Add	15.62	
For >100 To 250, Add	3.91	
For >250 To 500, Add	1.95	
For >5,000 To 10,000, Deduct	-0.39	
For >10,000, Deduct	-0.78	

03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete (03 37)

03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

03 37 13 00-0002 SF 1" Thick Shotcrete, Fiber Reinforced	3.12	
For Up To 25, Add	0.59	
For >25 To 50, Add	0.34	
For >50 To 150, Add	0.14	
03 37 13 00-0003 SF 2" Thick Shotcrete, Fiber Reinforced	5.88	
For Up To 25, Add	1.08	
For >25 To 50, Add	0.62	
For >50 To 150, Add	0.25	
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced	8.32	
For Up To 25, Add	1.49	
For >25 To 50, Add	0.86	
For >50 To 150, Add	0.33	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced	10.51	
For Up To 25, Add	1.85	
For >25 To 50, Add	1.06	
For >50 To 150, Add	0.40	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Specialty Placed Concrete	03 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0006	SF		6" Thick Shotcrete, Fiber Reinforced	14.26	
			For Up To 25, Add	2.39	
			For >25 To 50, Add	1.36	
			For >50 To 150, Add	0.48	
03 37 13 00-0007			Gunite (Dry Mix Shotcrete), Sprayed <small>(03 37 13)</small>		
			See CSI section 03 22 11 00-0001 for wire mesh reinforcing.		
03 37 13 00-0008	SF		1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.39	
			For Radius Or Irregular Surface, Add	1.00	
			For Up To 25, Add	0.71	
			For >25 To 50, Add	0.42	
			For >50 To 150, Add	0.19	
03 37 13 00-0009	SF		2" Thick Gunite (Dry Mix Shotcrete), Sprayed	6.27	
			For Radius Or Irregular Surface, Add	1.80	
			For Up To 25, Add	1.30	
			For >25 To 50, Add	0.76	
			For >50 To 150, Add	0.34	
03 37 13 00-0010	SF		3" Thick Gunite (Dry Mix Shotcrete), Sprayed	8.73	
			For Radius Or Irregular Surface, Add	2.43	
			For Up To 25, Add	1.78	
			For >25 To 50, Add	1.04	
			For >50 To 150, Add	0.46	
03 37 13 00-0011	SF		4" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.83	
			For Radius Or Irregular Surface, Add	2.91	
			For Up To 25, Add	2.18	
			For >25 To 50, Add	1.27	
			For >50 To 150, Add	0.55	
03 37 13 00-0012	SF		5" Thick Gunite (Dry Mix Shotcrete), Sprayed	12.64	
			For Radius Or Irregular Surface, Add	3.28	
			For Up To 25, Add	2.49	
			For >25 To 50, Add	1.45	
			For >50 To 150, Add	0.62	
03 37 13 00-0013	SF		6" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.18	
			For Radius Or Irregular Surface, Add	3.54	
			For Up To 25, Add	2.75	
			For >25 To 50, Add	1.60	
			For >50 To 150, Add	0.66	
03 37 13 00-0014	SF		8" Thick Gunite (Dry Mix Shotcrete), Sprayed	17.72	
			For Radius Or Irregular Surface, Add	4.25	
			For Up To 25, Add	3.37	
			For >25 To 50, Add	1.95	
			For >50 To 150, Add	0.80	
03 37 13 00-0015	SF		10" Thick Gunite (Dry Mix Shotcrete), Sprayed	20.83	
			For Radius Or Irregular Surface, Add	4.78	
			For Up To 25, Add	3.88	
			For >25 To 50, Add	2.24	
			For >50 To 150, Add	0.90	
03 37 13 00-0016	SF		12" Thick Gunite (Dry Mix Shotcrete), Sprayed	23.56	
			For Radius Or Irregular Surface, Add	5.16	
			For Up To 25, Add	4.29	
			For >25 To 50, Add	2.47	
			For >50 To 150, Add	0.97	

03 37 16 Pumped Concrete (03 37)

03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002	HR		55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	170.16	
03 37 16 00-0003	HR		70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	181.52	
03 37 16 00-0004	HR		90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	222.54	
03 37 16 00-0005	HR		105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	248.08	
03 37 16 00-0006	HR		120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	274.43	
03 37 16 00-0007	HR		135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	330.25	
03 37 16 00-0008	HR		148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	363.55	
03 37 16 00-0009	HR		170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	444.21	
03 37 16 00-0010	HR		35 CY/HR, 66 HP Trailer Mounted Concrete Pump	122.57	
			Note: Includes hoses		

03 39 Concrete Curing (03 39)

03 39 13 Water Concrete Curing (03 39)

03 39 13 00-0001 Water Concrete Curing (03 39 13)

03 39 13 00-0002	SF		Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.31	
			Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		

03	Concrete
03 30	Cast-In-Place Concrete
03 39	Concrete Curing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 39 23 Membrane Concrete Curing (03 39)

03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)

03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0002 CSF Warm Weather Concrete Curing Blankets 35.16

03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0004 CSF Electric, Cold Weather Concrete Curing Blanket 248.74
03 39 23 23-0005 CSF Non-Electric, Cold Weather Concrete Curing Blanket..... 32.23

03 40 Precast Concrete (03)

Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Includes the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.

03 41 Precast Structural Concrete (03 40)

03 41 16 Precast Concrete Slabs (03 41)

03 41 16 00-0001 Flat Floor Slab/Floor Plank (03 41 16)

03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane (03 41 16 00-0001)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0003	EA	Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane.....	336.93	269.57
03 41 16 00-0004	EA	Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	374.55	299.59
03 41 16 00-0005	EA	Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	397.72	318.16
03 41 16 00-0006	EA	Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane.....	421.63	337.32
03 41 16 00-0007	EA	Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	451.21	360.95
03 41 16 00-0008	EA	Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	482.23	385.79
03 41 16 00-0009	EA	Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	517.83	414.24
03 41 16 00-0010	EA	Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	563.20	450.52
03 41 16 00-0011	EA	Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane.....	612.36	489.95

03 41 16 00-0012 Material Cost (03 41 16 00-0001)

Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.

03 41 16 00-0013	SF	4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	28.19	
		For 3,500 PSI Concrete, Add	0.56	
		For 4,000 PSI Concrete, Add	0.85	
		For 4,500 PSI Concrete, Add	1.13	
		For 5,000 PSI Concrete, Add	1.69	
03 41 16 00-0014	SF	5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	33.83	
		For 3,500 PSI Concrete, Add	0.68	
		For 4,000 PSI Concrete, Add	1.01	
		For 4,500 PSI Concrete, Add	1.35	
		For 5,000 PSI Concrete, Add	2.03	
03 41 16 00-0015	SF	6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	41.35	
		For 3,500 PSI Concrete, Add	0.83	
		For 4,000 PSI Concrete, Add	1.24	
		For 4,500 PSI Concrete, Add	1.65	
		For 5,000 PSI Concrete, Add	2.48	
03 41 16 00-0016	SF	8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	54.88	
		For 3,500 PSI Concrete, Add	1.10	
		For 4,000 PSI Concrete, Add	1.65	
		For 4,500 PSI Concrete, Add	2.20	
		For 5,000 PSI Concrete, Add	3.29	

03 41 16 00-0017 Floor Units, Combination Beam And Slab (03 41 16)

03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0019	EA	Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	415.09	332.06
03 41 16 00-0020	EA	Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	452.43	361.98
03 41 16 00-0021	EA	Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane.....	500.05	399.99
03 41 16 00-0022	EA	Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane.....	555.25	444.17
03 41 16 00-0023	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane.....	624.15	499.27

03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0025	EA	Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane.....	531.12	424.92
03 41 16 00-0026	EA	Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane.....	578.89	463.08
03 41 16 00-0027	EA	Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	639.83	511.90
03 41 16 00-0028	EA	Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	710.46	568.39
03 41 16 00-0029	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	798.62	638.96
03 41 16 00-0030	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	868.34	694.62



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	959.74	767.79
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	1,062.24	849.85
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	1,202.32	961.86
03 41 16 00-0034 Material Cost <small>(03 41 16 00-0017)</small> Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035 4" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,969.55	
For 3,500 PSI Concrete, Add	59.39	
For 4,000 PSI Concrete, Add	89.09	
For 4,500 PSI Concrete, Add	118.78	
For 5,000 PSI Concrete, Add	178.17	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,007.14	
For 3,500 PSI Concrete, Add	60.14	
For 4,000 PSI Concrete, Add	90.21	
For 4,500 PSI Concrete, Add	120.29	
For 5,000 PSI Concrete, Add	180.43	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,383.03	
For 3,500 PSI Concrete, Add	67.66	
For 4,000 PSI Concrete, Add	101.49	
For 4,500 PSI Concrete, Add	135.32	
For 5,000 PSI Concrete, Add	202.98	
03 41 16 00-0039 5" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,044.73	
For 3,500 PSI Concrete, Add	60.89	
For 4,000 PSI Concrete, Add	91.34	
For 4,500 PSI Concrete, Add	121.79	
For 5,000 PSI Concrete, Add	182.68	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,157.49	
For 3,500 PSI Concrete, Add	63.15	
For 4,000 PSI Concrete, Add	94.72	
For 4,500 PSI Concrete, Add	126.30	
For 5,000 PSI Concrete, Add	189.45	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,022.05	
For 3,500 PSI Concrete, Add	80.44	
For 4,000 PSI Concrete, Add	120.66	
For 4,500 PSI Concrete, Add	160.88	
For 5,000 PSI Concrete, Add	241.32	
03 41 16 00-0043 6" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0044 CY Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,157.49	
For 3,500 PSI Concrete, Add	63.15	
For 4,000 PSI Concrete, Add	94.72	
For 4,500 PSI Concrete, Add	126.30	
For 5,000 PSI Concrete, Add	189.45	
03 41 16 00-0045 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,758.92	
For 3,500 PSI Concrete, Add	75.18	
For 4,000 PSI Concrete, Add	112.77	
For 4,500 PSI Concrete, Add	150.36	
For 5,000 PSI Concrete, Add	225.54	
03 41 16 00-0046 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,585.88	
For 3,500 PSI Concrete, Add	91.72	
For 4,000 PSI Concrete, Add	137.58	
For 4,500 PSI Concrete, Add	183.44	
For 5,000 PSI Concrete, Add	275.15	
03 41 19 Precast Concrete Wall Panels <small>(03 41)</small>		
03 41 19 00-0001 Structural Wall Panels <small>(03 41 19)</small> Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0001)</small> Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003 EA Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	331.20	264.99
03 41 19 00-0004 EA Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	368.19	294.50
03 41 19 00-0005 EA Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	414.46	331.59
03 41 19 00-0006 EA Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	443.54	354.82
03 41 19 00-0007 EA Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	474.04	379.23
03 41 19 00-0008 EA Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	509.04	407.20
03 41 19 00-0009 EA Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	553.63	442.87
03 41 19 00-0010 EA Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	601.96	481.62
03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane <small>(03 41 19 00-0001)</small> Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012 EA Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	373.39	298.68

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0013	EA		Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	415.09	332.06
03 41 19 00-0014	EA		Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	467.26	373.86
03 41 19 00-0015	EA		Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	500.05	399.99
03 41 19 00-0016	EA		Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	534.42	427.54
03 41 19 00-0017	EA		Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	573.88	459.13
03 41 19 00-0018	EA		Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	624.15	499.27
03 41 19 00-0019	EA		Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	678.64	542.86
03 41 19 00-0020	EA		Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	750.08	600.11
03 41 19 00-0021	EA		Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	830.18	664.11
03 41 19 00-0022	EA		Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	939.65	751.76
03 41 19 00-0023	EA		Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,068.86	855.08
03 41 19 00-0024	EA		Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,239.25	991.42

03 41 19 00-0025**Material Cost** (03 41 19 00-0001)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.

03 41 19 00-0026	SF		4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	37.59	
			For 3,500 PSI Concrete, Add	0.75	
			For 4,000 PSI Concrete, Add	1.13	
			For 4,500 PSI Concrete, Add	1.50	
			For 5,000 PSI Concrete, Add	2.26	
			For White Facing, Add	7.52	
			For Solid White Through Thickness, Add	7.52	
			For Broken Rib Finish, Add	3.76	
			For Fluted Surface, Add	3.76	
			For Exposed Aggregate, Add	7.52	
			For Sandblasting Of Surface, Add	3.76	
			For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0027	SF		5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	46.23	
			For 3,500 PSI Concrete, Add	0.92	
			For 4,000 PSI Concrete, Add	1.39	
			For 4,500 PSI Concrete, Add	1.85	
			For 5,000 PSI Concrete, Add	2.77	
			For White Facing, Add	9.25	
			For Solid White Through Thickness, Add	9.25	
			For Broken Rib Finish, Add	4.62	
			For Fluted Surface, Add	4.62	
			For Exposed Aggregate, Add	9.25	
			For Sandblasting Of Surface, Add	4.62	
			For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0028	SF		6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	55.63	
			For 3,500 PSI Concrete, Add	1.11	
			For 4,000 PSI Concrete, Add	1.67	
			For 4,500 PSI Concrete, Add	2.23	
			For 5,000 PSI Concrete, Add	3.34	
			For White Facing, Add	11.13	
			For Solid White Through Thickness, Add	11.13	
			For Broken Rib Finish, Add	5.56	
			For Fluted Surface, Add	5.56	
			For Exposed Aggregate, Add	11.13	
			For Sandblasting Of Surface, Add	5.56	
			For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0029	SF		8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	73.30	
			For 3,500 PSI Concrete, Add	1.47	
			For 4,000 PSI Concrete, Add	2.20	
			For 4,500 PSI Concrete, Add	2.93	
			For 5,000 PSI Concrete, Add	4.40	
			For White Facing, Add	14.66	
			For Solid White Through Thickness, Add	14.66	
			For Broken Rib Finish, Add	7.33	
			For Fluted Surface, Add	7.33	
			For Exposed Aggregate, Add	14.66	
			For Sandblasting Of Surface, Add	7.33	
			For 2" Polystyrene Insulation, Add	1.15	

03 41 19 00-0030**Partition Panels** (03 41 19)**03 41 19 00-0031****Erection Costs Using 20 Ton Hydraulic Crane** (03 41 19 00-0030)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 19 00-0032	EA		Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	267.46	213.93
03 41 19 00-0033	EA		Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	297.33	237.89
03 41 19 00-0034	EA		Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	334.69	267.75
03 41 19 00-0035	EA		Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	382.81	306.25
03 41 19 00-0036	EA		Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	411.06	328.89
03 41 19 00-0037	EA		Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	447.07	357.64
03 41 19 00-0038	EA		Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	486.10	388.93
03 41 19 00-0039	EA		Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	537.27	429.83

03 41 19 00-0040**Erection Costs Using 50 Ton Hydraulic Crane** (03 41 19 00-0030)

Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	331.20	264.99
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	368.19	294.50
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	414.46	331.59
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	474.04	379.23
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	509.04	407.20
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	553.63	442.87
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	601.96	481.62
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	665.32	532.23
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	736.37	589.11
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	833.48	666.74
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	948.08	758.46
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	1,099.22	879.34
03 41 19 00-0053 Material Cost <small>(03 41 19 00-0030)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	35.71	
For 4,000 PSI Concrete, Add	1.07	
For 4,500 PSI Concrete, Add	1.43	
For 5,000 PSI Concrete, Add	2.14	
For White Facing, Add	7.14	
For Solid White Through Thickness, Add	7.14	
For Broken Rib Finish, Add	3.57	
For Fluted Surface, Add	3.57	
For Exposed Aggregate, Add	7.14	
For Sandblasting Of Surface, Add	3.57	
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	43.98	
For 4,000 PSI Concrete, Add	1.32	
For 4,500 PSI Concrete, Add	1.76	
For 5,000 PSI Concrete, Add	2.64	
For White Facing, Add	8.80	
For Solid White Through Thickness, Add	8.80	
For Broken Rib Finish, Add	4.40	
For Fluted Surface, Add	4.40	
For Exposed Aggregate, Add	8.80	
For Sandblasting Of Surface, Add	4.40	
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	52.62	
For 4,000 PSI Concrete, Add	1.58	
For 4,500 PSI Concrete, Add	2.10	
For 5,000 PSI Concrete, Add	3.16	
For White Facing, Add	10.52	
For Solid White Through Thickness, Add	10.52	
For Broken Rib Finish, Add	5.26	
For Fluted Surface, Add	5.26	
For Exposed Aggregate, Add	10.52	
For Sandblasting Of Surface, Add	5.26	
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	69.54	
For 4,000 PSI Concrete, Add	2.09	
For 4,500 PSI Concrete, Add	2.78	
For 5,000 PSI Concrete, Add	4.17	
For White Facing, Add	13.91	
For Solid White Through Thickness, Add	13.91	
For Broken Rib Finish, Add	6.95	
For Fluted Surface, Add	6.95	
For Exposed Aggregate, Add	13.91	
For Sandblasting Of Surface, Add	6.95	
03 41 19 00-0058 Cladding Panels <small>(03 41 19)</small>		
03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0058)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	349.52	279.57
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	390.96	312.75
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	443.54	354.82
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	474.04	379.23
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	509.04	407.20
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	553.63	442.87
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	601.96	481.62
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	665.32	532.23
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane <small>(03 41 19 00-0058)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	394.05	315.19
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	440.76	352.60
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	500.05	399.99
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	534.42	427.54
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	573.88	459.13
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	624.15	499.27
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	678.64	542.86

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0076	EA		Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	750.08	600.11
03 41 19 00-0077	EA		Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	830.18	664.11
03 41 19 00-0078	EA		Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	939.65	751.76
03 41 19 00-0079	EA		Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,068.86	855.08
03 41 19 00-0080	EA		Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,239.25	991.42
03 41 19 00-0081			Material Cost <small>(03 41 19 00-0058)</small>		
			Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082	SF		4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	35.71	
			<i>For 3,500 PSI Concrete, Add</i>	0.71	
			<i>For 4,000 PSI Concrete, Add</i>	1.07	
			<i>For 4,500 PSI Concrete, Add</i>	1.43	
			<i>For 5,000 PSI Concrete, Add</i>	2.14	
			<i>For White Facing, Add</i>	7.14	
			<i>For Solid White Through Thickness, Add</i>	7.14	
			<i>For Broken Rib Finish, Add</i>	3.57	
			<i>For Fluted Surface, Add</i>	3.57	
			<i>For Exposed Aggregate, Add</i>	7.14	
			<i>For Sandblasting Of Surface, Add</i>	3.57	
03 41 19 00-0083	SF		5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	43.98	
			<i>For 3,500 PSI Concrete, Add</i>	0.88	
			<i>For 4,000 PSI Concrete, Add</i>	1.32	
			<i>For 4,500 PSI Concrete, Add</i>	1.76	
			<i>For 5,000 PSI Concrete, Add</i>	2.64	
			<i>For White Facing, Add</i>	8.80	
			<i>For Solid White Through Thickness, Add</i>	8.80	
			<i>For Broken Rib Finish, Add</i>	4.40	
			<i>For Fluted Surface, Add</i>	4.40	
			<i>For Exposed Aggregate, Add</i>	8.80	
			<i>For Sandblasting Of Surface, Add</i>	4.40	
03 41 19 00-0084	SF		6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	52.62	
			<i>For 3,500 PSI Concrete, Add</i>	1.05	
			<i>For 4,000 PSI Concrete, Add</i>	1.58	
			<i>For 4,500 PSI Concrete, Add</i>	2.10	
			<i>For 5,000 PSI Concrete, Add</i>	3.16	
			<i>For White Facing, Add</i>	10.52	
			<i>For Solid White Through Thickness, Add</i>	10.52	
			<i>For Broken Rib Finish, Add</i>	5.26	
			<i>For Fluted Surface, Add</i>	5.26	
			<i>For Exposed Aggregate, Add</i>	10.52	
			<i>For Sandblasting Of Surface, Add</i>	5.26	
03 41 19 00-0085	SF		8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	69.54	
			<i>For 3,500 PSI Concrete, Add</i>	1.39	
			<i>For 4,000 PSI Concrete, Add</i>	2.09	
			<i>For 4,500 PSI Concrete, Add</i>	2.78	
			<i>For 5,000 PSI Concrete, Add</i>	4.17	
			<i>For White Facing, Add</i>	13.91	
			<i>For Solid White Through Thickness, Add</i>	13.91	
			<i>For Broken Rib Finish, Add</i>	6.95	
			<i>For Fluted Surface, Add</i>	6.95	
			<i>For Exposed Aggregate, Add</i>	13.91	
			<i>For Sandblasting Of Surface, Add</i>	6.95	
03 41 19 00-0086			Sandwich Panel <small>(03 41 19)</small>		
03 41 19 00-0087			Erection Costs Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0086)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088	EA		Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	349.52	279.57
03 41 19 00-0089	EA		Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	390.96	312.75
03 41 19 00-0090	EA		Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	443.54	354.82
03 41 19 00-0091	EA		Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	474.04	379.23
03 41 19 00-0092	EA		Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	509.04	407.20
03 41 19 00-0093	EA		Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	553.63	442.87
03 41 19 00-0094	EA		Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	601.96	481.62
03 41 19 00-0095	EA		Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	665.32	532.23
03 41 19 00-0096			Erection Costs Using 90 Ton Crawler Crane <small>(03 41 19 00-0086)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097	EA		Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	355.56	284.40
03 41 19 00-0098	EA		Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	397.72	318.16
03 41 19 00-0099	EA		Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	451.21	360.95
03 41 19 00-0100	EA		Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	482.23	385.79
03 41 19 00-0101	EA		Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	517.83	414.24
03 41 19 00-0102	EA		Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	563.20	450.52
03 41 19 00-0103	EA		Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	612.36	489.95
03 41 19 00-0104	EA		Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	676.82	541.43
03 41 19 00-0105	EA		Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	749.10	599.29
03 41 19 00-0106	EA		Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	847.88	678.26
03 41 19 00-0107	EA		Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	964.47	771.57



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0108 EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,118.22	894.54
03 41 19 00-0109 Material Cost <small>(03 41 19 00-0086)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.		
03 41 19 00-0110 SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	48.87	
For 3,500 PSI Concrete, Add	0.98	
For 4,000 PSI Concrete, Add	1.47	
For 4,500 PSI Concrete, Add	1.95	
For 5,000 PSI Concrete, Add	2.93	
For White Facing, Add	9.77	
For Solid White Through Thickness, Add	9.77	
For Broken Rib Finish, Add	4.89	
For Fluted Surface, Add	4.89	
For Exposed Aggregate, Add	9.77	
For Sandblasting Of Surface, Add	4.89	
03 41 19 00-0111 SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	57.51	
For 3,500 PSI Concrete, Add	1.15	
For 4,000 PSI Concrete, Add	1.73	
For 4,500 PSI Concrete, Add	2.30	
For 5,000 PSI Concrete, Add	3.45	
For White Facing, Add	11.50	
For Solid White Through Thickness, Add	11.50	
For Broken Rib Finish, Add	5.75	
For Fluted Surface, Add	5.75	
For Exposed Aggregate, Add	11.50	
For Sandblasting Of Surface, Add	5.75	
03 41 19 00-0112 SF 6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	66.91	
For 3,500 PSI Concrete, Add	1.34	
For 4,000 PSI Concrete, Add	2.01	
For 4,500 PSI Concrete, Add	2.68	
For 5,000 PSI Concrete, Add	4.01	
For White Facing, Add	13.38	
For Solid White Through Thickness, Add	13.38	
For Broken Rib Finish, Add	6.69	
For Fluted Surface, Add	6.69	
For Exposed Aggregate, Add	13.38	
For Sandblasting Of Surface, Add	6.69	
03 41 19 00-0113 SF 8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	84.58	
For 3,500 PSI Concrete, Add	1.69	
For 4,000 PSI Concrete, Add	2.54	
For 4,500 PSI Concrete, Add	3.38	
For 5,000 PSI Concrete, Add	5.07	
For White Facing, Add	16.92	
For Solid White Through Thickness, Add	16.92	
For Broken Rib Finish, Add	8.46	
For Fluted Surface, Add	8.46	
For Exposed Aggregate, Add	16.92	
For Sandblasting Of Surface, Add	8.46	
03 41 23 Precast Concrete Stairs <small>(03 41)</small>		
03 41 23 00-0001 Erection Costs Using A 50 Ton Hydraulic Crane <small>(03 41 23)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 23 00-0002 EA Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	368.19	294.50
03 41 23 00-0003 EA Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	390.96	312.75
03 41 23 00-0004 EA Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	414.46	331.59
03 41 23 00-0005 EA Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	443.54	354.82
03 41 23 00-0006 EA Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	474.04	379.23
03 41 23 00-0007 EA Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	509.04	407.20
03 41 23 00-0008 EA Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	553.63	442.87
03 41 23 00-0009 EA Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	601.96	481.62
03 41 23 00-0010 Erection Costs Using A 90 Ton Crawler Crane <small>(03 41 23)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 23 00-0011 EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane.....	368.19	294.50
03 41 23 00-0012 EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	390.96	312.75
03 41 23 00-0013 EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	414.46	331.59
03 41 23 00-0014 EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	443.54	354.82
03 41 23 00-0015 EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	474.04	379.23
03 41 23 00-0016 EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	509.04	407.20
03 41 23 00-0017 EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	553.63	442.87
03 41 23 00-0018 EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	601.96	481.62
03 41 23 00-0019 Material Cost <small>(03 41 23)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast operations.		

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 23 00-0020 EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	753.33	
For 3,500 PSI Concrete, Add	98.31	
For 4,000 PSI Concrete, Add	184.72	
For 4,500 PSI Concrete, Add	271.50	
For 5,000 PSI Concrete, Add	369.36	
03 41 26 Precast Concrete Structural Sections (03 41)		
03 41 26 00-0001 Precast Beams, Girder And Joists (03 41 26)		
03 41 26 00-0002 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0003 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	467.26	373.86
03 41 26 00-0004 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	500.05	399.99
03 41 26 00-0005 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane.....	534.42	427.54
03 41 26 00-0006 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane.....	573.88	459.13
03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane (03 41 26 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0008 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane.....	597.87	478.26
03 41 26 00-0009 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane.....	639.83	511.90
03 41 26 00-0010 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane.....	683.82	547.06
03 41 26 00-0011 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane.....	734.30	587.40
03 41 26 00-0012 EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane.....	798.62	638.96
03 41 26 00-0013 EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane.....	868.34	694.62
03 41 26 00-0014 EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane.....	959.74	767.79
03 41 26 00-0015 EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane.....	1,062.24	849.85
03 41 26 00-0016 Material Cost (03 41 26 00-0001)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 26 00-0017 1,000 LB/LF Live Load (03 41 26 00-0016)		
03 41 26 00-0018 LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	150.64	
For 3,500 PSI Concrete, Add	4.11	
For 4,000 PSI Concrete, Add	6.18	
For 4,500 PSI Concrete, Add	8.22	
For 5,000 PSI Concrete, Add	12.35	
03 41 26 00-0019 LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	188.30	
For 3,500 PSI Concrete, Add	5.14	
For 4,000 PSI Concrete, Add	7.72	
For 4,500 PSI Concrete, Add	10.28	
For 5,000 PSI Concrete, Add	15.44	
03 41 26 00-0020 LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	225.97	
For 3,500 PSI Concrete, Add	6.17	
For 4,000 PSI Concrete, Add	9.26	
For 4,500 PSI Concrete, Add	12.34	
For 5,000 PSI Concrete, Add	18.53	
03 41 26 00-0021 3,000 LB/LF Live Load (03 41 26 00-0016)		
03 41 26 00-0022 LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	188.30	
For 3,500 PSI Concrete, Add	5.14	
For 4,000 PSI Concrete, Add	7.72	
For 4,500 PSI Concrete, Add	10.28	
For 5,000 PSI Concrete, Add	15.44	
03 41 26 00-0023 LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	225.97	
For 3,500 PSI Concrete, Add	6.17	
For 4,000 PSI Concrete, Add	9.26	
For 4,500 PSI Concrete, Add	12.34	
For 5,000 PSI Concrete, Add	18.53	
03 41 26 00-0024 LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	301.29	
For 3,500 PSI Concrete, Add	8.23	
For 4,000 PSI Concrete, Add	12.35	
For 4,500 PSI Concrete, Add	16.45	
For 5,000 PSI Concrete, Add	24.71	
03 41 26 00-0025 5,000 LB/LF Live Load (03 41 26 00-0016)		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	263.63	
For 3,500 PSI Concrete, Add	7.20	
For 4,000 PSI Concrete, Add	10.81	
For 4,500 PSI Concrete, Add	14.39	
For 5,000 PSI Concrete, Add	21.62	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	301.29	
For 3,500 PSI Concrete, Add	8.23	
For 4,000 PSI Concrete, Add	12.35	
For 4,500 PSI Concrete, Add	16.45	
For 5,000 PSI Concrete, Add	24.71	



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	376.61	
For 3,500 PSI Concrete, Add	10.28	
For 4,000 PSI Concrete, Add	15.44	
For 4,500 PSI Concrete, Add	20.56	
For 5,000 PSI Concrete, Add	30.88	
03 41 26 00-0029 Precast Concrete Columns (03 41 26)		
03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0029)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	269.78	215.80
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	286.83	229.42
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	307.40	245.94
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	329.73	263.79
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	355.56	284.40
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	385.79	308.63
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	421.63	337.32
03 41 26 00-0038 Material Cost (03 41 26 00-0029)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039 12" x 12" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY	779.70	
For 3,500 PSI Concrete, Add	58.48	
For 4,000 PSI Concrete, Add	109.94	
For 4,500 PSI Concrete, Add	162.18	
For 5,000 PSI Concrete, Add	220.66	
03 41 26 00-0041 16" x 16" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0042 CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY	798.95	
For 3,500 PSI Concrete, Add	59.92	
For 4,000 PSI Concrete, Add	112.65	
For 4,500 PSI Concrete, Add	166.18	
For 5,000 PSI Concrete, Add	226.10	
03 41 26 00-0043 20" x 20" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0044 CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY	800.49	
For 3,500 PSI Concrete, Add	60.04	
For 4,000 PSI Concrete, Add	112.87	
For 4,500 PSI Concrete, Add	166.50	
For 5,000 PSI Concrete, Add	226.54	
03 41 26 00-0045 24" x 24" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0046 CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY	800.49	
For 3,500 PSI Concrete, Add	60.04	
For 4,000 PSI Concrete, Add	112.87	
For 4,500 PSI Concrete, Add	166.50	
For 5,000 PSI Concrete, Add	226.54	
03 41 26 00-0047 28" x 28" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0048 CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY	800.49	
For 3,500 PSI Concrete, Add	60.04	
For 4,000 PSI Concrete, Add	112.87	
For 4,500 PSI Concrete, Add	166.50	
For 5,000 PSI Concrete, Add	226.54	
03 41 26 00-0049 32" x 32" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0050 CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY	798.95	
For 3,500 PSI Concrete, Add	59.92	
For 4,000 PSI Concrete, Add	112.65	
For 4,500 PSI Concrete, Add	166.18	
For 5,000 PSI Concrete, Add	226.10	
03 41 26 00-0051 36" x 36" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0052 CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY	800.49	
For 3,500 PSI Concrete, Add	60.04	
For 4,000 PSI Concrete, Add	112.87	
For 4,500 PSI Concrete, Add	166.50	
For 5,000 PSI Concrete, Add	226.54	
03 41 33 Precast Structural Pretensioned Concrete (03 41)		
03 41 33 00-0001 Slabs, Roof And Floor Members (03 41 33)		

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0002 SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor.....	16.05	2.16
03 41 33 00-0003 SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor.....	19.97	2.16
03 41 33 00-0004 SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor.....	23.91	2.28
03 41 33 00-0005 SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor.....	27.85	2.38
03 41 33 00-0006 Tee Members (03 41 33)		
03 41 33 00-0007 Multiple Tee, Roof And Floor (03 41 33 00-0006)		
03 41 33 00-0008 SF Prestressed Multiple Tee, Roof And Floor Members	35.93	2.82
03 41 33 00-0009 Double Tee Wall Member (03 41 33 00-0006)		
03 41 33 00-0010 SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	51.07	7.70
03 41 33 00-0011 Single Tee, Short Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0012 SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	42.33	4.66
03 41 33 00-0013 Single Tee, Long Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0014 SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	50.70	4.01
03 41 33 00-0015 Prestressed Concrete Items (03 41 33)		
03 41 33 00-0016 Prestressed Quad Tee (03 41 33 00-0015)		
03 41 33 00-0017 SF Tees, Prestressed Quad Tee, Short Spans, Roof.....	25.95	0.86
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor	27.08	0.86
03 41 33 00-0019 Prestressed Double Tee (03 41 33 00-0015)		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members , 60' Span	43.12	0.76
03 41 33 00-0021 SF Tees, Double Tee, Floor Members , 80' Span	59.36	0.76
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span.....	29.47	1.30
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span.....	45.60	0.86
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	31.95	1.74
03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span	51.09	1.95
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span	59.11	1.20
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span	78.17	1.08
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span	82.31	1.08
03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	13,196.66	312.14
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	14,369.96	346.83
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	24,028.93	390.18
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	5,176.02	283.86
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	6,793.43	312.14
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	8,676.74	312.14
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	9,661.71	346.83
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	12,352.47	390.18
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	22,215.55	446.11
03 41 33 00-0040 Prestressed Double Tee Roof Members (03 41 33 00-0015)		
03 41 33 00-0041 EA Tees, Double Tees, Roof Members, Lightweight, 20" X 8' Wide, 45'	10,371.71	312.14
03 41 33 00-0042 EA Tees, Double Tees, Roof Members, Lightweight, 24" X 8' Wide, 50'	13,616.64	346.83
03 41 33 00-0043 EA Tees, Double Tees, Roof Members, Lightweight, 32" X 10' Wide, 60'	22,333.96	390.18
03 41 33 00-0044 EA Tees, Double Tees, Roof Members, Standard Weight, 12" X 8' Wide, 30'	6,946.32	283.86
03 41 33 00-0045 EA Tees, Double Tees, Roof Members, Standard Weight, 16" X 8' Wide, 30'	7,320.76	312.14
03 41 33 00-0046 EA Tees, Double Tees, Roof Members, Standard Weight, 18" X 8' Wide, 30'	8,111.75	312.14
03 41 33 00-0047 EA Tees, Double Tees, Roof Members, Standard Weight, 20" X 8' Wide, 40'	8,343.40	346.83
03 41 33 00-0048 EA Tees, Double Tees, Roof Members, Standard Weight, 24" X 8' Wide, 50'	11,034.16	390.18
03 41 33 00-0049 EA Tees, Double Tees, Roof Members, Standard Weight, 32" X 10' Wide, 60'	19,013.94	446.11
03 41 33 00-0050 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)		
03 41 33 00-0051 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	27.42	
03 41 33 00-0052 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	28.54	
03 41 33 00-0053 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	29.88	
03 41 33 00-0054 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	30.89	
03 41 33 00-0055 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	33.01	
03 41 33 00-0056 Double And Single Tees (03 41 33)		



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0057 Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0056)		
03 41 33 00-0058 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	33.15	
03 41 33 00-0059 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	32.37	
03 41 33 00-0060 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	30.55	
03 41 33 00-0061 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	33.15	
03 41 33 00-0062 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	33.05	
03 41 33 00-0063 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	50.78	
03 41 33 00-0064 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	49.66	
03 41 33 00-0065 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	46.49	
03 41 33 00-0066 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	50.78	
03 41 33 00-0067 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	47.62	
03 41 33 00-0068 Double And Single Tees With 24" Roof And Floor Loading (03 41 33 00-0056)		
03 41 33 00-0069 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	34.16	
03 41 33 00-0070 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	33.39	
03 41 33 00-0071 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	32.25	
03 41 33 00-0072 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	34.16	
03 41 33 00-0073 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	33.05	
03 41 33 00-0074 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	52.13	
03 41 33 00-0075 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	51.01	
03 41 33 00-0076 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	49.20	
03 41 33 00-0077 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	52.13	
03 41 33 00-0078 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	50.68	
03 41 33 00-0079 Double And Single Tees With 32" Roof And Floor Loading (03 41 33 00-0056)		
03 41 33 00-0080 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	36.05	
03 41 33 00-0081 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	34.91	
03 41 33 00-0082 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	33.77	
03 41 33 00-0083 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	55.37	
03 41 33 00-0084 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	53.56	
03 41 33 00-0085 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	51.40	
03 48 Precast Concrete Specialties (03 40)		
03 48 16 Precast Concrete Splash Blocks (03 48)		
03 48 16 00-0001 Precast Concrete Splash Blocks (03 48 16)		
03 48 16 00-0002 EA Precast Concrete Splash Blocks, 20" x 12" x 3"	35.21	3.55
03 48 21 Precast Concrete Handrails (03 48)		
03 48 21 00-0001 Installation Cost (03 48 21)		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail	152.02	68.44
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail	182.32	82.02
03 48 21 00-0004 Material Cost (03 48 21)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,975.71	
For 3,500 PSI Concrete, Add	194.17	
For 4,000 PSI Concrete, Add	364.82	
For 4,500 PSI Concrete, Add	536.22	
For 5,000 PSI Concrete, Add	729.50	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,088.72	
For 3,500 PSI Concrete, Add	201.54	
For 4,000 PSI Concrete, Add	378.68	
For 4,500 PSI Concrete, Add	556.59	
For 5,000 PSI Concrete, Add	757.20	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,201.72	
For 3,500 PSI Concrete, Add	208.91	
For 4,000 PSI Concrete, Add	392.53	
For 4,500 PSI Concrete, Add	576.95	
For 5,000 PSI Concrete, Add	784.90	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,352.39	
For 3,500 PSI Concrete, Add	218.74	
For 4,000 PSI Concrete, Add	411.00	
For 4,500 PSI Concrete, Add	604.10	
For 5,000 PSI Concrete, Add	821.84	
03 48 22 Precast Concrete Sun Screen and Trellis (03 48)		
03 48 22 00-0001 Sun Screen Blades (03 48 22)		
03 48 22 00-0002 Installation Cost (03 48 22 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.		
03 48 22 00-0003 EA Install Precast Sun Screen Blade, 0-1 Ton/Each	76.02	34.22

03 Concrete**03 40 Precast Concrete****03 48 Precast Concrete Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0004	EA		Install Precast Sun Screen Blade, 1-2 Ton/Each	91.32	41.06
03 48 22 00-0005	EA		Install Precast Sun Screen Blade, 2-3 Ton/Each	114.10	51.38
03 48 22 00-0006			Material Cost (03 48 22 00-0001) Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0007	CY		4" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,164.05	
			For 3,500 PSI Concrete, Add	206.45	
			For 4,000 PSI Concrete, Add	387.91	
			For 4,500 PSI Concrete, Add	570.16	
			For 5,000 PSI Concrete, Add	775.67	
03 48 22 00-0008	CY		5" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,277.05	
			For 3,500 PSI Concrete, Add	213.83	
			For 4,000 PSI Concrete, Add	401.77	
			For 4,500 PSI Concrete, Add	590.52	
			For 5,000 PSI Concrete, Add	803.37	
03 48 22 00-0009	CY		6" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,427.72	
			For 3,500 PSI Concrete, Add	223.66	
			For 4,000 PSI Concrete, Add	420.24	
			For 4,500 PSI Concrete, Add	617.68	
			For 5,000 PSI Concrete, Add	840.31	
03 48 22 00-0010	CY		8" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,578.39	
			For 3,500 PSI Concrete, Add	233.49	
			For 4,000 PSI Concrete, Add	438.71	
			For 4,500 PSI Concrete, Add	644.83	
			For 5,000 PSI Concrete, Add	877.24	
03 48 22 00-0011			Sun Screen/Trellis Units (03 48 22)		
03 48 22 00-0012			Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011) Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.		
03 48 22 00-0013	EA		Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane	349.52	157.26
03 48 22 00-0014	EA		Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	390.96	175.98
03 48 22 00-0015	EA		Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	443.54	199.57
03 48 22 00-0016	EA		Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	474.04	213.32
03 48 22 00-0017			Material Cost (03 48 22 00-0011) Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0018	CY		4" Thick 3,000 PSI Concrete Precast Trellises Blades	3,653.72	
			For 3,500 PSI Concrete, Add	238.41	
			For 4,000 PSI Concrete, Add	447.95	
			For 4,500 PSI Concrete, Add	658.40	
			For 5,000 PSI Concrete, Add	895.71	
03 48 22 00-0019	CY		5" Thick 3,000 PSI Concrete Precast Trellises Blades	3,766.73	
			For 3,500 PSI Concrete, Add	245.78	
			For 4,000 PSI Concrete, Add	461.80	
			For 4,500 PSI Concrete, Add	678.76	
			For 5,000 PSI Concrete, Add	923.41	
03 48 22 00-0020	CY		6" Thick 3,000 PSI Concrete Precast Trellises Blades	3,917.40	
			For 3,500 PSI Concrete, Add	255.61	
			For 4,000 PSI Concrete, Add	480.27	
			For 4,500 PSI Concrete, Add	705.92	
			For 5,000 PSI Concrete, Add	960.35	
03 48 22 00-0021	CY		8" Thick 3,000 PSI Concrete Precast Trellises Blades	4,105.73	
			For 3,500 PSI Concrete, Add	267.90	
			For 4,000 PSI Concrete, Add	503.36	
			For 4,500 PSI Concrete, Add	739.85	
			For 5,000 PSI Concrete, Add	1,006.52	
03 48 24			Precast Minaret Segments (03 48)		
03 48 24 00-0001			Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002			L - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0003	EA		Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	340.12	272.10
03 48 24 00-0004	EA		Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	381.13	304.93
03 48 24 00-0005	EA		Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	430.94	344.74
03 48 24 00-0006	EA		Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	459.68	367.74
03 48 24 00-0007			O - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0008	EA		Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	359.46	287.63
03 48 24 00-0009	EA		Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	403.44	322.70
03 48 24 00-0010	EA		Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	456.91	365.49
03 48 24 00-0011	EA		Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	489.33	391.44
03 48 24 00-0012			Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013	EA		Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	689.51	551.67
03 48 24 00-0014	EA		Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	833.48	666.74



Concrete	03	03
Precast Concrete	03 40	
Precast Concrete Specialties	03 48	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	924.95	739.98
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	1,038.99	831.23
03 48 24 00-0017 Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	377.35	301.84
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	421.37	337.04
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	480.04	383.97
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	512.48	409.93
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	346.00	276.80
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	387.72	310.20
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	438.39	350.70
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	467.62	374.09
03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	365.67	292.60
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	410.41	328.28
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	464.81	371.80
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	497.79	398.21
03 48 24 00-0033 Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	559.11	447.27
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	676.82	541.43
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	749.10	599.29
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	847.88	678.26
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	383.87	307.06
03 48 24 00-0040 EA Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	428.65	342.87
03 48 24 00-0041 EA Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	488.34	390.61
03 48 24 00-0042 EA Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	521.33	417.02
03 48 24 00-0043 Material Costs (03 48 24)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044 CY Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete	9,039.64	
Note: Including Post Tension Cost		
03 48 24 00-0045 CY Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete	9,039.64	
Note: Including Post Tension Cost		
03 48 24 00-0046 CY Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete	9,039.64	
Note: Including Post Tension Cost		
03 48 24 00-0047 CY Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete	9,039.64	
Note: Including Post Tension Cost		
03 48 29 Precast Accessories (03 48)		
Note: Includes installation labor, material and equipment.		
03 48 29 00-0001 Bearing Pads For Precast Members (03 48 29)		
03 48 29 00-0002 Continuous 2" Wide Strips (03 48 29 00-0001)		
03 48 29 00-0003 LF Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.36	
Note: For precast members		
03 48 29 00-0004 LF Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	1.97	
Note: For precast members.		
03 48 29 00-0005 LF Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	3.33	
Note: For precast members		
03 48 29 00-0006 LF Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.69	
Note: For precast members		
03 48 29 00-0007 LF Bearing Pads, Continuous 2" Wide x 1" Thick Strips	6.12	
Note: For precast members		
03 48 29 00-0008 LF Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	8.83	
Note: For precast members		
03 48 29 00-0009 Bearing Pad Pipe Supports (03 48 29)		
03 48 29 00-0010 LF 8" Diameter Precast Balustrade, Decorative Shapes	109.72	
03 48 29 00-0011 LF Precast Rail Cap, <1 SF Cross Section	70.03	
03 48 29 00-0012 LF 4" x 4" Precast Pipe Support	8.00	

03 48 46 Precast Skylight Shells (03 48)

03	Concrete
03 40	Precast Concrete
03 48	Precast Concrete Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 46 00-0001			Installation Cost Using A 90 Ton Crawler Crane (03 48 46) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002	EA		Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane.....	500.05	225.06
03 48 46 00-0003	EA		Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane.....	555.25	249.88
03 48 46 00-0004	EA		Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane.....	624.15	280.88
03 48 46 00-0005			Material Cost (03 48 46) Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006	CY		3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	3,781.90	
03 48 49			Precast Landings (03 48)		
03 48 49 00-0001	SF		3" Thick Precast Landing	93.61	
03 48 49 00-0002	SF		4" Thick Precast Landing	109.19	
03 48 49 00-0003	SF		5" Thick Precast Landing	123.99	
03 48 49 00-0004	SF		6" Thick Precast Landing	142.93	
03 48 54			Precast Concrete Blocks (03 48)		
03 48 54 00-0001			Precast Concrete Blocks (03 48 54)		
03 48 54 00-0002	EA		2' x 2' x 2' Precast Concrete Block.....	116.17	38.25
03 48 54 00-0003	EA		2' x 2' x 4' Precast Concrete Block.....	163.13	47.81
03 48 54 00-0004	EA		2' x 2' x 8' Precast Concrete Block.....	262.69	57.37
03 50			Cast Decks and Underlayment (03)		
03 51			Cast Roof Decks (03 50)		
03 51 13			Cementitious Wood Fiber Decks (03 51)		
03 51 13 00-0001			Cement Fiber Tongue And Groove Planks (03 51 13)		
03 51 13 00-0002	SF		1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.42	
03 51 13 00-0003	SF		1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.61	
03 51 13 00-0004	SF		2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.82	
03 51 13 00-0005	SF		2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.53	
03 51 13 00-0006	SF		3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	6.29	
03 51 13 00-0007	SF		3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	7.16	
03 51 13 00-0008	SF		4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	8.23	
03 51 16			Gypsum Concrete Roof Decks (03 51)		
03 51 16 00-0001			Class A Gypsum Fill Concrete Deck (03 51 16)		
03 51 16 00-0002	SF		2" Thick Precast Gypsum Fill Concrete Deck, Class A.....	10.41	0.51
03 51 16 00-0003	SF		2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A.....	12.90	0.60
03 51 16 00-0004	SF		3" Thick Precast Gypsum Fill Concrete Deck, Class A.....	15.42	0.68
03 51 16 00-0005	SF		3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A.....	17.95	0.77
03 51 16 00-0006	SF		4" Thick Precast Gypsum Fill Concrete Deck, Class A.....	20.50	0.85
03 51 16 00-0007			Form Board For Lightweight Deck (03 51 16)		
03 51 16 00-0008	SF		Gypsum Deck Form Board, 1/2" Drywall For Lightweight Deck	1.99	
03 51 16 00-0009	SF		Gypsum Deck Form Board, 1" Mineral Fiber Board For Lightweight Deck	2.57	
03 51 16 00-0010	SF		Gypsum Deck Form Board, 1-1/2" Mineral Fiber Board For Lightweight Deck	5.02	
03 51 16 00-0011	SF		Gypsum Deck Form Board, 1" Cementitious Fiber Board For Lightweight Deck	2.19	0.59
03 51 16 00-0012	SF		Gypsum Deck Form Board, 1-1/2" Cementitious Fiber Board For Lightweight Deck	2.62	0.59
03 51 16 00-0013	SF		Gypsum Deck Form Board, 1" Glass Fiber Board For Lightweight Deck.....	2.84	0.59
03 51 16 00-0014	SF		Gypsum Deck Form Board, 1-1/2" Glass Fiber Board For Lightweight Deck.....	3.47	0.59
03 51 16 00-0015			Gypsum Plank (03 51 16)		
03 51 16 00-0016	SF		2" Thick, Insulating Concrete Gypsum Plank, Roof Deck	4.58	
03 51 16 00-0017	SF		3" Thick, Insulating Concrete Gypsum Plank, Roof Deck	6.18	
03 53			Concrete Topping (03 50) Note: Installed over new or existing concrete.		
03 53 14			Granolithic Concrete Topping (03 53)		
03 53 14 00-0001			Granolithic Topping Laid After (03 53 14) Note: Using 1:1:1-1/2 mix.		
03 53 14 00-0002	SF		1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix.....	4.06	
03 53 14 00-0003	SF		1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.48	
03 53 14 00-0004	SF		2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	5.80	



Concrete	03	CS
Cast Decks and Underlayment	03 50	
Concrete Topping	03 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 53 19 Concrete Overlayment (03 53)

03 53 19 00-0001 Integral Topping Including Hard Trowel Finish (03 53 19)

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.42
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.78
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.30
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.97
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	5.82
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	5.22
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	5.92

03 54 Cast Underlayment (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors (03 54 16)

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors.....	2.00
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.13
		For >100 To 250 SF, Add	0.07
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors.....	3.56
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.13
		For >100 To 250 SF, Add	0.07
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors.....	4.60
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.13
		For >100 To 250 SF, Add	0.07
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors.....	6.68
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.13
		For >100 To 250 SF, Add	0.07
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors.....	7.92
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.13
		For >100 To 250 SF, Add	0.07
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors.....	9.84
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.15
		For >100 To 250 SF, Add	0.08
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors.....	12.95
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.15
		For >100 To 250 SF, Add	0.08
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors.....	17.14
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.17
		For >100 To 250 SF, Add	0.09
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors.....	19.24
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.17
		For >100 To 250 SF, Add	0.09
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors.....	25.57
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.21
		For >100 To 250 SF, Add	0.11

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001 Cementitious Flowable Grout (03 61 16)

03 61 16 00-0002	CY	Cementitious Flowable Grout.....	505.27
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03 62 Non-Shrink Grouting (03 60)

03 62 13 Non-Metallic Non-Shrink Grouting (03 62)

03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	27.07
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	41.63

03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03	03 Concrete
	03 60 Grouting
	03 62 Non-Shrink Grouting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 62 13 00-0005 SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases	42.16	
03 62 13 00-0006 SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases	69.53	
03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints (03 62 13)		
03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)		
03 62 13 00-0009 LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.08	
03 62 13 00-0010 LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.76	
03 62 13 00-0011 LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.65	
03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)		
03 62 13 00-0013 LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.16	
03 62 13 00-0014 LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.28	
03 62 13 00-0015 LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.67	
03 62 16 Metallic Non-Shrink Grouting (03 62)		
03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases (03 62 16)		
03 62 16 00-0002 SF 1" Deep, Metallic Non-Shrink Grout For Bases	34.22	
03 62 16 00-0003 SF 2" Deep, Metallic Non-Shrink Grout For Bases	54.13	
03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints (03 62 16)		
03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)		
03 62 16 00-0006 LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.58	
03 62 16 00-0007 LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.01	
03 62 16 00-0008 LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.68	
03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)		
03 62 16 00-0010 LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.19	
03 62 16 00-0011 LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.78	
03 62 16 00-0012 LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	3.71	
03 64 Injection Grouting (03 60)		
Note: By volume of void filled. Includes injection ports.		
03 64 23 Epoxy Injection Grouting (03 64)		
03 64 23 00-0001 Pressure Injected Epoxy Grout (03 64 23)		
03 64 23 00-0002 CF Pressure Injected Epoxy Grout	1,100.27	
		-116.11
<i>For >4, Deduct</i>		
03 64 26 Cementitious Injection Grouting (03 64)		
03 64 26 00-0001 Pressure Injected Cementitious Grout (03 64 26)		
03 64 26 00-0002 CF Pressure Injected Cementitious Grout	191.24	
		-48.68
<i>For >4, Deduct</i>		
03 80 Concrete Cutting and Boring (03)		
03 81 Concrete Cutting (03 80)		
03 81 13 Flat Concrete Sawing (03 81)		
See CSI section 02 41 19 13-0001 for saw cutting.		
03 81 16 Track Mounted Concrete Wall Sawing (03 81)		
See CSI section 02 41 19 13-0001 for saw cutting.		
03 82 Concrete Boring (03 80)		
03 82 13 Concrete Core Drilling (03 82)		
See CSI section 02 41 19 13-0024 for core drilling.		

END OF SECTION 03



Finishes	09	09
Maintenance of Finishes	09 01	
Maintenance of Plaster and Gypsum Board	09 01 20	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 01 Maintenance of Finishes (09)

09 01 20 Maintenance of Plaster and Gypsum Board (09 01)

09 01 20 91 Plaster Restoration (09 01 20)

09 01 20 91-0001	SF	Cut And Patch Hole In Gypsum Board To Match Existing <small>(09 01 20 91)</small> Note: Includes cutting of existing gypsum board, cutting new board to fit opening, taping, gypsum board finishing, and disposal of debris into dumpster. Per location. See CSI section 09 29 00 00-0000 for "Gypsum Board" repairs > 32 SF.	
09 01 20 91-0002	SF	Up To 2 SF, Cut And Patch Hole In Gypsum Board To Match Existing Note: Per location.	20.35
09 01 20 91-0003	SF	>2 To 4 SF, Cut And Patch Hole In Gypsum Board To Match Existing Note: Per location.	16.39
09 01 20 91-0004	SF	>4 To 8 SF, Cut And Patch Hole In Gypsum Board To Match Existing Note: Per location.	14.70
09 01 20 91-0005	SF	>8 To 16 SF, Cut And Patch Hole In Gypsum Board To Match Existing Note: Per location.	12.93
09 01 20 91-0006	SF	>16 To 32 SF, Cut And Patch Hole In Gypsum Board To Match Existing Note: Per location. See CSI section 09 29 10 00-0001 for "Gypsum Board" repairs > 32 SF.	11.56
09 01 20 91-0007		Patch/Finish Gypsum Board To Match Existing <small>(09 01 20 91)</small> Note: Includes taping, gypsum board finishing. Per location. See CSI section 09 01 20 91-0001 for patching walls requiring gypsum board to be cut and installed.	
09 01 20 91-0008	EA	Tape, Spackle And Finish Gypsum Board To Patch/Finish Small Diameter Holes Or Screw Head Pops <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.95 -0.95 -0.48 -0.19 1.45
09 01 20 91-0009		Plaster/Stucco Repair <small>(09 01 20 91)</small> Note: Per location.	
09 01 20 91-0010		Clean And Repair Crack In Plaster/Stucco <small>(09 01 20 91-0009)</small> Note: Includes plaster weld.	
09 01 20 91-0011	LF	Up To 10', Chip, Clean And Repair Crack In Plaster/Stucco	20.00
09 01 20 91-0012	LF	>10' To 50', Chip, Clean And Repair Crack In Plaster/Stucco	16.04
09 01 20 91-0013	LF	>50' To 100', Chip, Clean And Repair Crack In Plaster/Stucco	13.08
09 01 20 91-0014	LF	>100' To 250', Chip, Clean And Repair Crack In Plaster/Stucco	10.11
09 01 20 91-0015	LF	>250' To 500', Chip, Clean And Repair Crack In Plaster/Stucco	8.14
09 01 20 91-0016	LF	>500', Chip, Clean And Repair Crack In Plaster/Stucco	6.15
09 01 20 91-0017		Cut And Patch Hole In Plaster/Stucco To Match Existing <small>(09 01 20 91-0009)</small> Note: Includes plaster weld.	
09 01 20 91-0018	SF	Up To 10 SF, Cut And Patch Hole In Plaster To Match Existing	18.94
09 01 20 91-0019	SF	>10 To 50 SF, Cut And Patch Hole In Plaster To Match Existing	16.74
09 01 20 91-0020	SF	>50 To 100 SF, Cut And Patch Hole In Plaster To Match Existing	15.40
09 01 20 91-0021	SF	>100 To 250 SF, Cut And Patch Hole In Plaster To Match Existing	14.29
09 01 20 91-0022	SF	>250 To 500 SF, Cut And Patch Hole In Plaster To Match Existing	13.33
09 01 20 91-0023	SF	>500 SF, Cut And Patch Hole In Plaster To Match Existing	12.26
09 01 20 91-0024		Chip, Clean And Repair Plaster/Stucco <small>(09 01 20 91-0009)</small> Note: Includes plaster weld.	
09 01 20 91-0025	SF	Up To 10 SF, Chip, Clean And Repair Plaster/Stucco	35.89
09 01 20 91-0026	SF	>10 To 50 SF, Chip, Clean And Repair Plaster/Stucco	25.99
09 01 20 91-0027	SF	>50 To 250 SF, Chip, Clean And Repair Plaster/Stucco	19.08
09 01 20 91-0028	SF	>250 SF, Chip, Clean And Repair Plaster/Stucco	15.12

09 01 30 Maintenance of Tiling (09 01)

09 01 30 91 Tile Restoration (09 01 30)

09 01 30 91-0001	SF	RegROUT Floor Tile Including Removal Of Loose Grout	7.59
09 01 30 91-0002	SF	RegROUT Wall Tile Including Removal Of Loose Grout	9.46
09 01 30 91-0003	SF	Up To 1 SF, Cut And Patch Hole In Wall Tile To Match Existing Note: Per location.	50.92

09 01 60 Maintenance of Flooring (09 01)

09 01 60 91 Flooring Restoration (09 01 60)

09 01 60 91-0001	CSF	Grinding, Polishing And Sealing Terrazzo <small>(09 01 60 91)</small>	
09 01 60 91-0002	CSF	Grinding, Polishing And Sealing Existing Terrazzo	321.66

09 Finishes**09 01 Maintenance of Finishes****09 01 60 Maintenance of Flooring**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 60 91-0003	SF		Removal Of Setting Bed And Clean Area For Terrazzo Repair	4.75	
09 01 60 91-0004	SF		Repair Existing Terrazzo.....	24.95	
09 01 60 91-0005	LF		Repair Cracks In Existing Terrazzo.....	5.15	
09 01 60 91-0006			Standard Flooring Maintenance (09 01 60 91)		
09 01 60 91-0007	CSF		Steam Clean Carpet	40.36	
09 01 60 91-0008	CSF		Wax And Polish Tile And VCT Flooring	44.32	
			For Additional Coat, Add	37.04	
			For Stripping Existing Wax From Floor, Add	41.91	
09 01 60 91-0009	CSF		Wax And Polish Wood Flooring	26.81	
			For Additional Coat, Add	23.57	
			For Stripping Existing Wax From Floor, Add	41.91	
09 01 60 91-0010	MSF		Vacuum Floors.....	22.50	
09 01 60 91-0011			Prepare Existing Concrete Floor Prior To Installation Of Flooring (09 01 60 91)		
09 01 60 91-0012	SY		Grinding Of Existing Concrete Floor Prior To Installation Of Flooring.....	9.50	
09 01 60 91-0013	SY		Chemical Prepare Existing Concrete Floor Prior To Installation Of Flooring.....	7.63	
09 01 60 91-0014			Floor Sealants (09 01 60 91)		
09 01 60 91-0015	SF		Water-Based Emulsion, Masonry/Tile/Stone/Terrazzo Floor Sealant/Finish, Per Coat.....	1.36	
			Note: For terrazzo, concrete, quarry tile, brick and unglazed ceramic tile.		
09 01 60 91-0016	SF		Water-Based, Clear Acrylic, Concrete Floor Sealant/Finish, Per Coat.....	1.47	
			Note: For interior/exterior concrete surfaces.		
09 01 60 91-0017	SF		Fluorochemical Acrylate Copolymer Masonry/Tile/Stone/Terrazzo Floor Sealant	1.48	
09 01 60 91-0018	GAL		Masonry/Tile/Stone/Terrazzo Floor Sealant (Extra To Be Provided To Owner).....	31.86	
09 01 80 Maintenance of Acoustic Treatment (09 01)					
09 01 80 00-0001			Removal Of Acoustical Ceiling Treatment (09 01 80)		
09 01 80 00-0002	SF		Removal Of Acoustical And Popcorn Ceilings Treatment	2.51	
09 01 90 Maintenance of Painting and Coating (09 01)					
09 01 90 52 Maintenance Repainting (09 01 90)					
09 01 90 52-0001			Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)		
			Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Sand blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.		
09 01 90 52-0002			Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0003	SF		Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation	0.52	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.10	
09 01 90 52-0004	SF		Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.51	
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.10	
09 01 90 52-0005	SF		Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.80	
			For Up To 100, Add	1.32	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.17	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.15	
09 01 90 52-0006	SF		Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation.....	0.70	
			For Up To 100, Add	1.40	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.18	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0007 SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.73	
<i>For Up To 100, Add</i>	1.22	
<i>For >100 To 250, Add</i>	0.31	
<i>For >250 To 500, Add</i>	0.15	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 15,000, Deduct</i>	-0.07	
<i>For >15,000 To 30,000, Deduct</i>	-0.11	
<i>For >30,000, Deduct</i>	-0.14	
09 01 90 52-0008 SF Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation	0.47	
<i>For Up To 100, Add</i>	0.72	
<i>For >100 To 250, Add</i>	0.18	
<i>For >250 To 500, Add</i>	0.09	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.04	
<i>For >15,000 To 30,000, Deduct</i>	-0.07	
<i>For >30,000, Deduct</i>	-0.09	
09 01 90 52-0009 SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.32	
<i>For Up To 100, Add</i>	2.32	
<i>For >100 To 250, Add</i>	0.58	
<i>For >250 To 500, Add</i>	0.29	
<i>For >5,000 To 10,000, Deduct</i>	-0.06	
<i>For >10,000 To 15,000, Deduct</i>	-0.13	
<i>For >15,000 To 30,000, Deduct</i>	-0.19	
<i>For >30,000, Deduct</i>	-0.26	
09 01 90 52-0010 SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	2.18	
<i>For Up To 100, Add</i>	4.04	
<i>For >100 To 250, Add</i>	1.01	
<i>For >250 To 500, Add</i>	0.51	
<i>For >5,000 To 10,000, Deduct</i>	-0.11	
<i>For >10,000 To 15,000, Deduct</i>	-0.21	
<i>For >15,000 To 30,000, Deduct</i>	-0.32	
<i>For >30,000, Deduct</i>	-0.43	
09 01 90 52-0011 SF Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation	3.23	
Note: 3 lbs of sand per SF		
<i>For 4.5 lbs Of Sand per SF, Where Multiple Pass Is Required, Add</i>	1.88	
<i>For 6 lbs Of Sand per SF, Where Multiple Pass Is Required, Add</i>	3.90	
<i>For 9 lbs Of Sand per SF, Where Multiple Pass Is Required, Add</i>	6.46	
<i>For Up To 100, Add</i>	5.32	
<i>For >100 To 250, Add</i>	1.33	
<i>For >250 To 500, Add</i>	0.67	
<i>For >5,000 To 10,000, Deduct</i>	-0.15	
<i>For >10,000 To 15,000, Deduct</i>	-0.30	
<i>For >15,000 To 30,000, Deduct</i>	-0.47	
<i>For >30,000, Deduct</i>	-0.62	
09 01 90 52-0012 Drywall Surfaces, Surface Preparation <small>(09 01 90 52-0001)</small>		
See CSI section 09 01 20 91-0007 for Patch holes other than nail/screw holes and greater than 1/2" diameter.		
09 01 90 52-0013 SF Hand Wash Drywall Surfaces With Mild Detergent Or Degreaser (No Sanding, Repairing Or Scraping), Surface Preparation	0.40	
<i>For Up To 100, Add</i>	0.80	
<i>For >100 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.10	
09 01 90 52-0014 SF Hand Wash, Minor Repair And Light Sanding Drywall Surfaces, Surface Preparation.....	0.67	
<i>For Up To 100, Add</i>	1.34	
<i>For >100 To 250, Add</i>	0.34	
<i>For >250 To 500, Add</i>	0.17	
09 01 90 52-0015 SF Scrape, Repair And Sand Severely Damaged Drywall Surfaces, Surface Preparation	1.24	
<i>For Up To 100, Add</i>	2.36	
<i>For >100 To 250, Add</i>	0.59	
<i>For >250 To 500, Add</i>	0.30	
09 01 90 52-0016 Metal Surfaces, Surface Preparation <small>(09 01 90 52-0001)</small>		
09 01 90 52-0017 SF Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation.....	0.50	
<i>For Up To 100, Add</i>	0.36	
<i>For >100 To 250, Add</i>	0.17	
<i>For >250 To 500, Add</i>	0.07	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.07	
<i>For >30,000, Deduct</i>	-0.10	
09 01 90 52-0018 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation	0.80	
<i>For Up To 100, Add</i>	0.50	
<i>For >100 To 250, Add</i>	0.23	
<i>For >250 To 500, Add</i>	0.10	
<i>For >5,000 To 10,000, Deduct</i>	-0.04	
<i>For >10,000 To 15,000, Deduct</i>	-0.07	
<i>For >15,000 To 30,000, Deduct</i>	-0.12	
<i>For >30,000, Deduct</i>	-0.15	

09 Finishes
09 01 Maintenance of Finishes
09 01 90 Maintenance of Painting and Coating



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0019	SF		Hand Scraping And Sanding, Metal Surfaces, Surface Preparation	0.70	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.14	
09 01 90 52-0020	SF		Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation	0.45	
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.09	
09 01 90 52-0021	SF		Power Tool Cleaning, Metal Surfaces, Surface Preparation	1.25	
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.13	
			For >15,000 To 30,000, Deduct	-0.19	
			For >30,000, Deduct	-0.25	
09 01 90 52-0022	SF		Steam Cleaning, Metal Surfaces, Surface Preparation.....	0.45	
			For Up To 100, Add	0.25	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.08	
09 01 90 52-0023	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation	0.99	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.19	
09 01 90 52-0024	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.35	
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.13	
			For >15,000 To 30,000, Deduct	-0.20	
			For >30,000, Deduct	-0.26	
09 01 90 52-0025	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.97	
			For Up To 100, Add	1.23	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 15,000, Deduct	-0.18	
			For >15,000 To 30,000, Deduct	-0.29	
			For >30,000, Deduct	-0.38	
09 01 90 52-0026	SF		Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation.....	3.29	
			For Up To 100, Add	2.05	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.41	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 15,000, Deduct	-0.31	
			For >15,000 To 30,000, Deduct	-0.48	
			For >30,000, Deduct	-0.63	
09 01 90 52-0027	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.51	
			For Up To 100, Add	1.54	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 15,000, Deduct	-0.23	
			For >15,000 To 30,000, Deduct	-0.36	
			For >30,000, Deduct	-0.48	
09 01 90 52-0028	SF		Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.09	
			For Up To 100, Add	1.88	
			For >100 To 250, Add	0.88	
			For >250 To 500, Add	0.38	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 15,000, Deduct	-0.29	
			For >15,000 To 30,000, Deduct	-0.45	
			For >30,000, Deduct	-0.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0029 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	4.02	
For Up To 100, Add	2.46	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.49	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 15,000, Deduct	-0.37	
For >15,000 To 30,000, Deduct	-0.58	
For >30,000, Deduct	-0.77	
09 01 90 52-0030 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	5.03	
For Up To 100, Add	3.08	
For >100 To 250, Add	1.44	
For >250 To 500, Add	0.62	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 15,000, Deduct	-0.47	
For >15,000 To 30,000, Deduct	-0.73	
For >30,000, Deduct	-0.96	
09 01 90 52-0031 Tile Surfaces, Surface Preparation (09 01 90 52-0001)	0.45	
09 01 90 52-0032 SF Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation	0.45	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0033 CSF Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation	44.64	
For Up To 100, Add	33.26	
For >100 To 250, Add	15.52	
For >250 To 500, Add	6.65	
For >5,000 To 10,000, Deduct	-2.23	
For >10,000 To 15,000, Deduct	-4.45	
For >15,000 To 30,000, Deduct	-6.69	
For >30,000, Deduct	-8.91	
09 01 90 52-0034 SF Up To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation	0.32	
For Up To 100, Add	0.20	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.03	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.06	
09 01 90 52-0035 Wood Surfaces, Surface Preparation (09 01 90 52-0001)	1.54	
09 01 90 52-0036 SF Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.54	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.15	
For >15,000 To 30,000, Deduct	-0.23	
For >30,000, Deduct	-0.30	
09 01 90 52-0037 SF Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.47	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0038 SF Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.66	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.13	
09 01 90 52-0039 SF Hand Scrape Wood Surfaces, Surface Preparation	0.76	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.15	
09 01 90 52-0040 SF Steam Clean Wood Surfaces, Surface Preparation	0.71	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0041 SF Up To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation.....	0.49	
For Up To 100, Add	0.30	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0042 SF Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation.....	0.92	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.14	
For >30,000, Deduct	-0.18	
09 01 90 52-0043 SF Sanding Wood Trim Surfaces, Surface Preparation	1.24	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.18	
For >30,000, Deduct	-0.25	
09 01 90 52-0044 SF Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.81	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.12	
For >30,000, Deduct	-0.16	
09 01 90 52-0045 SF Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.94	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.14	
For >30,000, Deduct	-0.18	
09 01 90 52-0046 Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0047 SF Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.45	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0048 SF Hand Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.70	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	
09 01 90 52-0049 SF Up To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation	0.41	
For Up To 100, Add	0.23	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 01 90 52-0050 SF Steam Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.75	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.14	
09 01 90 52-0051 Plaster/Stucco Surfaces, Surface Preparation (09 01 90 52-0001)		
Note: Based on total project quantity.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0052 SF Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation	0.52	
<i>For Up To 100, Add</i>	0.38	
<i>For >100 To 250, Add</i>	0.18	
<i>For >250 To 500, Add</i>	0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.08	
<i>For >30,000, Deduct</i>	-0.10	
09 01 90 52-0053 SF Up To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation.....	0.53	
<i>For Up To 100, Add</i>	0.32	
<i>For >100 To 250, Add</i>	0.15	
<i>For >250 To 500, Add</i>	0.06	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.08	
<i>For >30,000, Deduct</i>	-0.10	
09 01 90 52-0054 Prep Work <small>(09 01 90 52-0001)</small>		
09 01 90 52-0055 SF Citrus Strip, Single Applications.....	1.19	
<i>Note: For removal of dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple coats may be necessary, refer to manufacturer recommendations</i>		
09 01 90 52-0056 Corrosive Inhibitor Sealant For Concrete <small>(09 01 90 52-0001)</small>		
09 01 90 52-0057 SF Corrosive Inhibitor Sealant For Concrete.....	0.77	
<i>For Up To 100, Add</i>	0.40	
<i>For >100 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.09	
09 01 90 61 Repainting <small>(09 01 90)</small>		
09 01 90 61-0001 Touchup and "Spot" Painting Of Surfaces <small>(09 01 90 61)</small>		
<i>Note: For use on individual areas less than 10 SF.</i>		
09 01 90 61-0002 SF "Spot" Paint Surfaces, Per Coat	1.53	
09 01 90 91 Paint Restoration <small>(09 01 90)</small>		
09 01 90 91-0001 Paint Removal, Strip To Bare Wood <small>(09 01 90 91)</small>		
09 01 90 91-0002 SF Flat Surfaces, Paint Removal, Strip To Bare Wood.....	8.14	
09 01 90 91-0003 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood.....	8.67	
09 05 Common Work Results for Finishes <small>(09)</small>		
09 05 61 Common Work Results for Flooring Preparation <small>(09 05)</small>		
09 05 61 13 Moisture Vapor Emission Control <small>(09 05 61)</small>		
09 05 61 13-0001 Moisture Vapor Reduction System (Koester VAP) <small>(09 05 61 13)</small>		
09 05 61 13-0002 EA Up To 200 SF, Water Vapor Emission Control System (Koester VAP 1-2000)	2,614.99	
<i>Note: Clear</i>		
09 05 61 13-0003 SF >200 To 500 SF, Water Vapor Emission Control System (Koester VAP 1-2001).....	13.84	
<i>Note: Clear</i>		
09 05 61 13-0004 SF >500 To 1,000 SF, Water Vapor Emission Control System (Koester VAP 1-2002).....	9.23	
<i>Note: Clear</i>		
09 05 61 13-0005 SF >1,000 To 3,000 SF, Water Vapor Emission Control System (Koester VAP 1-2003).....	7.69	
<i>Note: Clear</i>		
09 05 61 13-0006 SF >3,000 SF, Water Vapor Emission Control System (Koester VAP 1-2004).....	6.15	
<i>Note: Clear</i>		
09 05 61 13-0007 Moisture Vapor Transmission Control (Dependable Cutdown® II) <small>(09 05 61 13)</small>		
09 05 61 13-0008 SF 8# Two Coats, Moisture Vapor Transmission Control (Dependable Cutdown® II)	4.22	
09 05 61 13-0009 SF 15# Two Coats, Moisture Vapor Transmission Control (Dependable Cutdown® II)	5.69	
09 05 71 Acoustic Underlayment <small>(09 05)</small>		
09 05 71 00-0001 Tile And Stone Acoustical Underlayment <small>(09 05 71)</small>		
09 05 71 00-0002 SF 5 Mil Tile And Stone Acoustical Underlayment (EasyMat).....	3.84	
<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	0.41	
09 05 71 00-0003 Resilient Floor Acoustical Underlayment <small>(09 05 71)</small>		
09 05 71 00-0004 SF Vinyl, Linoleum, LVT And Vinyl Strip Flooring Acoustical Underlayment (Impacta, Soundseal VC300)	2.94	
09 05 71 00-0005 SF 2 MM Thick Resilient Plank Floor Acoustical Underlayment (Floormuffler)	1.77	
09 05 71 00-0006 SF 0.055" Thick High Density Polyurethane Foam Floor Acoustical Underlayment (Silencer LVT).....	2.16	



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

09 20 Plaster and Gypsum Board ⁽⁰⁹⁾

09 22 Supports for Plaster and Gypsum Board ^(09 20)

Note: Per SF of wall area measures one side. Do not deduct for opens of less than 25 SF when calculating total wall square footage.

09 22 13 Metal Furring ^(09 22)

09 22 13 13 Metal Channel Furring ^(09 22 13)

09 22 13 13-0001 Hat Furring Channel ^(09 22 13 13)
 Note: Includes clips where required.

09 22 13 13-0002 Installed On Walls, Hat Furring Channel ^(09 22 13 13-0001)

09 22 13 13-0003	SF	7/8", 25 Gauge, 16" On Center, Installed On Walls, Hat Furring Channel	4.42	1.78
		<i>For Walls >10' High, Add</i>	0.53	
		<i>For 24" On Center, Deduct</i>	-0.53	
		<i>For 12" On Center, Add</i>	0.71	
		<i>For 22 Gauge, Add</i>	0.70	
		<i>For 20 Gauge, Add</i>	1.11	
09 22 13 13-0004	SF	1-1/2", 25 Gauge, 16" On Center, Installed On Walls, Hat Furring Channel	4.77	1.78
		<i>For Walls >10' High, Add</i>	0.53	
		<i>For 24" On Center, Deduct</i>	-0.60	
		<i>For 12" On Center, Add</i>	0.78	
		<i>For 22 Gauge, Add</i>	0.88	
		<i>For 20 Gauge, Add</i>	1.34	

09 22 13 13-0005 Installed On Columns And Beams, Hat Furring Channel ^(09 22 13 13-0001)

09 22 13 13-0006	SF	7/8", 25 Gauge, 16" On Center, Installed On Columns And Beams, Hat Furring Channel	6.35	2.73
		<i>For Columns And Beams >10' High, Add</i>	1.09	
		<i>For 24" On Center, Deduct</i>	-0.72	
		<i>For 12" On Center, Add</i>	1.00	
		<i>For 22 Gauge, Add</i>	0.85	
		<i>For 20 Gauge, Add</i>	1.40	
09 22 13 13-0007	SF	1-1/2", 25 Gauge, 16" On Center, Installed On Columns And Beams, Hat Furring Channel	6.69	2.73
		<i>For Columns And Beams >10' High, Add</i>	1.09	
		<i>For 24" On Center, Deduct</i>	-0.79	
		<i>For 12" On Center, Add</i>	1.06	
		<i>For 22 Gauge, Add</i>	1.02	
		<i>For 20 Gauge, Add</i>	1.63	

09 22 13 13-0008 Installed On Ceilings, Hat Furring Channel ^(09 22 13 13-0001)

09 22 13 13-0009	SF	7/8", 25 Gauge, 16" On Center, Installed On Ceilings, Hat Furring Channel	5.82	2.18
		<i>For Ceilings >10' High, Add</i>	0.66	
		<i>For 24" On Center, Deduct</i>	-0.73	
		<i>For 12" On Center, Add</i>	0.95	
		<i>For 22 Gauge, Add</i>	1.05	
		<i>For 20 Gauge, Add</i>	1.61	
09 22 13 13-0010	SF	1-1/2", 25 Gauge, 16" On Center, Installed On Ceilings, Hat Furring Channel	6.16	2.18
		<i>For Ceilings >10' High, Add</i>	0.66	
		<i>For 24" On Center, Deduct</i>	-0.80	
		<i>For 12" On Center, Add</i>	1.01	
		<i>For 22 Gauge, Add</i>	1.22	
		<i>For 20 Gauge, Add</i>	1.84	

09 22 13 13-0011 Z Furring Channel ^(09 22 13 13)

09 22 13 13-0012 Installed On Walls, Z Furring Channel ^(09 22 13 13-0011)

09 22 13 13-0013	SF	1", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel	3.80	1.78
		<i>For Walls >10' High, Add</i>	0.53	
		<i>For 24" On Center, Deduct</i>	-0.41	
		<i>For 12" On Center, Add</i>	0.58	
		<i>For 22 Gauge, Add</i>	0.39	
		<i>For 20 Gauge, Add</i>	0.70	
09 22 13 13-0014	SF	1-1/2", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel	3.85	1.78
		<i>For Walls >10' High, Add</i>	0.53	
		<i>For 24" On Center, Deduct</i>	-0.42	
		<i>For 12" On Center, Add</i>	0.59	
		<i>For 22 Gauge, Add</i>	0.42	
		<i>For 20 Gauge, Add</i>	0.73	
09 22 13 13-0015	SF	2", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel	3.90	1.78
		<i>For Walls >10' High, Add</i>	0.53	
		<i>For 24" On Center, Deduct</i>	-0.43	
		<i>For 12" On Center, Add</i>	0.60	
		<i>For 22 Gauge, Add</i>	0.44	
		<i>For 20 Gauge, Add</i>	0.76	
09 22 13 13-0016	SF	2-1/2", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel	3.93	1.78
		<i>For Walls >10' High, Add</i>	0.53	
		<i>For 24" On Center, Deduct</i>	-0.43	
		<i>For 12" On Center, Add</i>	0.61	
		<i>For 22 Gauge, Add</i>	0.46	
		<i>For 20 Gauge, Add</i>	0.78	



Finishes	09	9
Plaster and Gypsum Board	09 20	
Supports for Plaster and Gypsum Board	09 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 13 13-0017 SF 3", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel	3.97	1.78
For Walls >10' High, Add	0.53	
For 24" On Center, Deduct	-0.44	
For 12" On Center, Add	0.62	
For 22 Gauge, Add	0.48	
For 20 Gauge, Add	0.81	
09 22 13 23 Resilient Channel Furring (09 22 13)		
09 22 13 23-0001 Single-Leg Resilient Channel, RC1 Furring Channel (09 22 13 23)		
Note: Includes clips where required.		
09 22 13 23-0002 Installed On Walls, Single-Leg Resilient Channel, RC1 Furring Channel (09 22 13 23-0001)		
09 22 13 23-0003 SF 25 Gauge, 16" On Center, Installed On Walls, Single-Leg Resilient Channel, RC1 Furring Channel.....	4.09	1.78
For Walls >10' High, Add	0.53	
For 24" On Center, Deduct	-0.46	
For 12" On Center, Add	0.64	
For 20 Gauge, Add	0.89	
09 22 13 23-0004 Installed On Ceilings, Single-Leg Resilient Channel, RC1 Furring Channel (09 22 13 23-0001)		
09 22 13 23-0005 SF 25 Gauge, 16" On Center, Installed On Ceilings, Single-Leg Resilient Channel, RC1 Furring Channel.....	4.91	2.18
For Ceilings >10' High, Add	0.66	
For 24" On Center, Deduct	-0.55	
For 12" On Center, Add	0.76	
For 20 Gauge, Add	1.01	
09 22 13 23-0006 Double-Leg Resilient Channel, RC2 Furring Channel (09 22 13 23)		
Note: Includes clips where required.		
09 22 13 23-0007 Installed On Walls, Double-Leg Resilient Channel, RC2 Furring Channel (09 22 13 23-0006)		
09 22 13 23-0008 SF 25 Gauge, 16" On Center, Installed On Walls, Double-Leg Resilient Channel, RC2 Furring Channel	4.29	1.78
For Walls >10' High, Add	0.53	
For 24" On Center, Deduct	-0.50	
For 12" On Center, Add	0.68	
For 20 Gauge, Add	1.02	
09 22 13 23-0009 Installed On Ceilings, Double-Leg Resilient Channel, RC2 Furring Channel (09 22 13 23-0006)		
09 22 13 23-0010 SF 25 Gauge, 16" On Center, Installed On Ceilings, Double-Leg Resilient Channel, RC2 Furring Channel	5.11	2.18
For Ceilings >10' High, Add	0.66	
For 24" On Center, Deduct	-0.59	
For 12" On Center, Add	0.80	
For 20 Gauge, Add	1.14	
09 22 16 Non-Structural Metal Framing (09 22)		
Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.		
09 22 16 13 Non-Structural Metal Stud Framing (09 22 16)		
09 22 16 13-0001 25 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners (09 22 16 13)		
09 22 16 13-0002 SF 1-5/8" Width, 16" On Center, 25 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	2.81	0.74
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	0.56	
For Soffit, Columns Or Beams Up To 10' High, Add	1.76	
For Soffit, Columns Or Beams >10' High, Add	2.32	
For Horizontal Installation Up To 10' High, Add	0.56	
For Horizontal Installation >10' High, Add	0.74	
For Curved Wall, Add	0.56	
For 12" On Center, Add	0.47	
For 24" On Center, Deduct	-0.47	
For Up To 100, Add	0.93	
For >100 To 300, Add	0.47	
For >1,000, Deduct	-0.24	
09 22 16 13-0003 SF 2-1/2" Width, 16" On Center, 25 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	2.97	0.77
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	0.59	
For Soffit, Columns Or Beams Up To 10' High, Add	1.84	
For Soffit, Columns Or Beams >10' High, Add	2.42	
For Horizontal Installation Up To 10' High, Add	0.59	
For Horizontal Installation >10' High, Add	0.78	
For Curved Wall, Add	0.58	
For 12" On Center, Add	0.50	
For 24" On Center, Deduct	-0.50	
For Up To 100, Add	0.98	
For >100 To 300, Add	0.49	
For >1,000, Deduct	-0.25	

09 Finishes

09 20 Plaster and Gypsum Board

09 22 Supports for Plaster and Gypsum Board



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 22 16 13-0004	SF	3-5/8" Width, 16" On Center, 25 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		3.26	0.80
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		0.65	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		1.95	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		2.56	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.63	
		<i>For Horizontal Installation >10' High, Add</i>		0.83	
		<i>For Curved Wall, Add</i>		0.61	
		<i>For 12" On Center, Add</i>		0.55	
		<i>For 24" On Center, Deduct</i>		-0.55	
		<i>For Up To 100, Add</i>		1.06	
		<i>For >100 To 300, Add</i>		0.53	
		<i>For >1,000, Deduct</i>		-0.29	
09 22 16 13-0005	SF	4" Width, 16" On Center, 25 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		3.49	0.85
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		0.70	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.05	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		2.69	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.67	
		<i>For Horizontal Installation >10' High, Add</i>		0.88	
		<i>For Curved Wall, Add</i>		0.64	
		<i>For 12" On Center, Add</i>		0.59	
		<i>For 24" On Center, Deduct</i>		-0.59	
		<i>For Up To 100, Add</i>		1.12	
		<i>For >100 To 300, Add</i>		0.56	
		<i>For >1,000, Deduct</i>		-0.31	
09 22 16 13-0006	SF	6" Width, 16" On Center, 25 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		3.90	0.89
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		0.78	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.18	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		2.85	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.73	
		<i>For Horizontal Installation >10' High, Add</i>		0.95	
		<i>For Curved Wall, Add</i>		0.67	
		<i>For 12" On Center, Add</i>		0.67	
		<i>For 24" On Center, Deduct</i>		-0.67	
		<i>For Up To 100, Add</i>		1.23	
		<i>For >100 To 300, Add</i>		0.61	
		<i>For >1,000, Deduct</i>		-0.36	
09 22 16 13-0007		20 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners <small>(09 22 16 13)</small>			
09 22 16 13-0008	SF	1-5/8" Width, 16" On Center, 20 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		3.17	0.75
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		0.63	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		1.83	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		2.40	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.60	
		<i>For Horizontal Installation >10' High, Add</i>		0.79	
		<i>For Curved Wall, Add</i>		0.57	
		<i>For 12" On Center, Add</i>		0.54	
		<i>For 24" On Center, Deduct</i>		-0.54	
		<i>For Up To 100, Add</i>		1.01	
		<i>For >100 To 300, Add</i>		0.51	
		<i>For >1,000, Deduct</i>		-0.29	
09 22 16 13-0009	SF	2-1/2" Width, 16" On Center, 20 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		3.49	0.79
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		0.70	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		1.94	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		2.54	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.65	
		<i>For Horizontal Installation >10' High, Add</i>		0.85	
		<i>For Curved Wall, Add</i>		0.60	
		<i>For 12" On Center, Add</i>		0.60	
		<i>For 24" On Center, Deduct</i>		-0.60	
		<i>For Up To 100, Add</i>		1.10	
		<i>For >100 To 300, Add</i>		0.55	
		<i>For >1,000, Deduct</i>		-0.32	



Finishes	09	2
Plaster and Gypsum Board	09 20	
Supports for Plaster and Gypsum Board	09 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 16 13-0010 SF 3-5/8" Width, 16" On Center, 20 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.86	0.83
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	0.77	
For Soffit, Columns Or Beams Up To 10' High, Add	2.06	
For Soffit, Columns Or Beams >10' High, Add	2.69	
For Horizontal Installation Up To 10' High, Add	0.70	
For Horizontal Installation >10' High, Add	0.91	
For Curved Wall, Add	0.63	
For 12" On Center, Add	0.67	
For 24" On Center, Deduct	-0.67	
For Up To 100, Add	1.19	
For >100 To 300, Add	0.60	
For >1,000, Deduct	-0.37	
09 22 16 13-0011 SF 4" Width, 16" On Center, 20 Gauge, Non Load Bearing, Non Structural Structural, Galvanized Steel Framing With Tracks And Runners.....	4.10	0.87
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	0.82	
For Soffit, Columns Or Beams Up To 10' High, Add	2.15	
For Soffit, Columns Or Beams >10' High, Add	2.81	
For Horizontal Installation Up To 10' High, Add	0.74	
For Horizontal Installation >10' High, Add	0.96	
For Curved Wall, Add	0.65	
For 12" On Center, Add	0.71	
For 24" On Center, Deduct	-0.71	
For Up To 100, Add	1.26	
For >100 To 300, Add	0.63	
For >1,000, Deduct	-0.40	
09 22 16 13-0012 SF 6" Width, 16" On Center, 20 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.73	0.91
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	1.15	
For Soffit, Columns Or Beams Up To 10' High, Add	2.41	
For Soffit, Columns Or Beams >10' High, Add	3.09	
For Horizontal Installation Up To 10' High, Add	0.92	
For Horizontal Installation >10' High, Add	1.15	
For Curved Wall, Add	0.69	
For 12" On Center, Add	1.03	
For 24" On Center, Deduct	-1.03	
For Up To 100, Add	1.60	
For >100 To 300, Add	0.80	
For >1,000, Deduct	-0.63	
09 22 16 13-0013 18 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners (09 22 16 13)		
09 22 16 13-0014 SF 2-1/2" Width, 16" On Center, 18 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	4.83	0.80
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	0.97	
For Soffit, Columns Or Beams Up To 10' High, Add	2.11	
For Soffit, Columns Or Beams >10' High, Add	2.72	
For Horizontal Installation Up To 10' High, Add	0.79	
For Horizontal Installation >10' High, Add	0.99	
For Curved Wall, Add	0.61	
For 12" On Center, Add	0.86	
For 24" On Center, Deduct	-0.86	
For Up To 100, Add	1.37	
For >100 To 300, Add	0.69	
For >1,000, Deduct	-0.52	
09 22 16 13-0015 SF 3-5/8" Width, 16" On Center, 18 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.35	0.85
For Powder-Actuated Fasteners Every 2', Add	0.05	
For Walls >10' High, Add	1.07	
For Soffit, Columns Or Beams Up To 10' High, Add	2.25	
For Soffit, Columns Or Beams >10' High, Add	2.89	
For Horizontal Installation Up To 10' High, Add	0.86	
For Horizontal Installation >10' High, Add	1.07	
For Curved Wall, Add	0.64	
For 12" On Center, Add	0.96	
For 24" On Center, Deduct	-0.96	
For Up To 100, Add	1.50	
For >100 To 300, Add	0.75	
For >1,000, Deduct	-0.59	

09 Finishes

09 20 Plaster and Gypsum Board

09 22 Supports for Plaster and Gypsum Board



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 22 16 13-0016	SF	4" Width, 16" On Center, 18 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		5.75	0.89
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		1.15	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.37	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		3.04	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.91	
		<i>For Horizontal Installation >10' High, Add</i>		1.14	
		<i>For Curved Wall, Add</i>		0.67	
		<i>For 12" On Center, Add</i>		1.04	
		<i>For 24" On Center, Deduct</i>		-1.04	
		<i>For Up To 100, Add</i>		1.60	
		<i>For >100 To 300, Add</i>		0.80	
		<i>For >1,000, Deduct</i>		-0.64	
09 22 16 13-0017	SF	6" Width, 16" On Center, 18 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		7.53	0.94
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		1.51	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.64	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		3.35	
		<i>For Horizontal Installation Up To 10' High, Add</i>		1.11	
		<i>For Horizontal Installation >10' High, Add</i>		1.34	
		<i>For Curved Wall, Add</i>		0.71	
		<i>For 12" On Center, Add</i>		1.39	
		<i>For 24" On Center, Deduct</i>		-1.39	
		<i>For Up To 100, Add</i>		1.98	
		<i>For >100 To 300, Add</i>		0.99	
		<i>For >1,000, Deduct</i>		-0.89	
09 22 16 13-0018	SF	8" Width, 16" On Center, 18 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		8.19	1.00
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		1.64	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.80	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		3.54	
		<i>For Horizontal Installation Up To 10' High, Add</i>		1.19	
		<i>For Horizontal Installation >10' High, Add</i>		1.44	
		<i>For Curved Wall, Add</i>		0.74	
		<i>For 12" On Center, Add</i>		1.51	
		<i>For 24" On Center, Deduct</i>		-1.51	
		<i>For Up To 100, Add</i>		2.13	
		<i>For >100 To 300, Add</i>		1.07	
		<i>For >1,000, Deduct</i>		-0.98	
09 22 16 13-0019		16 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners <small>(09 22 16 13)</small>			
09 22 16 13-0020	SF	2-1/2" Width, 16" On Center, 16 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		5.15	0.83
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		1.03	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.19	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		2.81	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.83	
		<i>For Horizontal Installation >10' High, Add</i>		1.04	
		<i>For Curved Wall, Add</i>		0.63	
		<i>For 12" On Center, Add</i>		0.93	
		<i>For 24" On Center, Deduct</i>		-0.93	
		<i>For Up To 100, Add</i>		1.45	
		<i>For >100 To 300, Add</i>		0.72	
		<i>For >1,000, Deduct</i>		-0.56	
09 22 16 13-0021	SF	3-5/8" Width, 16" On Center, 16 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....		6.05	0.87
		<i>For Powder-Actuated Fasteners Every 2', Add</i>		0.05	
		<i>For Walls >10' High, Add</i>		1.21	
		<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>		2.35	
		<i>For Soffit, Columns Or Beams >10' High, Add</i>		3.00	
		<i>For Horizontal Installation Up To 10' High, Add</i>		0.93	
		<i>For Horizontal Installation >10' High, Add</i>		1.15	
		<i>For Curved Wall, Add</i>		0.65	
		<i>For 12" On Center, Add</i>		1.10	
		<i>For 24" On Center, Deduct</i>		-1.10	
		<i>For Up To 100, Add</i>		1.65	
		<i>For >100 To 300, Add</i>		0.82	
		<i>For >1,000, Deduct</i>		-0.69	



Finishes	09	9
Plaster and Gypsum Board	09 20	
Supports for Plaster and Gypsum Board	09 22	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 16 13-0022	SF		4" Width, 16" On Center, 16 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	6.41	0.91
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.05	
			<i>For Walls >10' High, Add</i>	1.28	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.47	
			<i>For Soffit, Columns Or Beams >10' High, Add</i>	3.16	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.98	
			<i>For Horizontal Installation >10' High, Add</i>	1.21	
			<i>For Curved Wall, Add</i>	0.69	
			<i>For 12" On Center, Add</i>	1.17	
			<i>For 24" On Center, Deduct</i>	-1.17	
			<i>For Up To 100, Add</i>	1.74	
			<i>For >100 To 300, Add</i>	0.87	
			<i>For >1,000, Deduct</i>	-0.73	
09 22 16 13-0023	SF		6" Width, 16" On Center, 16 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	8.12	0.97
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.05	
			<i>For Walls >10' High, Add</i>	1.62	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.74	
			<i>For Soffit, Columns Or Beams >10' High, Add</i>	3.46	
			<i>For Horizontal Installation Up To 10' High, Add</i>	1.17	
			<i>For Horizontal Installation >10' High, Add</i>	1.41	
			<i>For Curved Wall, Add</i>	0.72	
			<i>For 12" On Center, Add</i>	1.50	
			<i>For 24" On Center, Deduct</i>	-1.50	
			<i>For Up To 100, Add</i>	2.11	
			<i>For >100 To 300, Add</i>	1.05	
			<i>For >1,000, Deduct</i>	-0.98	
09 22 16 13-0024	SF		8" Width, 16" On Center, 16 Gauge, Non Load Bearing, Non Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	8.95	1.02
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.05	
			<i>For Walls >10' High, Add</i>	1.79	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.92	
			<i>For Soffit, Columns Or Beams >10' High, Add</i>	3.68	
			<i>For Horizontal Installation Up To 10' High, Add</i>	1.27	
			<i>For Horizontal Installation >10' High, Add</i>	1.53	
			<i>For Curved Wall, Add</i>	0.76	
			<i>For 12" On Center, Add</i>	1.66	
			<i>For 24" On Center, Deduct</i>	-1.66	
			<i>For Up To 100, Add</i>	2.30	
			<i>For >100 To 300, Add</i>	1.15	
			<i>For >1,000, Deduct</i>	-1.09	
09 22 16 13-0025			Galvanized Steel Backing Plates <small>(09 22 16 13)</small>		
			Note: Used to attach fixtures, cabinets, shelves or handrails to metal stud walls.		
09 22 16 13-0026	LF		3" Wide, 25 Gauge Galvanized Steel Backing Plate.....	1.39	
09 22 16 13-0027	LF		4" Wide, 25 Gauge Galvanized Steel Backing Plate.....	1.68	
09 22 16 13-0028	LF		6" Wide, 25 Gauge Galvanized Steel Backing Plate.....	2.13	
09 22 16 13-0029	LF		8" Wide, 25 Gauge Galvanized Steel Backing Plate.....	2.60	
09 22 16 13-0030	LF		10" Wide, 25 Gauge Galvanized Steel Backing Plate.....	3.03	
09 22 16 13-0031	LF		12" Wide, 25 Gauge Galvanized Steel Backing Plate.....	3.61	
09 22 16 13-0032	LF		3" Wide, 20 Gauge Galvanized Steel Backing Plate.....	1.74	
09 22 16 13-0033	LF		4" Wide, 20 Gauge Galvanized Steel Backing Plate.....	2.15	
09 22 16 13-0034	LF		6" Wide, 20 Gauge Galvanized Steel Backing Plate.....	2.82	
09 22 16 13-0035	LF		8" Wide, 20 Gauge Galvanized Steel Backing Plate.....	3.50	
09 22 16 13-0036	LF		10" Wide, 20 Gauge Galvanized Steel Backing Plate.....	4.19	
09 22 16 13-0037	LF		12" Wide, 20 Gauge Galvanized Steel Backing Plate.....	4.98	
09 22 16 13-0038	LF		3" Wide, 16 Gauge Galvanized Steel Backing Plate.....	2.34	
09 22 16 13-0039	LF		4" Wide, 16 Gauge Galvanized Steel Backing Plate.....	2.89	
09 22 16 13-0040	LF		6" Wide, 16 Gauge Galvanized Steel Backing Plate.....	3.88	
09 22 16 13-0041	LF		8" Wide, 16 Gauge Galvanized Steel Backing Plate.....	4.86	
09 22 16 13-0042	LF		10" Wide, 16 Gauge Galvanized Steel Backing Plate.....	5.94	
09 22 16 13-0043	LF		12" Wide, 16 Gauge Galvanized Steel Backing Plate.....	6.98	
09 22 16 13-0044	LF		3" Wide, 14 Gauge Galvanized Steel Backing Plate.....	2.73	
09 22 16 13-0045	LF		4" Wide, 14 Gauge Galvanized Steel Backing Plate.....	3.41	
09 22 16 13-0046	LF		6" Wide, 14 Gauge Galvanized Steel Backing Plate.....	4.66	
09 22 16 13-0047	LF		8" Wide, 14 Gauge Galvanized Steel Backing Plate.....	5.89	
09 22 16 13-0048	LF		10" Wide, 14 Gauge Galvanized Steel Backing Plate.....	7.24	
09 22 16 13-0049	LF		12" Wide, 14 Gauge Galvanized Steel Backing Plate.....	8.54	
09 22 36			Lath <small>(09 22)</small>		
09 22 36 13			Gypsum Lath <small>(09 22 36)</small>		
09 22 36 13-0001			Plaster Base Gypsum Panels <small>(09 22 36 13)</small>		
09 22 36 13-0002	SF		3/8" Thick, Installed On Studs Or Furred Walls, Plaster Base Gypsum Panel.....	1.43	0.49
			<i>For Walls >10' High, Add</i>	0.12	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 500, Add</i>	0.25	
			<i>For >5,000, Deduct</i>	-0.10	

09 Finishes**09 20 Plaster and Gypsum Board****09 22 Supports for Plaster and Gypsum Board**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 36 13-0003	SF		1/2" Thick, Installed On Studs Or Furred Walls, Plaster Base Gypsum Panel.....	1.95	0.57
			<i>For Walls >10' High, Add</i>	0.14	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 500, Add</i>	0.29	
			<i>For >5,000, Deduct</i>	-0.11	
09 22 36 13-0004	SF		5/8" Thick, Installed On Studs Or Furred Walls, Plaster Base Gypsum Panel.....	2.46	0.65
			<i>For Walls >10' High, Add</i>	0.16	
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 500, Add</i>	0.33	
			<i>For >5,000, Deduct</i>	-0.13	
09 22 36 13-0005	SF		3/8" Thick, Installed On Ceiling, Plaster Base Gypsum Panel	1.82	0.68
			<i>For Ceilings >10' High, Add</i>	0.21	
			<i>For Up To 100, Add</i>	0.69	
			<i>For >100 To 500, Add</i>	0.35	
			<i>For >5,000, Deduct</i>	-0.14	
09 22 36 13-0006	SF		1/2" Thick, Installed On Ceiling, Plaster Base Gypsum Panel	2.40	0.79
			<i>For Ceilings >10' High, Add</i>	0.24	
			<i>For Up To 100, Add</i>	0.80	
			<i>For >100 To 500, Add</i>	0.40	
			<i>For >5,000, Deduct</i>	-0.16	
09 22 36 13-0007	SF		5/8" Thick, Installed On Ceiling, Plaster Base Gypsum Panel	2.98	0.91
			<i>For Ceilings >10' High, Add</i>	0.27	
			<i>For Up To 100, Add</i>	0.91	
			<i>For >100 To 500, Add</i>	0.46	
			<i>For >5,000, Deduct</i>	-0.18	
09 22 36 13-0008	SF		3/8" Thick, Installed On Columns And Beams, Plaster Base Gypsum Panel.....	2.21	0.88
			<i>For Columns And Beams >10' High, Add</i>	0.27	
			<i>For Up To 100, Add</i>	0.89	
			<i>For >100 To 500, Add</i>	0.44	
			<i>For >5,000, Deduct</i>	-0.18	
09 22 36 13-0009	SF		1/2" Thick, Installed On Columns And Beams, Plaster Base Gypsum Panel.....	2.86	1.03
			<i>For Columns And Beams >10' High, Add</i>	0.31	
			<i>For Up To 100, Add</i>	1.03	
			<i>For >100 To 500, Add</i>	0.51	
			<i>For >5,000, Deduct</i>	-0.21	
09 22 36 13-0010	SF		5/8" Thick, Installed On Columns And Beams, Plaster Base Gypsum Panel.....	3.50	1.18
			<i>For Columns And Beams >10' High, Add</i>	0.35	
			<i>For Up To 100, Add</i>	1.17	
			<i>For >100 To 500, Add</i>	0.59	
			<i>For >5,000, Deduct</i>	-0.23	
09 22 36 13-0011			Firestop Plaster Base Gypsum Panels <small>(09 22 36 13)</small>		
09 22 36 13-0012	SF		3/8" Thick, Installed On Studs Or Furred Walls, Firestop Plaster Base Gypsum Panel	1.96	0.49
			<i>For Walls >10' High, Add</i>	0.12	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 500, Add</i>	0.25	
			<i>For >5,000, Deduct</i>	-0.10	
09 22 36 13-0013	SF		1/2" Thick, Installed On Studs Or Furred Walls, Firestop Plaster Base Gypsum Panel	2.27	0.57
			<i>For Walls >10' High, Add</i>	0.14	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 500, Add</i>	0.29	
			<i>For >5,000, Deduct</i>	-0.11	
09 22 36 13-0014	SF		3/8" Thick, Installed On Ceilings, Firestop Plaster Base Gypsum Panel.....	2.35	0.68
			<i>For Ceilings >10' High, Add</i>	0.21	
			<i>For Up To 100, Add</i>	0.69	
			<i>For >100 To 500, Add</i>	0.35	
			<i>For >5,000, Deduct</i>	-0.14	
09 22 36 13-0015	SF		1/2" Thick, Installed On Ceilings, Firestop Plaster Base Gypsum Panel.....	2.72	0.79
			<i>For Ceilings >10' High, Add</i>	0.24	
			<i>For Up To 100, Add</i>	0.80	
			<i>For >100 To 500, Add</i>	0.40	
			<i>For >5,000, Deduct</i>	-0.16	
09 22 36 13-0016	SF		3/8" Thick, Installed On Columns And Beams, Firestop Plaster Base Gypsum Panel.....	2.74	0.88
			<i>For Columns And Beams >10' High, Add</i>	0.27	
			<i>For Up To 100, Add</i>	0.89	
			<i>For >100 To 500, Add</i>	0.44	
			<i>For >5,000, Deduct</i>	-0.18	
09 22 36 13-0017	SF		1/2" Thick, Installed On Columns And Beams, Firestop Plaster Base Gypsum Panel.....	3.18	1.03
			<i>For Columns And Beams >10' High, Add</i>	0.31	
			<i>For Up To 100, Add</i>	1.03	
			<i>For >100 To 500, Add</i>	0.51	
			<i>For >5,000, Deduct</i>	-0.21	
09 22 36 13-0018			Foil Back Plaster Base Gypsum Panels <small>(09 22 36 13)</small>		
09 22 36 13-0019	SF		3/8" Thick, Installed On Studs Or Furred Walls, Foil Back Plaster Base Gypsum Panel	1.96	0.49
			<i>For Walls >10' High, Add</i>	0.12	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 500, Add</i>	0.25	
			<i>For >5,000, Deduct</i>	-0.10	
09 22 36 13-0020	SF		1/2" Thick, Installed On Studs Or Furred Walls, Foil Back Plaster Base Gypsum Panel	2.27	0.57
			<i>For Walls >10' High, Add</i>	0.14	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 500, Add</i>	0.29	
			<i>For >5,000, Deduct</i>	-0.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 36 13-0021 SF 3/8" Thick, Installed On Ceiling, Foil Back Plaster Base Gypsum Panel.....	2.35	0.68
<i>For Ceilings >10' High, Add</i>	0.21	
<i>For Up To 100, Add</i>	0.69	
<i>For >100 To 500, Add</i>	0.35	
<i>For >5,000, Deduct</i>	-0.14	
09 22 36 13-0022 SF 1/2" Thick, Installed On Ceiling, Foil Back Plaster Base Gypsum Panel.....	2.72	0.79
<i>For Ceilings >10' High, Add</i>	0.24	
<i>For Up To 100, Add</i>	0.80	
<i>For >100 To 500, Add</i>	0.40	
<i>For >5,000, Deduct</i>	-0.16	
09 22 36 13-0023 SF 3/8" Thick, Installed On Columns And Beams, Foil Back Plaster Base Gypsum Panel.....	2.74	0.88
<i>For Columns And Beams >10' High, Add</i>	0.27	
<i>For Up To 100, Add</i>	0.89	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.18	
09 22 36 13-0024 SF 1/2" Thick, Installed On Columns And Beams, Foil Back Plaster Base Gypsum Panel.....	3.18	1.03
<i>For Columns And Beams >10' High, Add</i>	0.31	
<i>For Up To 100, Add</i>	1.03	
<i>For >100 To 500, Add</i>	0.51	
<i>For >5,000, Deduct</i>	-0.21	

09 22 36 23 Metal Lath (09 22 36)

09 22 36 23-0001 Flat Diamond, Expanded Metal Lath (09 22 36 23)

09 22 36 23-0002 SF 1.75 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath	2.31	0.68
<i>For Walls >10' High, Add</i>	0.19	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.76	
<i>For >100 To 500, Add</i>	0.38	
<i>For >5,000, Deduct</i>	-0.15	
09 22 36 23-0003 SF 2 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath	2.41	0.68
<i>For Walls >10' High, Add</i>	0.19	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.76	
<i>For >100 To 500, Add</i>	0.38	
<i>For >5,000, Deduct</i>	-0.15	
09 22 36 23-0004 SF 2.5 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath	2.52	0.68
<i>For Walls >10' High, Add</i>	0.19	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.76	
<i>For >100 To 500, Add</i>	0.38	
<i>For >5,000, Deduct</i>	-0.15	
09 22 36 23-0005 SF 3.4 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath	2.88	0.72
<i>For Walls >10' High, Add</i>	0.20	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.81	
<i>For >100 To 500, Add</i>	0.41	
<i>For >5,000, Deduct</i>	-0.16	
09 22 36 23-0006 SF 1.75 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath.....	2.53	0.77
<i>For Ceilings >10' High, Add</i>	0.26	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.87	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0007 SF 2 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath.....	2.63	0.77
<i>For Ceilings >10' High, Add</i>	0.26	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.87	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0008 SF 2.5 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath.....	2.74	0.77
<i>For Ceilings >10' High, Add</i>	0.26	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.87	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0009 SF 3.4 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath.....	3.00	0.77
<i>For Ceilings >10' High, Add</i>	0.26	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.87	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0010 SF 1.75 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath.....	3.34	1.10
<i>For Columns And Beams >10' High, Add</i>	0.36	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	1.22	
<i>For >100 To 500, Add</i>	0.61	
<i>For >5,000, Deduct</i>	-0.24	
09 22 36 23-0011 SF 2 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath.....	3.45	1.10
<i>For Columns And Beams >10' High, Add</i>	0.36	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	1.22	
<i>For >100 To 500, Add</i>	0.61	
<i>For >5,000, Deduct</i>	-0.24	

09 Finishes**09 20 Plaster and Gypsum Board****09 22 Supports for Plaster and Gypsum Board**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 36 23-0012	SF		2.5 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath	3.55	1.10
			<i>For Columns And Beams >10' High, Add</i>	0.36	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.22	
			<i>For >100 To 500, Add</i>	0.61	
			<i>For >5,000, Deduct</i>	-0.24	
09 22 36 23-0013	SF		3.4 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath	4.42	1.38
			<i>For Columns And Beams >10' High, Add</i>	0.46	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 500, Add</i>	0.76	
			<i>For >5,000, Deduct</i>	-0.30	
09 22 36 23-0014			Self Furring, Flat Diamond, Expanded Metal Lath <small>(09 22 36 23)</small>		
09 22 36 23-0015	SF		1.75 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath	2.41	0.72
			<i>For Walls >10' High, Add</i>	0.20	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 500, Add</i>	0.41	
			<i>For >5,000, Deduct</i>	-0.16	
09 22 36 23-0016	SF		2.0 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath	2.51	0.72
			<i>For Walls >10' High, Add</i>	0.20	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 500, Add</i>	0.41	
			<i>For >5,000, Deduct</i>	-0.16	
09 22 36 23-0017	SF		2.5 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath	2.62	0.72
			<i>For Walls >10' High, Add</i>	0.20	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 500, Add</i>	0.41	
			<i>For >5,000, Deduct</i>	-0.16	
09 22 36 23-0018	SF		3.4 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath	2.88	0.72
			<i>For Walls >10' High, Add</i>	0.20	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 500, Add</i>	0.41	
			<i>For >5,000, Deduct</i>	-0.16	
09 22 36 23-0019	SF		1.75 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath	3.95	1.38
			<i>For Columns And Beams >10' High, Add</i>	0.46	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 500, Add</i>	0.76	
			<i>For >5,000, Deduct</i>	-0.30	
09 22 36 23-0020	SF		2.0 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath	4.06	1.38
			<i>For Columns And Beams >10' High, Add</i>	0.46	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 500, Add</i>	0.76	
			<i>For >5,000, Deduct</i>	-0.30	
09 22 36 23-0021	SF		2.5 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath	4.16	1.38
			<i>For Columns And Beams >10' High, Add</i>	0.46	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 500, Add</i>	0.76	
			<i>For >5,000, Deduct</i>	-0.30	
09 22 36 23-0022	SF		3.4 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath	4.85	1.57
			<i>For Columns And Beams >10' High, Add</i>	0.52	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.74	
			<i>For >100 To 500, Add</i>	0.87	
			<i>For >5,000, Deduct</i>	-0.35	
09 22 36 23-0023			High Rib Metal Lath <small>(09 22 36 23)</small>		
09 22 36 23-0024	SF		2.75 LB/SY, Installed On Ceiling, 1/8" High Rib Metal Lath	2.82	0.77
			<i>For Ceilings >10' High, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.87	
			<i>For >100 To 500, Add</i>	0.44	
			<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0025	SF		3.4 LB/SY, Installed On Ceiling, 1/8" High Rib Metal Lath	2.97	0.77
			<i>For Ceilings >10' High, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.87	
			<i>For >100 To 500, Add</i>	0.44	
			<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0026	SF		3.4 LB/SY, Installed On Ceiling, 3/8" High Rib Metal Lath	3.06	0.77
			<i>For Ceilings >10' High, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.87	
			<i>For >100 To 500, Add</i>	0.44	
			<i>For >5,000, Deduct</i>	-0.17	
09 22 36 23-0027	SF		4.0 LB/SY, Installed On Ceiling, 3/8" High Rib Metal Lath	3.23	0.77
			<i>For Ceilings >10' High, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.87	
			<i>For >100 To 500, Add</i>	0.44	
			<i>For >5,000, Deduct</i>	-0.17	



Finishes	09	9
Plaster and Gypsum Board	09 20	
Supports for Plaster and Gypsum Board	09 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 22 36 33 Fiberglass Lath (09 22 36)

09 22 36 33-0001 Non-Metallic, Fiberglass Lath (09 22 36 33)

09 22 36 33-0002	SF 1/8" Thick, Installed On Ceiling, Non-Metallic, Fiberglass Lath.....	3.06		0.77
	<i>For Ceilings >10' High, Add</i>	0.26		
	<i>For Up To 100, Add</i>	0.87		
	<i>For >100 To 500, Add</i>	0.44		
	<i>For >5,000, Deduct</i>	-0.17		
09 22 36 33-0003	SF 1/4" Thick, Installed On Ceiling, Non-Metallic, Fiberglass Lath.....	3.25		0.77
	<i>For Ceilings >10' High, Add</i>	0.26		
	<i>For Up To 100, Add</i>	0.87		
	<i>For >100 To 500, Add</i>	0.44		
	<i>For >5,000, Deduct</i>	-0.17		
09 22 36 33-0004	SF 1/8" Thick, Installed On Solid Wall Surface, Non-Metallic, Fiberglass Lath	2.94		0.72
	<i>For Walls >10' High, Add</i>	0.20		
	<i>For Up To 100, Add</i>	0.81		
	<i>For >100 To 500, Add</i>	0.41		
	<i>For >5,000, Deduct</i>	-0.16		
09 22 36 33-0005	SF 1/4" Thick, Installed On Solid Wall Surface, Non-Metallic, Fiberglass Lath	3.13		0.72
	<i>For Walls >10' High, Add</i>	0.20		
	<i>For Up To 100, Add</i>	0.81		
	<i>For >100 To 500, Add</i>	0.41		
	<i>For >5,000, Deduct</i>	-0.16		

09 23 Gypsum Plastering (09 20)

09 23 13 Acoustical Gypsum Plastering (09 23)

Note: Excludes lath, furring and studs. See CSI section 09 22 00 00-0000 for metal studs and furring, 09 22 36 00-0000 for lath.

09 23 13 00-0001 Casing And Corner Beads (09 23 13)

09 23 13 00-0002	LF Galvanized Expanded Flange Casing Bead For Plaster Applications.....	4.47		1.10
09 23 13 00-0003	LF Zinc Expanded Flange Casing Bead For Plaster Applications.....	4.48		1.10
09 23 13 00-0004	LF Vinyl Expanded Flange Casing Bead For Plaster Applications.....	4.42		1.10
09 23 13 00-0005	LF Galvanized Corner Bead For Plaster Applications.....	4.31		1.10
09 23 13 00-0006	LF Vinyl Corner Bead For Plaster Applications.....	4.22		1.10

09 23 13 00-0007 Trim (09 23 13)

09 23 13 00-0008	LF Galvanized "J" Trim For Plaster Applications.....	4.70		1.10
	<i>For Vinyl Instead Of Galvanized, Add</i>	0.23		
	<i>For Zinc Instead Of Galvanized, Add</i>	1.56		
09 23 13 00-0009	LF Galvanized "L" Trim For Plaster Applications	4.70		1.10
	<i>For Vinyl Instead Of Galvanized, Add</i>	0.23		
	<i>For Zinc Instead Of Galvanized, Add</i>	1.56		
09 23 13 00-0010	LF Galvanized "U" Trim For Plaster Applications.....	4.70		1.10
	<i>For Vinyl Instead Of Galvanized, Add</i>	0.23		
	<i>For Zinc Instead Of Galvanized, Add</i>	1.56		

09 23 13 00-0011 Plaster Forms And Expansion Joints (09 23 13)

09 23 13 00-0012	SF 1" Architectural Foam Forms To Cover With Plaster	5.21		
09 23 13 00-0013	LF 3/4" Galvanized Expansion Joint For Plaster Applications.....	5.20		1.10

09 23 13 00-0014 One Skim Coat Gypsum Plaster On Walls (09 23 13)

09 23 13 00-0015	SF Skim Coat One Coat Gypsum Plaster On Walls	1.26		
	<i>For Walls >10' High, Add</i>	0.11		
	<i>For Horizontal Installation Up To 10' High, Add</i>	0.17		
	<i>For Horizontal Installation >10' High, Add</i>	0.33		
	<i>For Columns Or Beams Up To 10' High, Add</i>	0.34		
	<i>For Columns Or Beams >10' High, Add</i>	0.51		
	<i>For Up To 100, Add</i>	0.55		
	<i>For >100 To 500, Add</i>	0.28		
	<i>For >5,000, Deduct</i>	-0.22		
09 23 13 00-0016	SF For Each Additional Coat Over One, Skim Coat Gypsum Plaster On Walls	0.91		
	<i>For Walls >10' High, Add</i>	0.08		
	<i>For Horizontal Installation Up To 10' High, Add</i>	0.12		
	<i>For Horizontal Installation >10' High, Add</i>	0.24		
	<i>For Columns Or Beams Up To 10' High, Add</i>	0.24		
	<i>For Columns Or Beams >10' High, Add</i>	0.36		
	<i>For Up To 100, Add</i>	0.40		
	<i>For >100 To 500, Add</i>	0.20		
	<i>For >5,000, Deduct</i>	-0.16		

09 23 13 00-0017 Two Coats Gypsum Plaster On Walls (09 23 13)

09 Finishes

09 20 Plaster and Gypsum Board

09 23 Gypsum Plastering



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 23 13 00-0018	SF		Smooth Finish Two Coats Gypsum Plaster On Walls.....	6.33	3.65
			For Walls >10' High, Add	0.60	
			For Horizontal Installation Up To 10' High, Add	0.90	
			For Horizontal Installation >10' High, Add	1.81	
			For Columns Or Beams Up To 10' High, Add	1.87	
			For Columns Or Beams >10' High, Add	2.77	
			For Up To 100, Add	3.02	
			For >100 To 500, Add	1.51	
			For >5,000, Deduct	-1.21	
09 23 13 00-0019	SF		Sand Aggregate Two Coats Gypsum Plaster On Walls.....	6.63	3.46
			For Walls >10' High, Add	0.57	
			For Horizontal Installation Up To 10' High, Add	0.85	
			For Horizontal Installation >10' High, Add	1.70	
			For Columns Or Beams Up To 10' High, Add	1.75	
			For Columns Or Beams >10' High, Add	2.60	
			For Up To 100, Add	2.83	
			For >100 To 500, Add	1.42	
			For >5,000, Deduct	-1.13	
09 23 13 00-0020	SF		Perlite Or Vermiculite Two Coats Gypsum Plaster On Walls.....	6.44	3.46
			For Walls >10' High, Add	0.57	
			For Horizontal Installation Up To 10' High, Add	0.85	
			For Horizontal Installation >10' High, Add	1.70	
			For Columns Or Beams Up To 10' High, Add	1.75	
			For Columns Or Beams >10' High, Add	2.60	
			For Up To 100, Add	2.83	
			For >100 To 500, Add	1.42	
			For >5,000, Deduct	-1.13	
09 23 13 00-0021			Three Coats Gypsum Plaster On Walls (09 23 13)		
09 23 13 00-0022	SF		Smooth Finish Three Coats Gypsum Plaster On Walls.....	7.64	4.45
			For Walls >10' High, Add	0.72	
			For Horizontal Installation Up To 10' High, Add	1.08	
			For Horizontal Installation >10' High, Add	2.16	
			For Columns Or Beams Up To 10' High, Add	2.24	
			For Columns Or Beams >10' High, Add	3.32	
			For Up To 100, Add	3.61	
			For >100 To 500, Add	1.80	
			For >5,000, Deduct	-1.44	
09 23 13 00-0023	SF		Sand Aggregate Three Coats Gypsum Plaster On Walls.....	7.78	4.06
			For Walls >10' High, Add	0.67	
			For Horizontal Installation Up To 10' High, Add	1.00	
			For Horizontal Installation >10' High, Add	2.00	
			For Columns Or Beams Up To 10' High, Add	2.07	
			For Columns Or Beams >10' High, Add	3.07	
			For Up To 100, Add	3.34	
			For >100 To 500, Add	1.67	
			For >5,000, Deduct	-1.34	
09 23 13 00-0024	SF		Perlite Or Vermiculite Three Coats Gypsum Plaster On Walls.....	7.17	4.06
			For Walls >10' High, Add	0.67	
			For Horizontal Installation Up To 10' High, Add	1.00	
			For Horizontal Installation >10' High, Add	2.00	
			For Columns Or Beams Up To 10' High, Add	2.06	
			For Columns Or Beams >10' High, Add	3.06	
			For Up To 100, Add	3.33	
			For >100 To 500, Add	1.66	
			For >5,000, Deduct	-1.33	
09 23 13 00-0025			Plaster Bonding Agent (09 23 13)		
09 23 13 00-0026	SF		1 Coat, Brush/Roller Plaster Bonding Agent.....	0.71	
			For Walls >10' High, Add	0.06	
			For Columns Or Beams Up To 10' High, Add	0.18	
			For Columns Or Beams >10' High, Add	0.26	
			For Ceiling Application Up To 10' High, Add	0.08	
			For Ceiling Application >10' High, Add	0.13	
09 24			Cement Plastering (09 20)		
09 24 13			Acoustical Cement Plastering (09 24)		
09 24 13 00-0001			Keene's Cement Plaster, Quick Setting, White Hard Plaster (09 24 13)		
			Note: Used for areas with higher than normal moisture.		
09 24 13 00-0002	SF		1 Coat Keene's Cement Plaster On Walls.....	5.34	2.47
			For Walls >10' High, Add	0.40	
			For Horizontal Installation Up To 10' High, Add	0.59	
			For Horizontal Installation >10' High, Add	1.19	
			For Columns Or Beams Up To 10' High, Add	1.23	
			For Columns Or Beams >10' High, Add	1.82	
			For Up To 100, Add	1.98	
			For >100 To 500, Add	0.99	
			For >5,000, Deduct	-0.79	



Finishes	09	2
Plaster and Gypsum Board	09 20	
Cement Plastering	09 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 24 13 00-0003	SF		2 Coat Keene's Cement Plaster On Walls	8.00	3.86
			<i>For Walls >10' High, Add</i>	0.63	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.94	
			<i>For Horizontal Installation >10' High, Add</i>	1.88	
			<i>For Columns Or Beams Up To 10' High, Add</i>	1.94	
			<i>For Columns Or Beams >10' High, Add</i>	2.88	
			<i>For Up To 100, Add</i>	3.14	
			<i>For >100 To 500, Add</i>	1.57	
			<i>For >5,000, Deduct</i>	-1.25	
09 24 13 00-0004	SF		3 Coat Keene's Cement Plaster On Walls	9.06	4.35
			<i>For Walls >10' High, Add</i>	0.71	
			<i>For Horizontal Installation Up To 10' High, Add</i>	1.06	
			<i>For Horizontal Installation >10' High, Add</i>	2.13	
			<i>For Columns Or Beams Up To 10' High, Add</i>	2.20	
			<i>For Columns Or Beams >10' High, Add</i>	3.26	
			<i>For Up To 100, Add</i>	3.55	
			<i>For >100 To 500, Add</i>	1.77	
			<i>For >5,000, Deduct</i>	-1.42	

09 24 23 Cement Stucco (09 24)

Note: Packaged product reinforced with fibers. All plastering excludes lath, furring or studs except as noted. See CSI section 09 22 00 00-0000 for metal studs and furring.

09 24 23 00-0001	SF		Stucco (09 24 23) Note: Excludes wall scaffolding or lifting equipment. See CSI section 09 22 36 00-0000 for lath.		
09 24 23 00-0002	SF		Scratch/Brown/Finish, Three Coat Troweled Stucco	9.81	3.07
			Note: Excludes lath and felt. Interior or exterior, one side.		
			<i>For Walls >10' High, Add</i>	0.84	
			<i>For Horizontal Installation Up To 10' High, Add</i>	1.26	
			<i>For Horizontal Installation >10' High, Add</i>	2.51	
			<i>For Columns Or Beams Up To 10' High, Add</i>	2.59	
			<i>For Columns Or Beams >10' High, Add</i>	3.85	
			<i>For Color Added To Finish Coat, Add</i>	0.15	
			<i>For Smooth Float Finish, Add</i>	1.76	
			<i>For Up To 100, Add</i>	4.19	
			<i>For >100 To 500, Add</i>	2.09	
			<i>For >5,000, Deduct</i>	-1.67	
09 24 23 00-0003	SF		Scratch/Brown, Two Coat Troweled Stucco.....	4.33	1.49
			Note: Excludes lath and felt. Interior or exterior, one side.		
			<i>For Walls >10' High, Add</i>	0.31	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.46	
			<i>For Horizontal Installation >10' High, Add</i>	0.92	
			<i>For Columns Or Beams Up To 10' High, Add</i>	0.95	
			<i>For Columns Or Beams >10' High, Add</i>	1.41	
			<i>For Up To 100, Add</i>	1.54	
			<i>For >100 To 500, Add</i>	0.77	
			<i>For >5,000, Deduct</i>	-0.61	
09 24 23 00-0004	SF		Scratch/Finish, Two Coat Troweled Stucco	6.49	1.49
			Note: Excludes lath and felt. Interior or exterior, one side.		
			<i>For Walls >10' High, Add</i>	0.54	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.82	
			<i>For Horizontal Installation >10' High, Add</i>	1.63	
			<i>For Columns Or Beams Up To 10' High, Add</i>	1.69	
			<i>For Columns Or Beams >10' High, Add</i>	2.50	
			<i>For Color Added To Finish Coat, Add</i>	0.15	
			<i>For Smooth Float Finish, Add</i>	1.50	
			<i>For Up To 100, Add</i>	2.72	
			<i>For >100 To 500, Add</i>	1.36	
			<i>For >5,000, Deduct</i>	-1.09	
09 24 23 00-0005	SF		Finish Coat Troweled Stucco	4.14	0.99
			Note: Excludes lath and felt. Interior or exterior, one side.		
			<i>For Walls >10' High, Add</i>	0.40	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.59	
			<i>For Horizontal Installation >10' High, Add</i>	1.19	
			<i>For Columns Or Beams Up To 10' High, Add</i>	1.23	
			<i>For Columns Or Beams >10' High, Add</i>	1.82	
			<i>For Color Added To Finish Coat, Add</i>	0.15	
			<i>For Smooth Float Finish, Add</i>	1.49	
			<i>For Up To 100, Add</i>	1.98	
			<i>For >100 To 500, Add</i>	0.99	
			<i>For >5,000, Deduct</i>	-0.79	

09 24 33 Cement Parging (09 24)

09 24 33 00-0001	SF		Cement Parging (09 24 33)		
09 24 33 00-0002	SF		1/8" Thick Sand And Cement Parging	3.51	
09 24 33 00-0003	SF		1/4" Thick Sand And Cement Parging	4.53	
09 24 33 00-0004	SF		1/2" Thick Sand And Cement Parging	5.73	

09 28 Backing Boards and Underlayments (09 20)

09 28 13 Cementitious Backing Boards (09 28)

09 Finishes**09 20 Plaster and Gypsum Board****09 28 Backing Boards and Underlayments**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 28 13 00-0001			Cementitious Backer Units <small>(09 28 13)</small> Note: Installed with mechanical fasteners to floor, wall and ceiling surfaces. Use thin-set from setting methods section for floor installations as applicable.		
09 28 13 00-0002	SF		1/4" Cementitious Backer Units For Installation On Floors	4.38	0.73
			For Up To 50, Add	3.29	
			For >50 To 250, Add	0.59	
			For >1,000, Deduct	-0.29	
			For Installation On Wall, Add	0.59	
			For Installation On Ceiling, Add	1.47	
09 28 13 00-0003	SF		1/2" Cementitious Backer Units For Installation On Floors	5.00	0.88
			For Up To 50, Add	3.88	
			For >50 To 250, Add	0.70	
			For >1,000, Deduct	-0.35	
			For Installation On Wall, Add	0.70	
			For Installation On Ceiling, Add	1.76	
09 28 13 00-0004	SF		5/8" Cementitious Backer Units For Installation On Floors	6.21	1.03
			For Up To 50, Add	4.63	
			For >50 To 250, Add	0.82	
			For >1,000, Deduct	-0.41	
			For Installation On Wall, Add	0.82	
			For Installation On Ceiling, Add	2.05	
09 28 16			Glass-Mat Faced Gypsum Backing Boards <small>(09 28)</small>		
09 28 16 00-0001			Glass Mat Faced Backer Units, DensShield <small>(09 28 16)</small> Note: Installed with mechanical fasteners to floor, wall and ceiling surfaces. Use thin-set from setting methods section for floor installations as applicable.		
09 28 16 00-0002	SF		1/2" DensShield Tile Backer For Installation On Floors	3.25	0.82
			For Up To 50, Add	2.39	
			For >50 To 250, Add	0.42	
			For >1,000, Deduct	-0.21	
			For Installation On Wall, Add	0.42	
			For Installation On Ceiling, Add	1.05	
09 28 16 00-0003	SF		5/8" DensShield Tile Backer For Installation On Floors	3.69	0.94
			For Up To 50, Add	2.69	
			For >50 To 250, Add	0.47	
			For >1,000, Deduct	-0.24	
			For Installation On Wall, Add	0.47	
			For Installation On Ceiling, Add	1.18	
09 29			Gypsum Board <small>(09 29)</small>		
09 29 10			Gypsum Board <small>(09 29)</small>		
09 29 10 00-0001			Standard Gypsum Board Application <small>(09 29 10)</small> Note: Includes gypsum board screwed in place on walls, ceilings, beams, columns, soffits, etc.. Excludes finishing. See CSI section 09 01 20 91-0001 for small repairs, 09 29 10 00-0036 for finishing gypsum board, 09 29 10 00-0049 for casing and corner bead.		
09 29 10 00-0002			Standard Gypsum Board Application <small>(09 29 10 00-0001)</small>		
09 29 10 00-0003	SF		1/4" Gypsum Board.....	1.28	0.47
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.22	
			For Adhesive Applied Sheets, Add	0.11	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.32	
			For Horizontal Installation >10' High, Add	0.47	
			For Walls >10' High, Add	0.08	
			For Up To 128, Add	0.44	
			For >128 To 320, Add	0.27	
			For >1,536, Deduct	-0.10	
09 29 10 00-0004	SF		3/8" Gypsum Board.....	1.40	0.52
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.25	
			For Adhesive Applied Sheets, Add	0.11	
			Note: Includes bracing until adhesive is bonded		
			For Foil Back Board, Add	0.10	
			For Horizontal Installation Up To 10' High, Add	0.36	
			For Horizontal Installation >10' High, Add	0.53	
			For Walls >10' High, Add	0.08	
			For Up To 128, Add	0.49	
			For >128 To 320, Add	0.30	
			For >1,536, Deduct	-0.10	
09 29 10 00-0005	SF		1/2" Gypsum Board.....	1.55	0.60
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.28	
			For Adhesive Applied Sheets, Add	0.12	
			Note: Includes bracing until adhesive is bonded		
			For Foil Back Board, Add	0.10	
			For Horizontal Installation Up To 10' High, Add	0.41	
			For Horizontal Installation >10' High, Add	0.61	
			For Walls >10' High, Add	0.10	
			For Up To 128, Add	0.55	
			For >128 To 320, Add	0.34	
			For >1,536, Deduct	-0.11	



Finishes	09	9
Plaster and Gypsum Board	09 20	
Gypsum Board	09 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0006 SF 5/8" Gypsum Board.....	1.81	0.69
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.32	
For Adhesive Applied Sheets, Add	0.13	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.47	
For Horizontal Installation >10' High, Add	0.70	
For Walls >10' High, Add	0.11	
For Up To 128, Add	0.64	
For >128 To 320, Add	0.39	
For >1,536, Deduct	-0.13	
09 29 10 00-0007 Fire Rated Gypsum Board Application (09 29 10 00-0001)		
09 29 10 00-0008 Type X, Fire Rated Gypsum Board (09 29 10 00-0007)		
09 29 10 00-0009 SF 5/8" Type X Fire Rated Gypsum Board.....	1.94	0.69
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.36	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.52	
For Horizontal Installation >10' High, Add	0.77	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.69	
For >128 To 320, Add	0.42	
For >1,536, Deduct	-0.14	
09 29 10 00-0010 Type C, Fire Rated Gypsum Board (09 29 10 00-0007)		
09 29 10 00-0011 SF 1/2" Type C Fire Rated Gypsum Board.....	1.76	0.60
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.31	
For Adhesive Applied Sheets, Add	0.13	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.45	
For Horizontal Installation >10' High, Add	0.67	
For Walls >10' High, Add	0.11	
For Up To 128, Add	0.62	
For >128 To 320, Add	0.38	
For >1,536, Deduct	-0.13	
09 29 10 00-0012 SF 5/8" Type C Fire Rated Gypsum Board.....	1.99	0.69
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.36	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.52	
For Horizontal Installation >10' High, Add	0.77	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.70	
For >128 To 320, Add	0.43	
For >1,536, Deduct	-0.15	
09 29 10 00-0013 Fire Rated Gypsum Board (Sheetrock® Ultracode®) (09 29 10 00-0007)		
09 29 10 00-0014 SF 3/4" Fire Rated Gypsum Board (Sheetrock® Ultracode®).....	2.56	0.69
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.36	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.52	
For Horizontal Installation >10' High, Add	0.77	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.82	
For >128 To 320, Add	0.49	
For >1,536, Deduct	-0.23	
09 29 10 00-0015 Moisture Resistant Gypsum Board Application (09 29 10 00-0001)		
Note: Water-resistant gypsum core.		
09 29 10 00-0016 SF 1/2" Moisture Resistant Gypsum Board.....	1.66	0.60
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.28	
For Adhesive Applied Sheets, Add	0.12	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.41	
For Horizontal Installation >10' High, Add	0.61	
For Walls >10' High, Add	0.10	
For Up To 128, Add	0.57	
For >128 To 320, Add	0.35	
For >1,536, Deduct	-0.13	

09 Finishes

09 20 Plaster and Gypsum Board

09 29 Gypsum Board



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0017	SF		5/8" Moisture Resistant Gypsum Board <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	2.10 0.33 0.13 0.47 0.70 0.11 0.70 0.42 -0.18	0.60
09 29 10 00-0018			Vinyl Faced Gypsum Board Application (09 29 10 00-0001) <i>Note: Includes clips and adhesive.</i>		
09 29 10 00-0019	SF		3/8" Prefinished, Vinyl Faced Gypsum Board <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	2.92 0.26 0.11 0.36 0.53 0.08 0.80 0.45 -0.33	0.47
09 29 10 00-0020	SF		1/2" Prefinished, Vinyl Faced Gypsum Board <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	3.07 0.30 0.12 0.41 0.61 0.10 0.86 0.49 -0.34	0.60
09 29 10 00-0021	SF		5/8" Prefinished, Vinyl Faced Gypsum Board <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	3.25 0.34 0.13 0.47 0.70 0.11 0.93 0.53 -0.35	0.69
09 29 10 00-0022	SF		1/2" Fire Rated, Prefinished Vinyl Faced Gypsum Board <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	3.51 0.33 0.13 0.45 0.67 0.11 0.97 0.55 -0.39	0.60
09 29 10 00-0023	SF		5/8" Fire Rated, Prefinished Vinyl Faced Gypsum Board <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	5.14 0.39 0.14 0.52 0.77 0.12 1.33 0.74 -0.62	0.69
09 29 10 00-0024			Moisture And Mold Resistant Gypsum Board Application (09 29 10 00-0001)		
09 29 10 00-0025	SF		1/2", Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Mold-Guard™) <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Non-reinforced Board, Deduct</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	1.88 0.29 0.12 -0.08 0.41 0.61 0.10 0.62 0.37 -0.16	0.58



		Finishes	09
		Plaster and Gypsum Board	09 20
		Gypsum Board	09 29

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0026	SF		5/8", Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Mold-Guard™).....	2.21	0.66
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.33	
			For Adhesive Applied Sheets, Add	0.13	
			Note: Includes bracing until adhesive is bonded		
			For Non-reinforced Board, Deduct	-0.08	
			For Horizontal Installation Up To 10' High, Add	0.47	
			For Horizontal Installation >10' High, Add	0.70	
			For Walls >10' High, Add	0.11	
			For Up To 128, Add	0.72	
			For >128 To 320, Add	0.43	
			For >1,536, Deduct	-0.19	
09 29 10 00-0027	SF		1/2" Fire Rated, Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Fireguard X® Mold-Guard™).....	2.19	0.58
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.31	
			For Adhesive Applied Sheets, Add	0.13	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.45	
			For Horizontal Installation >10' High, Add	0.67	
			For Walls >10' High, Add	0.11	
			For Up To 128, Add	0.70	
			For >128 To 320, Add	0.42	
			For >1,536, Deduct	-0.20	
09 29 10 00-0028	SF		5/8" Fire Rated, Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Fireguard X® Mold-Guard™).....	2.47	0.66
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.36	
			For Adhesive Applied Sheets, Add	0.14	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.52	
			For Horizontal Installation >10' High, Add	0.77	
			For Walls >10' High, Add	0.12	
			For Up To 128, Add	0.80	
			For >128 To 320, Add	0.48	
			For >1,536, Deduct	-0.22	
09 29 10 00-0029			Impact Resistant Gypsum Board (09 29 10 00-0001)		
			Note: Includes tapered edge, mold and moisture resistant, fire-resistant, Type X gypsum core encased in a heavy, abrasion and mold/mildew/moisture resistant		
09 29 10 00-0030	SF		5/8" Fire Rated, Impact Resistant Gypsum Board (National Gypsum Hi-Impact®).....	3.53	0.66
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.34	
			For Adhesive Applied Sheets, Add	0.13	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.47	
			For Horizontal Installation >10' High, Add	0.69	
			For Walls >10' High, Add	0.11	
			For Up To 128, Add	0.98	
			For >128 To 320, Add	0.56	
			For >1,536, Deduct	-0.39	
09 29 10 00-0031			Abuse Resistant Gypsum Board (09 29 10 00-0001)		
			Note: Includes tapered edge, mold and moisture resistant, fire-resistant Type X gypsum core encased in a heavy, abrasion and mold/mildew/moisture resistant		
09 29 10 00-0032	SF		5/8" Fire Rated, Abuse Resistant Gypsum Board (National Gypsum Hi-Abuse®).....	2.25	0.66
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.33	
			For Adhesive Applied Sheets, Add	0.13	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.47	
			For Horizontal Installation >10' High, Add	0.69	
			For Walls >10' High, Add	0.11	
			For Up To 128, Add	0.73	
			For >128 To 320, Add	0.43	
			For >1,536, Deduct	-0.20	
09 29 10 00-0033			Noise Reducing Gypsum Board (09 29 10 00-0001)		
09 29 10 00-0034	SF		1/2" Noise Reducing Gypsum Board (National Gypsum SoundBreak).....	4.10	0.70
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.35	
			For Adhesive Applied Sheets, Add	0.13	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.48	
			For Horizontal Installation >10' High, Add	0.71	
			For Walls >10' High, Add	0.11	
			For Up To 128, Add	1.10	
			For >128 To 320, Add	0.62	
			For >1,536, Deduct	-0.47	

09 Finishes

09 20 Plaster and Gypsum Board

09 29 Gypsum Board



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0035	SF		5/8" Noise Reducing Gypsum Board (National Gypsum SoundBreak) <i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i> <i>For Adhesive Applied Sheets, Add</i> <i>Note: Includes bracing until adhesive is bonded</i> <i>For Horizontal Installation Up To 10' High, Add</i> <i>For Horizontal Installation >10' High, Add</i> <i>For Walls >10' High, Add</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >1,536, Deduct</i>	4.86 0.36 0.13 0.48 0.71 0.11 1.25 0.70 -0.59	0.70
09 29 10 00-0036			Finishing Gypsum Board Applications (09 29 10) <i>Note: Includes flat or curved walls, columns, soffits, recesses, and chases. Tape, spackle, sand and finish gypsum board to the appropriate level as defined by ASTM C 840. No taping or finishing is required for Level 0. For Level 1, tape is set in compound at joints and interior angles. Ridges and tool marks are acceptable. For Level 2, tape is set in compound and wiped with a joint knife leaving a thin coating of compound over joints, interior angles, fastener heads, and beads. Ridges and tool marks are acceptable. Compound applied over the body of the tape at the time of the tape is set satisfies the conditions for this level. For Level 3, tape is set in compound and one additional coat of compound is applied over all joints and interior angles. Fastener heads and accessories receive two separate coats of joint compound. Ridges and tool marks are not acceptable. For Level 4, tape is set in compound and two separate coats of compound are applied over all flat joints with one separate coat of compound applied over interior angles. Fastener heads and accessories receive three separate coats of compound. Ridges and tool marks are not acceptable. A Level 5 finish is a Level 4 finish plus a thin skim coat of compound applied to the entire drywall surface. All levels of finish require that the surface be free of excess compound. A single modifier may be used to change the level of finish to the appropriate level.</i>		
09 29 10 00-0037			Finish Gypsum Board Walls, ASTM C840 Level 4 (09 29 10 00-0036)		
09 29 10 00-0038	SF		Up To 10' High, Walls, Tape, Spackle And Finish Gypsum Board..... <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >5,400, Deduct</i> <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i> <i>For Spray Applied Textured Or Orange Peel Finish, Add</i>	0.79 0.30 0.19 -0.08 -0.38 -0.19 -0.08 0.58 0.58	
09 29 10 00-0039	SF		>10' High, Walls, Tape, Spackle And Finish Gypsum Board <i>Note: Use this task for the entire wall area when the wall is >10' high.</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >5,400, Deduct</i> <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i> <i>For Spray Applied Textured Or Orange Peel Finish, Add</i>	1.05 0.41 0.25 -0.11 -0.51 -0.25 -0.10 0.78 0.78	
09 29 10 00-0040			Finish Gypsum Board Ceilings, ASTM C840 Level 4 (09 29 10 00-0036)		
09 29 10 00-0041	SF		Up To 10' High, Ceilings, Tape, Spackle And Finish Gypsum Board..... <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >5,400, Deduct</i> <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i> <i>For Spray Applied Textured Or Orange Peel Finish, Add</i>	1.03 0.40 0.25 -0.10 -0.50 -0.25 -0.10 0.76 0.76	
09 29 10 00-0042	SF		>10' High, Ceilings, Tape, Spackle And Finish Gypsum Board..... <i>Note: Use this task for the entire wall area when the wall is >10' high.</i> <i>For Up To 128, Add</i> <i>For >128 To 320, Add</i> <i>For >5,400, Deduct</i> <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i> <i>For Spray Applied Textured Or Orange Peel Finish, Add</i>	1.38 0.54 0.34 -0.14 -0.67 -0.34 -0.14 1.03 1.03	
09 29 10 00-0043			Finish Gypsum Board Vertical Corners, ASTM C840 Level 4 (09 29 10 00-0036) <i>Note: Inside or outside gypsum board corners.</i>		
09 29 10 00-0044	LF		Up To 10' High, Vertical Corners, Tape, Spackle And Finish Gypsum Board..... <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.56 -0.74 -0.37 -0.15 1.15	
09 29 10 00-0045	LF		>10' High, Vertical Corners, Tape, Spackle And Finish Gypsum Board..... <i>Note: Use this task for the entire wall area when the wall is >10' high.</i> <i>For ASTM C840 Level 1 Finish, Deduct</i> <i>For ASTM C840 Level 2 Finish, Deduct</i> <i>For ASTM C840 Level 3 Finish, Deduct</i> <i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.87 -0.89 -0.45 -0.18 1.38	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0046				Finish Gypsum Board Horizontal Corners, ASTM C840 Level 4 <small>(09 29 10 00-0036)</small>		
				Note: Inside or outside gypsum board corners.		
09 29 10 00-0047	LF			Up To 10' High, Horizontal Corners, Tape, Spackle And Finish Gypsum Board.....	1.82	
				<i>For ASTM C840 Level 1 Finish, Deduct</i>	-0.87	
				<i>For ASTM C840 Level 2 Finish, Deduct</i>	-0.43	
				<i>For ASTM C840 Level 3 Finish, Deduct</i>	-0.17	
				<i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.34	
09 29 10 00-0048	LF			>10' High, Horizontal Corners, Tape, Spackle And Finish Gypsum Board	2.19	
				Note: Use this task for the entire wall area when the wall is >10' high.		
				<i>For ASTM C840 Level 1 Finish, Deduct</i>	-1.05	
				<i>For ASTM C840 Level 2 Finish, Deduct</i>	-0.53	
				<i>For ASTM C840 Level 3 Finish, Deduct</i>	-0.21	
				<i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.62	
09 29 10 00-0049				Casing And Corner Beads <small>(09 29 10)</small>		
09 29 10 00-0050	LF			Casing, Galvanized Steel J-Bead For Gypsum Board.....	4.28	1.17
				<i>For Up To 100, Add</i>	0.31	
				<i>For >500, Deduct</i>	-0.21	
09 29 10 00-0051	LF			Corner Bead, Galvanized Steel For Gypsum Board	4.06	1.17
				<i>For Up To 100, Add</i>	0.27	
				<i>For >500, Deduct</i>	-0.20	
09 29 10 00-0052				Preformed Architectural Profiles <small>(09 29 10)</small>		
09 29 10 00-0053				Trim Reveals For Gypsum Board <small>(09 29 10 00-0052)</small>		
09 29 10 00-0054	LF			1/8" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	4.75	1.41
09 29 10 00-0055	LF			1/4" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	4.78	1.41
09 29 10 00-0056	LF			3/8" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	4.90	1.41
09 29 10 00-0057	LF			1/2" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	4.96	1.41
09 29 10 00-0058	LF			5/8" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.10	1.41
09 29 10 00-0059	LF			3/4" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.25	1.41
09 29 10 00-0060	LF			1" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.40	1.41
09 29 10 00-0061	LF			1-1/2" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board	5.88	1.41
09 29 10 00-0062	LF			2" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.35	1.41
09 29 10 00-0063	LF			1/8" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	4.92	1.53
09 29 10 00-0064	LF			1/4" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	4.92	1.53
09 29 10 00-0065	LF			3/8" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.25	1.53
09 29 10 00-0066	LF			1/2" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.30	1.53
09 29 10 00-0067	LF			5/8" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.51	1.53
09 29 10 00-0068	LF			3/4" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.60	1.53
09 29 10 00-0069	LF			1" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	5.72	1.53
09 29 10 00-0070	LF			1 1/2" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.25	1.53
09 29 10 00-0071	LF			2" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.79	1.53
09 29 10 00-0072	LF			3" x 5/8", Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	9.09	1.76
09 29 10 00-0073	LF			4" x 5/8", Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	9.98	1.76
09 29 10 00-0074				Edge Trim For Gypsum Board <small>(09 29 10 00-0052)</small>		
09 29 10 00-0075	LF			1/2" Aluminum Extrusions, Edge Trim For Gypsum Board.....	4.47	1.46
09 29 10 00-0076	LF			5/8" Aluminum Extrusions, Edge Trim For Gypsum Board.....	4.71	1.46
09 29 10 00-0077	LF			1" Aluminum Extrusions, Edge Trim For Gypsum Board.....	5.45	1.62
09 29 10 00-0078	LF			1-1/4" Aluminum Extrusions, Edge Trim For Gypsum Board.....	5.72	1.76
09 29 10 00-0079	LF			1/2" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	7.44	1.46
09 29 10 00-0080	LF			5/8" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	7.68	1.46
09 29 10 00-0081	LF			1" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	8.41	1.62
09 29 10 00-0082	LF			1-1/4" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	8.69	1.76
09 29 10 00-0083				Bevel Trim For Gypsum Board <small>(09 29 10 00-0052)</small>		
09 29 10 00-0084	LF			5/16" x 1/4" Aluminum Extrusions, Bevel Trim For Gypsum Board.....	4.71	1.46
09 29 10 00-0085	LF			5/8" x 5/8" Aluminum Extrusions, Bevel Trim For Gypsum Board.....	5.36	1.62
09 29 10 00-0086				Trim/Wainscot Caps For Gypsum Board <small>(09 29 10 00-0052)</small>		
09 29 10 00-0087	LF			1-1/2" Wide Aluminum Extrusions, Trim/Wainscot Cap For Gypsum Board	6.23	1.76
09 29 10 00-0088				Single Fin Wall/Trim Reveals For Gypsum Board <small>(09 29 10 00-0052)</small>		
09 29 10 00-0089	LF			1/8" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	4.23	0.94
09 29 10 00-0090	LF			1/4" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	4.37	1.06
09 29 10 00-0091	LF			3/8" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.05	1.17
09 29 10 00-0092	LF			1/2" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.39	1.29
09 29 10 00-0093	LF			5/8" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.70	1.41
09 29 10 00-0094	LF			3/4" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.79	1.41
09 29 10 00-0095	LF			1" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.05	1.41
09 29 10 00-0096	LF			1-1/2" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.56	1.41
09 29 10 00-0097	LF			2" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.74	1.41
09 29 10 00-0098	LF			1/8" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.51	1.53
09 29 10 00-0099	LF			1/4" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.57	1.53

09 Finishes**09 20 Plaster and Gypsum Board****09 29 Gypsum Board**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0100	LF		3/8" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.90	1.53
09 29 10 00-0101	LF		1/2" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.05	1.53
09 29 10 00-0102	LF		5/8" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.17	1.53
09 29 10 00-0103	LF		3/4" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.31	1.53
09 29 10 00-0104	LF		1" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.52	1.53
09 29 10 00-0105	LF		1-1/2" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.06	1.53
09 29 10 00-0106	LF		2" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.50	1.53
09 29 10 00-0107	LF		3" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	8.92	1.53
09 29 10 00-0108	LF		4" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	11.65	1.53
09 29 10 00-0109	LF		3-1/16" x 7/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	8.39	1.53
09 29 10 00-0110	LF		3-1/16" x 9/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	8.63	1.53
09 29 10 00-0111	LF		4-1/16" x 7/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	9.43	1.53
09 29 10 00-0112	LF		4-1/16" x 9/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	9.52	1.53
09 29 10 00-0113	LF		9/16" Tall with 1/2" Reveal, Aluminum Extrusions, Single Fin Wall Base With Reveal For Gypsum Board.....	10.67	1.53
09 29 10 00-0114	LF		5/8" Aluminum Extrusions, Single Fin Wall/Trim Reveal Hanging Track For Gypsum Board.....	8.95	1.53
09 29 10 00-0115			'V' Groove Wall Reveals For Gypsum Board (09 29 10 00-0052)		
09 29 10 00-0116	LF		1/4" x 5/8" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	7.01	2.10
09 29 10 00-0117	LF		3/4" x 1/2" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	8.05	2.35
09 29 10 00-0118	LF		1" x 1/2" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	9.19	2.81
09 29 10 00-0119	LF		9/32" x 5/8" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	9.48	3.05
09 29 10 00-0120			Double Fin Wall Reveals For Gypsum Board (09 29 10 00-0052)		
09 29 10 00-0121	LF		3/8" x 3/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.17	1.41
09 29 10 00-0122	LF		1/8" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.23	1.41
09 29 10 00-0123	LF		1/4" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.29	1.41
09 29 10 00-0124	LF		3/8" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.29	1.41
09 29 10 00-0125	LF		1/2" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.56	1.41
09 29 10 00-0126	LF		5/8" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.68	1.39
09 29 10 00-0127	LF		3/4" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.80	1.41
09 29 10 00-0128	LF		1" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.06	1.41
09 29 10 00-0129	LF		1-1/2" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.51	1.41
09 29 10 00-0130	LF		2" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.98	1.41
09 29 10 00-0131	LF		3/8" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.55	1.53
09 29 10 00-0132	LF		1/4" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.61	1.53
09 29 10 00-0133	LF		3/8" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	6.73	1.53
09 29 10 00-0134	LF		1/2" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.00	1.53
09 29 10 00-0135	LF		5/8" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.11	1.53
09 29 10 00-0136	LF		3/4" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.20	1.53
09 29 10 00-0137	LF		1" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.50	1.53
09 29 10 00-0138	LF		1-1/2" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	7.98	1.53
09 29 10 00-0139	LF		2" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	8.45	1.53
09 29 10 00-0140	LF		3" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.73	1.53
09 29 10 00-0141	LF		4" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	12.40	1.53
09 29 10 00-0142	LF		1-1/2" x 1" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	11.34	1.66
09 29 10 00-0143	LF		3/4" x 1 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	13.00	2.03
09 29 10 00-0144	LF		1-1/2" x 1-1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	13.39	2.03
09 29 10 00-0145	LF		1/2", Aluminum Extrusions, Double Fin Hanging Track Wall Reveal For Gypsum Board.....	10.24	1.39
09 29 10 00-0146	LF		1 3/16", Aluminum Extrusions, Double Fin Hanging Track Wall Reveal For Gypsum Board.....	10.00	2.03
09 29 10 00-0147	LF		1/4" Aluminum Extrusions, Double Fin Wall Covering Joiner For Gypsum Board.....	7.15	1.39
09 29 10 00-0148			Special Conditions Reveals For Gypsum Board (09 29 10 00-0052)		
09 29 10 00-0149			Radius Conditions (09 29 10 00-0148)		
09 29 10 00-0150	EA		8' Long Inside Radius For Gypsum Board.....	74.17	
			Note: Task used in conjunction with "Preformed Architectural Profiles" tasks.		
09 29 10 00-0151	EA		8' Long Outside Radius For Gypsum Board.....	74.17	
			Note: Task used in conjunction with "Preformed Architectural Profiles" tasks.		
09 29 10 00-0152	EA		8' Long Circular / Arched Radius For Gypsum Board.....	74.17	
			Note: Task used in conjunction with "Preformed Architectural Profiles" tasks.		
09 29 10 00-0153			Knee Brace Kit (09 29 10 00-0148)		
09 29 10 00-0154	EA		46" H, Aluminum Extrusions, Knee Brace Kit For Gypsum Board.....	171.68	14.63
09 29 10 00-0155			Wall Bumper Rail (09 29 10 00-0148)		
09 29 10 00-0156	LF		2-1/2" x 5/8", Aluminum Extrusions, Wall Bumper Rail For Gypsum Board.....	26.54	5.86
09 29 10 00-0157			Corners For Gypsum Board (09 29 10 00-0052)		
09 29 10 00-0158	LF		1/2"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	5.79	1.41
09 29 10 00-0159	LF		5/8"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	6.19	1.53
09 29 10 00-0160	LF		3/4"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	6.80	1.59
09 29 10 00-0161	LF		1"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	7.51	1.66
09 29 10 00-0162	LF		1-1/2" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	9.11	2.03
09 29 10 00-0163	LF		2" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	10.51	2.28



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0164	LF			2-1/2" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	12.64	2.62
09 29 10 00-0165	LF			3" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	15.27	3.05
09 29 10 00-0166	LF			4" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	20.89	4.07
09 29 10 00-0167	LF			90 Degree 3/8" Aluminum Extrusions, Hi-Strength Corner For Gypsum Board.....	5.74	1.36
09 29 10 00-0168	LF			90 Degree 1-1/4" Aluminum Extrusions, Hi-Strength Corner For Gypsum Board.....	10.07	1.83
09 29 10 00-0169	LF			90 Degree 1-1/4" Aluminum Extrusions, Fabric Tuck Corner For Gypsum Board.....	7.61	1.83
09 29 10 00-0170	LF			90 Degree 1-1/4" Aluminum Extrusions, Corner With Vertical Reveal For Gypsum Board.....	12.68	1.83
09 29 10 00-0171	LF			45 Degree 2" Aluminum Extrusions, Corner For Gypsum Board.....	17.81	2.28
09 29 10 00-0172	LF			60 Degree 2" Aluminum Extrusions, Corner For Gypsum Board.....	17.16	2.28
09 29 10 00-0173	LF			3/4" Aluminum Extrusions, Chamfered Corner For Gypsum Board.....	5.82	1.59
09 29 10 00-0174	LF			5/8" R, Aluminum Extrusions, Corners Return For Gypsum Board.....	5.81	1.53
09 29 10 00-0175	LF			1/2" x 1/2" Aluminum Extrusions, Double Corner Step For Gypsum Board.....	5.76	1.41
09 29 10 00-0176	LF			5/8" x 5/8" Aluminum Extrusions, Double Corner Step For Gypsum Board.....	6.08	1.53
09 29 10 00-0177	LF			1" x 1" Aluminum Extrusions, Double Corner Step For Gypsum Board.....	7.90	1.66
09 29 10 00-0178	LF			1/2" x 1/2" Aluminum Extrusions, Triple Corner Step For Gypsum Board.....	6.91	1.41
09 29 10 00-0179	LF			5/8" x 5/8" Aluminum Extrusions, Triple Corner Step For Gypsum Board.....	7.32	1.53
09 29 10 00-0180	LF			1" x 1" Aluminum Extrusions, Triple Corner Step For Gypsum Board.....	10.33	1.66
09 29 10 00-0181	LF			1/3" x 1/2" Aluminum Extrusions, Quad Corner Step For Gypsum Board.....	11.07	1.41
09 29 10 00-0182	LF			3" Aluminum Extrusions, Bullnose For Gypsum Board.....	19.45	3.05
09 29 10 00-0183	LF			3-7/8" Aluminum Extrusions, Bullnose For Gypsum Board.....	20.64	3.05
09 29 10 00-0184	LF			5-3/8", Aluminum Extrusions, Bullnose For Gypsum Board.....	37.81	5.08
09 29 10 00-0185	LF			7-3/8", Aluminum Extrusions, Bullnose For Gypsum Board.....	61.87	7.20
09 29 10 00-0186	LF			3/4" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	6.83	1.57
09 29 10 00-0187	LF			1" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	7.69	1.64
09 29 10 00-0188	LF			1-1/2" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	9.26	2.00
09 29 10 00-0189	LF			2"R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	11.23	2.25
09 29 10 00-0190	LF			2-1/2" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	15.46	2.58
09 29 10 00-0191	LF			3"R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	16.87	3.01
09 29 10 00-0192	LF			4" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	19.58	4.00
09 29 10 00-0193	LF			3-5/8", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	12.78	3.01
09 29 10 00-0194	LF			3-7/8", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	12.92	3.01
09 29 10 00-0195	LF			4-3/4", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	13.87	3.01
09 29 10 00-0196	LF			5", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	14.17	3.01

09 29 82 Gypsum Board Fire Protection (09 29)

09 29 82 00-0001	SF			Shaft Wall (09 29 82) See CSI section 09 29 10 00-0036 for finishing drywall.		
09 29 82 00-0002	SF			3/4" Fire Rated Shaft Wall Assembly.....	7.59	2.93
				Note: 1/4" thick fiber-cement board with tapered edges over 1/2" thick type "X" gypsum board. Excludes studs or wall structure.		
				For Horizontal Installation Up To 10' High, Add	1.99	
				For Horizontal Installation >10' High, Add	2.93	
				For Walls >10' High, Add	0.47	
				For Up To 128, Add	2.69	
				For >128 To 320, Add	1.64	
				For >1,536, Deduct	-0.55	
09 29 82 00-0003	SF			7/8" Fire Rated Shaft Wall Assembly.....	8.79	3.51
				Note: 1/4" thick fiber-cement board with tapered edges over 5/8" thick type "X" gypsum board. Excludes studs or wall structure.		
				For Horizontal Installation Up To 10' High, Add	2.39	
				For Horizontal Installation >10' High, Add	3.52	
				For Walls >10' High, Add	0.56	
				For Up To 128, Add	3.16	
				For >128 To 320, Add	1.93	
				For >1,536, Deduct	-0.62	
09 29 82 00-0004	SF			2-1/2", 25 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly.....	7.03	2.26
				Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
				For Horizontal Installation Up To 10' High, Add	1.53	
				For Horizontal Installation >10' High, Add	2.26	
				For Walls >10' High, Add	0.36	
				For Up To 128, Add	2.31	
				For >128 To 320, Add	1.38	
				For Glass Mat Surfaces, Add	0.24	
09 29 82 00-0005	SF			4", 25 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly.....	7.55	2.37
				Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
				For Horizontal Installation Up To 10' High, Add	1.61	
				For Horizontal Installation >10' High, Add	2.37	
				For Walls >10' High, Add	0.38	
				For Up To 128, Add	2.46	
				For >128 To 320, Add	1.46	
				For Glass Mat Surfaces, Add	0.24	
09 29 82 00-0006	SF			2-1/2", 20 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly.....	8.33	2.37
				Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
				For Horizontal Installation Up To 10' High, Add	1.61	
				For Horizontal Installation >10' High, Add	2.37	
				For Walls >10' High, Add	0.38	
				For Up To 128, Add	2.61	
				For >128 To 320, Add	1.54	
				For Glass Mat Surfaces, Add	0.24	

09	09 Finishes
	09 20 Plaster and Gypsum Board
	09 29 Gypsum Board



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 82 00-0007 SF 4", 20 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly	8.87	2.49
Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
For Horizontal Installation Up To 10' High, Add	1.69	
For Horizontal Installation >10' High, Add	2.48	
For Walls >10' High, Add	0.40	
For Up To 128, Add	2.77	
For >128 To 320, Add	1.63	
For Glass Mat Surfaces, Add	0.24	

09 30 Tiling ⁽⁰⁹⁾

Note: All tiles are standard grade ANSI 137.1 or higher, mounted and unmounted, cushioned or non-cushioned edge, all tile colors, all grout colors, PEI rating 1 through 4, and include patterns. Glazing shall meet ASTM C484 and C424. Mounted tiles are assembled into sheets to facilitate handling and installation. Perforated paper, fiber mesh, or other suitable bonding material applied to the front, backs or edges of the tile can be used to mount the tiles. Cushioned edge tile has facial edges with a distinct curvature that results in a slightly recessed joint. All floor, wall, ceiling, cove base and trim tile will be installed in accordance with ANSI 108.1 using these setting methods. Includes initial wax and seal.

09 30 13 Ceramic Tiling ^(09 30)

Note: Includes grout and sealing. Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.

09 30 13 00-0001 Ceramic Tiling ^(09 30 13)

09 30 13 00-0002 SF 2" x 2" x 1/4" Thick, Mounted, Unpolished Ceramic Floor Tile	14.66	2.92
Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets.		
For Up To 50, Add	8.03	
For >50 To 250, Add	1.16	
For >1,000, Deduct	-0.58	
For High-Modulus, High-Strength Epoxy Grout, Add	1.14	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.28	
09 30 13 00-0003 SF Less Than 8" x 8", Mounted, Floor Tile	13.87	2.92
Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
For Up To 50, Add	7.83	
For >50 To 250, Add	1.16	
For >1,000, Deduct	-0.58	
For High-Modulus, High-Strength Epoxy Grout, Add	1.14	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.28	
09 30 13 00-0004 SF 8" x 8" And Larger Unmounted Floor Tile	15.33	1.82
Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles.		
For Up To 50, Add	9.29	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.50	
09 30 13 00-0005 SF 2" x 2" x 1/4" Thick, Mounted, Unpolished Ceramic Wall Tile	15.90	3.53
Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets.		
For Up To 50, Add	9.27	
For >50 To 250, Add	1.41	
For >1,000, Deduct	-0.71	
For High-Modulus, High-Strength Epoxy Grout, Add	1.33	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.47	
09 30 13 00-0006 SF Less than 8" x 8" Mounted Wall Tile	15.11	3.53
Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
For Up To 50, Add	9.07	
For >50 To 250, Add	1.41	
For >1,000, Deduct	-0.71	
For High-Modulus, High-Strength Epoxy Grout, Add	1.33	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.47	
09 30 13 00-0007 SF 8" x 8" And Larger Unmounted Wall Tile	16.99	2.24
Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles.		
For Up To 50, Add	10.95	
For >50 To 250, Add	1.79	
For >1,000, Deduct	-0.89	
For High-Modulus, High-Strength Epoxy Grout, Add	1.61	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.75	
09 30 13 00-0008 SF Less than 8" x 8" Mounted Ceiling Tile	20.29	6.12
Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
For High-Modulus, High-Strength Epoxy Grout, Add	2.11	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	2.25	
For Up To 50, Add	14.25	
For >50 To 250, Add	2.45	
For >1,000, Deduct	-1.22	
09 30 13 00-0009 SF 8" x 8" And Larger Unmounted Ceiling Tile	22.74	3.67
Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles.		
For High-Modulus, High-Strength Epoxy Grout, Add	2.47	
For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	2.61	
For Up To 50, Add	16.70	
For >50 To 250, Add	2.94	
For >1,000, Deduct	-1.47	



Finishes	09	09
Tiling	09 30	
Ceramic Tiling	09 30 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 13 00-0010	LF		4-1/4" To 4-1/2" High, Cove Base Or Trim..... Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	12.19 1.66 1.73	2.55
09 30 13 00-0011	LF		6" High x 12" Long, Unpolished Ceramic Cove Base (Daltile Portfolio) <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	18.00 1.66 1.73	2.55
09 30 13 00-0012	LF		6" High x 24" Long, Unpolished Ceramic Cove Base (Daltile Portfolio) <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	20.11 1.66 1.73	2.55
09 30 13 00-0013	EA		6" High, Unpolished Ceramic Cove Base Outer Corner.....	15.26	0.56
09 30 13 00-0014 Residential Ceramic Tiling (09 30 13)					
09 30 13 00-0015	SF		Mounted Floor Tile, Residential Grade Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets. <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	10.89 7.09 1.16 -0.58 1.14	2.92
09 30 13 00-0016	SF		Mounted Wall Tile, Residential Grade Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets. <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	12.13 8.33 1.41 -0.71 1.33	3.53
09 30 13 00-0017	SF		2" x 2" x 1/4" Thick, Unpolished Ceramic Mounted Floor Tile, Residential Grade Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets. <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	10.56 7.01 1.16 -0.58 1.14	2.92
09 30 16 Quarry Tiling (09 30)					
Note: Includes grout and sealing. Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.					
09 30 16 00-0001	SF		Unglazed Quarry Floor Tile..... Note: With or without embedded abrasive grit. <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	10.89 8.84 1.63 -0.82 1.49 1.63	2.05
09 30 16 00-0002	SF		Glazed Quarry Floor Tile..... <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	19.16 10.91 1.63 -0.82 1.49 1.63	2.05
09 30 16 00-0003	SF		Unglazed Quarry Wall Tile..... Note: With or without embedded abrasive grit. <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	12.52 10.47 1.96 -0.98 1.74 1.88	2.42
09 30 16 00-0004	SF		Glazed Quarry Wall Tile..... <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	20.79 12.54 1.96 -0.98 1.74 1.88	2.42
09 30 16 00-0005	LF		6" High Unglazed Quarry Tile Cove Base Or Trim..... <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	14.98 1.75 1.82	2.69
09 30 16 00-0006	LF		6" High Glazed Quarry Tile Cove Base Or Trim <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	28.53 1.75 1.82	2.69
09 30 33 Stone Tiling (09 30)					
Note: Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.					
09 30 33 00-0001 Marble Floor Tile (09 30 33)					
09 30 33 00-0002	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cherry Blossom"..... <i>For Up To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >1,000, Deduct</i> <i>For High-Modulus, High-Strength Epoxy Grout, Add</i> <i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	12.76 8.65 1.46 -0.73 1.36 1.00	1.82

09 Finishes

09 30 Tiling

09 30 33 Stone Tiling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0003	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Laurent Brown"	13.27	1.82
			<i>For Up To 50, Add</i>	8.78	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0004	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Temple Gray"	13.54	1.82
			<i>For Up To 50, Add</i>	8.85	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0005	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Cafe"	13.66	1.82
			<i>For Up To 50, Add</i>	8.88	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0006	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "China Black"	13.74	1.82
			<i>For Up To 50, Add</i>	8.90	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0007	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Sea Grass Honed"	13.86	1.82
			<i>For Up To 50, Add</i>	8.93	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0008	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Gris Magma or Gris Nebula"	14.13	1.82
			<i>For Up To 50, Add</i>	8.99	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0009	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Dark Green"	15.91	1.82
			<i>For Up To 50, Add</i>	9.44	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0010	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cappuccino Light"	16.11	1.82
			<i>For Up To 50, Add</i>	9.49	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0011	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Botticino Cream"	16.48	1.82
			<i>For Up To 50, Add</i>	9.58	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0012	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Classic"	16.89	1.82
			<i>For Up To 50, Add</i>	9.68	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0013	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Arabescato Carrara"	17.18	1.82
			<i>For Up To 50, Add</i>	9.76	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0014	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Giallo Crystal Onyx"	18.16	1.82
			<i>For Up To 50, Add</i>	10.00	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0015	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cafe Forest or Rain Forest"	20.00	1.82
			<i>For Up To 50, Add</i>	10.46	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0016	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Arabescato"	20.12	1.82
			<i>For Up To 50, Add</i>	10.49	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	



Finishes	09	09
Tiling	09 30	
Stone Tiling	09 30 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0017 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Carrara White".....	21.49	1.82
For Up To 50, Add	10.83	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0018 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Select Or Sahara Gold".....	21.96	1.82
For Up To 50, Add	10.95	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0019 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Botticino Fiorito Or Michelangelo".....	22.16	1.82
For Up To 50, Add	11.00	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0020 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Antique".....	22.47	1.82
For Up To 50, Add	11.08	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0021 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Dark Or Super Thassos Glass".....	25.01	1.82
For Up To 50, Add	11.71	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0022 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Rosa Verona".....	26.46	1.82
For Up To 50, Add	12.08	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0023 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Rojo Alicante".....	26.85	1.82
For Up To 50, Add	12.17	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0024 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Light".....	27.05	1.82
For Up To 50, Add	12.22	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0025 Granite Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0026 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Crystal Gray".....	11.39	1.82
For Up To 50, Add	8.31	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0027 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Peach Flower".....	12.37	1.82
For Up To 50, Add	8.55	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0028 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Golden Yellow".....	13.15	1.82
For Up To 50, Add	8.75	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0029 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Absolute Black".....	16.28	1.82
For Up To 50, Add	9.53	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0030 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Tan Brown".....	16.89	1.82
For Up To 50, Add	9.68	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	

09 Finishes

09 30 Tiling

09 30 33 Stone Tiling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0031	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Black Galaxy"	17.46	1.82
			<i>For Up To 50, Add</i>	9.83	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0032	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Kashmir White Or Gold"	18.05	1.82
			<i>For Up To 50, Add</i>	9.97	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0033	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Giallo Santa Cecelia"	18.75	1.82
			<i>For Up To 50, Add</i>	10.15	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0034	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Verde UbaTuba"	19.42	1.82
			<i>For Up To 50, Add</i>	10.32	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0035	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "New Venetian Gold"	20.12	1.82
			<i>For Up To 50, Add</i>	10.49	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0036	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Tropic Brown"	20.79	1.82
			<i>For Up To 50, Add</i>	10.66	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0037	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Baltic Brown Or Indian Dakota"	21.57	1.82
			<i>For Up To 50, Add</i>	10.85	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0038	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Dynamic Blue"	22.35	1.82
			<i>For Up To 50, Add</i>	11.05	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0039	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Blue Pearl Or Emerald Pearl"	25.09	1.82
			<i>For Up To 50, Add</i>	11.73	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0040			Slate Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0041	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Raja Classic"	10.22	1.82
			<i>For Up To 50, Add</i>	8.02	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0042	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Rustic Gold"	10.73	1.82
			<i>For Up To 50, Add</i>	8.14	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0043	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "California Gold Or Black Rust"	11.00	1.82
			<i>For Up To 50, Add</i>	8.21	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0044	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Indian Autumn"	11.00	1.82
			<i>For Up To 50, Add</i>	8.21	
			<i>For >50 To 250, Add</i>	1.46	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.36	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	



Finishes	09	09
Tiling	09 30	
Stone Tiling	09 30 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0045 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "China Multi, Earth, Or Autumn Blend".....	11.20	1.82
For Up To 50, Add	8.26	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0046 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "Lilac Kashmir Or Madras Yellow".....	11.78	1.82
For Up To 50, Add	8.41	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0047 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "Montauk Blue, Copper Quartzite, Montauk Black, San Rio Rustic, Or Gold Green Quartzite".....	12.37	1.82
For Up To 50, Add	8.55	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0048 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "Ocean Green Quartzite Or Golden White Quartzite".....	12.57	1.82
For Up To 50, Add	8.60	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0049 Travertine Floor Tile (09 30 33)		
09 30 33 00-0050 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Noce Rustic".....	12.37	1.82
For Up To 50, Add	8.55	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0051 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Denizli Beige Or Oasis Walnut".....	12.96	1.82
For Up To 50, Add	8.70	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0052 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Oasis Gold".....	13.35	1.82
For Up To 50, Add	8.80	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0053 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Navona Light - Ivory".....	13.94	1.82
For Up To 50, Add	8.95	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0054 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Oasis Noce".....	14.13	1.82
For Up To 50, Add	8.99	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0055 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Durango Antique".....	14.33	1.82
For Up To 50, Add	9.04	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0056 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Durango Cream".....	16.21	1.82
For Up To 50, Add	9.51	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0057 Limestone Floor Tile (09 30 33)		
09 30 33 00-0058 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Isis Gold".....	16.09	1.82
For Up To 50, Add	9.48	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0059 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Tiara Beige".....	16.68	1.82
For Up To 50, Add	9.63	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	

09	09 Finishes
	09 30 Tiling
	09 30 33 Stone Tiling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0060 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Halila Cream".....	19.73	1.82
For Up To 50, Add	10.39	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0061 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Ramon Gold".....	21.57	1.82
For Up To 50, Add	10.85	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0062 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Chestnut Brown Or Jerusalem Bone".....	21.57	1.82
For Up To 50, Add	10.85	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0063 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Lagos Blue".....	22.16	1.82
For Up To 50, Add	11.00	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0064 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Jura Gray".....	24.31	1.82
For Up To 50, Add	11.54	
For >50 To 250, Add	1.46	
For >1,000, Deduct	-0.73	
For High-Modulus, High-Strength Epoxy Grout, Add	1.36	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	

09 31 Thin-Set Tiling (09 30)

Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.

09 31 13 Thin-Set Ceramic Tiling (09 31)

09 31 13 00-0001 Thin-Set Ceramic Tiling (09 31 13)

09 31 13 00-0002 SF Thin Set - Latex Portland Cement Mortar	1.81	0.97
For Up To 50, Add	1.55	
For >50 To 250, Add	0.29	
For >1,000, Deduct	-0.15	
09 31 13 00-0003 SF Clean And Scarify Existing Tile For Installation Of New Tile Over Existing.....	0.93	
For Up To 50, Add	0.93	
For >50 To 250, Add	0.19	
For >1,000, Deduct	-0.09	

09 32 Mortar-Bed Tiling (09 30)

Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.

09 32 13 Mortar-Bed Ceramic Tiling (09 32)

09 32 13 00-0001 Mortar-Bed Ceramic Tiling (09 32 13)

09 32 13 00-0002 SF 3/4" Minimum Thickness Portland Cement Mortar Setting Bed	4.46	1.94
Note: For residential floors. Includes 15 LB felt and wire reinforcement.		
For Up To 50, Add	3.30	
For >50 To 250, Add	0.58	
For >1,000, Deduct	-0.29	
For Exterior Installation (Galvanized Reinforcement), Add	0.15	
09 32 13 00-0003 SF 1-1/4" Minimum Thickness Portland Cement Mortar Setting Bed	6.58	2.59
Note: For commercial floors. Includes 15 LB felt and wire reinforcement.		
For Up To 50, Add	4.56	
For >50 To 250, Add	0.78	
For >1,000, Deduct	-0.39	
For Exterior Installation (Galvanized Reinforcement), Add	0.15	
09 32 13 00-0004 SF 3/4" Portland Cement Plaster Scratch Coat for Walls.....	13.77	5.82
Note: Includes 15 LB felt and expanded metal lath.		
For Up To 50, Add	12.19	
For >50 To 250, Add	2.33	
For >1,000, Deduct	-1.17	
For Exterior Installation (Galvanized Reinforcement), Add	0.15	
For Installation Without Felt And Metal Lath, Deduct	-2.14	

09 34 Waterproofing-Membrane Tiling (09 30)

09 34 00 00-0001 Bonded Waterproofing System for Tiled Showers, Steam Showers, and Bathtub Surrounds (09 34)

09 34 00 00-0002 Prefabricated Assemblies For Tiled Showers (Schluter® KERDI Shower ST) (09 34 00 00-0001)

Note: For creating a watertight sloped shower assembly without a mortar bed. Includes a prefabricated polystyrene foam shower tray, 6" x 4-1/2" prefabricated polystyrene foam shower curb, waterproofing membrane for shower tray and surround, and center shower drain. Excludes tile, mortar, grout and shower accessories.



Finishes	09	
Tiling	09 30	09
Waterproofing-Membrane Tiling	09 34	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 34 00 00-0003	EA		48" x 48", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	1,178.78	
09 34 00 00-0004	EA		32" x 60", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	1,358.79	
09 34 00 00-0005	EA		72" x 72", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	2,001.82	
09 34 00 00-0006			Prefabricated Polystyrene Shower Curbs And Ramps (09 34 00 00-0001)		
			Note: Prefabricated shower curbs and ramps for tiling over. Excludes tile.		
09 34 00 00-0007	EA		15-7/8" Width, 48" Length, Prefabricated Polystyrene Shower Ramp (Schluter® SR-122).....	143.22	
09 34 00 00-0008	EA		4-1/2" Width, 6" Height, 48" Length, Prefabricated Polystyrene Shower Curb (Schluter® SC-122)	135.78	
09 34 00 00-0009			Prefabricated Polystyrene Shower Benches (09 34 00 00-0001)		
			Note: Prefabricated shower bench for tiling over. Excludes tile.		
09 34 00 00-0010	EA		16" Width, 16" Depth, 20" Height, Triangular Prefabricated Polystyrene Shower Bench (Schluter® SB41).....	285.71	
09 34 00 00-0011	EA		32" Width, 16" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB4181).....	570.10	
09 34 00 00-0012	EA		48" Width, 16" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB41122).....	702.81	
09 34 00 00-0013	EA		32" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB2981).....	513.22	
09 34 00 00-0014	EA		42" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB29107).....	570.10	
09 34 00 00-0015	EA		48" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB29122).....	608.01	
09 34 00 00-0016			Prefabricated Polystyrene Shower Tray (09 34 00 00-0001)		
			Note: Prefabricated shower tray for tiling over. Excludes tile.		
09 34 00 00-0017	EA		32" x 60", Prefabricated Polystyrene Shower Tray (Schluter® ST-81/152)	247.49	
09 34 00 00-0018	EA		48" x 48", Prefabricated Polystyrene Shower Tray (Schluter® ST-122)	247.49	
09 34 00 00-0019	EA		72" x 72", Prefabricated Polystyrene Shower Tray (Schluter® ST-183)	380.20	
09 34 00 00-0020			Waterproofing, Uncoupling And Vapor Management Membranes (Schluter® DITRA) (09 34 00 00-0001)		
09 34 00 00-0021	SF		1/8" Thick, High-Density Polyethylene Membrane With Grid Structure And Underside Anchoring Fleece, Waterproofing, Uncoupling And Vapor Management Membrane (Schluter® DITRA)	4.38	
09 34 00 00-0022	SF		5/16" Thick, High-Density Polyethylene Membrane With Grid Structure And Underside Anchoring Fleece, Waterproofing, Uncoupling And Vapor Management Membrane (Schluter® DITRA-XL).....	5.04	
09 34 00 00-0023			Bonded Waterproof Underlayment Membranes (Schluter® KERDI) (09 34 00 00-0001)		
09 34 00 00-0024	SF		0.008" Polyethylene Membrane With Polypropylene Fleece Laminated On Both Sides, Bonded Waterproof Underlayment Membrane (Schluter® KERDI 200/5M).....	3.87	
09 35			Chemical-Resistant Tiling (09 30)		
			Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.		
09 35 13			Chemical-Resistant Ceramic Tiling (09 35)		
09 35 13 00-0001			Chemical-Resistant Ceramic Tiling (09 35 13)		
09 35 13 00-0002	SF		Thin Set - Epoxy Mortar.....	5.12	1.28
			Note: Impact and chemical resistant.		
			For Up To 50, Add	2.74	
			For >50 To 250, Add	0.39	
			For >1,000, Deduct	-0.19	
09 39			Tiling Transitions (09 30)		
09 39 00 00-0001			Tile Waterproofing And Crack Prevention (09 39)		
09 39 00 00-0002	CSF		30 Mil Waterproofing And Crack Prevention Membrane; RedGard	105.29	
09 39 00 00-0003			Waterproof Strip Membranes (Schluter® KERDI) (09 39)		
09 39 00 00-0004	LF		5" Wide, 4 mil Polyethylene Waterproof Strip Membrane (Schluter® KERDI BAND).....	4.89	
09 39 00 00-0005	LF		10" Wide, 12 mil Polyethylene Waterproof Strip Membrane (Schluter® KERDI FLEX)	9.94	
09 39 00 00-0006			Coved Shaped Transition Profiles For Floor To Wall For Tile (09 39)		
09 39 00 00-0007	LF		5/16" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-AHK)	6.53	
09 39 00 00-0008	LF		3/8" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-AHK).....	6.51	
09 39 00 00-0009	LF		1/2" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-AHK).....	6.75	
09 39 00 00-0010	LF		5/16" Height, PVC Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-PHK)	6.22	
09 39 00 00-0011	LF		3/8" Height, Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-PHK).....	6.46	
09 39 00 00-0012			Coved Shaped Inside Edge Protection And Transition Profiles For Wall To Wall For Tile (09 39)		
09 39 00 00-0013	LF		9/32" x 9/32" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-EHK)	13.22	
09 39 00 00-0014	LF		11/32" x 11/32" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-EHK)	13.59	
09 39 00 00-0015	LF		7/16" x 7/16" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dilex-EHK)	14.00	

09	09 Finishes
	09 30 Tiling
	09 39 Tiling Transitions



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 39 00 00-0016	Tile Substrate (Schluter® KERDI BOARD) (09 39)		
09 39 00 00-0017	SF 1/2" Tile Substrate And Building Panel (Schluter® KERDI BOARD)	7.98	0.82
09 39 00 00-0018	SF 5/8" Tile Substrate And Building Panel (Schluter® KERDI BOARD)	8.99	0.94

09 39 00 00-0019	Floor Edge Protection And Transition Profiles For Tile (09 39)		
09 39 00 00-0020	LF 1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE)	3.51	
09 39 00 00-0021	LF 5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE)	3.61	
09 39 00 00-0022	LF 3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE)	3.72	
09 39 00 00-0023	LF 1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE)	3.89	
09 39 00 00-0024	LF 1/4" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS)	4.59	
09 39 00 00-0025	LF 5/16" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS)	4.73	
09 39 00 00-0026	LF 3/8" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS)	4.83	
09 39 00 00-0027	LF 1/2" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS)	4.94	
09 39 00 00-0028	LF 9/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-T)	3.67	
09 39 00 00-0029	LF 1" Height, Aluminum Transition Trim For Tile (Schluter® RENO-T)	4.94	
09 39 00 00-0030	LF 1/4" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK)	4.61	
09 39 00 00-0031	LF 5/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK)	4.84	
09 39 00 00-0032	LF 3/8" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK)	5.06	
09 39 00 00-0033	LF 1/2" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK)	6.07	
09 39 00 00-0034	LF 5/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U)	4.76	
09 39 00 00-0035	LF 3/8" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U)	4.99	
09 39 00 00-0036	LF 1/2" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U)	6.00	

09 39 00 00-0037	Outside Wall Edge Protection And Transition Profiles For Tile (09 39)		
09 39 00 00-0038	LF 1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC)	4.74	
09 39 00 00-0039	LF 5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC)	4.98	
09 39 00 00-0040	LF 3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC)	5.33	
09 39 00 00-0041	LF 1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC)	5.68	
09 39 00 00-0042	LF 1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC)	5.22	
09 39 00 00-0043	LF 5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC)	5.67	
09 39 00 00-0044	LF 3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC)	6.12	
09 39 00 00-0045	LF 1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC)	6.90	

09 50 Ceilings (09)

Note: Includes cutting for area around columns, speakers, sprinklers, diffusers, etc.

09 51 Acoustical Ceilings (09 50)

Note: Excludes suspension system. See CSI section 09 53 00 00-0000 for suspension systems.

09 51 13 Acoustical Panel Ceilings (09 51)

Note: Includes cutting around sprinkler heads, speakers, or other penetrations through the ceiling.

09 51 13 00-0001 Fiberglass Panels (09 51 13)

09 51 13 00-0002 Fiberglass Acoustical Panels (09 51 13 00-0001)

09 51 13 00-0003	SF 2' x 2' x 3/4" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3150)	6.31	0.47
	For Up To 50, Add	1.55	
	For >50 To 200, Add	0.94	
	For >200 To 500, Add	0.39	
	For >2,500 To 4,000, Deduct	-0.13	
	For >4,000 To 5,000, Deduct	-0.22	
	For >5,000, Deduct	-0.34	
	For Individual Room Quantities <495, Add	0.94	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.11	
09 51 13 00-0004	SF 2' x 4' x 3/4" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3151)	6.52	0.47
	For Up To 50, Add	1.59	
	For >50 To 200, Add	0.96	
	For >200 To 500, Add	0.40	
	For >2,500 To 4,000, Deduct	-0.14	
	For >4,000 To 5,000, Deduct	-0.23	
	For >5,000, Deduct	-0.35	
	For Individual Room Quantities <495, Add	0.96	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.11	
09 51 13 00-0005	SF 2' x 2' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3152)	7.05	0.58
	For Up To 50, Add	1.71	
	For >50 To 200, Add	1.03	
	For >200 To 500, Add	0.43	
	For >2,500 To 4,000, Deduct	-0.15	
	For >4,000 To 5,000, Deduct	-0.24	
	For >5,000, Deduct	-0.38	
	For Individual Room Quantities <495, Add	1.03	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0006 SF 2' x 4' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3153)	7.00	0.58
For Up To 50, Add	1.71	
For >50 To 200, Add	1.03	
For >200 To 500, Add	0.43	
For >2,500 To 4,000, Deduct	-0.15	
For >4,000 To 5,000, Deduct	-0.24	
For >5,000, Deduct	-0.38	
For Individual Room Quantities <495, Add	1.03	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.12	
09 51 13 00-0007 SF 2' x 2' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™ 8372)	11.06	0.58
For Up To 50, Add	2.32	
For >50 To 200, Add	1.43	
For >200 To 500, Add	0.64	
For >2,500 To 4,000, Deduct	-0.23	
For >4,000 To 5,000, Deduct	-0.36	
For >5,000, Deduct	-0.54	
For Individual Room Quantities <495, Add	1.43	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.12	
09 51 13 00-0008 SF 2' x 4' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™ 8373)	11.06	0.58
For Up To 50, Add	2.32	
For >50 To 200, Add	1.43	
For >200 To 500, Add	0.64	
For >2,500 To 4,000, Deduct	-0.23	
For >4,000 To 5,000, Deduct	-0.36	
For >5,000, Deduct	-0.54	
For Individual Room Quantities <495, Add	1.43	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.12	
09 51 13 00-0009 Mineral Fiber Panels (09 51 13)		
09 51 13 00-0010 Mineral Fiber Acoustical Ceiling Panels (09 51 13 00-0009)		
Note: Includes square or tegular edge and class A fire rating.		
09 51 13 00-0011 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured)	2.65	0.47
For Up To 50, Add	1.01	
For >50 To 200, Add	0.57	
For >200 To 500, Add	0.21	
For >2,500 To 4,000, Deduct	-0.06	
For >4,000 To 5,000, Deduct	-0.11	
For >5,000, Deduct	-0.20	
For Individual Room Quantities <495, Add	0.57	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0012 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured)	2.47	0.47
For Up To 50, Add	0.98	
For >50 To 200, Add	0.55	
For >200 To 500, Add	0.20	
For >2,500 To 4,000, Deduct	-0.06	
For >4,000 To 5,000, Deduct	-0.10	
For >5,000, Deduct	-0.19	
For Individual Room Quantities <495, Add	0.55	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0013 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™)	2.93	0.47
For Up To 50, Add	1.05	
For >50 To 200, Add	0.60	
For >200 To 500, Add	0.22	
For >2,500 To 4,000, Deduct	-0.07	
For >4,000 To 5,000, Deduct	-0.12	
For >5,000, Deduct	-0.21	
For Individual Room Quantities <495, Add	0.60	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0014 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™)	2.84	0.47
For Up To 50, Add	1.03	
For >50 To 200, Add	0.59	
For >200 To 500, Add	0.22	
For >2,500 To 4,000, Deduct	-0.06	
For >4,000 To 5,000, Deduct	-0.12	
For >5,000, Deduct	-0.20	
For Individual Room Quantities <495, Add	0.59	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	

09 Finishes

09 50 Ceilings

09 51 Acoustical Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0015	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....	4.24	0.47
			For Up To 50, Add	1.24	
			For >50 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.16	
			For >5,000, Deduct	-0.26	
			For Individual Room Quantities <495, Add	0.73	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0016	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....	3.42	0.47
			For Up To 50, Add	1.12	
			For >50 To 200, Add	0.65	
			For >200 To 500, Add	0.25	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.23	
			For Individual Room Quantities <495, Add	0.65	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0017	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.64	0.47
			For Up To 50, Add	1.15	
			For >50 To 200, Add	0.67	
			For >200 To 500, Add	0.26	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.24	
			For Individual Room Quantities <495, Add	0.67	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0018	SF		2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.26	0.47
			For Up To 50, Add	1.10	
			For >50 To 200, Add	0.63	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.22	
			For Individual Room Quantities <495, Add	0.63	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0019	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®)	4.60	0.47
			For Up To 50, Add	1.30	
			For >50 To 200, Add	0.76	
			For >200 To 500, Add	0.31	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.17	
			For >5,000, Deduct	-0.28	
			For Individual Room Quantities <495, Add	0.76	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0020	SF		2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®)	4.59	0.47
			For Up To 50, Add	1.30	
			For >50 To 200, Add	0.76	
			For >200 To 500, Add	0.31	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.17	
			For >5,000, Deduct	-0.27	
			For Individual Room Quantities <495, Add	0.76	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0021	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™/High Washability)	6.06	0.47
			For Up To 50, Add	1.52	
			For >50 To 200, Add	0.91	
			For >200 To 500, Add	0.38	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.33	
			For Individual Room Quantities <495, Add	0.91	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0022 SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™/High Washability).....	6.62	0.47
For Up To 50, Add	1.60	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.41	
For >2,500 To 4,000, Deduct	-0.14	
For >4,000 To 5,000, Deduct	-0.23	
For >5,000, Deduct	-0.36	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0023 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL Perforated).....	5.81	0.47
For Up To 50, Add	1.48	
For >50 To 200, Add	0.89	
For >200 To 500, Add	0.37	
For >2,500 To 4,000, Deduct	-0.12	
For >4,000 To 5,000, Deduct	-0.20	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.89	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0024 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL Perforated).....	5.78	0.47
For Up To 50, Add	1.48	
For >50 To 200, Add	0.88	
For >200 To 500, Add	0.37	
For >2,500 To 4,000, Deduct	-0.12	
For >4,000 To 5,000, Deduct	-0.20	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.88	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0025 SF 20" x 60" x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™2617).....	2.92	0.47
For Ceilings >10' High, Add	0.11	
09 51 13 00-0026 SF 20" x 60" x 5/8" Thick, Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™2627).....	3.21	0.47
For Ceilings >10' High, Add	0.11	
09 51 13 00-0027 Wood Fiber Panels (09 51 13)		
09 51 13 00-0028 SF 2' x 2' x 1/2" Wood Fiber Acoustical Ceiling Panels.....	4.81	0.70
For Up To 50, Add	1.56	
For >50 To 200, Add	0.90	
For >200 To 500, Add	0.35	
For >2,500 To 4,000, Deduct	-0.11	
For >4,000 To 5,000, Deduct	-0.19	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.90	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.16	
09 51 13 00-0029 SF 2' x 4' x 1/2" Wood Fiber Acoustical Ceiling Panels.....	4.59	0.70
For Up To 50, Add	1.44	
For >50 To 200, Add	0.83	
For >200 To 500, Add	0.32	
For >2,500 To 4,000, Deduct	-0.10	
For >4,000 To 5,000, Deduct	-0.18	
For >5,000, Deduct	-0.30	
For Individual Room Quantities <495, Add	0.83	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.14	
09 51 13 00-0030 SF 2' x 2' x 5/8" Wood Fiber Acoustical Ceiling Panels.....	6.02	0.70
For Up To 50, Add	1.74	
For >50 To 200, Add	1.02	
For >200 To 500, Add	0.41	
For >2,500 To 4,000, Deduct	-0.13	
For >4,000 To 5,000, Deduct	-0.22	
For >5,000, Deduct	-0.37	
For Individual Room Quantities <495, Add	1.02	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.16	
09 51 13 00-0031 SF 2' x 4' x 5/8" Wood Fiber Acoustical Ceiling Panels.....	5.80	0.70
For Up To 50, Add	1.62	
For >50 To 200, Add	0.95	
For >200 To 500, Add	0.38	
For >2,500 To 4,000, Deduct	-0.13	
For >4,000 To 5,000, Deduct	-0.21	
For >5,000, Deduct	-0.34	
For Individual Room Quantities <495, Add	0.95	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.14	

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0032	SF		2' x 2' x 3/4" Wood Fiber Acoustical Ceiling Panels	7.19	0.70
			For Up To 50, Add	1.91	
			For >50 To 200, Add	1.14	
			For >200 To 500, Add	0.46	
			For >2,500 To 4,000, Deduct	-0.15	
			For >4,000 To 5,000, Deduct	-0.26	
			For >5,000, Deduct	-0.41	
			For Individual Room Quantities <495, Add	1.14	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.16	
09 51 13 00-0033	SF		2' x 4' x 3/4" Wood Fiber Acoustical Ceiling Panels	6.97	0.70
			For Up To 50, Add	1.79	
			For >50 To 200, Add	1.07	
			For >200 To 500, Add	0.44	
			For >2,500 To 4,000, Deduct	-0.15	
			For >4,000 To 5,000, Deduct	-0.25	
			For >5,000, Deduct	-0.39	
			For Individual Room Quantities <495, Add	1.07	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.14	
09 51 13 00-0034	SF		2' x 2' x 1" Wood Fiber Acoustical Ceiling Panels	5.52	0.70
			For Up To 50, Add	1.66	
			For >50 To 200, Add	0.97	
			For >200 To 500, Add	0.38	
			For >2,500 To 4,000, Deduct	-0.12	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.35	
			For Individual Room Quantities <495, Add	0.97	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.16	
09 51 13 00-0035	SF		2' x 4' x 1" Wood Fiber Acoustical Ceiling Panels	5.30	0.70
			For Up To 50, Add	1.54	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.36	
			For >2,500 To 4,000, Deduct	-0.12	
			For >4,000 To 5,000, Deduct	-0.20	
			For >5,000, Deduct	-0.32	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.14	
09 51 13 00-0036			Removal And Reinstallation Of Acoustical Ceiling Panels (09 51 13)		
			Note: 2'x2' Or 2'x4'. Includes storage and cleaning.		
09 51 13 00-0037	SF		Removal And Reinstallation Of Acoustical Panels Only.....	2.40	
			For Up To 50, Add	1.32	
			For >50 To 200, Add	0.72	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.06	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.24	
			For Ceilings >10' High, Add	0.18	
09 51 23			Acoustical Tile Ceilings (09 51)		
			Note: Includes fastening with staples and/or adhesive.		
09 51 23 00-0001			Mineral Fiber Acoustical Tile Ceilings (09 51 23)		
09 51 23 00-0002	SF		12" x 12" x 1/2" Tongue And Groove Mineral Fiber Acoustical Ceiling Tile.....	5.52	1.29
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	2.00	
			For >50 To 200, Add	1.14	
			For >200 To 500, Add	0.42	
			For >2,500, Deduct	-0.28	
			For Ceilings >10' High, Add	0.22	
09 51 23 00-0003	SF		12" x 12" x 5/8" Spline Mineral Fiber Acoustical Ceiling Tile.....	6.48	1.29
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	2.14	
			For >50 To 200, Add	1.23	
			For >200 To 500, Add	0.47	
			For >2,500, Deduct	-0.32	
			For Placing Tiles In Suspended Ceiling System, Deduct	-0.40	
			For Ceilings >10' High, Add	0.22	
09 51 23 00-0004	SF		12" x 12" x 3/4" Spline Mineral Fiber Acoustical Ceiling Tile.....	7.26	1.29
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	2.26	
			For >50 To 200, Add	1.31	
			For >200 To 500, Add	0.51	
			For >2,500, Deduct	-0.36	
			For Placing Tiles In Suspended Ceiling System, Deduct	-0.40	
			For Ceilings >10' High, Add	0.22	
09 51 23 00-0005			Wood Fiber Acoustical Tile Ceilings (09 51 23)		



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 23 00-0006 SF 12" x 12" x 1/2" Staple Flange Wood Fiber Acoustical Ceiling Tile.....	5.11	1.29
<i>For Furring 1 x 3 Strips 12" On Center, Add</i>	<i>0.50</i>	
<i>For Up To 50, Add</i>	<i>1.94</i>	
<i>For >50 To 200, Add</i>	<i>1.10</i>	
<i>For >200 To 500, Add</i>	<i>0.40</i>	
<i>For >2,500, Deduct</i>	<i>-0.26</i>	
<i>For Ceilings >10' High, Add</i>	<i>0.22</i>	
 09 51 33 Acoustical Metal Pan Ceilings (09 51)		
09 51 33 13 Acoustical Snap-in Metal Pan Ceilings (09 51 33)		
09 51 33 13-0001 Galvanized Steel, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)		
09 51 33 13-0002 SF 24" x 24", Unperforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....	19.05	1.03
09 51 33 13-0003 SF 24" x 24", Perforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....	20.37	1.03
 09 51 33 13-0004 Aluminum, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)		
09 51 33 13-0005 SF 24" x 24", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	14.30	1.17
09 51 33 13-0006 SF 24" x 24", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.07	1.17
09 51 33 13-0007 SF 24" x 24", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	46.85	1.17
09 51 33 13-0008 SF 24" x 24", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.36	1.17
09 51 33 13-0009 SF 24" x 24", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	15.08	1.17
09 51 33 13-0010 SF 24" x 24", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	23.46	1.17
09 51 33 13-0011 SF 24" x 24", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	46.50	1.17
09 51 33 13-0012 SF 24" x 24", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.19	1.17
09 51 33 13-0013 SF 30" x 30", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	19.36	1.17
09 51 33 13-0014 SF 30" x 30", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.38	1.17
09 51 33 13-0015 SF 30" x 30", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	51.64	1.17
09 51 33 13-0016 SF 30" x 30", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.12	1.17
09 51 33 13-0017 SF 30" x 30", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	20.49	1.17
09 51 33 13-0018 SF 30" x 30", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.99	1.17
09 51 33 13-0019 SF 30" x 30", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	53.39	1.17
09 51 33 13-0020 SF 30" x 30", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.73	1.17
09 51 33 13-0021 SF 12" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	17.52	1.17
09 51 33 13-0022 SF 12" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	28.52	1.17
09 51 33 13-0023 SF 12" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	50.51	1.17
09 51 33 13-0024 SF 12" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.51	1.17
09 51 33 13-0025 SF 12" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	18.83	1.17
09 51 33 13-0026 SF 12" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	28.87	1.17
09 51 33 13-0027 SF 12" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	52.34	1.17
09 51 33 13-0028 SF 12" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.29	1.17
09 51 33 13-0029 SF 24" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	13.93	1.17
09 51 33 13-0030 SF 24" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.26	1.17
09 51 33 13-0031 SF 24" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	43.95	1.17
09 51 33 13-0032 SF 24" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	20.21	1.17
09 51 33 13-0033 SF 24" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	14.80	1.17
09 51 33 13-0034 SF 24" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.08	1.17
09 51 33 13-0035 SF 24" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	44.04	1.17

09	09 Finishes
	09 50 Ceilings
	09 51 Acoustical Ceilings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 51 33 13-0036 SF 24" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	20.21	1.17
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09 51 33 23 Acoustical Lay-in Metal Pan Ceilings (09 51 33)

09 51 33 23-0001 Acoustical Lay-In Metal Pan Ceilings (09 51 33 23)		
09 51 33 23-0002 Aluminum, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)		
09 51 33 23-0003 SF 24" x 24", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	14.85	0.88
For Walls >10' High, Add	2.97	
09 51 33 23-0004 SF 24" x 24", Unperforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	16.81	0.88
For Walls >10' High, Add	3.36	
09 51 33 23-0005 SF 24" x 24", Unperforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	24.67	0.88
For Walls >10' High, Add	4.93	
09 51 33 23-0006 SF 24" x 24", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	20.96	0.88
For Walls >10' High, Add	4.19	
09 51 33 23-0007 SF 24" x 24", Perforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	22.49	0.88
For Walls >10' High, Add	4.50	
09 51 33 23-0008 SF 24" x 24", Perforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	35.36	0.88
For Walls >10' High, Add	7.07	
09 51 33 23-0009 SF 30" x 30", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	22.15	0.88
For Walls >10' High, Add	4.43	
09 51 33 23-0010 SF 30" x 30", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.45	0.88
For Walls >10' High, Add	5.49	
09 51 33 23-0011 SF 48" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	22.27	0.88
For Walls >10' High, Add	4.45	
09 51 33 23-0012 SF 48" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.61	0.88
For Walls >10' High, Add	5.52	
09 51 33 23-0013 SF 12" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	22.38	0.88
For Walls >10' High, Add	4.48	
09 51 33 23-0014 SF 12" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.50	0.88
For Walls >10' High, Add	5.50	
09 51 33 23-0015 SF 24" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	22.38	0.88
For Walls >10' High, Add	4.48	
09 51 33 23-0016 SF 24" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.72	0.88
For Walls >10' High, Add	5.54	

09 51 33 23-0017 Steel, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0018 SF 24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	19.14	0.88
For Walls >10' High, Add	3.83	
09 51 33 23-0019 SF 24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	22.81	0.88
For Walls >10' High, Add	4.56	
09 51 33 23-0020 SF 24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	24.47	0.88
For Walls >10' High, Add	4.89	
09 51 33 23-0021 SF 24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	22.98	0.88
For Walls >10' High, Add	4.60	
09 51 33 23-0022 SF 24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	23.59	0.88
For Walls >10' High, Add	4.72	
09 51 33 23-0023 SF 24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	24.99	0.88
For Walls >10' High, Add	5.00	

09 51 33 33 Acoustical Tegular Lay-in Metal Pan Ceilings (09 51 33)

09 51 33 33-0001 Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33)		
09 51 33 33-0002 Steel, Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33-0001)		
09 51 33 33-0003 SF 24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	13.99	0.88
09 51 33 33-0004 SF 24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	15.74	0.88
09 51 33 33-0005 SF 24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	22.20	0.88
09 51 33 33-0006 SF 24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	15.91	0.88
09 51 33 33-0007 SF 24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	18.01	0.88
09 51 33 33-0008 SF 24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.20	0.88

09 53 Acoustical Ceiling Suspension Assemblies (09 50)

09 53 23 Metal Acoustical Ceiling Suspension Assemblies (09 53)



Finishes	09	09
Ceilings	09 50	
Acoustical Ceiling Suspension Assemblies	09 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0001 Ceiling Suspension Systems <small>(09 53 23)</small>		
<p>Note: Hot-dipped galvanized steel. Includes single 8 gauge wire hangers (between 3' To 4') attached from wood deck or wood members above to main members 4' on center. Includes all main tees, cross tees, wall angle, wall anchors, connector clips, hold down clips, double faced tape (where required). All above shall be mechanically installed by minimum 2-1/4" x 3/8" wedge anchors. Excludes chain supports for lights.</p>		
09 53 23 00-0002 SF 1' x 1' Grid, Concealed, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System	4.12	0.58
<p>Note: Excludes ceiling tile.</p> <p><i>For Fastening To Concrete, Add</i> 1.36</p> <p><i>For Fastening To Steel, Add</i> 1.51</p> <p><i>For Vertical Application, Add</i> 2.22</p> <p><i>For Individual Room Quantities <495, Add</i> 0.46</p> <p>Note: For use with projects >500 SF</p> <p><i>For Up To 50, Add</i> 1.63</p> <p><i>For >50 To 200, Add</i> 0.92</p> <p><i>For >200 To 500, Add</i> 0.33</p> <p><i>For >2,500 To 4,000, Deduct</i> -0.10</p> <p><i>For >4,000 To 5,000, Deduct</i> -0.17</p> <p><i>For >5,000, Deduct</i> -0.25</p> <p><i>For Ceilings >10' High, Add</i> 0.19</p>		
09 53 23 00-0003 SF 1' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	3.32	0.58
<p><i>For UL Listed (Fire Guard), Add</i> 0.18</p> <p><i>For 1-1/2" Wide Faced Grid, Add</i> 0.33</p> <p><i>For Fastening To Concrete, Add</i> 1.32</p> <p><i>For Fastening To Steel, Add</i> 1.47</p> <p><i>For Vertical Application, Add</i> 1.86</p> <p><i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i> 2.50</p> <p><i>For Individual Room Quantities <495, Add</i> 0.38</p> <p>Note: For use with projects >500 SF</p> <p><i>For Aluminum T-Bar System, Add</i> 0.54</p> <p><i>For Up To 50, Add</i> 1.35</p> <p><i>For >50 To 200, Add</i> 0.76</p> <p><i>For >200 To 500, Add</i> 0.27</p> <p><i>For >2,500 To 4,000, Deduct</i> -0.08</p> <p><i>For >4,000 To 5,000, Deduct</i> -0.14</p> <p><i>For >5,000, Deduct</i> -0.21</p> <p><i>For Ceilings >10' High, Add</i> 0.16</p>		
09 53 23 00-0004 SF 2' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.79	0.58
<p><i>For UL Listed (Fire Guard), Add</i> 0.13</p> <p><i>For 1-1/2" Wide Faced Grid, Add</i> 0.24</p> <p><i>For Fastening To Concrete, Add</i> 1.31</p> <p><i>For Fastening To Steel, Add</i> 1.46</p> <p><i>For Vertical Application, Add</i> 1.71</p> <p><i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i> 2.50</p> <p><i>For Individual Room Quantities <495, Add</i> 0.33</p> <p>Note: For use with projects >500 SF</p> <p><i>For Aluminum T-Bar System, Add</i> 0.38</p> <p><i>For Up To 50, Add</i> 1.20</p> <p><i>For >50 To 200, Add</i> 0.67</p> <p><i>For >200 To 500, Add</i> 0.24</p> <p><i>For >2,500 To 4,000, Deduct</i> -0.07</p> <p><i>For >4,000 To 5,000, Deduct</i> -0.12</p> <p><i>For >5,000, Deduct</i> -0.18</p> <p><i>For Black Grid, Add</i> 0.11</p> <p><i>For Ceilings >10' High, Add</i> 0.15</p> <p><i>For Concealed Spline Grid, Add</i> 0.41</p>		
09 53 23 00-0005 SF 2' x 4' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.30	0.58
<p><i>For UL Listed (Fire Guard), Add</i> 0.10</p> <p><i>For 1-1/2" Wide Faced Grid, Add</i> 0.18</p> <p><i>For Fastening To Concrete, Add</i> 1.27</p> <p><i>For Fastening To Steel, Add</i> 1.42</p> <p><i>For Vertical Application, Add</i> 1.64</p> <p><i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i> 2.50</p> <p><i>For Individual Room Quantities <495, Add</i> 0.28</p> <p>Note: For use with projects >500 SF</p> <p><i>For Aluminum T-Bar System, Add</i> 0.30</p> <p><i>For Up To 50, Add</i> 1.00</p> <p><i>For >50 To 200, Add</i> 0.56</p> <p><i>For >200 To 500, Add</i> 0.20</p> <p><i>For >2,500 To 4,000, Deduct</i> -0.05</p> <p><i>For >4,000 To 5,000, Deduct</i> -0.10</p> <p><i>For >5,000, Deduct</i> -0.15</p> <p><i>For Black Grid, Add</i> 0.08</p> <p><i>For Ceilings >10' High, Add</i> 0.12</p> <p><i>For Concealed Spline Grid, Add</i> 0.33</p>		

09 Finishes

09 50 Ceilings

09 53 Acoustical Ceiling Suspension Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0006	SF		1'-8" To 2' x 5' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System	2.01	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.09	
			<i>For 1-1/2" Wide Faced Grid, Add</i>	0.17	
			<i>For Fastening To Concrete, Add</i>	1.25	
			<i>For Fastening To Steel, Add</i>	1.40	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.24	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Aluminum T-Bar System, Add</i>	0.27	
			<i>For Up To 50, Add</i>	0.87	
			<i>For >50 To 200, Add</i>	0.48	
			<i>For >200 To 500, Add</i>	0.17	
			<i>For >2,500 To 4,000, Deduct</i>	-0.05	
			<i>For >4,000 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000, Deduct</i>	-0.13	
			<i>For Ceilings >10' High, Add</i>	0.11	
09 53 23 00-0007	SF		2' x 2' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	2.96	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.15	
			<i>For Fastening To Concrete, Add</i>	1.31	
			<i>For Fastening To Steel, Add</i>	1.46	
			<i>For Vertical Application, Add</i>	1.71	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.34	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Up To 50, Add</i>	1.22	
			<i>For >50 To 200, Add</i>	0.69	
			<i>For >200 To 500, Add</i>	0.25	
			<i>For >2,500 To 4,000, Deduct</i>	-0.07	
			<i>For >4,000 To 5,000, Deduct</i>	-0.13	
			<i>For >5,000, Deduct</i>	-0.19	
			<i>For Black Grid, Add</i>	0.13	
			<i>For Ceilings >10' High, Add</i>	0.15	
09 53 23 00-0008	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	2.43	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.12	
			<i>For Fastening To Concrete, Add</i>	1.27	
			<i>For Fastening To Steel, Add</i>	1.42	
			<i>For Vertical Application, Add</i>	1.64	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.29	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Up To 50, Add</i>	1.02	
			<i>For >50 To 200, Add</i>	0.57	
			<i>For >200 To 500, Add</i>	0.20	
			<i>For >2,500 To 4,000, Deduct</i>	-0.06	
			<i>For >4,000 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000, Deduct</i>	-0.15	
			<i>For Black Grid, Add</i>	0.10	
			<i>For Ceilings >10' High, Add</i>	0.12	
09 53 23 00-0009			Ceiling Suspension System Accessories (09 53 23)		
09 53 23 00-0010	LF		Pencil Rod Support For Suspended Ceiling with Accessories	1.34	
09 53 23 00-0011	LF		1" x 1/8" Flat Bar Bracing For Suspended Ceiling.....	3.43	1.64
			<i>For 304 Stainless Steel, Add</i>	2.76	
			<i>For 316 Stainless Steel, Add</i>	3.10	
			<i>For Aluminum, Add</i>	0.17	
			<i>For Galvanized Steel, Add</i>	0.60	
09 53 23 00-0012	LF		1" x 3/16" Flat Bar Bracing For Suspended Ceiling.....	4.90	1.76
			<i>For 304 Stainless Steel, Add</i>	4.22	
			<i>For 316 Stainless Steel, Add</i>	4.74	
			<i>For Aluminum, Add</i>	0.27	
			<i>For Galvanized Steel, Add</i>	0.92	
09 53 23 00-0013	LF		1-1/2" x 1/4" Flat Bar Bracing For Suspended Ceiling	6.82	1.87
			<i>For 304 Stainless Steel, Add</i>	8.44	
			<i>For 316 Stainless Steel, Add</i>	9.47	
			<i>For Aluminum, Add</i>	0.53	
			<i>For Galvanized Steel, Add</i>	1.84	
09 53 23 00-0014	EA		2', Exposed 15/16" Hot-dipped Galvanized Steel, Suspended Ceiling Cross Tee	6.90	0.34
			<i>Note: Can be used to convert an existing 2' x 4' suspension system to a 2' x 2' system or to replace an individual component.</i>		
09 53 23 00-0015	EA		Lateral Support For Suspended Ceiling Channel, Installed 12'-0" On Center Maximum	29.85	8.78
			<i>Note: Includes vertical center strut and four 12 gauge diagonal wires.</i>		
09 53 23 00-0016	EA		Up To 30" Compression Posts, Telescopic, With Splay Wires, Attached To Structure	73.69	23.80
09 53 23 00-0017	EA		>30" To 48" Compression Posts, Telescopic, With Splay Wires, Attached To Structure	76.28	24.26
09 53 23 00-0018	EA		>48" To 84" Compression Posts, Telescopic, With Splay Wires, Attached To Structure	84.97	24.26
09 53 23 00-0019			Removal And Reinstallation Of Acoustical Ceiling Suspension Assembly (09 53		
			²³⁾ <i>Note: 2'x2' Or 2'x4'. Includes storage and cleaning.</i>		



Finishes	09	09
Ceilings	09 50	
Acoustical Ceiling Suspension Assemblies	09 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0020	SF		Removal And Reinstallation Of Acoustical Ceiling Tile And Grid, 2' x 2' Or 2' x 4' 3.23 Note: Suspension system tie wire, wall angles and bracing to remain in place.		
			<i>For Up To 50, Add</i>	1.78	
			<i>For >50 To 200, Add</i>	0.97	
			<i>For >200 To 500, Add</i>	0.32	
			<i>For >2,500 To 4,000, Deduct</i>	-0.08	
			<i>For >4,000 To 5,000, Deduct</i>	-0.16	
			<i>For >5,000, Deduct</i>	-0.24	
			<i>For Ceilings >10' High, Add</i>	0.24	
09 53 23 00-0021	SF		Removal And Reinstallation Of Grid System Only 1.41 Note: Suspension system tie wire, wall angles and bracing to remain in place.		
			<i>For Up To 50, Add</i>	0.78	
			<i>For >50 To 200, Add</i>	0.42	
			<i>For >200 To 500, Add</i>	0.14	
			<i>For >2,500 To 4,000, Deduct</i>	-0.04	
			<i>For >4,000 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000, Deduct</i>	-0.11	
			<i>For Ceilings >10' High, Add</i>	0.11	
09 54 Specialty Ceilings (09 50)					
09 54 16 Luminous Ceilings (09 54)					
09 54 16 00-0001 Translucent Ceiling Panels (09 54 16)					
09 54 16 00-0002	SF		2' x 2' x 0.013" Thick, Rigid Vinyl Plastic, Translucent Ceiling Panel 3.37 <i>For Ceilings >10' High, Add</i> <i>For >100 To 200, Deduct</i> <i>For >200 To 300, Deduct</i> <i>For >300, Deduct</i>		0.58
				0.10	
				-0.14	
				-0.37	
				-0.64	
09 54 23 Linear Metal Ceilings (09 54)					
09 54 23 00-0001 Linear Ceiling Systems (09 54 23)					
09 54 23 00-0002 0.032" Aluminum, Linear Ceiling Systems (09 54 23 00-0001)					
Note: For flat ceilings. Includes round or box style panels with KYNAR 5000® or HYLAR 5000® PVDF finish. Includes ceiling suspension system and flush or recessed filler strips.					
09 54 23 00-0003	SF		4" Panel Width, 0.032" Aluminum, Linear Ceiling System 19.59 <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i> <i>For Linear Ceiling Systems Without Filler Strips, Deduct</i> <i>For Curved Ceilings, Add</i>		2.52
				5.36	
				3.17	
				1.28	
				-0.98	
				0.45	
				-3.36	
				1.43	
09 54 23 00-0004	SF		8" Panel Width, 0.032" Aluminum, Linear Ceiling System 15.99 <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i> <i>For Linear Ceiling Systems Without Filler Strips, Deduct</i> <i>For Curved Ceilings, Add</i>		2.52
				4.77	
				2.78	
				1.10	
				-0.80	
				0.44	
				-1.68	
				1.41	
09 54 23 00-0005	SF		12" Panel Width, 0.032" Aluminum, Linear Ceiling System 14.58 <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i> <i>For Linear Ceiling Systems Without Filler Strips, Deduct</i> <i>For Curved Ceilings, Add</i>		2.52
				4.51	
				2.62	
				1.02	
				-0.73	
				0.44	
				-1.12	
				1.38	
09 54 23 00-0006 Tin Ceilings (09 54 23)					
09 54 23 00-0007	SF		2' x 2' Tin Ceiling Embossed Panels 19.47 <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i>		3.91
				4.80	
				2.89	
				1.21	
				-0.97	
				0.35	
09 54 23 00-0008	SF		12" x 12" Tin Ceiling Embossed Plates 28.51 <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i>		2.52
				6.26	
				3.85	
				1.67	
				-1.43	
				0.37	
09 54 23 00-0009	SF		12" x 24" Tin Ceiling Embossed Plates 21.02 <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i>		2.52
				5.14	
				3.10	
				1.30	
				-1.05	
				0.37	

09	09 Finishes
	09 50 Ceilings
	09 54 Specialty Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 54	23 00-0010	SF	24" x 24" Tin Ceiling Embossed Plates.....	19.30	2.52
			<i>For Up To 50, Add</i>	4.73	
			<i>For >50 To 200, Add</i>	2.85	
			<i>For >200 To 500, Add</i>	1.19	
			<i>For >2,500, Deduct</i>	-0.97	
			<i>For Ceilings >10' High, Add</i>	0.34	
09 54	23 00-0011	SF	24" x 48" Tin Ceiling Embossed Plates.....	16.85	1.89
			<i>For Up To 50, Add</i>	4.13	
			<i>For >50 To 200, Add</i>	2.49	
			<i>For >200 To 500, Add</i>	1.04	
			<i>For >2,500, Deduct</i>	-0.84	
			<i>For Ceilings >10' High, Add</i>	0.30	
09 54	23 00-0012	LF	3" Or 4" Wide Embossed Molding.....	13.86	3.79
			<i>For Ceilings >10' High, Add</i>	0.55	
09 54	23 00-0013	LF	6" Wide Embossed Molding.....	17.20	4.41
			<i>For Ceilings >10' High, Add</i>	0.62	
09 54	23 00-0014	LF	12" Wide Embossed Molding.....	22.95	5.17
			<i>For Ceilings >10' High, Add</i>	0.77	
09 54	23 00-0015	EA	3", 4" Or 6" Wide Embossed Cross, Tee Or Ell.....	40.50	11.97
			<i>For Ceilings >10' High, Add</i>	1.75	
09 54	23 00-0016	EA	12" Wide Embossed Cross, Tee Or Ell.....	55.47	14.00
			<i>For Ceilings >10' High, Add</i>	2.11	

09 57 Special Function Ceilings (09 50)

09 57 63 High Impact Ceilings (09 57)

09 57 63 00-0001 High Impact Ceilings (09 57 63)

09 57 63 00-0002	SF	Polyvinyl Chloride Face High Impact Ceiling Panels.....	9.87	1.17
		<i>For Ceilings >10' High, Add</i>	0.14	
09 57 63 00-0003	SF	High Impact Clips.....	3.55	0.94
		<i>For Ceilings >10' High, Add</i>	0.11	

09 60 Flooring (09)

Note: Perform moisture testing as recommended by manufacturer.

09 61 Flooring Treatment (09 60)

09 61 13 Slip-Resistant Flooring Treatment (09 61)

09 61 13 00-0001 Anti-Slip Tape (09 61 13)

Note: Grit sandpaper surface with adhesive back.

09 61 13 00-0002	LF	1" Anti-Slip Tape.....	2.96	2.34
09 61 13 00-0003	LF	2" Anti-Slip Tape.....	3.68	2.58
09 61 13 00-0004	LF	3" Anti-Slip Tape.....	4.39	2.84
09 61 13 00-0005	LF	4" Anti-Slip Tape.....	5.06	3.12
09 61 13 00-0006	LF	6" Anti-Slip Tape.....	6.36	3.43
09 61 13 00-0007	LF	12" Anti-Slip Tape.....	10.97	5.14
09 61 13 00-0008	LF	24" Anti-Slip Tape.....	15.61	7.72

09 63 Masonry Flooring (09 60)

09 63 13 Brick Flooring (09 63)

09 63 13 00-0001 Clay Bricks (09 63 13)

09 63 13 00-0002	SF	2-1/4" Thick Clay Brick Floor.....	26.61	9.88
		<i>For Basket Weave Pattern, Add</i>	2.11	
		<i>For Herringbone Pattern, Add</i>	2.82	
		<i>For Epoxy Joints, Add</i>	5.24	
09 63 13 00-0003	SF	3" Thick Clay Brick Floor.....	29.72	9.88
		<i>For Basket Weave Pattern, Add</i>	2.11	
		<i>For Herringbone Pattern, Add</i>	2.82	
		<i>For Epoxy Joints, Add</i>	5.24	
09 63 13 00-0004	SF	1/2" Thick Unglazed Clay Brick Floor.....	17.84	9.88
		<i>For Basket Weave Pattern, Add</i>	2.11	
		<i>For Herringbone Pattern, Add</i>	2.81	
		<i>For Epoxy Joints, Add</i>	5.24	
09 63 13 00-0005	SF	1/2" Thick Glazed Clay Brick Floor.....	20.66	9.88
		<i>For Basket Weave Pattern, Add</i>	2.11	
		<i>For Herringbone Pattern, Add</i>	2.81	
		<i>For Epoxy Joints, Add</i>	5.24	
09 63 13 00-0006	SF	3/4" Thick Unglazed Clay Brick Floor.....	19.11	9.88
		<i>For Basket Weave Pattern, Add</i>	2.11	
		<i>For Herringbone Pattern, Add</i>	2.81	
		<i>For Epoxy Joints, Add</i>	5.24	
09 63 13 00-0007	SF	3/4" Thick Glazed Clay Brick Floor.....	22.85	9.88
		<i>For Basket Weave Pattern, Add</i>	2.11	
		<i>For Herringbone Pattern, Add</i>	2.81	
		<i>For Epoxy Joints, Add</i>	5.24	



Finishes	09	09
Flooring	09 60	
Masonry Flooring	09 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 63 13 00-0008 SF 15/16" Thick Unglazed Clay Brick Floor.....	20.32	9.88
For Basket Weave Pattern, Add	2.11	
For Herringbone Pattern, Add	2.81	
For Epoxy Joints, Add	5.24	
09 63 13 00-0009 SF 15/16" Thick Glazed Clay Brick Floor	25.06	9.88
For Basket Weave Pattern, Add	2.11	
For Herringbone Pattern, Add	2.81	
For Epoxy Joints, Add	5.24	
09 63 43 Composition Stone Flooring (09 63)		
09 63 43 00-0001 Cupric Oxychloride Cement, Seamless Flooring System (09 63 43)		
Note: Chemical and slip resistant. OSHA and USDA approved.		
09 63 43 00-0002 SF 3/8" Thick, Cupric Oxychloride Cement, Seamless Flooring System, Trowel Applied	16.61	5.59
09 64 Wood Flooring (09 60)		
09 64 13 Wood Flooring Underlayment (09 64)		
09 64 13 00-0001 Wood Flooring Underlayment (09 64 13)		
09 64 13 00-0002 SF Regular Weight Red Rosin Paper, Wood Flooring Underlayment	0.50	
09 64 13 00-0003 SF Heavy Weight Red Rosin Paper, Wood Flooring Underlayment	0.51	
09 64 13 00-0004 SF 30 LB, Waxed Paper, Wood Flooring Underlayment	0.53	
09 64 13 00-0005 SF 15 LB, Asphalt Saturated Organic Felt, Wood Flooring Underlayment	0.58	
09 64 13 00-0006 SF 6 Mil Thick, Polyethylene Film, Wood Flooring Underlayment	0.53	
09 64 13 00-0007 SF 8 Mil Thick, Polyethylene Film, Wood Flooring Underlayment	0.57	
09 64 13 00-0008 SF 1/8" Thick, Natural Cork, Wood Flooring Underlayment	2.07	0.35
09 64 13 00-0009 SF 1/4" Thick, Natural Cork, Wood Flooring Underlayment	2.16	0.35
09 64 13 00-0010 SF 3/32" Thick, Polyethylene Foam, Wood Flooring Underlayment (Roberts® Unison™ 70-025-15)	0.81	
09 64 13 00-0011 SF 2.0mm Thick, Progressive Foam Technology, Wood Flooring Underlayment (Roberts® Quiet Cushion 70-180)	0.98	
09 64 13 00-0012 SF 4.0mm Thick, Compressed Fiber, Wood Flooring Underlayment (Roberts® Super Felt 70-193)	1.05	
09 64 13 00-0013 SF 2.5mm Thick, Closed Cell Foam, Wood Flooring Underlayment (Roberts® Black Jack™ 70-026)	1.26	
09 64 13 00-0014 SF 1/8" Thick, Moisture Barrier, Sound Reduction And Cushioning, Wood Flooring Underlayment (Roberts® AirGuard™ 70-105)	1.28	0.23
09 64 23 Wood Parquet Flooring (09 64)		
Note: All wood parquet flooring is prefinished at factory.		
09 64 23 00-0001 Hardwood Parquet Flooring (09 64 23)		
09 64 23 00-0002 SF 5/16" Thick Oak Parquet Flooring	11.12	1.17
For Up To 20, Add	4.96	
For >20 To 50, Add	2.58	
For >50 To 100, Add	1.29	
For >100 To 300, Add	0.64	
09 64 29 Wood Strip and Plank Flooring (09 64)		
Note: All wood strip flooring is unfinished, tongue and groove.		
09 64 29 00-0001 Unfinished Fir, Wood Strip Flooring (09 64 29)		
09 64 29 00-0002 SF 3-1/8" Plank Width, 3/4" Thick, Plain Sawn, Clear Vertical Grain (C Or Better) Unfinished Fir, Wood Strip Flooring	12.65	1.17
For Factory Finish, Add	0.74	
For Random Width Floor, Add	2.90	
For Up To 20, Add	4.27	
For >20 To 50, Add	2.32	
For >50 To 100, Add	1.16	
For >100 To 300, Add	0.58	
09 64 29 00-0003 Unfinished Oak, Wood Strip Flooring (09 64 29)		
09 64 29 00-0004 Unfinished White Oak, Wood Strip Flooring (09 64 29 00-0003)		
09 64 29 00-0005 SF 2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished White Oak, Wood Strip Flooring	10.73	1.17
For Factory Finish, Add	0.39	
For Random Width Floor, Add	2.34	
For Up To 20, Add	4.71	
For >20 To 50, Add	2.45	
For >50 To 100, Add	1.22	
For >100 To 300, Add	0.61	
09 64 29 00-0006 SF 2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished White Oak, Wood Strip Flooring	11.24	1.17
For Factory Finish, Add	0.44	
For Random Width Floor, Add	2.47	
For Up To 20, Add	4.78	
For >20 To 50, Add	2.50	
For >50 To 100, Add	1.25	
For >100 To 300, Add	0.63	

09 Finishes**09 60 Flooring****09 64 Wood Flooring**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 29 00-0007	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished White Oak, Wood Strip Flooring.....	11.99	1.17
			<i>For Factory Finish, Add</i>	0.51	
			<i>For Random Width Floor, Add</i>	2.65	
			<i>For Up To 20, Add</i>	4.89	
			<i>For >20 To 50, Add</i>	2.58	
			<i>For >50 To 100, Add</i>	1.29	
			<i>For >100 To 300, Add</i>	0.64	
09 64 29 00-0008	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished White Oak, Wood Strip Flooring.....	9.29	1.17
			<i>For Factory Finish, Add</i>	0.40	
			<i>For Random Width Floor, Add</i>	2.06	
			<i>For Up To 20, Add</i>	3.77	
			<i>For >20 To 50, Add</i>	1.98	
			<i>For >50 To 100, Add</i>	0.99	
			<i>For >100 To 300, Add</i>	0.50	
09 64 29 00-0009	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished White Oak, Wood Strip Flooring.....	9.69	1.17
			<i>For Factory Finish, Add</i>	0.44	
			<i>For Random Width Floor, Add</i>	2.16	
			<i>For Up To 20, Add</i>	3.83	
			<i>For >20 To 50, Add</i>	2.02	
			<i>For >50 To 100, Add</i>	1.01	
			<i>For >100 To 300, Add</i>	0.51	
09 64 29 00-0010	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished White Oak, Wood Strip Flooring.....	10.46	1.17
			<i>For Factory Finish, Add</i>	0.52	
			<i>For Random Width Floor, Add</i>	2.35	
			<i>For Up To 20, Add</i>	3.94	
			<i>For >20 To 50, Add</i>	2.10	
			<i>For >50 To 100, Add</i>	1.05	
			<i>For >100 To 300, Add</i>	0.53	
09 64 29 00-0011			Unfinished Red Oak, Wood Strip Flooring (09 64 29 00-0003)		
09 64 29 00-0012	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished Red Oak, Wood Strip Flooring.....	10.82	1.17
			<i>For Factory Finish, Add</i>	0.39	
			<i>For Random Width Floor, Add</i>	2.36	
			<i>For Up To 20, Add</i>	4.72	
			<i>For >20 To 50, Add</i>	2.46	
			<i>For >50 To 100, Add</i>	1.23	
			<i>For >100 To 300, Add</i>	0.61	
09 64 29 00-0013	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished Red Oak, Wood Strip Flooring.....	11.32	1.17
			<i>For Factory Finish, Add</i>	0.44	
			<i>For Random Width Floor, Add</i>	2.49	
			<i>For Up To 20, Add</i>	4.79	
			<i>For >20 To 50, Add</i>	2.51	
			<i>For >50 To 100, Add</i>	1.25	
			<i>For >100 To 300, Add</i>	0.63	
09 64 29 00-0014	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished Red Oak, Wood Strip Flooring.....	12.07	1.17
			<i>For Factory Finish, Add</i>	0.52	
			<i>For Random Width Floor, Add</i>	2.67	
			<i>For Up To 20, Add</i>	4.91	
			<i>For >20 To 50, Add</i>	2.58	
			<i>For >50 To 100, Add</i>	1.29	
			<i>For >100 To 300, Add</i>	0.65	
09 64 29 00-0015	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished Red Oak, Wood Strip Flooring.....	9.37	1.17
			<i>For Factory Finish, Add</i>	0.41	
			<i>For Random Width Floor, Add</i>	2.08	
			<i>For Up To 20, Add</i>	3.78	
			<i>For >20 To 50, Add</i>	1.99	
			<i>For >50 To 100, Add</i>	1.00	
			<i>For >100 To 300, Add</i>	0.50	
09 64 29 00-0016	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished Red Oak, Wood Strip Flooring.....	9.88	1.17
			<i>For Factory Finish, Add</i>	0.46	
			<i>For Random Width Floor, Add</i>	2.21	
			<i>For Up To 20, Add</i>	3.85	
			<i>For >20 To 50, Add</i>	2.04	
			<i>For >50 To 100, Add</i>	1.02	
			<i>For >100 To 300, Add</i>	0.51	
09 64 29 00-0017	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished Red Oak, Wood Strip Flooring.....	10.55	1.17
			<i>For Factory Finish, Add</i>	0.53	
			<i>For Random Width Floor, Add</i>	2.37	
			<i>For Up To 20, Add</i>	3.95	
			<i>For >20 To 50, Add</i>	2.11	
			<i>For >50 To 100, Add</i>	1.05	
			<i>For >100 To 300, Add</i>	0.53	
09 64 29 00-0018			Unfinished Maple, Wood Strip Flooring (09 64 29)		
09 64 29 00-0019			25/32" Thick, Unfinished Maple, Wood Strip Flooring (09 64 29 00-0018)		
09 64 29 00-0020	SF		2-1/4" Plank Width, 25/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring.....	12.66	1.17
			<i>For Factory Finish, Add</i>	0.58	
			<i>For Random Width Floor, Add</i>	2.82	
			<i>For Up To 20, Add</i>	5.00	
			<i>For >20 To 50, Add</i>	2.64	
			<i>For >50 To 100, Add</i>	1.32	
			<i>For >100 To 300, Add</i>	0.66	



Finishes	09	09
Flooring	09 60	
Wood Flooring	09 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 29 00-0021 SF 2-1/4" Plank Width, 25/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring.....	11.82	1.17
For Factory Finish, Add	0.49	
For Random Width Floor, Add	2.61	
For Up To 20, Add	4.87	
For >20 To 50, Add	2.56	
For >50 To 100, Add	1.28	
For >100 To 300, Add	0.64	
09 64 29 00-0022 SF 3" Plank Width, 25/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring.....	11.38	1.17
For Factory Finish, Add	0.61	
For Random Width Floor, Add	2.58	
For Up To 20, Add	4.08	
For >20 To 50, Add	2.19	
For >50 To 100, Add	1.10	
For >100 To 300, Add	0.55	
09 64 29 00-0023 SF 3" Plank Width, 25/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring.....	10.55	1.17
For Factory Finish, Add	0.53	
For Random Width Floor, Add	2.37	
For Up To 20, Add	3.95	
For >20 To 50, Add	2.11	
For >50 To 100, Add	1.05	
For >100 To 300, Add	0.53	
09 64 29 00-0024 33/32" Thick, Unfinished Maple, Wood Strip Flooring (09 64 29 00-0018)		
09 64 29 00-0025 SF 2-1/4" Plank Width, 33/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring.....	14.47	1.17
For Factory Finish, Add	0.76	
For Random Width Floor, Add	3.27	
For Up To 20, Add	5.27	
For >20 To 50, Add	2.82	
For >50 To 100, Add	1.41	
For >100 To 300, Add	0.71	
09 64 29 00-0026 SF 2-1/4" Plank Width, 33/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring.....	13.34	1.17
For Factory Finish, Add	0.65	
For Random Width Floor, Add	2.99	
For Up To 20, Add	5.10	
For >20 To 50, Add	2.71	
For >50 To 100, Add	1.36	
For >100 To 300, Add	0.68	
09 64 29 00-0027 SF 3" Plank Width, 33/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring.....	13.31	1.17
For Factory Finish, Add	0.80	
For Random Width Floor, Add	3.06	
For Up To 20, Add	4.37	
For >20 To 50, Add	2.39	
For >50 To 100, Add	1.19	
For >100 To 300, Add	0.60	
09 64 29 00-0028 SF 3" Plank Width, 33/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring.....	12.19	1.17
For Factory Finish, Add	0.69	
For Random Width Floor, Add	2.78	
For Up To 20, Add	4.20	
For >20 To 50, Add	2.27	
For >50 To 100, Add	1.14	
For >100 To 300, Add	0.57	
09 64 29 00-0029 Prefinished Engineered Wood Flooring (09 64 29)		
Note: Glued or nailed. Excludes underlayment. See CSI section 09 64 13 00-0001 for wood flooring underlayment.		
09 64 29 00-0030 SF 1/2" Thick, Red Oak, Prefinished Engineered Wood Flooring.....	14.77	1.17
For Up To 20, Add	4.28	
For >20 To 50, Add	2.40	
For >50 To 100, Add	1.20	
For >100 To 300, Add	0.60	
09 64 29 00-0031 SF 1/2" Thick, White Oak, Prefinished Engineered Wood Flooring.....	14.77	1.17
For Up To 20, Add	4.28	
For >20 To 50, Add	2.40	
For >50 To 100, Add	1.20	
For >100 To 300, Add	0.60	
09 64 29 00-0032 SF 1/2" Thick, Select Maple, Prefinished Engineered Wood Flooring.....	14.33	1.17
For Up To 20, Add	4.22	
For >20 To 50, Add	2.35	
For >50 To 100, Add	1.18	
For >100 To 300, Add	0.59	
09 64 29 00-0033 SF 1/2" Thick, Natural Hickory, Prefinished Engineered Wood Flooring.....	14.66	1.17
For Up To 20, Add	4.26	
For >20 To 50, Add	2.38	
For >50 To 100, Add	1.19	
For >100 To 300, Add	0.60	

09 64 66 Wood Athletic Flooring (09 64)

Note: On shims, sleepers and/or screeds. 1-1/2" or 2-1/4" widths. Excludes finish.

09	09 Finishes
	09 60 Flooring
	09 64 Wood Flooring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 66 00-0001 Wood Gym/Stage/Dance Floors <small>(09 64 66)</small>		
Note: Includes sanding and vent cove base. Excludes concrete repairs to subbase, thresholds, and finishing.		
09 64 66 00-0002 SF 25/32" Maple Wood Gym/Stage/Dance Floor	14.91	5.86
For Oak Or Birch, Deduct	-0.20	
For Pine, Deduct	-0.30	
For #1 Grade Material, Add	0.50	
09 64 66 00-0003 SF Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, Two Layers Of Plywood Panel Subfloor With Resilient Pads (Connor DuraCushion)	19.75	7.61
Note: Includes 6 mil polyethylene vapor barrier, two layers of 15/32" plywood subfloor and 3/8" resilient pads.		
For Oak Or Birch, Deduct	-0.20	
For Pine, Deduct	-0.30	
For #1 Grade Material, Add	0.50	
09 64 66 00-0004 SF Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, Two Layers Of Plywood Panel Subfloor With Two Stage Resilient Pads (Connor NeoShok)	20.73	7.61
Note: Includes 6 mil polyethylene vapor barrier, two layers of 15/32" plywood subfloor and 3/4" hemispherical two stage polyurethane resilient pads.		
For Oak Or Birch, Deduct	-0.20	
For Pine, Deduct	-0.30	
For #1 Grade Material, Add	0.50	
09 64 66 00-0005 SF Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, One Layer Of Plywood Subfloor With Continuous Steel Channel Encased Sleepers And Resilient Pads (Connor PermaFlex)	22.74	7.61
Note: Includes 6 mil polyethylene vapor barrier, one layer of 15/32" plywood subfloor, a continuous steel channel encasing a 23/32" fixed sleeper, a 7/16" resilient pad and a 23/32" flex sleeper.		
For Oak Or Birch, Deduct	-0.20	
For Pine, Deduct	-0.30	
For #1 Grade Material, Add	0.50	
09 64 66 00-0006 SF Fixed Resilient 25/32" Maple Wood Gym/Stage/Dance Floor System, One Layer Of Plywood Panel Subfloor With Resilient Pads (Connor Focus)	21.80	7.61
Note: Includes 6 mil polyethylene vapor barrier, one layer of 3/4" subfloor, 9/16" resilient pads and concrete anchors and clips.		
For Oak Or Birch, Deduct	-0.20	
For Pine, Deduct	-0.30	
For #1 Grade Material, Add	0.50	
09 64 66 00-0007 SF Clip And Channel, Fixed 33/32" Maple Wood Gym/Stage/Dance Floor System (Connor PermaLock)	25.00	7.61
Note: Includes 6 mil polyethylene vapor barrier, one layer of 1/2" impregnated fiberboard with channel grooves for 16 gauge steel anchor channel.		
For Oak Or Birch, Deduct	-0.20	
For Pine, Deduct	-0.30	
For #1 Grade Material, Add	0.50	
09 65 Resilient Flooring <small>(09 60)</small>		
See CSI section 03 54 16 00-0001 for self leveling underlayment for uneven floors.		
09 65 13 Resilient Base and Accessories <small>(09 65)</small>		
09 65 13 13 Resilient Base <small>(09 65 13)</small>		
09 65 13 13-0001 Type TV Thermoplastic Vinyl Wall Base <small>(09 65 13 13)</small>		
Note: Includes inside and outside corners.		
09 65 13 13-0002 LF 2-1/2" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors	3.91	1.43
For Up To 20, Add	1.73	
For >20 To 40, Add	0.96	
For >40 To 80, Add	0.34	
For >240 To 960, Deduct	-0.25	
For >960, Deduct	-0.37	
09 65 13 13-0003 LF 4" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors	4.31	1.43
For Up To 20, Add	1.79	
For >20 To 40, Add	1.00	
For >40 To 80, Add	0.36	
For >240 To 960, Deduct	-0.29	
For >960, Deduct	-0.43	
09 65 13 13-0004 LF 6" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors	5.17	1.43
For Up To 20, Add	1.92	
For >20 To 40, Add	1.09	
For >40 To 80, Add	0.40	
For >240 To 960, Deduct	-0.37	
For >960, Deduct	-0.56	
09 65 13 13-0005 Type TP Thermoplastic Rubber Wall Base <small>(09 65 13 13)</small>		
Note: Includes inside and outside corners.		
09 65 13 13-0006 LF 2-1/2" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors	4.17	1.43
For Up To 20, Add	1.77	
For >20 To 40, Add	0.99	
For >40 To 80, Add	0.35	
For >240 To 960, Deduct	-0.27	
For >960, Deduct	-0.41	
09 65 13 13-0007 LF 4" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors	4.47	1.43
For Up To 20, Add	1.81	
For >20 To 40, Add	1.02	
For >40 To 80, Add	0.37	
For >240 To 960, Deduct	-0.30	
For >960, Deduct	-0.46	



Finishes	09	09
Flooring	09 60	
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 13-0008 LF 6" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	5.30 1.94 1.10 0.41 -0.39 -0.58	1.43
09 65 13 13-0009 LF 2-1/2" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	6.47 2.11 1.22 0.47 -0.50 -0.76	1.43
09 65 13 13-0010 LF 3" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	6.72 2.15 1.24 0.48 -0.53 -0.79	1.43
09 65 13 13-0011 LF 4-1/2" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	8.02 2.35 1.37 0.54 -0.66 -0.99	1.43
09 65 13 13-0012 LF 6" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	10.62 2.74 1.63 0.67 -0.92 -1.38	1.43
09 65 13 13-0013 Type TS Thermoset Vulcanized Rubber Wall Base <small>(09 65 13 13)</small> Note: Includes inside and outside corners.		
09 65 13 13-0014 LF 2-1/2" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	4.50 1.82 1.02 0.37 -0.31 -0.46	1.72
09 65 13 13-0015 LF 4" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	4.51 1.82 1.02 0.37 -0.31 -0.46	1.43
09 65 13 13-0016 LF 6" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	6.30 2.32 1.32 0.49 -0.46 -0.69	1.72
09 65 13 23 Resilient Stair Treads and Risers <small>(09 65 13)</small> Note: All treads have integral nosing. Abrasive strip modifier includes either 1 or 2 strips running the length of the tread. All colors.		
09 65 13 23-0001 Rubber Stair Treads and Risers <small>(09 65 13 23)</small>		
09 65 13 23-0002 Raised Disc Or Other Patterned Rubber Stair Tread <small>(09 65 13 23-0001)</small>		
09 65 13 23-0003 LF 3/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread Note: Raised disc or other pattern. <i>For Abrasive Strip, Add</i> <i>For Photo Luminescent Abrasive Strip, Add</i>	15.45 2.75 3.75	2.29
09 65 13 23-0004 LF 1/4" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread Note: Raised disc or other pattern. <i>For Abrasive Strip, Add</i> <i>For Photo Luminescent Abrasive Strip, Add</i>	16.62 2.75 3.75	2.46
09 65 13 23-0005 LF 5/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread Note: Raised disc or other pattern. <i>For Abrasive Strip, Add</i> <i>For Photo Luminescent Abrasive Strip, Add</i>	19.91 2.75 3.75	2.63
09 65 13 23-0006 Smooth Surface Rubber Stair Tread <small>(09 65 13 23-0001)</small>		
09 65 13 23-0007 LF 3/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread Note: Smooth surface. <i>For Abrasive Strip, Add</i> <i>For Photo Luminescent Abrasive Strip, Add</i>	14.66 2.75 3.75	2.29
09 65 13 23-0008 LF 1/4" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread Note: Smooth surface. <i>For Abrasive Strip, Add</i> <i>For Photo Luminescent Abrasive Strip, Add</i>	15.67 2.75 3.75	2.46

09 Finishes**09 60 Flooring****09 65 Resilient Flooring**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 23-0009	LF		5/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread Note: Smooth surface. For Abrasive Strip, Add For Photo Luminescent Abrasive Strip, Add	18.75 2.75 3.75	2.64
09 65 13 23-0010			Smooth Surface Rubber Stair Riser (09 65 13 23-0001)		
09 65 13 23-0011	LF		1/8" Thick, Smooth Surface Rubber Stair Riser	8.55	1.38
09 65 13 23-0012			Smooth, Raised Disc or Other Patterned Rubber Landing Mats (09 65 13 23-0001)		
09 65 13 23-0013	SF		1/8" Thick, Rubber Landing Mats Note: Smooth, raised disc or other patterned surface.	23.13	2.12
09 65 13 23-0014	SF		3/16" Thick, Rubber Landing Mats Note: Smooth, raised disc or other patterned surface.	27.53	2.29
09 65 13 23-0015	SF		7/32" Thick, Rubber Landing Mats Note: Smooth, raised disc or other patterned surface.	29.98	2.57
09 65 13 23-0016			Vinyl Stair Treads and Risers (09 65 13 23)		
09 65 13 23-0017			Ribbed Vinyl Stair Tread (09 65 13 23-0016)		
09 65 13 23-0018	LF		1/8" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread For Abrasive Strip, Add	16.20 2.75	2.08
09 65 13 23-0019	LF		3/16" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread For Abrasive Strip, Add	17.90 2.75	2.29
09 65 13 23-0020	LF		1/4" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread For Abrasive Strip, Add	21.38 2.75	2.47
09 65 13 23-0021			Smooth Surface Vinyl Stair Riser (09 65 13 23-0016)		
09 65 13 23-0022	LF		1/8" Thick, 7" High, Smooth Surface Vinyl Stair Riser	9.11	1.38
09 65 13 33			Resilient Accessories (09 65 13)		
09 65 13 33-0001			Flexible Self Leveling Cementitious Underlayments (09 65 13 33)		
09 65 13 33-0002	SF		1/8" Thick, Flexible Self Leveling Cementitious Underlayment With Liquid Latex Modifiers	1.90	1.15
09 65 13 33-0003	SF		1/4" Thick, Flexible Self Leveling Cementitious Underlayment With Liquid Latex Modifiers	2.86	1.15
09 65 13 33-0004			Concrete Floor Prep (09 65 13 33)		
09 65 13 33-0005	SF		Removal Of Glue From Concrete Floor Note: For removal of glue from VCT or carpet placement. Not to be used in conjunction with demolition tasks associated with floor tile installation.	1.43	
09 65 13 36			Resilient Carpet Transitions (09 65 13)		
09 65 13 36-0001			Vinyl Transition Strip (09 65 13 36)		
09 65 13 36-0002	LF		Vinyl Transition Strip, Brown Or Black For >240 To 960, Deduct For >960, Deduct	2.14 -0.14 -0.21	1.04
09 65 13 36-0003	LF		Vinyl Floor Tile Reducer Strip, Brown Or Black For >240 To 960, Deduct For >960, Deduct	1.99 -0.13 -0.19	1.04
09 65 13 36-0004	LF		Vinyl Floor Tile Feature Strip, Brown Or Black For >240 To 960, Deduct For >960, Deduct	1.81 -0.11 -0.16	1.04
09 65 13 36-0005	LF		1/4" To 1/8" Material, Narrow, Vinyl, Slim Line Transition (Johnsonite SLT-XX-A) For Up To 20, Add For >20 To 40, Add For >40 To 80, Add For >240 To 960, Deduct For >960, Deduct	3.27 1.41 0.79 0.28 -0.21 -0.32	1.43
09 65 13 36-0006			Vinyl, Wheeled Traffic Transitions (09 65 13 36)		
09 65 13 36-0007	LF		1/4" To 1/8" Material x 1-3/4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-A) For Up To 20, Add For >20 To 40, Add For >40 To 80, Add For >240 To 960, Deduct For >960, Deduct	3.90 1.50 0.85 0.31 -0.28 -0.41	1.43
09 65 13 36-0008	LF		1/4" To 1/8" Material x 1", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-C) For Up To 20, Add For >20 To 40, Add For >40 To 80, Add For >240 To 960, Deduct For >960, Deduct	3.90 1.50 0.85 0.31 -0.28 -0.41	1.43



Finishes	09	09
Flooring	09 60	
Resilient Flooring	09 65	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 36-0009	LF		5/16" To 1/16" Or 1/8" Material x 1-5/8", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-D)	4.61	1.43
			<i>For Up To 20, Add</i>	1.61	
			<i>For >20 To 40, Add</i>	0.92	
			<i>For >40 To 80, Add</i>	0.35	
			<i>For >240 To 960, Deduct</i>	-0.35	
			<i>For >960, Deduct</i>	-0.52	
09 65 13 36-0010	LF		1/4" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-H)	7.14	1.43
			<i>For Up To 20, Add</i>	1.99	
			<i>For >20 To 40, Add</i>	1.17	
			<i>For >40 To 80, Add</i>	0.47	
			<i>For >240 To 960, Deduct</i>	-0.60	
			<i>For >960, Deduct</i>	-0.90	
09 65 13 36-0011	LF		1/4" To 1/8" Material x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-HL)	7.16	1.43
			<i>For Up To 20, Add</i>	1.99	
			<i>For >20 To 40, Add</i>	1.17	
			<i>For >40 To 80, Add</i>	0.47	
			<i>For >240 To 960, Deduct</i>	-0.60	
			<i>For >960, Deduct</i>	-0.90	
09 65 13 36-0012	LF		1/4" To 0.08" Or 2 mm Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-HT)	4.98	1.43
			<i>For Up To 20, Add</i>	1.66	
			<i>For >20 To 40, Add</i>	0.96	
			<i>For >40 To 80, Add</i>	0.36	
			<i>For >240 To 960, Deduct</i>	-0.38	
			<i>For >960, Deduct</i>	-0.58	
09 65 13 36-0013	LF		1/4" Material To Floor x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-J)	6.98	1.43
			<i>For Up To 20, Add</i>	1.96	
			<i>For >20 To 40, Add</i>	1.16	
			<i>For >40 To 80, Add</i>	0.46	
			<i>For >240 To 960, Deduct</i>	-0.58	
			<i>For >960, Deduct</i>	-0.88	
09 65 13 36-0014	LF		1/4" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-JL)	7.21	1.43
			<i>For Up To 20, Add</i>	2.00	
			<i>For >20 To 40, Add</i>	1.18	
			<i>For >40 To 80, Add</i>	0.48	
			<i>For >240 To 960, Deduct</i>	-0.61	
			<i>For >960, Deduct</i>	-0.91	
09 65 13 36-0015	LF		3/8" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-K)	6.19	1.43
			<i>For Up To 20, Add</i>	1.84	
			<i>For >20 To 40, Add</i>	1.08	
			<i>For >40 To 80, Add</i>	0.42	
			<i>For >240 To 960, Deduct</i>	-0.50	
			<i>For >960, Deduct</i>	-0.76	
09 65 13 36-0016	LF		3/8" To 1/4" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-L)	6.69	1.43
			<i>For Up To 20, Add</i>	1.92	
			<i>For >20 To 40, Add</i>	1.13	
			<i>For >40 To 80, Add</i>	0.45	
			<i>For >240 To 960, Deduct</i>	-0.55	
			<i>For >960, Deduct</i>	-0.83	
09 65 13 36-0017	LF		1/4" To 1/4" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-M)	7.21	1.43
			<i>For Up To 20, Add</i>	2.00	
			<i>For >20 To 40, Add</i>	1.18	
			<i>For >40 To 80, Add</i>	0.48	
			<i>For >240 To 960, Deduct</i>	-0.61	
			<i>For >960, Deduct</i>	-0.91	
09 65 13 36-0018	LF		1/8" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-N)	6.09	1.43
			<i>For Up To 20, Add</i>	1.83	
			<i>For >20 To 40, Add</i>	1.07	
			<i>For >40 To 80, Add</i>	0.42	
			<i>For >240 To 960, Deduct</i>	-0.49	
			<i>For >960, Deduct</i>	-0.74	
09 65 13 36-0019	LF		3/8" Material To Floor x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-P)	5.26	1.43
			<i>For Up To 20, Add</i>	1.71	
			<i>For >20 To 40, Add</i>	0.98	
			<i>For >40 To 80, Add</i>	0.38	
			<i>For >240 To 960, Deduct</i>	-0.41	
			<i>For >960, Deduct</i>	-0.62	
09 65 13 36-0020	LF		3/8" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-PL)	7.39	1.43
			<i>For Up To 20, Add</i>	2.02	
			<i>For >20 To 40, Add</i>	1.20	
			<i>For >40 To 80, Add</i>	0.48	
			<i>For >240 To 960, Deduct</i>	-0.62	
			<i>For >960, Deduct</i>	-0.94	
09 65 13 36-0021	LF		1/2" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Q)	9.30	1.43
			<i>For Up To 20, Add</i>	2.31	
			<i>For >20 To 40, Add</i>	1.39	
			<i>For >40 To 80, Add</i>	0.58	
			<i>For >240 To 960, Deduct</i>	-0.82	
			<i>For >960, Deduct</i>	-1.22	
09 65 13 36-0022	LF		0.08" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-X)	5.13	1.43
			<i>For Up To 20, Add</i>	1.69	
			<i>For >20 To 40, Add</i>	0.97	
			<i>For >40 To 80, Add</i>	0.37	
			<i>For >240 To 960, Deduct</i>	-0.40	
			<i>For >960, Deduct</i>	-0.60	

09	09 Finishes
	09 60 Flooring
	09 65 Resilient Flooring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 36-0023 LF 0.08" To 0.08" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Y).....	5.19	1.43
For Up To 20, Add	1.69	
For >20 To 40, Add	0.98	
For >40 To 80, Add	0.37	
For >240 To 960, Deduct	-0.40	
For >960, Deduct	-0.61	
09 65 13 36-0024 LF 0.08" To 3/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Z).....	5.80	1.43
For Up To 20, Add	1.79	
For >20 To 40, Add	1.04	
For >40 To 80, Add	0.40	
For >240 To 960, Deduct	-0.47	
For >960, Deduct	-0.70	

09 65 16 Resilient Sheet Flooring (09 65)
 Note: Includes mastic and cleaning floor after installation is complete.

09 65 16 23 Vinyl Sheet Flooring (09 65 16)

09 65 16 23-0001 Vinyl Sheet Flooring (09 65 16 23)

Note: For flash cove application, add additional square foot of material to form cove base.

09 65 16 23-0002 SF 0.080" Overall Thickness, 0.080" Wear Layer, Homogeneous, Commercial Vinyl Sheet Flooring (Armstrong® Medintech®).....	9.52	0.85
For Up To 40, Add	4.18	
For >40 To 100, Add	2.09	
For >1,000, Deduct	-0.78	
09 65 16 23-0003 SF 0.080" Overall Thickness, 0.080" Wear Layer, Homogeneous, Commercial Vinyl Sheet Flooring (Armstrong® Medley™).....	7.86	0.85
For Up To 40, Add	3.85	
For >40 To 100, Add	1.92	
For >1,000, Deduct	-0.61	
09 65 16 23-0004 SF 0.080" Overall Thickness, 0.050" Wear Layer, Inlaid With Polyglass Backing, Commercial Vinyl Sheet Flooring (Armstrong® Connection Corlon®).....	5.27	0.85
For Up To 40, Add	3.33	
For >40 To 100, Add	1.66	
For >1,000, Deduct	-0.35	
09 65 16 23-0005 SF 0.080" Overall Thickness, 0.040" Wear Layer, Inlaid With Polyglass Backing, Commercial Vinyl Sheet Flooring (Armstrong® Possibilities® Petit Point™).....	6.72	0.85
For Up To 40, Add	3.62	
For >40 To 100, Add	1.81	
For >1,000, Deduct	-0.50	
09 65 16 23-0006 SF 0.080" Overall Thickness, 0.060" Wear Layer, Inlaid With Felt Backing, Commercial Vinyl Sheet Flooring (Armstrong® Medintech Tandem®).....	8.85	0.85
For Up To 40, Add	4.05	
For >40 To 100, Add	2.02	
For >1,000, Deduct	-0.71	
09 65 16 23-0007 SF 0.080" Overall Thickness, 0.020" Wear Layer, Slip Retardant Surface, Commercial Vinyl Sheet Flooring (Armstrong® Safeguard®).....	12.07	0.85
For Up To 40, Add	4.69	
For >40 To 100, Add	2.34	
For >1,000, Deduct	-1.03	

09 65 16 23-0008 Heat Welding Vinyl Sheet Flooring Seams (09 65 16 23)

Note: For areas requiring seamless installations and superior infection control. Includes routing or hand grooving seams, installing welding rod with heat welding gun, trimming the weld rod flush with the floor surface and applying a protective finish to seam.

09 65 16 23-0009 LF Heat Weld Non-Patterned Vinyl Sheet Flooring Seams.....	7.91	
09 65 16 23-0010 LF Heat Weld Patterned Vinyl Sheet Flooring Seams.....	8.26	

09 65 16 23-0011 Forming Vinyl Sheet Flooring Inside/Outside Cove Corners (09 65 16 23)

Note: Excludes heat welding.

09 65 16 23-0012 EA Forming Vinyl Sheet Flooring Inside/Outside Cove Corners.....	19.10	
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09 65 16 23-0013 Vinyl Sheet Flooring Accessories (09 65 16 23)

09 65 16 23-0014 LF 1/2" Radius Vinyl Cove Filler Strip.....	4.06	
09 65 16 23-0015 LF 1-1/4" Radius Vinyl Cove Filler Strip.....	3.72	
09 65 16 23-0016 LF 1-1/2" Radius Vinyl Cove Filler Strip.....	5.47	
09 65 16 23-0017 LF 1/8" Aluminum Cove Cap.....	3.12	

09 65 19 Resilient Tile Flooring (09 65)

Note: Includes mastic and cleaning floor after installation is complete. Demolition includes removal of the tile and adhesive and cleaning of the surface for a new floor.

09 65 19 19 Vinyl Composition Tile Flooring (09 65 19)

09 65 19 19-0001 Vinyl Composition Tile (VCT) (09 65 19 19)

Note: The following vinyl composition tiles are certified to ASTM F 1066 Class 1 solid color tile, Class 2 through pattern tile or Class 3 surface pattern tile as listed in the task description.



Finishes	09	09
Flooring	09 60	
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 19 19-0002 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon Imperial Texture®)	3.39	1.72
For >1,000 To 3,000, Deduct	-0.08	
For >3,000 To 6,000, Deduct	-0.21	
For >6,000, Deduct	-0.39	
For 3/32" Thick, Deduct	-0.13	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0003 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon MultiColor™)	3.31	1.72
For >1,000 To 3,000, Deduct	-0.08	
For >3,000 To 6,000, Deduct	-0.21	
For >6,000, Deduct	-0.39	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0004 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon Rave®).....	3.31	1.72
For >1,000 To 3,000, Deduct	-0.08	
For >3,000 To 6,000, Deduct	-0.21	
For >6,000, Deduct	-0.39	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0005 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® ChromaSpin™)	4.42	1.72
For >1,000 To 3,000, Deduct	-0.10	
For >3,000 To 6,000, Deduct	-0.25	
For >6,000, Deduct	-0.46	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0006 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Excelon Companion Square®).....	4.43	1.72
For >1,000 To 3,000, Deduct	-0.10	
For >3,000 To 6,000, Deduct	-0.25	
For >6,000, Deduct	-0.46	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0007 SF 1/8" Thick, Class 3 Surface Pattern, Vinyl Composition Tile (VCT) (Armstrong® Arteffects®)	4.64	1.72
For >1,000 To 3,000, Deduct	-0.10	
For >3,000 To 6,000, Deduct	-0.26	
For >6,000, Deduct	-0.47	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0008 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Excelon Stonetex®)	4.67	1.72
For >1,000 To 3,000, Deduct	-0.10	
For >3,000 To 6,000, Deduct	-0.26	
For >6,000, Deduct	-0.47	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0009 SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Raffia™).....	4.81	1.72
For >1,000 To 3,000, Deduct	-0.11	
For >3,000 To 6,000, Deduct	-0.27	
For >6,000, Deduct	-0.48	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0010 SF 1/8" Thick, Slip Retardant, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Safety Zone™)	6.02	1.72
For >1,000 To 3,000, Deduct	-0.13	
For >3,000 To 6,000, Deduct	-0.32	
For >6,000, Deduct	-0.55	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0011 SF 1/8" Thick, Class 1 Solid Color, Vinyl Composition Tile (VCT) (Armstrong® Excelon Feature™).....	6.50	1.72
For >1,000 To 3,000, Deduct	-0.14	
For >3,000 To 6,000, Deduct	-0.33	
For >6,000, Deduct	-0.58	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 19-0012 Static Dissipative Vinyl Composition Tile (VCT) <small>(09 65 19 19)</small>		
Note: The following vinyl composition tiles are certified to ASTM F 1066 Class 2 through pattern tile as listed in the task description.		
09 65 19 19-0013 SF 1/8" Thick, Static Dissipative, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® SDT™).....	16.21	1.72
For >1,000 To 3,000, Deduct	-0.34	
For >3,000 To 6,000, Deduct	-0.77	
For >6,000, Deduct	-1.29	
For Extra Stock, Material Only, Deduct	-3.40	
09 65 19 19-0014 SF 1/8" Thick, Static Dissipative, Solid Vinyl Composition Tile (VCT) (Staticworx, Ameriworx® ESD)	13.37	1.72
For Up To 20, Add	3.44	
For >20 To 40, Add	2.05	
For >40 To 80, Add	0.85	
For >1,000 To 3,000, Deduct	-0.29	
For >3,000 To 6,000, Deduct	-0.66	
For >6,000, Deduct	-1.12	
For Extra Stock, Material Only, Deduct	-3.40	
09 65 19 23 Vinyl Tile Flooring <small>(09 65 19)</small>		
09 65 19 23-0001 Vinyl Tile <small>(09 65 19 23)</small>		
Note: Any size.		
09 65 19 23-0002 Solid Vinyl Tile (SVT) <small>(09 65 19 23-0001)</small>		
Note: The following solid vinyl tiles are certified to ASTM F 1700.		
09 65 19 23-0003 SF 1/8" Thick, Class 1 Type A, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Cortina Grande)	7.46	1.72
For Up To 20, Add	2.29	
For >20 To 40, Add	1.33	
For >40 To 80, Add	0.52	
For >1,000 To 3,000, Deduct	-0.16	
For >3,000 To 6,000, Deduct	-0.40	
For >6,000, Deduct	-0.71	

09	09 Finishes
	09 60 Flooring
	09 65 Resilient Flooring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 19 23-0004 SF 1/8" Thick, Class 1 Type A, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Karim Kolors).....	7.63	1.72
For Up To 20, Add	2.32	
For >20 To 40, Add	1.35	
For >40 To 80, Add	0.53	
For >1,000 To 3,000, Deduct	-0.17	
For >3,000 To 6,000, Deduct	-0.41	
For >6,000, Deduct	-0.72	
09 65 19 23-0005 SF 1/8" Thick, Slip Retardant, Class 1 Type B, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Cortina Grande SR)	7.74	1.72
For Up To 20, Add	2.33	
For >20 To 40, Add	1.36	
For >40 To 80, Add	0.53	
For >1,000 To 3,000, Deduct	-0.17	
For >3,000 To 6,000, Deduct	-0.41	
For >6,000, Deduct	-0.73	
09 65 19 23-0006 Luxury Vinyl Tile (LVT) (09 65 19 23-0001)		
09 65 19 23-0007 SF 2.5mm Thick, Luxury Vinyl Tile (LVT) (Mannington Amtico)	12.08	1.72
For Up To 20, Add	2.98	
For >20 To 40, Add	1.79	
For >40 To 80, Add	0.75	
For >1,000 To 3,000, Deduct	-0.26	
For >3,000 To 6,000, Deduct	-0.59	
For >6,000, Deduct	-0.99	
09 65 19 33 Rubber Tile Flooring (09 65 19)		
09 65 19 33-0001 Rubber Tile (09 65 19 33)		
09 65 19 33-0002 Rubber Tile With Raised Discs, Assorted Colors (09 65 19 33-0001)		
09 65 19 33-0003 SF 1/8" Thick Rubber Tile With Raised Discs.....	19.03	1.04
Note: Smooth, raised disc or other patterned surface.		
For Up To 100, Add	1.06	
09 65 19 33-0004 SF 3/16" Thick Rubber Tile With Raised Discs.....	23.03	1.15
Note: Smooth, raised disc or other patterned surface.		
For Up To 100, Add	1.27	
09 65 19 33-0005 SF 7/32" Thick Rubber Tile With Raised Discs.....	25.65	1.38
Note: Smooth, raised disc or other patterned surface.		
For Up To 100, Add	1.42	
09 65 19 43 Polyester Composition Tile Flooring (09 65 19)		
09 65 19 43-0001 Polyester Composition Floor Tile (09 65 19 43)		
Note: Any size.		
09 65 19 43-0002 SF 1/8" Thick, Polyester Composition Floor Tile (Armstrong® BioBased Tile® Migrations®).....	4.46	1.72
For >1,000 To 3,000, Deduct	-0.10	
For >3,000 To 6,000, Deduct	-0.25	
For >6,000, Deduct	-0.46	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 19 43-0003 SF 1/8" Thick, Polyester Composition Floor Tile (Armstrong® BioBased Tile® Striations®).....	4.97	1.72
For >1,000 To 3,000, Deduct	-0.11	
For >3,000 To 6,000, Deduct	-0.27	
For >6,000, Deduct	-0.49	
For Extra Stock, Material Only, Deduct	-2.01	
09 65 23 Resilient Plank Flooring (09 65)		
Note: Includes mastic and cleaning floor after installation is complete.		
09 65 23 00-0001 Vinyl Plank Flooring (09 65 23)		
09 65 23 00-0002 SF 0.110" Overall Thickness, 0.012" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™)	7.26	0.85
For Up To 40, Add	3.73	
For >40 To 100, Add	1.86	
For >1,000, Deduct	-0.55	
09 65 23 00-0003 SF 0.135" Overall Thickness, 0.020" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™)	9.03	0.85
For Up To 40, Add	4.08	
For >40 To 100, Add	2.04	
For >1,000, Deduct	-0.73	
09 65 23 00-0004 SF 0.16" Overall Thickness, 0.020" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™)	10.13	0.85
For Up To 40, Add	4.30	
For >40 To 100, Add	2.15	
For >1,000, Deduct	-0.84	
09 65 43 Linoleum Flooring (09 65)		
Note: Includes mastic and cleaning floor after installation is complete.		
09 65 43 00-0001 Linoleum Flooring (09 65 43)		
09 65 43 00-0002 SF Linoleum Tile (Forbo Marmoleum Composition Tile, MCT).....	6.63	1.72
09 65 43 00-0003 SF 2.5 mm, Linoleum Sheet (Forbo Marmoleum)	4.82	0.85
For 3.2mm Thickness, Add	0.61	
For 2mm Thickness, Deduct	-0.29	



Finishes	09	
Flooring	09 60	09
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 43 00-0004 LF Heat Weld Linoleum Sheet Flooring Seams 7.91 Note: For areas requiring seamless installations and superior infection control. Includes routing or hand grooving seams, installing welding rod with heat welding gun, trimming the weld rod flush with the floor surface and applying a protective finish to seam.	7.91	
09 65 66 Resilient Athletic Flooring (09 65)		
09 65 66 00-0001 Recycled Rubber, Interlocking Athletic Tiles (09 65 66)		
09 65 66 00-0002 SF 3/8" Height, Recycled Rubber, Interlocking Athletic Tile 6.53 <i>For Colors, Add</i> 1.08	6.53	0.80
09 65 66 00-0003 SF 1/2" Height, Recycled Rubber, Interlocking Athletic Tile 7.61 <i>For Colors, Add</i> 1.24	7.61	1.01
09 65 66 00-0004 SF 3/4" Height, Recycled Rubber, Interlocking Athletic Tile 9.01 <i>For Colors, Add</i> 1.34	9.01	1.61
09 65 66 00-0005 SF 1" Height, Recycled Rubber, Interlocking Athletic Tile 12.93 <i>For Colors, Add</i> 2.03	12.93	1.95
09 65 66 00-0006 Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tiles (09 65 66)		
09 65 66 00-0007 SF 3/8" Height, Black Hammered Surface, Closed Cell, 100 Percent Virgin Rubber, Hidden Interlocking Athletic Tile (Pawling HL-155) 33.37 <i>For Colors, Add</i> 4.03	33.37	0.80
09 65 66 00-0008 SF 9/16" Height, Black Raised Squares Surface, Closed Cell, 100 Percent Virgin Rubber, Hidden Interlocking Athletic Tile (Pawling HL-100) 48.15 <i>For Colors, Add</i> 5.88	48.15	0.80
09 65 66 00-0009 SF 3/8" Height, Black Raised Discs Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling PL-100) 35.23 <i>For Colors, Add</i> 4.26	35.23	0.80
09 65 66 00-0010 SF 9/16" Height, Black Raised Nubs Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling PL-200) 43.29 <i>For Colors, Add</i> 5.27	43.29	0.80
09 65 66 00-0011 SF 7/16" Height, Black Reversible Hammered Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling FL-150) 36.22 <i>For Colors, Add</i> 4.38	36.22	0.80
09 65 66 00-0012 Sheet Goods For Gym (09 65 66)		
09 65 66 00-0013 SF 1/4" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor 17.67	17.67	3.44
09 65 66 00-0014 SF 9/32" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor 18.69	18.69	3.55
09 65 66 00-0015 SF 3/8" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor 19.57	19.57	3.67
09 65 66 00-0016 SF 1/8" Rubber Sheet Good For Gym Floor Base 5.43	5.43	2.80
09 65 66 00-0017 SF 3/16" Rubber Sheet Good For Gym Floor Base 6.13	6.13	3.21
09 65 66 00-0018 SF 1/4" Rubber Sheet Good For Gym Floor Base 6.98	6.98	3.44
09 65 66 00-0019 SF 3/8" Rubber Sheet Good For Gym Floor Base 7.64	7.64	3.67
09 65 66 00-0020 SF 1/2" Rubber Sheet Good For Gym Floor Base 8.07	8.07	3.90
09 65 66 00-0021 Polyurethane Floor Systems (09 65 66)		
09 65 66 00-0022 SF 9 mm Thick Base Coat, 2 mm Thick Top Coat, Polyurethane Floor System With Polyurethane/Rubber Granulate Base (Robbins Pulastic) 21.88	21.88	2.29
09 66 Terrazzo Flooring (09 60)		
09 66 13 Portland Cement Terrazzo Flooring (09 66)		
Note: Excludes divider strips. See CSI section 09 66 33 00-0000 for conductive terrazzo.		
09 66 13 13 Sand Cushion Terrazzo Flooring (09 66 13)		
09 66 13 13-0001 Floors Not Bonded To Concrete (09 66 13 13)		
Note: 3" Thick - 5/8" topping and 1/4" sand cushion.		
09 66 13 13-0002 SF Terrazzo Floor, Not Bonded, Gray Cement 3" Thick With 5/8" Topping, 1/4" Sand Cushion 37.58 <i>For Venetian Type Terrazzo, Add</i> 11.19 <i>For Abrasive Heavy Duty Terrazzo, Add</i> 11.19 <i>For Colors, Add</i> 5.59 <i>For Up To 100, Add</i> 8.32 <i>For >100 To 250, Add</i> 4.16	37.58	2.85
09 66 13 13-0003 SF Terrazzo Floor, Not Bonded, White Cement 3" Thick With 5/8" Topping, 1/4" Sand Cushion 37.80 <i>For Venetian Type Terrazzo, Add</i> 11.30 <i>For Abrasive Heavy Duty Terrazzo, Add</i> 11.30 <i>For Colors, Add</i> 5.65 <i>For Up To 100, Add</i> 8.34 <i>For >100 To 250, Add</i> 4.17	37.80	2.85
09 66 13 16 Monolithic Terrazzo Flooring (09 66 13)		
09 66 13 16-0001 Monolithic Terrazzo (09 66 13 16)		

09	09 Finishes
	09 60 Flooring
	09 66 Terrazzo Flooring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 13 16-0002 SF Monolithic Terrazzo, 3-1/2" Base 5/8" Topping, 4' To 5' Square Panels Topping.....	21.81	2.85
Note: Including Mesh And Felt		
For Venetian Type Terrazzo, Add	8.15	
For Abrasive Heavy Duty Terrazzo, Add	8.15	
For Colors, Add	4.07	
For Up To 100, Add	3.84	
For >100 To 250, Add	1.92	
09 66 13 19 Bonded Terrazzo Flooring (09 66 13)		
09 66 13 19-0001 Floors Bonded To Concrete (09 66 13 19)		
Note: 1-3/4" Thick - 5/8" topping.		
09 66 13 19-0002 SF Terrazzo Floor, Bonded To Concrete, Gray Cement 1-3/4" Thick With 5/8" Topping.....	30.15	2.85
For Venetian Type Terrazzo, Add	9.23	
For Abrasive Heavy Duty Terrazzo, Add	9.23	
For Colors, Add	4.62	
For Up To 100, Add	6.52	
For >100 To 250, Add	3.26	
09 66 13 19-0003 SF Terrazzo Floor, Bonded To Concrete, White Cement 1-3/4" Thick With 5/8" Topping.....	30.37	2.85
For Venetian Type Terrazzo, Add	9.34	
For Abrasive Heavy Duty Terrazzo, Add	9.34	
For Colors, Add	4.67	
For Up To 100, Add	6.54	
For >100 To 250, Add	3.27	
09 66 13 19-0004 Terrazzo Wainscot (09 66 13 19)		
09 66 13 19-0005 SF 1-1/2" Thick Terrazzo Wainscot, Cast In Place, Bonded To Concrete Or Masonry.....	37.28	3.80
For Venetian Type Terrazzo, Add	5.98	
09 66 13 19-0006 Terrazzo Base (09 66 13 19)		
09 66 13 19-0007 SF 6" Cove Type Terrazzo Base, Cast In Place, Bonded To Concrete Or Masonry.....	42.92	3.03
For Venetian Type Terrazzo, Add	13.03	
09 66 13 19-0008 Terrazzo Curb (09 66 13 19)		
09 66 13 19-0009 LF 6" x 6" Terrazzo Curb, Cast In Place, Polished Top And 2 Faces.....	102.16	20.22
For Venetian Type Terrazzo, Add	17.38	
09 66 13 19-0010 Stairs Cast In Place (09 66 13 19)		
Note: Topping applied to concrete or metal.		
09 66 13 19-0011 LF 1-1/2" Thick x 12" Wide, Terrazzo Stair, Cast In Place, Bonded To Concrete Or Metal.....	37.41	5.70
For Each SF Of Abrasive Surface Finish, Add	0.35	
For Each LF Of Embedded Abrasive Strips, Add	0.56	
For Each LF Of Abrasive Metal Nosing, Add	3.90	
For Each SF Of Landings, Add	1.50	
09 66 13 19-0012 LF Terrazzo Stair Tread And Riser, Cast In Place, Bonded To Concrete Or Metal.....	90.99	19.00
For Each SF Of Abrasive Surface Finish, Add	0.35	
For Each LF Of Embedded Abrasive Strips, Add	0.56	
For Each LF Of Abrasive Metal Nosing, Add	3.90	
For Each SF Of Landings, Add	1.50	
09 66 13 19-0013 SF Terrazzo Stair Stringer And Fascia, Cast In Place, Bonded To Concrete Or Metal.....	38.07	5.70
For Each SF Of Abrasive Surface Finish, Add	0.35	
For Each LF Of Embedded Abrasive Strips, Add	0.56	
For Each LF Of Abrasive Metal Nosing, Add	3.90	
For Each SF Of Landings, Add	1.50	
09 66 13 19-0014 Divider Strips (09 66 13 19)		
09 66 13 19-0015 LF 1-1/4" Deep, 14 Gauge, Zinc Plated Steel, Divider Strip.....	4.71	0.95
09 66 13 19-0016 LF 1-1/4" Deep, 14 Gauge, Brass, Divider Strip.....	5.28	0.95
09 66 13 19-0017 LF 1-1/4" Deep, 1/4" Thick, Zinc Plated Steel, Heavy Top Strip.....	7.19	0.95
09 66 13 19-0018 LF 1-1/4" Deep, 1/4" Thick, Galvanized Steel Bottom, Brass, Heavy Top Strip.....	10.38	0.95
09 66 13 19-0019 LF 1/2" x 1/2", 16 Gauge, Zinc Plated Steel, Divider Strip For Thin Set Floors.....	4.58	0.95
09 66 13 19-0020 LF 1/2" x 1/2", 16 Gauge, Brass, Divider Strip For Thin Set Floors.....	6.59	0.95
09 66 13 19-0021 LF Vinyl Plastic, Divider Strip For Floor.....	4.41	0.95
09 66 16 Terrazzo Floor Tile (09 66)		
09 66 16 13 Portland Cement Terrazzo Floor Tile (09 66 16)		
09 66 16 13-0001 Flooring Tiles (09 66 16 13)		
Note: Gray cement setting bed 3/16" polyester matrix or 1/2" cement matrix 12" x 12".		
09 66 16 13-0002 Terrazzo Tiles With Non Slip Surface (09 66 16 13-0001)		
09 66 16 13-0003 SF 9" x 9" x 1" Non Slip Precast Terrazzo, Thin Set Floor Tile.....	34.44	2.80
For White Cement, Add	0.36	
For Venetian Type Terrazzo, Add	2.00	



Finishes	09	09
Flooring	09 60	
Terrazzo Flooring	09 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 16 13-0004 SF 12" x 12" x 1" Non Slip Precast Terrazzo, Thin Set Floor Tile..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	35.61 0.36 2.00	2.80
09 66 16 13-0005 SF 12" x 12" x 1-1/2" Non Slip Precast Terrazzo, Thin Set Floor Tile <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	41.53 0.36 2.00	2.80
09 66 16 13-0006 SF 18" x 18" x 1-1/2" Non Slip Precast Terrazzo, Thin Set Floor Tile <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	45.06 0.36 2.00	2.80
09 66 16 13-0007 SF 24" x 24" x 1-1/2" Non Slip Precast Terrazzo, Thin Set Floor Tile <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	47.87 0.36 2.00	2.80
09 66 16 13-0008 Terrazzo Tile Thin Set (09 66 16 13-0001)		
09 66 16 13-0009 SF Precast Terrazzo, 1/4"-1/2" Chips Floor Tiles, Thin Set Gray Cement Bed <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	34.38 0.36 2.00	2.80
09 66 16 13-0010 SF Precast Terrazzo, 3/8"-1" Chips Floor Tiles, Thin Set Gray Cement Bed <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	36.94 0.36 2.00	2.80
09 66 16 13-0011 Thin Set Terrazzo Wainscot (09 66 16 13-0001)		
09 66 16 13-0012 SF 12" x 12" x 1" Terrazzo Tile Wainscot Thin Set..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	52.52 0.50 1.00	6.06
09 66 16 13-0013 SF 18" x 18" x 1-1/2" Terrazzo Tile Wainscot Thin Set <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	59.69 0.50 1.00	6.06
09 66 16 13-0014 Thin Set Terrazzo Base, Gray Cement (09 66 16 13-0001)		
09 66 16 13-0015 LF 6" High, Straight Terrazzo Base Thin Set, Gray Cement <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	17.87 0.50 1.00	3.03
09 66 16 13-0016 LF 6" High, Cove Terrazzo Base Thin Set, Gray Cement <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	20.23 0.50 1.00	3.03
09 66 16 13-0017 LF 8" High, Straight Terrazzo Base Thin Set, Gray Cement <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	21.01 0.50 1.00	3.03
09 66 16 13-0018 LF 8" High, Cove Terrazzo Base Thin Set, Gray Cement <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	22.19 0.50 1.00	3.03
09 66 16 13-0019 Terrazzo Curbs (09 66 16 13-0001)		
09 66 16 13-0020 LF 8" x 8" Curb, Terrazzo Tile..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	34.34 0.50 1.00	4.05
09 66 16 13-0021 LF 6" x 6" Curb, Terrazzo Tile..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	33.15 0.50 1.00	4.05
09 66 16 13-0022 Precast Terrazzo Stair Treads 12" Wide (09 66 16 13-0001)		
09 66 16 13-0023 LF 1-1/2" Precast Terrazzo Stair Tread 12" Wide x 1-1/2" Thick, Diamond Pattern	92.14	4.05
09 66 16 13-0024 LF 1-1/2" Precast Terrazzo Stair Tread 12" Wide x 1-1/2" Thick, Non Slip Surface	77.96	4.05
09 66 16 13-0025 LF 2" Precast Terrazzo Straight Stair Tread	68.51	4.05
09 66 16 13-0026 LF 2" Precast Terrazzo Curved Stair Tread.....	80.51	4.05
09 66 16 13-0027 Stair Risers, 1" Thick To 6" High, Straight (09 66 16 13-0001)		
09 66 16 13-0028 LF 1"-6" High Precast Terrazzo Stair Riser Straight Section, Thin Set.....	40.99	3.03
09 66 16 13-0029 LF 1"-6" High Precast Terrazzo Stair Riser Straight Cove Section, Thin Set.....	48.08	3.03
09 66 16 13-0030 Stair Risers, 1" Thick To 6" High, Curved (09 66 16 13-0001)		
09 66 16 13-0031 LF 1" To 6" High Precast Terrazzo Stair Riser Curved Vertical Section, Thin Set	61.29	3.03
09 66 16 13-0032 LF 1" To 6" High Precast Terrazzo Stair Riser Curved Cove Section, Thin Set.....	66.01	3.03
09 66 16 13-0033 Tread And Riser (09 66 16 13)		
09 66 16 13-0034 Stair Stringers, Notched For Treads And Risers (09 66 16 13-0033)		
09 66 16 13-0035 LF 1" Precast Terrazzo Stair Stringers Notched For Treads And Risers	101.66	8.09
09 66 16 13-0036 LF 2" Precast Terrazzo Stair Stringers Notched For Treads And Risers	123.00	8.09
09 66 16 13-0037 Structural Non-Slip Landings (09 66 16 13-0033)		
09 66 16 13-0038 SF 1-1/2" Thick Precast Terrazzo Stair Landing Structural, Non Slip.....	73.59	4.05

09	09 Finishes
	09 60 Flooring
	09 66 Terrazzo Flooring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 16 13-0039 SF 3" Thick Precast Terrazzo Stair Landing Structural, Non Slip.....	91.21	4.05
09 66 16 13-0040 Combined Tread And Riser (09 66 16 13-0033)		
09 66 16 13-0041 Straight Sections (09 66 16 13-0040)		
09 66 16 13-0042 LF Precast Terrazzo Stair Tread And Riser 1-1/2" Tread, 3/4" Riser, Straight Section.....	163.41	8.09
09 66 16 13-0043 LF Precast Terrazzo Stair Tread And Riser 3" Tread, 1" Riser, Straight Section.....	196.49	8.09
09 66 16 13-0044 Curved Sections (09 66 16 13-0040)		
09 66 16 13-0045 LF Precast Terrazzo Stair Tread And Riser 2" Tread, 1" Riser, Curved Section.....	206.17	8.09
09 66 16 13-0046 LF Precast Terrazzo Stair Tread And Riser 3" Tread, 1" Riser, Curved Section.....	262.87	8.09
09 66 23 Resinous Matrix Terrazzo Flooring (09 66)		
09 66 23 16 Epoxy-Resin Terrazzo Flooring (09 66 23)		
09 66 23 16-0001 Epoxy Terrazzo (09 66 23 16)		
09 66 23 16-0002 SF Chemical Resistant Epoxy Terrazzo, 1/4" Thick.....	29.32	2.85
09 66 33 Conductive Terrazzo Flooring (09 66)		
Note: For anti-static areas.		
09 66 33 13 Conductive Epoxy-Resin Terrazzo (09 66 33)		
09 66 33 13-0001 SF Terrazzo, Epoxy System, Floor Sparkproof, Conductive, Industrial.....	32.03	5.06
09 66 33 13-0002 SF Terrazzo, Epoxy System, Base Sparkproof, Conductive, Industrial.....	59.24	5.06
09 66 33 16 Conductive Polyester-Resin Terrazzo Flooring (09 66 33)		
09 66 33 16-0001 SF Terrazzo, Polyester System, Floor Sparkproof, Conductive, Industrial.....	24.31	5.06
09 66 33 16-0002 SF Terrazzo, Polyester System, Base Sparkproof, Conductive, Industrial.....	42.98	5.06
09 66 33 19 Conductive Plastic-Matrix Terrazzo Flooring (09 66 33)		
09 66 33 19-0001 SF Terrazzo, Polyacrylate System, Floor Sparkproof, Conductive, Industrial.....	27.07	5.06
09 66 33 19-0002 SF Terrazzo, Polyacrylate System, Base Sparkproof, Conductive, Industrial.....	53.10	5.06
09 66 33 19-0003 SF Terrazzo, Synthetic Latex Mastic System, Floor Sparkproof, Conductive, Industrial.....	40.09	5.06
09 66 33 19-0004 SF Terrazzo, Synthetic Latex Mastic System, Base Sparkproof, Conductive, Industrial.....	45.08	5.06
09 67 Fluid-Applied Flooring (09 60)		
09 67 16 Epoxy-Marble Chip Flooring (09 67)		
09 67 16 00-0001 Epoxy Marble Chip Flooring (09 67 16)		
09 67 16 00-0002 SF Epoxy Marble Floor With Colored Quartz Chips In 1/4" Base.....	15.54	2.85
Note: Includes primer, 1/4" epoxy marble coat with quartz chips and top seal coat.		
For Skid Resistant Abrasive Sand Finish, Add	0.07	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.07	
09 67 16 00-0003 SF Epoxy Marble Chip Floor, Topping 3/16" Thick, Heavy Duty Epoxy.....	16.52	2.85
Note: Includes primer, 3/16" marble chip coat and top seal coat.		
For Skid Resistant Abrasive Sand Finish, Add	0.08	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.08	
09 67 23 Resinous Flooring (09 67)		
09 67 23 00-0001 Epoxy Resin Flooring (09 67 23)		
Note: Includes primer, slurry coat(s) and top coat(s) (assorted colors). Excludes existing floor preparation of sand/bead blasting or two pass floor grinding, degreasing and cleaning of existing floor system prior to application if applied directly to floor. Excludes floor patching, saw cutting joints, additional grinding of existing floor, leveling of floor, removal of existing floor or tiles, and applied markings or stripes. See CSI section 03 35 43 00-0001 for additional floor polish grinding.		
09 67 23 00-0002 SF 3/16" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	12.42	6.46
Note: Includes primer, one 3/16" slurry coat and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.05	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.05	
For Up To 500, Add	2.34	
For >500 To 1,000, Add	1.48	
For >1,000 To 2,000, Add	0.74	
09 67 23 00-0003 SF 3/16" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	18.24	6.46
Note: Includes primer, one 3/16" slurry coat and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.11	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.11	
For Up To 500, Add	3.80	
For >500 To 1,000, Add	2.36	
For >1,000 To 2,000, Add	1.18	



Finishes	09	09
Flooring	09 60	
Fluid-Applied Flooring	09 67	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 67 23 00-0004	SF		1/4" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	14.85	7.22
			Note: Includes primer, two 1/8" slurry coats and top seal coats (color).		
			For Skid Resistant Abrasive Sand Finish, Add	0.05	
			For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.05	
			For Up To 500, Add	2.76	
			For >500 To 1,000, Add	1.75	
			For >1,000 To 2,000, Add	0.88	
09 67 23 00-0005	SF		1/4" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound	21.51	7.22
			Note: Includes primer, two 1/8" slurry coats and top seal coats (color).		
			For Skid Resistant Abrasive Sand Finish, Add	0.12	
			For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.12	
			For Up To 500, Add	4.43	
			For >500 To 1,000, Add	2.75	
			For >1,000 To 2,000, Add	1.38	
09 67 23 00-0006	SF		3/8" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	16.75	8.08
			Note: Includes primer, two 3/16" slurry coats and top seal coats (color).		
			For Skid Resistant Abrasive Sand Finish, Add	0.06	
			For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.06	
			For Up To 500, Add	3.13	
			For >500 To 1,000, Add	1.99	
			For >1,000 To 2,000, Add	0.99	
09 67 23 00-0007	SF		3/8" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound	23.82	8.08
			Note: Includes primer, two 3/16" slurry coats and top seal coats (color).		
			For Skid Resistant Abrasive Sand Finish, Add	0.13	
			For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.13	
			For Up To 500, Add	4.90	
			For >500 To 1,000, Add	3.05	
			For >1,000 To 2,000, Add	1.52	

09 68 Carpeting (09 60)

Note: No VOC carpet and adhesives. Includes tack strips, glue and floor fastenings as required and vacuuming.

09 68 13 Tile Carpeting (09 68)

09 68 13 00-0001 Tufted Carpet Tiles (09 68 13)

Note: Level-loop pile or textured-loop pile carpet tiles. Includes glue or peel and stick backing.

09 68 13 00-0002 Non-Patterned Carpet Tiles (09 68 13 00-0001)

09 68 13 00-0003	SY		18 Ounce, Non Patterned, Nylon Carpet Tile.....	40.05	6.90
			For >200 To 400, Deduct	-0.46	
			For >400 To 600, Deduct	-0.69	
			For >600 To 900, Deduct	-1.41	
			For >900 To 1,500, Deduct	-2.13	
			For >1,500 To 2,200, Deduct	-3.16	
			For >2,200 To 3,500, Deduct	-4.16	
			For >3,500, Deduct	-5.16	
			For Cushion Backed Tile, Add	6.00	
09 68 13 00-0004	SY		20 Ounce, Non Patterned, Nylon Carpet Tile.....	41.45	6.90
			For >200 To 400, Deduct	-0.49	
			For >400 To 600, Deduct	-0.74	
			For >600 To 900, Deduct	-1.48	
			For >900 To 1,500, Deduct	-2.23	
			For >1,500 To 2,200, Deduct	-3.30	
			For >2,200 To 3,500, Deduct	-4.34	
			For >3,500, Deduct	-5.37	
			For Cushion Backed Tile, Add	6.00	
09 68 13 00-0005	SY		22 Ounce, Non Patterned, Nylon Carpet Tile.....	45.91	6.90
			For >200 To 400, Deduct	-0.58	
			For >400 To 600, Deduct	-0.87	
			For >600 To 900, Deduct	-1.70	
			For >900 To 1,500, Deduct	-2.54	
			For >1,500 To 2,200, Deduct	-3.75	
			For >2,200 To 3,500, Deduct	-4.89	
			For >3,500, Deduct	-6.04	
			For Cushion Backed Tile, Add	6.00	
09 68 13 00-0006	SY		24 Ounce, Non Patterned, Nylon Carpet Tile.....	50.25	6.90
			For >200 To 400, Deduct	-0.67	
			For >400 To 600, Deduct	-1.00	
			For >600 To 900, Deduct	-1.92	
			For >900 To 1,500, Deduct	-2.84	
			For >1,500 To 2,200, Deduct	-4.18	
			For >2,200 To 3,500, Deduct	-5.44	
			For >3,500, Deduct	-6.69	
			For Cushion Backed Tile, Add	6.00	
09 68 13 00-0007	SY		26 Ounce, Non Patterned, Nylon Carpet Tile.....	52.79	6.90
			For >200 To 400, Deduct	-0.72	
			For >400 To 600, Deduct	-1.08	
			For >600 To 900, Deduct	-2.05	
			For >900 To 1,500, Deduct	-3.02	
			For >1,500 To 2,200, Deduct	-4.43	
			For >2,200 To 3,500, Deduct	-5.75	
			For >3,500, Deduct	-7.07	
			For Cushion Backed Tile, Add	6.00	

09	09 Finishes
	09 60 Flooring
	09 68 Carpeting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 13 00-0008 SY 28 Ounce, Non Patterned, Nylon Carpet Tile.....	55.39	6.90
For >200 To 400, Deduct	-0.77	
For >400 To 600, Deduct	-1.15	
For >600 To 900, Deduct	-2.18	
For >900 To 1,500, Deduct	-3.20	
For >1,500 To 2,200, Deduct	-4.69	
For >2,200 To 3,500, Deduct	-6.08	
For >3,500, Deduct	-7.46	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0009 SY 30 Ounce, Non Patterned, Nylon Carpet Tile.....	56.16	6.90
For >200 To 400, Deduct	-0.79	
For >400 To 600, Deduct	-1.18	
For >600 To 900, Deduct	-2.22	
For >900 To 1,500, Deduct	-3.26	
For >1,500 To 2,200, Deduct	-4.77	
For >2,200 To 3,500, Deduct	-6.18	
For >3,500, Deduct	-7.58	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0010 SY 32 Ounce, Non Patterned, Nylon Carpet Tile.....	56.65	6.90
For >200 To 400, Deduct	-0.80	
For >400 To 600, Deduct	-1.19	
For >600 To 900, Deduct	-2.24	
For >900 To 1,500, Deduct	-3.29	
For >1,500 To 2,200, Deduct	-4.82	
For >2,200 To 3,500, Deduct	-6.24	
For >3,500, Deduct	-7.65	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0011 SY 34 Ounce, Non Patterned, Nylon Carpet Tile.....	57.05	6.90
For >200 To 400, Deduct	-0.80	
For >400 To 600, Deduct	-1.20	
For >600 To 900, Deduct	-2.26	
For >900 To 1,500, Deduct	-3.32	
For >1,500 To 2,200, Deduct	-4.86	
For >2,200 To 3,500, Deduct	-6.29	
For >3,500, Deduct	-7.71	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0012 SY 36 Ounce, Non Patterned, Nylon Carpet Tile.....	58.44	6.90
For >200 To 400, Deduct	-0.83	
For >400 To 600, Deduct	-1.25	
For >600 To 900, Deduct	-2.33	
For >900 To 1,500, Deduct	-3.41	
For >1,500 To 2,200, Deduct	-5.00	
For >2,200 To 3,500, Deduct	-6.46	
For >3,500, Deduct	-7.92	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0013 SY 38 Ounce, Non Patterned, Nylon Carpet Tile.....	61.19	6.90
For >200 To 400, Deduct	-0.89	
For >400 To 600, Deduct	-1.33	
For >600 To 900, Deduct	-2.47	
For >900 To 1,500, Deduct	-3.61	
For >1,500 To 2,200, Deduct	-5.27	
For >2,200 To 3,500, Deduct	-6.80	
For >3,500, Deduct	-8.33	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0014 SY 40 Ounce, Non Patterned, Nylon Carpet Tile.....	64.14	6.90
For >200 To 400, Deduct	-0.94	
For >400 To 600, Deduct	-1.42	
For >600 To 900, Deduct	-2.62	
For >900 To 1,500, Deduct	-3.81	
For >1,500 To 2,200, Deduct	-5.57	
For >2,200 To 3,500, Deduct	-7.17	
For >3,500, Deduct	-8.78	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0015 SY 42 Ounce, Non Patterned, Nylon Carpet Tile.....	69.81	6.90
For >200 To 400, Deduct	-1.06	
For >400 To 600, Deduct	-1.59	
For >600 To 900, Deduct	-2.90	
For >900 To 1,500, Deduct	-4.21	
For >1,500 To 2,200, Deduct	-6.14	
For >2,200 To 3,500, Deduct	-7.88	
For >3,500, Deduct	-9.63	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0016 SY Installation Of Owner Provided Non Patterned Carpet Tiles.....	16.58	

09 68 13 00-0017 Patterned Carpet Tiles (09 68 13 00-0001)

Note: Patterned carpet has a definitive repeating pattern as defined by the manufacturer.



	Finishes	09
	Flooring	09 60
	Carpeting	09 68

02

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68	13 00-0018	SY	15 Ounce, Patterned, Nylon Carpet Tile	41.34	6.90
			<i>For >200 To 400, Deduct</i>	-0.45	
			<i>For >400 To 600, Deduct</i>	-0.68	
			<i>For >600 To 900, Deduct</i>	-1.42	
			<i>For >900 To 1,500, Deduct</i>	-2.15	
			<i>For >1,500 To 2,200, Deduct</i>	-3.20	
			<i>For >2,200 To 3,500, Deduct</i>	-4.24	
			<i>For >3,500, Deduct</i>	-5.27	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0019	SY	18 Ounce, Patterned, Nylon Carpet Tile	42.09	6.90
			<i>For >200 To 400, Deduct</i>	-0.47	
			<i>For >400 To 600, Deduct</i>	-0.70	
			<i>For >600 To 900, Deduct</i>	-1.45	
			<i>For >900 To 1,500, Deduct</i>	-2.20	
			<i>For >1,500 To 2,200, Deduct</i>	-3.28	
			<i>For >2,200 To 3,500, Deduct</i>	-4.33	
			<i>For >3,500, Deduct</i>	-5.38	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0020	SY	20 Ounce, Patterned, Nylon Carpet Tile	43.52	6.90
			<i>For >200 To 400, Deduct</i>	-0.50	
			<i>For >400 To 600, Deduct</i>	-0.75	
			<i>For >600 To 900, Deduct</i>	-1.53	
			<i>For >900 To 1,500, Deduct</i>	-2.30	
			<i>For >1,500 To 2,200, Deduct</i>	-3.42	
			<i>For >2,200 To 3,500, Deduct</i>	-4.51	
			<i>For >3,500, Deduct</i>	-5.60	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0021	SY	22 Ounce, Patterned, Nylon Carpet Tile	48.04	6.90
			<i>For >200 To 400, Deduct</i>	-0.59	
			<i>For >400 To 600, Deduct</i>	-0.88	
			<i>For >600 To 900, Deduct</i>	-1.75	
			<i>For >900 To 1,500, Deduct</i>	-2.62	
			<i>For >1,500 To 2,200, Deduct</i>	-3.87	
			<i>For >2,200 To 3,500, Deduct</i>	-5.08	
			<i>For >3,500, Deduct</i>	-6.28	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0022	SY	24 Ounce, Patterned, Nylon Carpet Tile	52.45	6.90
			<i>For >200 To 400, Deduct</i>	-0.68	
			<i>For >400 To 600, Deduct</i>	-1.02	
			<i>For >600 To 900, Deduct</i>	-1.97	
			<i>For >900 To 1,500, Deduct</i>	-2.93	
			<i>For >1,500 To 2,200, Deduct</i>	-4.32	
			<i>For >2,200 To 3,500, Deduct</i>	-5.63	
			<i>For >3,500, Deduct</i>	-6.94	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0023	SY	26 Ounce, Patterned, Nylon Carpet Tile	55.03	6.90
			<i>For >200 To 400, Deduct</i>	-0.73	
			<i>For >400 To 600, Deduct</i>	-1.09	
			<i>For >600 To 900, Deduct</i>	-2.10	
			<i>For >900 To 1,500, Deduct</i>	-3.11	
			<i>For >1,500 To 2,200, Deduct</i>	-4.57	
			<i>For >2,200 To 3,500, Deduct</i>	-5.95	
			<i>For >3,500, Deduct</i>	-7.32	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0024	SY	28 Ounce, Patterned, Nylon Carpet Tile	57.67	6.90
			<i>For >200 To 400, Deduct</i>	-0.78	
			<i>For >400 To 600, Deduct</i>	-1.17	
			<i>For >600 To 900, Deduct</i>	-2.23	
			<i>For >900 To 1,500, Deduct</i>	-3.29	
			<i>For >1,500 To 2,200, Deduct</i>	-4.84	
			<i>For >2,200 To 3,500, Deduct</i>	-6.28	
			<i>For >3,500, Deduct</i>	-7.72	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0025	SY	30 Ounce, Patterned, Nylon Carpet Tile	58.45	6.90
			<i>For >200 To 400, Deduct</i>	-0.80	
			<i>For >400 To 600, Deduct</i>	-1.20	
			<i>For >600 To 900, Deduct</i>	-2.27	
			<i>For >900 To 1,500, Deduct</i>	-3.35	
			<i>For >1,500 To 2,200, Deduct</i>	-4.92	
			<i>For >2,200 To 3,500, Deduct</i>	-6.38	
			<i>For >3,500, Deduct</i>	-7.84	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68	13 00-0026	SY	32 Ounce, Patterned, Nylon Carpet Tile	58.94	6.90
			<i>For >200 To 400, Deduct</i>	-0.81	
			<i>For >400 To 600, Deduct</i>	-1.21	
			<i>For >600 To 900, Deduct</i>	-2.30	
			<i>For >900 To 1,500, Deduct</i>	-3.38	
			<i>For >1,500 To 2,200, Deduct</i>	-4.96	
			<i>For >2,200 To 3,500, Deduct</i>	-6.44	
			<i>For >3,500, Deduct</i>	-7.91	
			<i>For Cushion Backed Tile, Add</i>	6.00	

09	09 Finishes
	09 60 Flooring
	09 68 Carpeting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 13 00-0027 SY 34 Ounce, Patterned, Nylon Carpet Tile	59.35	6.90
For >200 To 400, Deduct	-0.82	
For >400 To 600, Deduct	-1.22	
For >600 To 900, Deduct	-2.32	
For >900 To 1,500, Deduct	-3.41	
For >1,500 To 2,200, Deduct	-5.01	
For >2,200 To 3,500, Deduct	-6.49	
For >3,500, Deduct	-7.97	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0028 SY 36 Ounce, Patterned, Nylon Carpet Tile	60.76	6.90
For >200 To 400, Deduct	-0.84	
For >400 To 600, Deduct	-1.26	
For >600 To 900, Deduct	-2.39	
For >900 To 1,500, Deduct	-3.51	
For >1,500 To 2,200, Deduct	-5.15	
For >2,200 To 3,500, Deduct	-6.67	
For >3,500, Deduct	-8.18	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0029 SY 38 Ounce, Patterned, Nylon Carpet Tile	63.55	6.90
For >200 To 400, Deduct	-0.90	
For >400 To 600, Deduct	-1.35	
For >600 To 900, Deduct	-2.53	
For >900 To 1,500, Deduct	-3.70	
For >1,500 To 2,200, Deduct	-5.43	
For >2,200 To 3,500, Deduct	-7.01	
For >3,500, Deduct	-8.60	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0030 SY 40 Ounce, Patterned, Nylon Carpet Tile	66.55	6.90
For >200 To 400, Deduct	-0.96	
For >400 To 600, Deduct	-1.44	
For >600 To 900, Deduct	-2.68	
For >900 To 1,500, Deduct	-3.91	
For >1,500 To 2,200, Deduct	-5.73	
For >2,200 To 3,500, Deduct	-7.39	
For >3,500, Deduct	-9.05	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0031 SY 42 Ounce, Patterned, Nylon Carpet Tile	72.30	6.90
For >200 To 400, Deduct	-1.07	
For >400 To 600, Deduct	-1.61	
For >600 To 900, Deduct	-2.96	
For >900 To 1,500, Deduct	-4.32	
For >1,500 To 2,200, Deduct	-6.30	
For >2,200 To 3,500, Deduct	-8.11	
For >3,500, Deduct	-9.92	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0032 SY Installation Of Owner Provided Patterned Carpet Tiles.....	19.05	
09 68 13 00-0033 ESD Static Control Carpet Tiles (StaticSmart Mission Critical Discovery		
ECO Series) (09 68 13 00-0001)		
Note: Includes conductive ESD releasable adhesive and grounding clips.		
09 68 13 00-0034 SY 24 Ounce, ESD Static Control, Non-Patterned, Nylon Carpet Tile (StaticSmart Mission Critical Discovery ECO		
Series)	89.82	6.90
For >200 To 400, Deduct	-1.42	
For >400 To 600, Deduct	-2.14	
For >600 To 900, Deduct	-3.84	
For >900 To 1,500, Deduct	-5.54	
For >1,500 To 2,200, Deduct	-8.05	
For >2,200 To 3,500, Deduct	-10.30	
For >3,500, Deduct	-12.54	
09 68 16 Sheet Carpeting (09 68)		
Note: Weights shown are face weight excluding backing weight and excludes padding. Demolition of carpet includes removal of glue if required. Residential carpet backing basis is for padding and commercial carpet backing is for glue down.		
09 68 16 00-0001 Carpet Cushion (09 68 16)		
09 68 16 00-0002 Carpet Padding (09 68 16 00-0001)		
09 68 16 00-0003 Prime Polyurethane Foam Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0004 SY 7/16" Thick, Prime Polyurethane Foam Carpet Padding.....	16.25	2.89
For >200 To 400, Deduct	-0.24	
For >400 To 600, Deduct	-0.36	
For >600 To 900, Deduct	-0.66	
For >900 To 1,500, Deduct	-0.96	
For >1,500 To 2,200, Deduct	-1.41	
For >2,200 To 3,500, Deduct	-1.81	
For >3,500, Deduct	-2.22	



	Finishes	09
	Flooring	09 60
	Carpeting	09 68

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0005	SY		1/2" Thick, Prime Polyurethane Foam Carpet Padding.....	16.94	2.89
			<i>For >200 To 400, Deduct</i>	-0.25	
			<i>For >400 To 600, Deduct</i>	-0.38	
			<i>For >600 To 900, Deduct</i>	-0.69	
			<i>For >900 To 1,500, Deduct</i>	-1.01	
			<i>For >1,500 To 2,200, Deduct</i>	-1.48	
			<i>For >2,200 To 3,500, Deduct</i>	-1.90	
			<i>For >3,500, Deduct</i>	-2.32	
09 68 16 00-0006			Bonded (Rebond) Polyurethane Foam Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0007	SY		1/4" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.18	2.89
			<i>For >200 To 400, Deduct</i>	-0.12	
			<i>For >400 To 600, Deduct</i>	-0.17	
			<i>For >600 To 900, Deduct</i>	-0.36	
			<i>For >900 To 1,500, Deduct</i>	-0.54	
			<i>For >1,500 To 2,200, Deduct</i>	-0.80	
			<i>For >2,200 To 3,500, Deduct</i>	-1.05	
			<i>For >3,500, Deduct</i>	-1.31	
09 68 16 00-0008	SY		5/16" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.66	2.89
			<i>For >200 To 400, Deduct</i>	-0.13	
			<i>For >400 To 600, Deduct</i>	-0.19	
			<i>For >600 To 900, Deduct</i>	-0.38	
			<i>For >900 To 1,500, Deduct</i>	-0.57	
			<i>For >1,500 To 2,200, Deduct</i>	-0.85	
			<i>For >2,200 To 3,500, Deduct</i>	-1.11	
			<i>For >3,500, Deduct</i>	-1.38	
09 68 16 00-0009	SY		3/8" Thick, 5.5 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	8.41	2.89
			<i>For >200 To 400, Deduct</i>	-0.08	
			<i>For >400 To 600, Deduct</i>	-0.12	
			<i>For >600 To 900, Deduct</i>	-0.27	
			<i>For >900 To 1,500, Deduct</i>	-0.41	
			<i>For >1,500 To 2,200, Deduct</i>	-0.62	
			<i>For >2,200 To 3,500, Deduct</i>	-0.83	
			<i>For >3,500, Deduct</i>	-1.04	
09 68 16 00-0010	SY		3/8" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.34	2.89
			<i>For >200 To 400, Deduct</i>	-0.12	
			<i>For >400 To 600, Deduct</i>	-0.18	
			<i>For >600 To 900, Deduct</i>	-0.36	
			<i>For >900 To 1,500, Deduct</i>	-0.55	
			<i>For >1,500 To 2,200, Deduct</i>	-0.82	
			<i>For >2,200 To 3,500, Deduct</i>	-1.07	
			<i>For >3,500, Deduct</i>	-1.33	
09 68 16 00-0011	SY		7/16" Thick, 5.5 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.34	2.89
			<i>For >200 To 400, Deduct</i>	-0.12	
			<i>For >400 To 600, Deduct</i>	-0.18	
			<i>For >600 To 900, Deduct</i>	-0.36	
			<i>For >900 To 1,500, Deduct</i>	-0.55	
			<i>For >1,500 To 2,200, Deduct</i>	-0.82	
			<i>For >2,200 To 3,500, Deduct</i>	-1.07	
			<i>For >3,500, Deduct</i>	-1.33	
09 68 16 00-0012	SY		7/16" Thick, 6 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.34	2.89
			<i>For >200 To 400, Deduct</i>	-0.12	
			<i>For >400 To 600, Deduct</i>	-0.18	
			<i>For >600 To 900, Deduct</i>	-0.36	
			<i>For >900 To 1,500, Deduct</i>	-0.55	
			<i>For >1,500 To 2,200, Deduct</i>	-0.82	
			<i>For >2,200 To 3,500, Deduct</i>	-1.07	
			<i>For >3,500, Deduct</i>	-1.33	
09 68 16 00-0013	SY		7/16" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.49	2.89
			<i>For >200 To 400, Deduct</i>	-0.14	
			<i>For >400 To 600, Deduct</i>	-0.21	
			<i>For >600 To 900, Deduct</i>	-0.42	
			<i>For >900 To 1,500, Deduct</i>	-0.63	
			<i>For >1,500 To 2,200, Deduct</i>	-0.93	
			<i>For >2,200 To 3,500, Deduct</i>	-1.22	
			<i>For >3,500, Deduct</i>	-1.50	
09 68 16 00-0014	SY		1/2" Thick, 5.5 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.23	2.89
			<i>For >200 To 400, Deduct</i>	-0.12	
			<i>For >400 To 600, Deduct</i>	-0.18	
			<i>For >600 To 900, Deduct</i>	-0.36	
			<i>For >900 To 1,500, Deduct</i>	-0.54	
			<i>For >1,500 To 2,200, Deduct</i>	-0.80	
			<i>For >2,200 To 3,500, Deduct</i>	-1.06	
			<i>For >3,500, Deduct</i>	-1.32	
09 68 16 00-0015	SY		1/2" Thick, 6 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.61	2.89
			<i>For >200 To 400, Deduct</i>	-0.12	
			<i>For >400 To 600, Deduct</i>	-0.19	
			<i>For >600 To 900, Deduct</i>	-0.38	
			<i>For >900 To 1,500, Deduct</i>	-0.57	
			<i>For >1,500 To 2,200, Deduct</i>	-0.84	
			<i>For >2,200 To 3,500, Deduct</i>	-1.11	
			<i>For >3,500, Deduct</i>	-1.37	

09	09 Finishes
	09 60 Flooring
	09 68 Carpeting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0016 SY 1/2" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.97	2.89
For >200 To 400, Deduct	-0.15	
For >400 To 600, Deduct	-0.23	
For >600 To 900, Deduct	-0.45	
For >900 To 1,500, Deduct	-0.66	
For >1,500 To 2,200, Deduct	-0.98	
For >2,200 To 3,500, Deduct	-1.28	
For >3,500, Deduct	-1.58	
09 68 16 00-0017 Froth Polyurethane Foam Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0018 SY 0.175" Thick, 16 LB/CF Froth Polyurethane Foam Rubber Carpet Padding.....	17.30	2.89
For >200 To 400, Deduct	-0.26	
For >400 To 600, Deduct	-0.39	
For >600 To 900, Deduct	-0.71	
For >900 To 1,500, Deduct	-1.04	
For >1,500 To 2,200, Deduct	-1.51	
For >2,200 To 3,500, Deduct	-1.94	
For >3,500, Deduct	-2.38	
09 68 16 00-0019 SY 0.250" Thick, 12 LB/CF Froth Polyurethane Foam Rubber Carpet Padding.....	19.31	2.89
For >200 To 400, Deduct	-0.30	
For >400 To 600, Deduct	-0.45	
For >600 To 900, Deduct	-0.81	
For >900 To 1,500, Deduct	-1.18	
For >1,500 To 2,200, Deduct	-1.71	
For >2,200 To 3,500, Deduct	-2.19	
For >3,500, Deduct	-2.68	
09 68 16 00-0020 SY 0.250" Thick, 16 LB/CF Froth Polyurethane Foam Rubber Carpet Padding.....	20.85	2.89
For >200 To 400, Deduct	-0.33	
For >400 To 600, Deduct	-0.49	
For >600 To 900, Deduct	-0.89	
For >900 To 1,500, Deduct	-1.28	
For >1,500 To 2,200, Deduct	-1.87	
For >2,200 To 3,500, Deduct	-2.39	
For >3,500, Deduct	-2.91	
09 68 16 00-0021 Waffle Rubber Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0022 SY 3/8" Thick, 90 OZ/SY Waffle Rubber Carpet Padding.....	19.84	2.89
For >200 To 400, Deduct	-0.31	
For >400 To 600, Deduct	-0.46	
For >600 To 900, Deduct	-0.84	
For >900 To 1,500, Deduct	-1.21	
For >1,500 To 2,200, Deduct	-1.77	
For >2,200 To 3,500, Deduct	-2.26	
For >3,500, Deduct	-2.76	
09 68 16 00-0023 Flat Sponge Rubber Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0024 SY 0.156" Thick, 62 OZ/SY Flat Sponge Rubber Carpet Padding.....	12.08	2.89
For >200 To 400, Deduct	-0.15	
For >400 To 600, Deduct	-0.23	
For >600 To 900, Deduct	-0.45	
For >900 To 1,500, Deduct	-0.67	
For >1,500 To 2,200, Deduct	-0.99	
For >2,200 To 3,500, Deduct	-1.29	
For >3,500, Deduct	-1.59	
09 68 16 00-0025 SY 0.250" Thick, 68 OZ/SY Flat Sponge Rubber Carpet Padding.....	12.90	2.89
For >200 To 400, Deduct	-0.17	
For >400 To 600, Deduct	-0.26	
For >600 To 900, Deduct	-0.49	
For >900 To 1,500, Deduct	-0.73	
For >1,500 To 2,200, Deduct	-1.07	
For >2,200 To 3,500, Deduct	-1.39	
For >3,500, Deduct	-1.72	
09 68 16 00-0026 SY 0.250" Thick, 80 OZ/SY Flat Sponge Rubber Carpet Padding.....	13.51	2.89
For >200 To 400, Deduct	-0.18	
For >400 To 600, Deduct	-0.27	
For >600 To 900, Deduct	-0.52	
For >900 To 1,500, Deduct	-0.77	
For >1,500 To 2,200, Deduct	-1.13	
For >2,200 To 3,500, Deduct	-1.47	
For >3,500, Deduct	-1.81	
09 68 16 00-0027 SY 0.250" Thick, 100 OZ/SY Flat Sponge Rubber Carpet Padding.....	15.40	2.89
For >200 To 400, Deduct	-0.22	
For >400 To 600, Deduct	-0.33	
For >600 To 900, Deduct	-0.62	
For >900 To 1,500, Deduct	-0.90	
For >1,500 To 2,200, Deduct	-1.32	
For >2,200 To 3,500, Deduct	-1.71	
For >3,500, Deduct	-2.09	



Finishes	09	09
Flooring	09 60	
Carpeting	09 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0028 SY 0.370" Thick, 100 OZ/SY Flat Sponge Rubber Carpet Padding	15.57	2.89
For >200 To 400, Deduct	-0.22	
For >400 To 600, Deduct	-0.34	
For >600 To 900, Deduct	-0.63	
For >900 To 1,500, Deduct	-0.91	
For >1,500 To 2,200, Deduct	-1.34	
For >2,200 To 3,500, Deduct	-1.73	
For >3,500, Deduct	-2.12	
09 68 16 00-0029 Synthetic Fiber Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0030 SY 0.235" Thick, 20 OZ/SY Synthetic Fiber Carpet Padding.....	5.97	2.89
For >200 To 400, Deduct	-0.03	
For >400 To 600, Deduct	-0.05	
For >600 To 900, Deduct	-0.15	
For >900 To 1,500, Deduct	-0.24	
For >1,500 To 2,200, Deduct	-0.38	
For >2,200 To 3,500, Deduct	-0.53	
For >3,500, Deduct	-0.68	
09 68 16 00-0031 SY 0.235" Thick, 24 OZ/SY Synthetic Fiber Carpet Padding.....	7.23	2.89
For >200 To 400, Deduct	-0.06	
For >400 To 600, Deduct	-0.09	
For >600 To 900, Deduct	-0.21	
For >900 To 1,500, Deduct	-0.33	
For >1,500 To 2,200, Deduct	-0.50	
For >2,200 To 3,500, Deduct	-0.68	
For >3,500, Deduct	-0.87	
09 68 16 00-0032 SY 0.275" Thick, 28 OZ/SY Synthetic Fiber Carpet Padding.....	6.65	2.89
For >200 To 400, Deduct	-0.05	
For >400 To 600, Deduct	-0.07	
For >600 To 900, Deduct	-0.18	
For >900 To 1,500, Deduct	-0.29	
For >1,500 To 2,200, Deduct	-0.45	
For >2,200 To 3,500, Deduct	-0.61	
For >3,500, Deduct	-0.78	
09 68 16 00-0033 SY 0.300" Thick, 32 OZ/SY Synthetic Fiber Carpet Padding.....	6.87	2.89
For >200 To 400, Deduct	-0.05	
For >400 To 600, Deduct	-0.07	
For >600 To 900, Deduct	-0.19	
For >900 To 1,500, Deduct	-0.31	
For >1,500 To 2,200, Deduct	-0.47	
For >2,200 To 3,500, Deduct	-0.64	
For >3,500, Deduct	-0.81	
09 68 16 00-0034 SY 0.350" Thick, 40 OZ/SY Synthetic Fiber Carpet Padding.....	8.16	2.89
For >200 To 400, Deduct	-0.08	
For >400 To 600, Deduct	-0.11	
For >600 To 900, Deduct	-0.25	
For >900 To 1,500, Deduct	-0.40	
For >1,500 To 2,200, Deduct	-0.60	
For >2,200 To 3,500, Deduct	-0.80	
For >3,500, Deduct	-1.01	
09 68 16 00-0035 Double Stick Synthetic Fiber Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0036 SY 0.300" Thick, 32 OZ/SY Double Stick Synthetic Fiber Carpet Padding.....	8.55	2.89
For >200 To 400, Deduct	-0.08	
For >400 To 600, Deduct	-0.13	
For >600 To 900, Deduct	-0.27	
For >900 To 1,500, Deduct	-0.42	
For >1,500 To 2,200, Deduct	-0.64	
For >2,200 To 3,500, Deduct	-0.85	
For >3,500, Deduct	-1.06	
09 68 16 00-0037 SY 0.375" Thick, 40 OZ/SY Double Stick Synthetic Fiber Carpet Padding.....	9.55	2.89
For >200 To 400, Deduct	-0.10	
For >400 To 600, Deduct	-0.16	
For >600 To 900, Deduct	-0.32	
For >900 To 1,500, Deduct	-0.49	
For >1,500 To 2,200, Deduct	-0.74	
For >2,200 To 3,500, Deduct	-0.97	
For >3,500, Deduct	-1.21	
09 68 16 00-0038 Residential Broadloom Carpet (09 68 16)		
Note: Includes tacks. See CSI section 09 68 16 00-0001 for padding.		
09 68 16 00-0039 SY 25 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	38.22	7.71
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.36	
For Up To 15, Add	3.95	
For >15 To 33, Add	1.98	
For >200 To 400, Deduct	-0.37	
For >400 To 600, Deduct	-0.55	
For >600 To 900, Deduct	-1.22	
For >900, Deduct	-1.89	
For Installation On Stairs, Each Riser, Add	6.00	

09 Finishes

09 60 Flooring

09 68 Carpeting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0040	SY		30 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	42.57	7.71
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.36	
			<i>For Up To 15, Add</i>	3.95	
			<i>For >15 To 33, Add</i>	1.98	
			<i>For >200 To 400, Deduct</i>	-0.46	
			<i>For >400 To 600, Deduct</i>	-0.68	
			<i>For >600 To 900, Deduct</i>	-1.44	
			<i>For >900, Deduct</i>	-2.19	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0041	SY		32 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	48.54	7.71
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.36	
			<i>For Up To 15, Add</i>	3.95	
			<i>For >15 To 33, Add</i>	1.98	
			<i>For >200 To 400, Deduct</i>	-0.58	
			<i>For >400 To 600, Deduct</i>	-0.86	
			<i>For >600 To 900, Deduct</i>	-1.74	
			<i>For >900, Deduct</i>	-2.61	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0042	SY		34 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	54.79	7.71
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.36	
			<i>For Up To 15, Add</i>	3.95	
			<i>For >15 To 33, Add</i>	1.98	
			<i>For >200 To 400, Deduct</i>	-0.70	
			<i>For >400 To 600, Deduct</i>	-1.05	
			<i>For >600 To 900, Deduct</i>	-2.05	
			<i>For >900, Deduct</i>	-3.04	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0043	SY		40 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	55.87	7.71
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.36	
			<i>For Up To 15, Add</i>	3.95	
			<i>For >15 To 33, Add</i>	1.98	
			<i>For >200 To 400, Deduct</i>	-0.72	
			<i>For >400 To 600, Deduct</i>	-1.08	
			<i>For >600 To 900, Deduct</i>	-2.10	
			<i>For >900, Deduct</i>	-3.12	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0044	SY		45 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	57.78	8.47
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.56	
			<i>For Up To 15, Add</i>	4.22	
			<i>For >15 To 33, Add</i>	2.11	
			<i>For >200 To 400, Deduct</i>	-0.73	
			<i>For >400 To 600, Deduct</i>	-1.10	
			<i>For >600 To 900, Deduct</i>	-2.15	
			<i>For >900, Deduct</i>	-3.20	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0045	SY		48 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	59.65	8.47
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.56	
			<i>For Up To 15, Add</i>	4.22	
			<i>For >15 To 33, Add</i>	2.11	
			<i>For >200 To 400, Deduct</i>	-0.77	
			<i>For >400 To 600, Deduct</i>	-1.16	
			<i>For >600 To 900, Deduct</i>	-2.24	
			<i>For >900, Deduct</i>	-3.33	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0046	SY		50 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	64.26	8.47
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.56	
			<i>For Up To 15, Add</i>	4.22	
			<i>For >15 To 33, Add</i>	2.11	
			<i>For >200 To 400, Deduct</i>	-0.86	
			<i>For >400 To 600, Deduct</i>	-1.30	
			<i>For >600 To 900, Deduct</i>	-2.47	
			<i>For >900, Deduct</i>	-3.65	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0047	SY		60 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	64.80	8.47
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.56	
			<i>For Up To 15, Add</i>	4.22	
			<i>For >15 To 33, Add</i>	2.11	
			<i>For >200 To 400, Deduct</i>	-0.87	
			<i>For >400 To 600, Deduct</i>	-1.31	
			<i>For >600 To 900, Deduct</i>	-2.50	
			<i>For >900, Deduct</i>	-3.69	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0048	SY		65 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	66.98	8.47
			<i>For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add</i>	3.56	
			<i>For Up To 15, Add</i>	4.22	
			<i>For >15 To 33, Add</i>	2.11	
			<i>For >200 To 400, Deduct</i>	-0.92	
			<i>For >400 To 600, Deduct</i>	-1.38	
			<i>For >600 To 900, Deduct</i>	-2.61	
			<i>For >900, Deduct</i>	-3.85	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	

09 68 16 00-0049 Commercial Broadloom Carpet (09 68 16)
 Note: Level-loop pile or textured-loop pile broadloom carpet.

09 68 16 00-0050 Non-Patterned Broadloom Carpet (09 68 16 00-0049)



Finishes	09	
Flooring	09 60	09
Carpeting	09 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0051 SY 22 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	50.05	28.31
For Up To 15, Add	3.78	
For >15 To 33, Add	1.89	
For >200 To 400, Deduct	-0.62	
For >400 To 600, Deduct	-0.94	
For >600 To 900, Deduct	-1.84	
For >900, Deduct	-2.75	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0052 SY 24 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	50.05	28.31
For Up To 15, Add	3.78	
For >15 To 33, Add	1.89	
For >200 To 400, Deduct	-0.62	
For >400 To 600, Deduct	-0.94	
For >600 To 900, Deduct	-1.84	
For >900, Deduct	-2.75	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0053 SY 26 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	50.05	28.31
For Up To 15, Add	3.78	
For >15 To 33, Add	1.89	
For >200 To 400, Deduct	-0.62	
For >400 To 600, Deduct	-0.94	
For >600 To 900, Deduct	-1.84	
For >900, Deduct	-2.75	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0054 SY 28 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	54.25	30.68
For Up To 15, Add	4.09	
For >15 To 33, Add	2.05	
For >200 To 400, Deduct	-0.68	
For >400 To 600, Deduct	-1.01	
For >600 To 900, Deduct	-2.00	
For >900, Deduct	-2.98	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0055 SY 30 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	55.20	30.68
For Up To 15, Add	4.09	
For >15 To 33, Add	2.05	
For >200 To 400, Deduct	-0.70	
For >400 To 600, Deduct	-1.04	
For >600 To 900, Deduct	-2.04	
For >900, Deduct	-3.05	
For Cut Pile Carpet, Add	1.50	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0056 SY 32 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	55.37	30.68
For Up To 15, Add	4.09	
For >15 To 33, Add	2.05	
For >200 To 400, Deduct	-0.70	
For >400 To 600, Deduct	-1.05	
For >600 To 900, Deduct	-2.05	
For >900, Deduct	-3.06	
For Cut Pile Carpet, Add	1.50	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0057 SY 34 Ounce, Medium Traffic, Non Patterned, Nylon Broadloom Carpet	60.74	33.03
For Up To 15, Add	4.40	
For >15 To 33, Add	2.20	
For >200 To 400, Deduct	-0.77	
For >400 To 600, Deduct	-1.16	
For >600 To 900, Deduct	-2.27	
For >900, Deduct	-3.37	
For Cut Pile Carpet, Add	1.50	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0058 SY 36 Ounce, Heavy Traffic, Non Patterned, Nylon Broadloom Carpet	61.43	33.03
For Up To 15, Add	4.40	
For >15 To 33, Add	2.20	
For >200 To 400, Deduct	-0.79	
For >400 To 600, Deduct	-1.18	
For >600 To 900, Deduct	-2.30	
For >900, Deduct	-3.42	
For Cut Pile Carpet, Add	1.50	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	

09 Finishes

09 60 Flooring

09 68 Carpeting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0059	SY		38 Ounce, Heavy Traffic, Non Patterned, Nylon Broadloom Carpet	62.27	33.03
			<i>For Up To 15, Add</i>	4.40	
			<i>For >15 To 33, Add</i>	2.20	
			<i>For >200 To 400, Deduct</i>	-0.81	
			<i>For >400 To 600, Deduct</i>	-1.21	
			<i>For >600 To 900, Deduct</i>	-2.34	
			<i>For >900, Deduct</i>	-3.48	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0060			Patterned Broadloom Carpet (09 68 16 00-0049)		
			Note: Patterned carpet has a definitive repeating pattern as defined by the manufacturer.		
09 68 16 00-0061	SY		22 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	52.41	28.31
			<i>For Up To 15, Add</i>	4.15	
			<i>For >15 To 33, Add</i>	2.08	
			<i>For >200 To 400, Deduct</i>	-0.63	
			<i>For >400 To 600, Deduct</i>	-0.95	
			<i>For >600 To 900, Deduct</i>	-1.89	
			<i>For >900, Deduct</i>	-2.84	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0062	SY		24 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	52.41	28.31
			<i>For Up To 15, Add</i>	4.15	
			<i>For >15 To 33, Add</i>	2.08	
			<i>For >200 To 400, Deduct</i>	-0.63	
			<i>For >400 To 600, Deduct</i>	-0.95	
			<i>For >600 To 900, Deduct</i>	-1.89	
			<i>For >900, Deduct</i>	-2.84	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0063	SY		26 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	52.41	28.31
			<i>For Up To 15, Add</i>	4.15	
			<i>For >15 To 33, Add</i>	2.08	
			<i>For >200 To 400, Deduct</i>	-0.63	
			<i>For >400 To 600, Deduct</i>	-0.95	
			<i>For >600 To 900, Deduct</i>	-1.89	
			<i>For >900, Deduct</i>	-2.84	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0064	SY		28 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	56.80	30.68
			<i>For Up To 15, Add</i>	4.50	
			<i>For >15 To 33, Add</i>	2.25	
			<i>For >200 To 400, Deduct</i>	-0.69	
			<i>For >400 To 600, Deduct</i>	-1.03	
			<i>For >600 To 900, Deduct</i>	-2.05	
			<i>For >900, Deduct</i>	-3.08	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0065	SY		30 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	57.77	30.68
			<i>For Up To 15, Add</i>	4.50	
			<i>For >15 To 33, Add</i>	2.25	
			<i>For >200 To 400, Deduct</i>	-0.71	
			<i>For >400 To 600, Deduct</i>	-1.06	
			<i>For >600 To 900, Deduct</i>	-2.10	
			<i>For >900, Deduct</i>	-3.14	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0066	SY		32 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	57.94	30.68
			<i>For Up To 15, Add</i>	4.50	
			<i>For >15 To 33, Add</i>	2.25	
			<i>For >200 To 400, Deduct</i>	-0.71	
			<i>For >400 To 600, Deduct</i>	-1.06	
			<i>For >600 To 900, Deduct</i>	-2.11	
			<i>For >900, Deduct</i>	-3.16	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0067	SY		34 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet	63.53	33.03
			<i>For Up To 15, Add</i>	4.85	
			<i>For >15 To 33, Add</i>	2.42	
			<i>For >200 To 400, Deduct</i>	-0.79	
			<i>For >400 To 600, Deduct</i>	-1.18	
			<i>For >600 To 900, Deduct</i>	-2.33	
			<i>For >900, Deduct</i>	-3.48	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	



Finishes	09	
Flooring	09 60	09
Carpeting	09 68	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0068	SY		36 Ounce, Heavy Traffic, Patterned, Nylon Broadloom Carpet.....	64.23	33.03
			<i>For Up To 15, Add</i>	4.85	
			<i>For >15 To 33, Add</i>	2.42	
			<i>For >200 To 400, Deduct</i>	-0.80	
			<i>For >400 To 600, Deduct</i>	-1.20	
			<i>For >600 To 900, Deduct</i>	-2.36	
			<i>For >900, Deduct</i>	-3.53	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0069	SY		38 Ounce, Heavy Traffic, Patterned, Nylon Broadloom Carpet.....	65.08	33.03
			<i>For Up To 15, Add</i>	4.85	
			<i>For >15 To 33, Add</i>	2.42	
			<i>For >200 To 400, Deduct</i>	-0.82	
			<i>For >400 To 600, Deduct</i>	-1.23	
			<i>For >600 To 900, Deduct</i>	-2.41	
			<i>For >900, Deduct</i>	-3.59	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0070			Indoor/Outdoor Carpet (09 68 16) Note: Includes waterproof glue.		
09 68 16 00-0071	SY		Nylon Indoor/Outdoor Carpet.....	43.80	5.78
09 68 16 00-0072	SY		Ozite Indoor/Outdoor Carpet.....	35.94	5.78
09 68 16 00-0073			Carpet Accessories (09 68 16)		
09 68 16 00-0074	LF		Metal Carpet Saddle Strip, Up To 4" Wide.....	5.15	0.79
09 68 16 00-0075			Removal And Reinstallation Of Carpet And Pad (09 68 16) Note: Includes storage, cleaning and supply materials.		
09 68 16 00-0076	SY		Removal And Reinstallation Of Carpet And Pad.....	39.83	
09 68 16 00-0077			Carpeting Support Functions (09 68 16)		
09 68 16 00-0078			Relocate Partitions, Modular Work Stations (09 68 16 00-0077) Note: Includes disassembly and reassembly of work station. Excludes electrical disconnection or reconnection.		
09 68 16 00-0079	EA		Relocate Modular Work Station.....	276.19	
09 68 16 00-0080			Installation Of Owner Provided Broadloom Carpet (09 68 16)		
09 68 16 00-0081	SY		Up To 24 Oz., Installation Of Owner Provided Broadloom Carpet.....	16.74	
			Note: Includes adhesive for glue-down or tack strip for padded installations.		
			<i>For Up To 15, Add</i>	3.28	
			<i>For >15 To 33, Add</i>	1.64	
09 68 16 00-0082	SY		>24 To 34 Oz., Installation Of Owner Provided Broadloom Carpet.....	19.48	
			Note: Includes adhesive for glue-down or tack strip for padded installations.		
			<i>For Up To 15, Add</i>	3.83	
			<i>For >15 To 33, Add</i>	1.92	
09 68 16 00-0083	SY		>34 Oz., Installation Of Owner Provided Broadloom Carpet.....	23.31	
			Note: Includes adhesive for glue-down or tack strip for padded installations.		
			<i>For Up To 15, Add</i>	4.60	
			<i>For >15 To 33, Add</i>	2.30	
09 69			Access Flooring (09 60)		
09 69 13			Rigid-Grid Access Flooring (09 69)		
09 69 13 00-0001			Panels, No Covering (09 69 13)		
09 69 13 00-0002	SF		2' x 2' Panels - No Covering Access And Pedestal Floors.....	12.62	0.79
			<i>For Carpet Covering, Add</i>	2.77	
			<i>For Vinyl Floor Covering, Add</i>	1.91	
09 69 13 00-0003	SF		2' x 2' Perforated Panels Access And Pedestal Floors.....	23.70	0.79
			<i>For Carpet Covering, Add</i>	2.77	
			<i>For Vinyl Floor Covering, Add</i>	1.91	
09 69 13 00-0004	SF		Tate 1250AS Panel Cover UTP Designer Plus Color Raf Blue 7153T.....	22.08	0.86
09 69 13 00-0005	SF		Tate 1250AS Panel Cover UTP Designer Plus Color Sage Brown 7777T.....	22.08	0.86
09 69 13 00-0006	SF		Tate 1250AS Panel Cover UTP Designer Plus Color Moondance 6808.....	22.08	0.86
09 69 13 00-0007	SF		Tate 1250AS Panel Cover UTP Designer Plus Color Mosaic 6280.....	22.08	0.86
09 69 13 00-0008	SF		Tate 1250AS Panel Cover HPL 1/8" Nevamar ST2-2 Beige Star/Brown Trim.....	20.88	0.86
09 69 13 00-0009	SF		Tate 1250AS Panel Cover HPL 1/8" Nevamar ST6-1 Gray Star/Black Trim.....	20.88	0.86
09 69 13 00-0010	SF		Tate Concore 1500 Panel Cover UTP Designer Plus Color Raf Blue 7153T.....	23.58	0.86
09 69 13 00-0011	SF		Tate Concore 1500 Panel Cover UTP Designer Plus Color Sage Brown 7777T.....	23.58	0.86
09 69 13 00-0012	SF		Tate Concore 1500 Panel Cover UTP Designer Plus Color Moondance 6808.....	23.58	0.86
09 69 13 00-0013	SF		Tate Concore 1500 Panel Cover UTP Designer Plus Color Mosaic 6280.....	23.58	0.86
09 69 13 00-0014	SF		Tate Concore 1500 Panel Cover HPL 1/8" Nevamar ST-2 Beige Star/Brown Trim.....	22.38	0.86
09 69 13 00-0015	SF		Tate Concore 1500 Panel Cover HPL 1/8" Nevamar ST6-1 Grey Star/Black Trim.....	22.38	0.86

09 Finishes**09 60 Flooring****09 69 Access Flooring**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 69 13 00-0016	SF		Tate 1250AS Perforated 25% O/A Cover 1/8 " Nevamar HPL ST2-2 Beige Star Trim	28.33	0.86
09 69 13 00-0017	SF		Tate 1250AS Perforated 25% O/A Cover 1/8 " Nevamar HPL ST6-1 Gray Star Trim.....	28.33	0.86
09 69 13 00-0018			Pedestals (09 69 13)		
09 69 13 00-0019	EA		6" To 12" Finished Floor Height, Pedestal Assembly	28.30	3.95
09 69 13 00-0020	EA		8" To 12" Finished Floor Height, Pedestal Assembly	29.80	3.95
09 69 13 00-0021	EA		18" To 24" Finished Floor Height, Pedestal Assembly.....	30.54	3.95
09 69 13 00-0022	EA		30" To 36" Finished Floor Height, Pedestal Assembly	33.26	3.95
09 69 13 00-0023			Stringers (09 69 13)		
09 69 13 00-0024	EA		2' Bolted Stringers, Access And Pedestal Floors	15.05	4.74
09 69 13 00-0025	EA		4' Bolted Stringers, Access And Pedestal Floors	25.86	7.10
09 69 13 00-0026	EA		6' Bolted Stringers, Access And Pedestal Floors	41.04	11.84
09 69 13 00-0027			Understructure (09 69 13)		
09 69 13 00-0028	SF		Standard Bolted Stringer Understructure 30" Or 36" Finished Floor Height.....	6.09	1.18
09 69 53			Access Flooring Accessories (09 69)		
09 69 53 00-0001			Accessories (09 69 53)		
09 69 53 00-0002	LF		Accessories, Handrail Access And Pedestal Floors.....	46.43	5.52
09 69 53 00-0003	LF		Accessories, Fascia Plate Access And Pedestal Floors	19.64	5.52
09 69 53 00-0004	EA		Machine Cutouts.....	152.41	
09 69 53 00-0005	SF		Hammered Aluminum Finish Fascia	33.75	2.60
			Note: Includes trim angles and hardware (8", 12", 18", 24").		
09 69 53 00-0006	EA		Cut Hole In Raised Floor And Trim With Black 1/2" Trim Material	36.24	
09 69 53 00-0007	EA		Cut Round Hole In Raised Floor And Trim Carpet Install 4" Plastic Insert (Gromtec#GT003).....	36.24	
09 69 53 00-0008	EA		Flush Mounted Electrical Box (Including Cutting Hole Trim Carpet) P/N Telo-7018-4	149.88	9.86
09 69 53 00-0009	EA		Flush Mounted Telephone Box (Grey/Black/Communications).....	107.08	9.86
			Note: Includes cut hole.		
09 69 53 00-0010	EA		Flush Mounted Electrical Box (In Existing Hole) P/N Telo 7018-4	149.88	9.86
09 69 53 00-0011	EA		Flush Mounted Telephone Box (Grey/Black/Communications) (In Existing Hole) P/N Telo-7018-2	75.52	1.58
09 69 53 00-0012			Final Cleaning For Computer Room Raised Floor System (09 69 53)		
			Note: Includes wipe dirt/dust from stringers and raised floor beneath raised floor. For new or existing systems.		
09 69 53 00-0013	SF		Vacuum Raised Floor Carpet Panel, Wipe Dirt/Dust From Stringers And Floor Beneath Raised Floor	2.70	
09 69 53 00-0014	SF		Vacuum/Shampoo Raised Floor Carpet Panel, Wipe Dirt/Dust From Stringers And Floor Beneath.....	2.79	
09 69 53 00-0015	SF		Vacuum/Wet Mop Clean Raised Floor HPL Panel Wipe Dirt/Dust Stringers And Raised Floor.....	2.76	
09 70			Wall Finishes (09)		
09 72			Wall Coverings (09 70)		
09 72 13			Cork Wall Coverings (09 72)		
09 72 13 00-0001			Cork Wall Covering (09 72 13)		
09 72 13 00-0002	SF		1/8" Cork Wall Covering.....	4.97	0.93
09 72 13 00-0003	SF		1/4" Cork Wall Covering.....	5.87	0.93
09 72 13 00-0004	SF		1/2" Cork Wall Covering.....	6.58	0.93
09 72 13 00-0005	SF		3/4" Cork Wall Covering.....	8.68	0.93
09 72 16			Vinyl-Coated Fabric Wall Coverings (09 72)		
09 72 16 13			Flexible Vinyl Wall Coverings (09 72 16)		
09 72 16 13-0001			Vinyl Wall Coverings (09 72 16 13)		
			Note: Includes wall preparation adhesive, and sizing compound. Demolition includes the removal of wall covering and adhesive.		
09 72 16 13-0002	SF		7-10 Oz/SY Vinyl Wall Covering	3.08	0.93
			For Owner Furnished Material, Deduct	-1.63	
09 72 16 13-0003	SF		11-14 Oz/SY Vinyl Wall Covering	3.92	0.93
			For Owner Furnished Material, Deduct	-2.37	
09 72 16 13-0004	SF		15-19 Oz/SY Vinyl Wall Covering.....	4.52	0.93
			For Owner Furnished Material, Deduct	-2.97	
09 72 16 13-0005	SF		20 To 25 Ounces/SY Vinyl Wall Covering.....	5.38	0.93
			For Owner Furnished Material, Deduct	-3.43	
09 72 16 13-0006	SF		26-32 Oz/SY Vinyl Wall Covering	6.20	0.93
			For Owner Furnished Material, Deduct	-4.17	
09 72 16 13-0007	SF		33-38 Oz/SY Vinyl Wall Covering	7.40	0.93
			For Owner Furnished Material, Deduct	-5.27	
09 72 23			Wallpapering (09 72)		



Finishes	09	9
Wall Finishes	09 70	
Wall Coverings	09 72	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 72 23 00-0001 Wallpaper Coverings <small>(09 72 23)</small>		
Note: Includes wall preparation adhesive, and sizing compound. Demolition includes the removal of wall covering and adhesive.		
09 72 23 00-0002 SF Average Quality Wallpaper (Standard Grade)	2.25	1.24
09 72 23 00-0003 SF High Quality Wallpaper (Designer Grade)	3.65	1.58
09 72 23 00-0004 SF Textured Paintable Paper Installed On Ceiling	3.36	2.34
 09 73 Wall Carpeting <small>(09 70)</small>		
09 73 00 00-0001 Carpet Wall Covering <small>(09 73)</small>		
09 73 00 00-0002 SY 28 Ounce, Nylon Carpet Wall Covering	50.68	31.44
09 73 00 00-0003 SY 32 Ounce, Nylon Carpet Wall Covering	51.66	31.44
09 73 00 00-0004 SY 34 Ounce, Nylon Carpet Wall Covering	56.08	33.86
09 73 00 00-0005 SY 35 Ounce, Nylon Carpet Wall Covering	59.36	33.86
09 73 00 00-0006 SY 36 Ounce, Nylon Carpet Wall Covering	62.73	33.86
09 73 00 00-0007 SY 38 Ounce, Nylon Carpet Wall Covering	63.92	33.86
09 73 00 00-0008 SY 40 Ounce, Nylon Carpet Wall Covering	66.37	36.57
09 73 00 00-0009 SY 42 Ounce, Nylon Carpet Wall Covering	69.02	36.57
 09 74 Flexible Wood Sheets <small>(09 70)</small>		
09 74 16 Flexible Wood Veneers <small>(09 74)</small>		
09 74 16 00-0001 Flexible Wood Veneer <small>(09 74 16)</small>		
09 74 16 00-0002 SF 1/32" Thick, Flexible Maple Wood Veneer	9.75	3.73
09 74 16 00-0003 SF 1/32" Thick, Flexible Oak Wood Veneer	9.89	3.73
09 74 16 00-0004 SF 1/32" Thick, Flexible Mahogany Wood Veneer	9.89	3.73
09 74 16 00-0005 SF 1/32" Thick, Flexible Birch Wood Veneer	10.04	3.73
09 74 16 00-0006 SF 1/32" Thick, Flexible Walnut Wood Veneer	10.75	3.73
09 74 16 00-0007 SF 1/32" Thick, Flexible Bamboo Wood Veneer	11.61	3.73
09 74 16 00-0008 SF 1/32" Thick, Flexible Fir Wood Veneer	12.62	3.73
09 74 16 00-0009 Flexible Exotic Wood Veneer <small>(09 74 16)</small>		
09 74 16 00-0010 SF 1/32" Thick, Flexible Exotic Wood Veneer	15.10	3.73
 09 77 Special Wall Surfacing <small>(09 70)</small>		
09 77 11 Special Wall Panels <small>(09 77)</small>		
09 77 11 00-0001 Corian Wall Panels <small>(09 77 11)</small>		
09 77 11 00-0002 Wall Panels <small>(09 77 11 00-0001)</small>		
09 77 11 00-0003 SF 1/4" Corian Wall Panels, Sea Grass	38.05	5.86
For >500, Deduct	2.63	
09 77 11 00-0004 SF 1/4" Corian Wall Panels, Aqua	45.30	5.86
For >500, Deduct	3.36	
09 77 11 00-0005 SF 1/4" Corian Wall Panels, Everest	48.28	5.86
For >500, Deduct	3.66	
09 77 11 00-0006 Corian Corner Guards For Wall Panels <small>(09 77 11 00-0001)</small>		
09 77 11 00-0007 SF 1/2" Curved Corner Guard For Corian Wall Panels, Sea Grass	101.68	4.68
09 77 11 00-0008 SF 1/2" Curved Corner Guard For Corian Wall Panels, Aqua	109.69	4.68
09 77 11 00-0009 SF 1/2" Curved Corner Guard For Corian Wall Panels, Everest	99.29	4.68
 09 80 Acoustic Treatment <small>(09)</small>		
09 81 Acoustic Insulation <small>(09 80)</small>		
09 81 16 Acoustic Blanket Insulation <small>(09 81)</small>		
09 81 16 00-0001 Sound Attenuation Fire Blankets (SAFB) <small>(09 81 16)</small>		
09 81 16 00-0002 2.5 PCF Density, Sound Attenuation Fire Blankets (SAFB) <small>(09 81 16 00-0001)</small>		
09 81 16 00-0003 SF 1-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.92	0.35
09 81 16 00-0004 SF 2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.05	0.35
09 81 16 00-0005 SF 2-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.24	0.35
09 81 16 00-0006 SF 3" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.38	0.35
09 81 16 00-0007 SF 3-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.56	0.35
09 81 16 00-0008 SF 4" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.74	0.35
09 81 16 00-0009 SF 5" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.97	0.35
09 81 16 00-0010 SF 6" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	3.23	0.35
09 81 16 00-0011 4 PCF Density, Sound Attenuation Fire Blankets (SAFB) <small>(09 81 16 00-0001)</small>		
09 81 16 00-0012 SF 1" Thick, 4 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.89	0.35

09	09 Finishes
	09 80 Acoustic Treatment
	09 81 Acoustic Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 81 16 00-0013	Sound Attenuation Batts <small>(09 81 16)</small>		
	<small>Note: NoiseReducer® by Certainteed, Quitezone® by Owens Corning, Sound-Shield® by Johns Mansville.</small>		
09 81 16 00-0014	SF 2-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.21	0.47
09 81 16 00-0015	SF 3-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.28	0.47
09 81 16 00-0016	SF 3-1/2" Thick, Kraft Faced Sound Attenuation Batt.....	1.33	0.47
09 81 16 00-0017	SF 5-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.46	0.47
09 81 16 00-0018	SF 5-1/2" Thick, Kraft Faced Sound Attenuation Batt.....	1.50	0.47
09 81 16 00-0019	SF 6-1/4" Thick, Unfaced Sound Attenuation Batt.....	1.49	0.47
09 81 16 00-0020	SF 6-1/4" Thick, Kraft Faced Sound Attenuation Batt.....	1.54	0.47

09 84 Acoustic Room Components (09 80)

09 84 13 Fixed Sound-Absorptive Panels (09 84)

09 84 13 00-0001	Sound Absorbing Panels And Attenuation Blankets <small>(09 84 13)</small>		
	<small>Note: No backs, 3" thick modular, ceiling or wall hung back. Excludes ceiling suspension systems and wall furring system. See CSI section 09 22 13 00-0000 for furring, 09 53 23 00-0000 for suspended ceiling support.</small>		
09 84 13 00-0002	SF 3" Thick Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler.....	10.68	2.34
09 84 13 00-0003	SF 1" Thick Fiberglass Sound Absorbing Panels With Glass Cloth Face For Walls.....	15.46	2.34

09 84 13 00-0004 **Sound Absorbing Acoustical Wall Panel System** (09 84 13)

09 84 13 00-0005	Fiberglass, Sound Absorbing Wall Panel System <small>(09 84 13 00-0004)</small>		
	<small>Note: Includes molding and mounting hardware for flush mount. All panels are 3/4" thick.</small>		
09 84 13 00-0006	SF Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Tek-Wall).....	16.97	2.64
09 84 13 00-0007	SF Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Adorn)	20.39	2.64

09 84 13 00-0008 **Sound Absorbing Panel, Eggcrate Style** (09 84 13)

	<small>Note: Ceiling or wall hung back.</small>		
09 84 13 00-0009	SF 2" Thick Polyurethane Sound Wave (Eggcrate Style).....	10.39	
	<i>For Pyramid Style, Add</i>	1.18	
09 84 13 00-0010	SF 3" Thick Polyurethane Sound Wave (Eggcrate Style).....	13.39	
	<i>For Pyramid Style, Add</i>	1.18	
09 84 13 00-0011	SF 4" Thick Polyurethane Sound Wave (Eggcrate Style).....	17.06	
	<i>For Pyramid Style, Add</i>	1.18	
09 84 13 00-0012	SF 2" Thick Melamine Sound Wave (Eggcrate Style)	12.94	
	<i>For Eggcrate Style With Hypalon Coating, Add</i>	1.97	
	<i>For Pyramid Style, Add</i>	2.05	
	<i>For Pyramid Style With Hypalon Coating, Add</i>	4.02	
09 84 13 00-0013	SF 3" Thick Melamine Sound Wave (Eggcrate Style)	27.41	
	<i>For Eggcrate Style With Hypalon Coating, Add</i>	1.97	
	<i>For Pyramid Style, Add</i>	0.42	
	<i>For Pyramid Style With Hypalon Coating, Add</i>	2.40	
09 84 13 00-0014	SF 4" Thick Melamine Sound Wave (Eggcrate Style)	34.93	
	<i>For Eggcrate Style With Hypalon Coating, Add</i>	1.97	
	<i>For Pyramid Style, Add</i>	0.42	
	<i>For Pyramid Style With Hypalon Coating, Add</i>	2.40	

09 84 13 00-0015 **Sound Deadening Fiberboard** (09 84 13)

09 84 13 00-0016	SF 1/2" Sound Deadening Fiberboard.....	1.92	0.58
	<i>For Horizontal Installation Up To 10' High, Add</i>	0.36	
	<i>For Horizontal Installation >10' High, Add</i>	0.54	
	<i>For Walls >10' High, Add</i>	0.09	
	<i>For Up To 128, Add</i>	0.60	
	<i>For >128 To 320, Add</i>	0.35	

09 90 Painting and Coating (09)

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in. See CSI section 01 56 16 00-0001 for temporary plastic sheeting to protect existing equipment or materials, 09 01 20 00-0000 for severely damaged surface preparation in excess of items included above, hand scrape, pressure washing and chemical cleaning where required.

09 91 Painting (09 90)

09 91 13 Exterior Painting (09 91)

Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.

09 91 13 00-0001	Paint Exterior Walls/Siding <small>(09 91 13)</small>
09 91 13 00-0002	Paint Exterior Brick Walls <small>(09 91 13 00-0001)</small>



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0003 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Brick Walls.....	0.23	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.11	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.15	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.05	
09 91 13 00-0004 SF 1 Coat Filler, Brush Work, Paint Exterior Brick Walls.....	0.99	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0005 SF 1 Coat Paint, Brush Work, Paint Exterior Brick Walls	1.42	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.49	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0006 SF 2 Coats Paint, Brush Work, Paint Exterior Brick Walls	2.03	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.29	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.41	
09 91 13 00-0007 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls	0.66	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0008	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.08	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0009	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.59	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.93	
			<i>For >100 To 250, Add</i>	0.45	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.16	
			<i>For >10,000 To 20,000, Deduct</i>	-0.24	
			<i>For >20,000, Deduct</i>	-0.32	
09 91 13 00-0010	SF	1	Coat Filler, Sprayed, Paint Exterior Brick Walls.....	0.59	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.33	
			<i>For >100 To 250, Add</i>	0.16	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0011	SF	1	Coat Paint, Sprayed, Paint Exterior Brick Walls.....	0.58	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.27	
			<i>For >100 To 250, Add</i>	0.14	
			<i>For >250 To 500, Add</i>	0.06	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0012	SF	2	Coats Paint, Sprayed, Paint Exterior Brick Walls.....	1.25	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.66	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.25	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0013 Paint Exterior Concrete Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0014 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Walls	0.15	
For Oil Based Paint, Add	0.01	
For Epoxy Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.03	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.05	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.07	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.10	
For >100 To 250, Add	0.05	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.02	
For >20,000, Deduct	-0.03	
09 91 13 00-0015 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	0.85	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0016 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	0.92	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0017 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Walls	1.74	
For Oil Based Paint, Add	0.10	
For Epoxy Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0018	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.68	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0019	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.77	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	
09 91 13 00-0020	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.30	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.43	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.59	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.84	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.26	
09 91 13 00-0021	SF		1 Coat Filler, Sprayed, Paint Exterior Concrete Walls.....	0.53	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.09	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.20	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0022 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Walls.....	0.49	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.09	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.14	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.19	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.28	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.10	
09 91 13 00-0023 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Walls	0.84	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0024 Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0025 Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0024)		
09 91 13 00-0026 LF 1 Coat Epoxy Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.21	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.13	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0027 SF 1 Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls	1.16	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0028	SF		1 Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	1.34	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.61	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0029	SF		2 Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	2.33	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.74	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.01	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.45	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 91 13 00-0030	SF		1 Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls	0.94	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0031	SF		1 Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.05	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0032	SF		2 Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.86	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.34	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.55	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.75	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0033 SF 1 Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.69	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.34	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 13 00-0034 SF 1 Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls	0.77	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.19	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.26	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0035 SF 2 Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.47	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.47	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0036 Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0024)		
09 91 13 00-0037 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls	0.21	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.13	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0038 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls	1.08	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0039	SF		1 Coat Paint, Brush Work, Paint Exterior Concrete Block Walls	1.28	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0040	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Block Walls	2.32	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.47	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.76	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.04	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.48	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.46	
09 91 13 00-0041	SF		Texture Coat, Brush Work, Paint Exterior Concrete Block Walls	1.42	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.30	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.65	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0042	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls	0.85	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.38	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0043	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.08	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.47	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.22	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0044 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.84	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.56	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.78	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 13 00-0045 SF Texture Coat, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.20	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0046 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.74	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0047 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls.....	0.78	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0048 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.22	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.49	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0049	SF		Texture Coat, Sprayed, Paint Exterior Concrete Block Walls	0.99	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.27	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.37	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0050			Paint Exterior Drywall/Plaster Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0051	LF	1	Coat Paint, Cut-in Brush Work, Paint Exterior Drywall/Plaster Walls	0.16	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.08	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.11	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.02	
			For >20,000, Deduct	-0.03	
			For Epoxy Paint, Add	0.01	
09 91 13 00-0052	SF	1	Coat Primer, Brush Work, Paint Exterior Drywall/Plaster Wall	0.87	
			For Oil Based Paint, Add	0.05	
			For Orange Peel Finish, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
			For Epoxy Paint, Add	0.09	
09 91 13 00-0053	SF	1	Coat Paint, Brush Work, Paint Exterior Drywall/Plaster Walls	0.95	
			For Oil Based Paint, Add	0.05	
			For Orange Peel Finish, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
			For Epoxy Paint, Add	0.08	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0054 SF 2 Coats Paint, Brush Work, Paint Exterior Drywall/Plaster Walls.....	1.74	
For Oil Based Paint, Add	0.10	
For Orange Peel Finish, Add	0.25	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
For Epoxy Paint, Add	0.15	
09 91 13 00-0055 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Drywall/Plaster Walls.....	0.69	
For Oil Based Paint, Add	0.04	
For Orange Peel Finish, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
For Epoxy Paint, Add	0.08	
09 91 13 00-0056 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Walls.....	0.69	
For Oil Based Paint, Add	0.04	
For Orange Peel Finish, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
For Epoxy Paint, Add	0.07	
09 91 13 00-0057 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Walls.....	1.27	
For Oil Based Paint, Add	0.07	
For Orange Peel Finish, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
For Epoxy Paint, Add	0.13	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0058	SF		1 Coat Primer, Sprayed, Paint Exterior Drywall/Plaster Walls	0.53	
			For Oil Based Paint, Add	0.03	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.09	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.20	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
			For Epoxy Paint, Add	0.07	
09 91 13 00-0059	SF		1 Coat Paint, Sprayed, Paint Exterior Drywall/Plaster Walls	0.58	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.11	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.18	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
			For Epoxy Paint, Add	0.07	
09 91 13 00-0060	SF		2 Coats Paint, Sprayed, Paint Exterior Drywall/Plaster Walls	0.93	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
			For Epoxy Paint, Add	0.13	
09 91 13 00-0061			Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0062			Paint Exterior Galvanized Walls (09 91 13 00-0061)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0063	SF		1 Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces	1.04	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0064 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.16	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0065 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	2.11	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.31	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	
09 91 13 00-0066 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	0.78	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0067 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls.....	0.91	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0068 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls.....	1.69	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0069	SF	1	Coat Primer, Sprayed, Paint Exterior Galvanized Walls.....	0.58	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.28	
			<i>For >100 To 250, Add</i>	0.14	
			<i>For >250 To 500, Add</i>	0.06	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0070	SF	1	Coat Paint, Sprayed, Paint Exterior Galvanized Walls.....	0.78	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 13 00-0071	SF	2	Coats Paint, Sprayed, Paint Exterior Galvanized Walls.....	1.30	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.66	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.26	
09 91 13 00-0072			Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0061)		
			<i>Note: Alkyd enamel paint.</i>		
09 91 13 00-0073	SF	1	Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 13 00-0074	SF	1	Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.16	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.74	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.23	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0075 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	2.10	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.31	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	
09 91 13 00-0076 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.85	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0077 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.97	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0078 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	1.82	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.05	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0079 SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	0.65	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0080 SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.78	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0081 SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls.....	1.30	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0082 Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0081)		
09 91 13 00-0083 LF 1 Coat Primer, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	13.02	
For Work >15' To 20' Above Floor, Add	1.76	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	2.93	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	4.69	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	6.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	8.99	
For >100 To 250, Add	4.23	
For >250 To 500, Add	1.82	
For >2,500 To 5,000, Deduct	-0.65	
For >5,000 To 10,000, Deduct	-1.30	
For >10,000 To 20,000, Deduct	-1.95	
For >20,000, Deduct	-2.60	
09 91 13 00-0084 LF 1 Coat Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	14.48	
For Work >15' To 20' Above Floor, Add	1.95	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	3.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	5.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	7.16	
Note: Applied only to work area above 40'.		
For Up To 100, Add	9.98	
For >100 To 250, Add	4.70	
For >250 To 500, Add	2.03	
For >2,500 To 5,000, Deduct	-0.72	
For >5,000 To 10,000, Deduct	-1.45	
For >10,000 To 20,000, Deduct	-2.17	
For >20,000, Deduct	-2.90	
09 91 13 00-0085 LF 2 Coats Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	27.07	
For Work >15' To 20' Above Floor, Add	3.67	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	6.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	9.79	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	13.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	18.74	
For >100 To 250, Add	8.82	
For >250 To 500, Add	3.80	
For >2,500 To 5,000, Deduct	-1.35	
For >5,000 To 10,000, Deduct	-2.71	
For >10,000 To 20,000, Deduct	-4.06	
For >20,000, Deduct	-5.41	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0086 Paint Exterior Corrugated Metal Walls <small>(09 91 13 00-0061)</small>		
09 91 13 00-0087 SF 1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Walls.....	0.74	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.24	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0088 SF 1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Walls.....	1.00	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0089 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Walls	1.65	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.88	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0090 Paint Exterior Stucco Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0091 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Stucco Wall Surfaces	0.26	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.06	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.09	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.13	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.18	
For >100 To 250, Add	0.08	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.04	
For >20,000, Deduct	-0.05	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0092	SF	1	Coat Primer, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.46	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.72	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.00	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91 13 00-0093	SF	1	Coat Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.61	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.57	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.78	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.09	
			<i>For >100 To 250, Add</i>	0.52	
			<i>For >250 To 500, Add</i>	0.22	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.16	
			<i>For >10,000 To 20,000, Deduct</i>	-0.24	
			<i>For >20,000, Deduct</i>	-0.32	
09 91 13 00-0094	SF	2	Coats Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	2.97	
			<i>For Oil Based Paint, Add</i>	0.17	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.65	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	1.04	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	1.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	2.00	
			<i>For >100 To 250, Add</i>	0.94	
			<i>For >250 To 500, Add</i>	0.41	
			<i>For >2,500 To 5,000, Deduct</i>	-0.15	
			<i>For >5,000 To 10,000, Deduct</i>	-0.30	
			<i>For >10,000 To 20,000, Deduct</i>	-0.45	
			<i>For >20,000, Deduct</i>	-0.59	
09 91 13 00-0095	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.09	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.72	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0096	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.24	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.82	
			<i>For >100 To 250, Add</i>	0.39	
			<i>For >250 To 500, Add</i>	0.17	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.25	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0097 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	2.28	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.48	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.46	
09 91 13 00-0098 SF 1 Coat Primer, Sprayed, Paint Exterior Stucco Walls.....	0.74	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0099 SF 1 Coat Paint, Sprayed, Paint Exterior Stucco Walls.....	0.90	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.53	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0100 SF 2 Coats Paint, Sprayed, Paint Exterior Stucco Walls.....	1.74	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.05	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	

09 91 13 00-0101 Paint Exterior Wood Siding (09 91 13 00-0001)

09 91 13 00-0102 Paint Exterior Smooth Wood Siding (09 91 13 00-0101)

Note: Includes tongue and groove, beveled, drop or board and batten siding.

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0103	LF	1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Siding.....	0.19	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.02	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.04	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.12	
			<i>For >100 To 250, Add</i>	0.06	
			<i>For >250 To 500, Add</i>	0.03	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.03	
			<i>For >20,000, Deduct</i>	-0.04	
09 91	13 00-0104	SF	1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding.....	1.05	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91	13 00-0105	SF	1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	1.10	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.22	
09 91	13 00-0106	SF	2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	1.97	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.66	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.91	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.29	
			<i>For >100 To 250, Add</i>	0.61	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000, Deduct</i>	-0.39	
09 91	13 00-0107	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	0.82	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.48	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0108 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	0.90	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0109 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.68	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 13 00-0110 SF 1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.61	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0111 SF 1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	0.74	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0112 SF 2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.18	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

09	09 Finishes
	09 90 Painting and Coating
	09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0113 Paint Exterior Rough Wood Siding <small>(09 91 13 00-0101)</small>		
<i>Note: Includes shingles, shakes or rough sawn siding.</i>		
09 91 13 00-0114 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	1.64	
<i>For Oil Based Paint, Add</i>	0.09	
<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.36	
<i>Note: Applied only to work area above 20'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.57	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	0.78	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	1.10	
<i>For >100 To 250, Add</i>	0.52	
<i>For >250 To 500, Add</i>	0.22	
<i>For >2,500 To 5,000, Deduct</i>	-0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.16	
<i>For >10,000 To 20,000, Deduct</i>	-0.25	
<i>For >20,000, Deduct</i>	-0.33	
09 91 13 00-0115 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	1.65	
<i>For Oil Based Paint, Add</i>	0.09	
<i>For Work >15' To 20' Above Floor, Add</i>	0.22	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.37	
<i>Note: Applied only to work area above 20'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.60	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	0.82	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	1.14	
<i>For >100 To 250, Add</i>	0.54	
<i>For >250 To 500, Add</i>	0.23	
<i>For >2,500 To 5,000, Deduct</i>	-0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.17	
<i>For >10,000 To 20,000, Deduct</i>	-0.25	
<i>For >20,000, Deduct</i>	-0.33	
09 91 13 00-0116 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	3.04	
<i>For Oil Based Paint, Add</i>	0.17	
<i>For Work >15' To 20' Above Floor, Add</i>	0.41	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.68	
<i>Note: Applied only to work area above 20'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	1.09	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	1.50	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	2.09	
<i>For >100 To 250, Add</i>	0.98	
<i>For >250 To 500, Add</i>	0.42	
<i>For >2,500 To 5,000, Deduct</i>	-0.15	
<i>For >5,000 To 10,000, Deduct</i>	-0.30	
<i>For >10,000 To 20,000, Deduct</i>	-0.46	
<i>For >20,000, Deduct</i>	-0.61	
09 91 13 00-0117 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.40	
<i>For Oil Based Paint, Add</i>	0.09	
<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
<i>Note: Applied only to work area above 20'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.42	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	0.58	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	0.84	
<i>For >100 To 250, Add</i>	0.40	
<i>For >250 To 500, Add</i>	0.18	
<i>For >2,500 To 5,000, Deduct</i>	-0.07	
<i>For >5,000 To 10,000, Deduct</i>	-0.14	
<i>For >10,000 To 20,000, Deduct</i>	-0.21	
<i>For >20,000, Deduct</i>	-0.28	
09 91 13 00-0118 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	1.53	
<i>For Oil Based Paint, Add</i>	0.09	
<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.30	
<i>Note: Applied only to work area above 20'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.47	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	0.65	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	0.94	
<i>For >100 To 250, Add</i>	0.45	
<i>For >250 To 500, Add</i>	0.19	
<i>For >2,500 To 5,000, Deduct</i>	-0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.15	
<i>For >10,000 To 20,000, Deduct</i>	-0.23	
<i>For >20,000, Deduct</i>	-0.31	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0119 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	2.82	
For Oil Based Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.85	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.17	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.70	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 13 00-0120 SF 1 Coat Primer, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	0.96	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0121 SF 1 Coat Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.08	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 13 00-0122 SF 2 Coats Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	2.03	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.41	

09 91 13 00-0123 Paint Exterior Vinyl Siding (09 91 13 00-0001)

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0124	LF	1 Coat Paint, Cut-in Brush Work, Paint Exterior Vinyl Siding.....	0.16	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.03	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.05	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.07	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.10	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.02	
			For >20,000, Deduct	-0.03	
09 91	13 00-0125	SF	1 Coat Primer, Brush Work, Paint Exterior Vinyl Siding.....	0.90	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91	13 00-0126	SF	1 Coat Paint, Brush Work, Paint Exterior Vinyl Siding	0.99	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.44	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91	13 00-0127	SF	2 Coats Paint, Brush Work, Paint Exterior Vinyl Siding.....	1.82	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.57	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.78	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91	13 00-0128	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Vinyl Siding.....	0.81	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0129 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Vinyl Siding.....	0.81	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0130 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Vinyl Siding.....	1.49	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
09 91 13 00-0131 SF 1 Coat Primer, Sprayed, Paint Exterior Vinyl Siding.....	0.66	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0132 SF 1 Coat Paint, Sprayed, Paint Exterior Vinyl Siding.....	0.74	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0133 SF 2 Coats Paint, Sprayed, Paint Exterior Vinyl Siding.....	1.45	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	

09 Finishes

09 90 Painting and Coating

09 91 Painting


 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

09 91 13 00-0134	Paint Exterior Ceilings <small>(09 91 13)</small>		
09 91 13 00-0135	Paint Exterior Concrete Ceilings <small>(09 91 13 00-0134)</small>		
09 91 13 00-0136	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Ceiling	0.18	
	For Oil Based Paint, Add	0.01	
	For Epoxy Paint, Add	0.02	
	For Work >15' To 20' Above Floor, Add	0.02	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.04	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.06	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.09	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.12	
	For >100 To 250, Add	0.06	
	For >250 To 500, Add	0.03	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.04	
09 91 13 00-0137	SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling	0.96	
	For Oil Based Paint, Add	0.06	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.21	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.33	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.45	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.64	
	For >100 To 250, Add	0.30	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.19	
09 91 13 00-0138	SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling	1.05	
	For Oil Based Paint, Add	0.06	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.24	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.38	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.52	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.72	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.16	
	For >20,000, Deduct	-0.21	
09 91 13 00-0139	SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling	1.87	
	For Oil Based Paint, Add	0.10	
	For Epoxy Paint, Add	0.16	
	For Work >15' To 20' Above Floor, Add	0.25	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.41	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.66	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.91	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.27	
	For >100 To 250, Add	0.60	
	For >250 To 500, Add	0.26	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.28	
	For >20,000, Deduct	-0.37	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0140 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.73	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0141 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	0.82	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0142 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	1.52	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.01	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0143 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling	0.55	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0144	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling.....	0.66	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.21	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0145	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling.....	1.05	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0146			Drywall/Plaster (09 91 13 00-0134)		
09 91 13 00-0147	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Drywall/Plaster Ceiling.....	0.18	
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.09	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.12	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
			For Epoxy Paint, Add	0.02	
09 91 13 00-0148	SF		1 Coat Primer, Brush Work, Paint Exterior Drywall/Plaster Ceiling.....	0.97	
			For Oil Based Paint, Add	0.06	
			For Orange Peel Finish, Add	0.14	
			For Epoxy Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
			For Epoxy Paint, Add	0.09	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0149 SF 1 Coat Paint, Brush Work, Paint Exterior Drywall/Plaster Ceiling	1.05	
For Oil Based Paint, Add	0.06	
For Orange Peel Finish, Add	0.15	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
For Epoxy Paint, Add	0.09	
09 91 13 00-0150 SF 2 Coats Paint, Brush Work, Paint Exterior Drywall/Plaster Ceiling	1.87	
For Oil Based Paint, Add	0.10	
For Orange Peel Finish, Add	0.27	
For Epoxy Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.27	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
For Epoxy Paint, Add	0.16	
09 91 13 00-0151 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Drywall/Plaster Ceiling	0.72	
For Oil Based Paint, Add	0.04	
For Orange Peel Finish, Add	0.10	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
For Epoxy Paint, Add	0.08	
09 91 13 00-0152 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Ceiling.....	0.82	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.12	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
For Epoxy Paint, Add	0.07	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0153	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Ceiling	1.52	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Orange Peel Finish, Add</i>	0.21	
			<i>For Epoxy Paint, Add</i>	0.14	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.72	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.01	
			<i>For >100 To 250, Add</i>	0.48	
			<i>For >250 To 500, Add</i>	0.21	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.23	
			<i>For >20,000, Deduct</i>	-0.30	
			<i>For Epoxy Paint, Add</i>	0.14	
09 91 13 00-0154	SF		1 Coat Primer, Sprayed, Paint Exterior Drywall/Plaster Ceiling	0.55	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.32	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
			<i>For Epoxy Paint, Add</i>	0.08	
09 91 13 00-0155	SF		1 Coat Paint, Sprayed, Paint Exterior Drywall/Plaster Ceiling.....	0.67	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.42	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
			<i>For Epoxy Paint, Add</i>	0.08	
09 91 13 00-0156	SF		2 Coats Paint, Sprayed, Paint Exterior Drywall/Plaster Ceiling.....	1.05	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.13	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.63	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
			<i>For Epoxy Paint, Add</i>	0.13	

09 91 13 00-0157 Paint Exterior Wood Ceilings (09 91 13 00-0134)

09 91 13 00-0158 Paint Exterior Smooth Wood Ceilings (09 91 13 00-0157)



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0159 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Ceiling.....	0.20	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.13	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0160 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.17	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
09 91 13 00-0161 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.22	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0162 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	2.21	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.04	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.47	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0163 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	0.93	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0164	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.02	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 13 00-0165	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.80	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.57	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.78	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.12	
			<i>For >100 To 250, Add</i>	0.54	
			<i>For >250 To 500, Add</i>	0.23	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.36	
09 91 13 00-0166	SF	1	Coat Primer, Sprayed, Paint Exterior Smooth Wood Ceiling	0.68	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 13 00-0167	SF	1	Coat Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	0.68	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 13 00-0168	SF	2	Coats Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	1.23	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.25	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0169 Paint Exterior Rough Wood Ceilings (09 91 13 00-0157)		
09 91 13 00-0170 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Rough Ceiling.....	1.75	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.59	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.81	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.15	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0171 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Rough Ceiling.....	1.81	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.26	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0172 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Rough Ceiling.....	3.15	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.42	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.71	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.13	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.17	
For >100 To 250, Add	1.02	
For >250 To 500, Add	0.44	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.32	
For >10,000 To 20,000, Deduct	-0.47	
For >20,000, Deduct	-0.63	
09 91 13 00-0173 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	1.53	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.94	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0174 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	1.65	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0175 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	2.93	
For Oil Based Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.56	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.89	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.78	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.37	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.44	
For >20,000, Deduct	-0.59	
09 91 13 00-0176 SF 1 Coat Primer, Sprayed, Paint Exterior Rough Wood Ceiling	1.08	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 13 00-0177 SF 1 Coat Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.21	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0178 SF 2 Coats Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	2.17	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.63	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.87	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.27	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.43	

09 91 13 00-0179 Paint Exterior Metal Ceilings (09 91 13 00-0134)

09 91 13 00-0180 Paint Exterior Galvanized Ceilings (09 91 13 00-0179)
Note: Linseed oil or acrylic latex paint.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0181 SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Ceiling.....	1.16	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0182 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Ceiling.....	1.28	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0183 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Ceiling.....	2.34	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.04	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.49	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	
09 91 13 00-0184 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	0.90	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0185 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.01	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0186	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.79	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.57	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.78	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.12	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91 13 00-0187	SF		1 Coat Primer, Sprayed, Paint Exterior Galvanized Ceiling.....	0.78	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.21	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0188	SF		1 Coat Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	0.90	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0189	SF		2 Coats Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.43	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.50	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	
09 91 13 00-0190			Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0179)		
			Note: Alkyd enamel paint.		
09 91 13 00-0191	SF		1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.16	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0192 SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.28	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0193 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	2.34	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.04	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.49	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	
09 91 13 00-0194 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	0.97	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0195 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 13 00-0196 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.94	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.57	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.78	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.14	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.39	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0197	SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling	0.78	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.29	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.43	
	<i>For >100 To 250, Add</i>	0.21	
	<i>For >250 To 500, Add</i>	0.09	
	<i>For >2,500 To 5,000, Deduct</i>	-0.04	
	<i>For >5,000 To 10,000, Deduct</i>	-0.08	
	<i>For >10,000 To 20,000, Deduct</i>	-0.12	
	<i>For >20,000, Deduct</i>	-0.16	
09 91 13 00-0198	SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	0.78	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.29	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.43	
	<i>For >100 To 250, Add</i>	0.21	
	<i>For >250 To 500, Add</i>	0.09	
	<i>For >2,500 To 5,000, Deduct</i>	-0.04	
	<i>For >5,000 To 10,000, Deduct</i>	-0.08	
	<i>For >10,000 To 20,000, Deduct</i>	-0.12	
	<i>For >20,000, Deduct</i>	-0.16	
09 91 13 00-0199	SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.43	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.50	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.76	
	<i>For >100 To 250, Add</i>	0.37	
	<i>For >250 To 500, Add</i>	0.16	
	<i>For >2,500 To 5,000, Deduct</i>	-0.07	
	<i>For >5,000 To 10,000, Deduct</i>	-0.14	
	<i>For >10,000 To 20,000, Deduct</i>	-0.21	
	<i>For >20,000, Deduct</i>	-0.29	
09 91 13 00-0200	Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0179)		
09 91 13 00-0201	SF 1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	0.86	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.14	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.22	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.31	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.47	
	<i>For >100 To 250, Add</i>	0.23	
	<i>For >250 To 500, Add</i>	0.10	
	<i>For >2,500 To 5,000, Deduct</i>	-0.04	
	<i>For >5,000 To 10,000, Deduct</i>	-0.09	
	<i>For >10,000 To 20,000, Deduct</i>	-0.13	
	<i>For >20,000, Deduct</i>	-0.17	
09 91 13 00-0202	SF 1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.00	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.18	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.28	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.39	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.57	
	<i>For >100 To 250, Add</i>	0.28	
	<i>For >250 To 500, Add</i>	0.12	
	<i>For >2,500 To 5,000, Deduct</i>	-0.05	
	<i>For >5,000 To 10,000, Deduct</i>	-0.10	
	<i>For >10,000 To 20,000, Deduct</i>	-0.15	
	<i>For >20,000, Deduct</i>	-0.20	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0203 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.81	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.67	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
 09 91 13 00-0204 Paint Exterior Floors (09 91 13)		
09 91 13 00-0205 Paint Exterior Concrete Floors (09 91 13 00-0204)		
09 91 13 00-0206 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Floors And Decks.....	0.14	
For Up To 100, Add	0.09	
For >100 To 250, Add	0.04	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.01	
For >10,000 To 20,000, Deduct	-0.02	
For >20,000, Deduct	-0.03	
09 91 13 00-0207 SF 1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.73	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0208 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks	0.82	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0209 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks	1.52	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.14	
For Up To 100, Add	1.01	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0210 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.61	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0211 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.70	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0212 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	1.14	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.12	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0213 SF 1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks	0.42	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.22	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 91 13 00-0214 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.53	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.31	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0215 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.93	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.13	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0216 SF 1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	1.87	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 13 00-0217 SF 1 Coat Anti-Slip, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	4.33	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.22	
For >5,000 To 10,000, Deduct	-0.43	
For >10,000 To 20,000, Deduct	-0.65	
For >20,000, Deduct	-0.87	
09 91 13 00-0218 SF 1 Coat Anti-Slip High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	5.37	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.33	
For >2,500 To 5,000, Deduct	-0.27	
For >5,000 To 10,000, Deduct	-0.54	
For >10,000 To 20,000, Deduct	-0.81	
For >20,000, Deduct	-1.07	
09 91 13 00-0219 Paint Exterior Wood Floors (09 91 13 00-0204)		
09 91 13 00-0220 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Floors And Decks.....	0.17	
For Up To 100, Add	0.11	
For >100 To 250, Add	0.05	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.03	
09 91 13 00-0221 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Floors And Decks	0.90	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0222 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Floors And Decks	0.99	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0223 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	1.85	
For Oil Based Paint, Add	0.11	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 13 00-0224 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Floors And Decks.....	0.82	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0225 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	0.90	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0226 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.44	
For Oil Based Paint, Add	0.09	
For Up To 100, Add	0.85	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0227 SF 1 Coat Primer, Sprayed, Paint Exterior Wood Floors And Decks	0.55	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0228 SF 1 Coat Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	0.68	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 13 00-0229 SF 2 Coats Paint, Sprayed, Paint Exterior Wood Floors And Decks	1.10	
For Oil Based Paint, Add	0.07	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0230 SF 1 Coat Non Slip Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	1.99	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0231 SF 1 Coat Non Slip Epoxy Coating, Brush Work, Paint Exterior Wood Floors And Decks.....	5.49	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.35	
For >2,500 To 5,000, Deduct	-0.27	
For >5,000 To 10,000, Deduct	-0.55	
For >10,000 To 20,000, Deduct	-0.82	
For >20,000, Deduct	-1.10	
09 91 13 00-0232 Paint Exterior Doors And Windows (09 91 13)		
09 91 13 00-0233 Paint Exterior Door Frames (09 91 13 00-0232)		
09 91 13 00-0234 LF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Door Frame And Trim.....	1.23	
For Painting Either Interior Or Exterior Only, Deduct	-0.32	
09 91 13 00-0235 LF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Door Frame And Trim.....	1.60	
For Painting Either Interior Or Exterior Only, Deduct	-0.41	
09 91 13 00-0236 LF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Door Frame And Trim.....	2.70	
For Painting Either Interior Or Exterior Only, Deduct	-0.70	
09 91 13 00-0237 LF 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Door Frame And Trim.....	1.24	
For Painting Either Interior Or Exterior Only, Deduct	-0.33	
09 91 13 00-0238 LF 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door Frame And Trim.....	1.61	
For Painting Either Interior Or Exterior Only, Deduct	-0.42	
09 91 13 00-0239 LF 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Door Frame And Trim.....	2.72	
For Painting Either Interior Or Exterior Only, Deduct	-0.71	
09 91 13 00-0240 Paint Exterior Metal Doors (09 91 13 00-0232)		
09 91 13 00-0241 EA 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Door.....	49.58	
Note: One face		
For Half Louvered Door, Add	5.13	
For Full Louvered Door, Add	8.55	
For Electrostatic Painting, Add	7.27	
For >5 To 10, Deduct	-2.48	
For >10 To 25, Deduct	-4.96	
For >25, Deduct	-7.44	
09 91 13 00-0242 EA 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door.....	49.58	
Note: One face		
For Half Louvered Door, Add	5.13	
For Full Louvered Door, Add	8.55	
For Electrostatic Painting, Add	7.27	
For >5 To 10, Deduct	-2.48	
For >10 To 25, Deduct	-4.96	
For >25, Deduct	-7.44	
09 91 13 00-0243 EA 2 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door.....	88.34	
Note: One face		
For Half Louvered Door, Add	8.67	
For Full Louvered Door, Add	14.44	
For Electrostatic Painting, Add	13.42	
For >5 To 10, Deduct	-4.42	
For >10 To 25, Deduct	-8.83	
For >25, Deduct	-13.25	
09 91 13 00-0244 EA 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Door.....	88.97	
Note: Both faces		
For Half Louvered Door, Add	9.20	
For Full Louvered Door, Add	15.33	
For Electrostatic Painting, Add	13.04	
For >5 To 10, Deduct	-4.45	
For >10 To 25, Deduct	-8.90	
For >25, Deduct	-13.35	
09 91 13 00-0245 EA 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door.....	88.97	
Note: Both faces		
For Half Louvered Door, Add	9.20	
For Full Louvered Door, Add	15.33	
For Electrostatic Painting, Add	13.04	
For >5 To 10, Deduct	-4.45	
For >10 To 25, Deduct	-8.90	
For >25, Deduct	-13.35	
09 91 13 00-0246 EA 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Door.....	159.03	
Note: Both faces		
For Half Louvered Door, Add	15.56	
For Full Louvered Door, Add	25.94	
For Electrostatic Painting, Add	24.20	
For >5 To 10, Deduct	-7.95	
For >10 To 25, Deduct	-15.90	
For >25, Deduct	-23.85	
09 91 13 00-0247 EA 1 Coat Primer, Sprayed, Paint Exterior Metal Door.....	42.14	
Note: One face		
For Half Louvered Door, Add	3.78	
For Full Louvered Door, Add	6.31	
For Electrostatic Painting, Add	6.75	
For >5 To 10, Deduct	-2.11	
For >10 To 25, Deduct	-4.21	
For >25, Deduct	-6.32	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0248 EA 1 Coat Paint, Sprayed, Paint Exterior Metal Door.....	42.14	
Note: One face		
For Half Louvered Door, Add	3.78	
For Full Louvered Door, Add	6.31	
For Electrostatic Painting, Add	6.75	
For >5 To 10, Deduct	-2.11	
For >10 To 25, Deduct	-4.21	
For >25, Deduct	-6.32	
09 91 13 00-0249 EA 2 Coats Paint, Sprayed, Paint Exterior Metal Door.....	76.22	
Note: One face		
For Half Louvered Door, Add	6.39	
For Full Louvered Door, Add	10.65	
For Electrostatic Painting, Add	12.67	
For >5 To 10, Deduct	-3.81	
For >10 To 25, Deduct	-7.62	
For >25, Deduct	-11.43	
09 91 13 00-0250 EA 1 Coat Primer, Sprayed, Paint Exterior Metal Door.....	75.63	
Note: Both faces		
For Half Louvered Door, Add	6.78	
For Full Louvered Door, Add	11.31	
For Electrostatic Painting, Add	12.12	
For >5 To 10, Deduct	-3.78	
For >10 To 25, Deduct	-7.56	
For >25, Deduct	-11.34	
09 91 13 00-0251 EA 1 Coat Paint, Sprayed, Paint Exterior Metal Door.....	75.63	
Note: Both faces		
For Half Louvered Door, Add	6.78	
For Full Louvered Door, Add	11.31	
For Electrostatic Painting, Add	12.12	
For >5 To 10, Deduct	-3.78	
For >10 To 25, Deduct	-7.56	
For >25, Deduct	-11.34	
09 91 13 00-0252 EA 2 Coats Paint, Sprayed, Paint Exterior Metal Door.....	137.33	
Note: Both faces		
For Half Louvered Door, Add	11.48	
For Full Louvered Door, Add	19.13	
For Electrostatic Painting, Add	22.85	
For >5 To 10, Deduct	-6.87	
For >10 To 25, Deduct	-13.73	
For >25, Deduct	-20.60	
09 91 13 00-0253 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.60	
For Electrostatic Painting, Add	0.30	
09 91 13 00-0254 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.70	
For Electrostatic Painting, Add	0.32	
09 91 13 00-0255 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Overhead, Section Door, Or Roll Up Door.....	5.57	
For Electrostatic Painting, Add	0.65	
09 91 13 00-0256 SF 1 Coat Primer, Sprayed, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.63	
For Electrostatic Painting, Add	0.30	
09 91 13 00-0257 SF 1 Coat Paint, Sprayed, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.73	
For Electrostatic Painting, Add	0.33	
09 91 13 00-0258 SF 2 Coats Paint, Sprayed, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	5.28	
For Electrostatic Painting, Add	0.63	
09 91 13 00-0259 Paint Exterior Wood Doors (09 91 13 00-0232)		
09 91 13 00-0260 EA 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Door.....	46.96	
Note: One face		
For Half Louvered Door, Add	5.13	
For Full Louvered Door, Add	8.55	
For >5 To 10, Deduct	-2.35	
For >10 To 25, Deduct	-4.70	
For >25, Deduct	-7.04	
09 91 13 00-0261 EA 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Door.....	46.96	
Note: One face		
For Half Louvered Door, Add	5.13	
For Full Louvered Door, Add	8.55	
For >5 To 10, Deduct	-2.35	
For >10 To 25, Deduct	-4.70	
For >25, Deduct	-7.04	
09 91 13 00-0262 EA 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Door.....	83.12	
Note: One face		
For Half Louvered Door, Add	8.67	
For Full Louvered Door, Add	14.44	
For >5 To 10, Deduct	-4.16	
For >10 To 25, Deduct	-8.31	
For >25, Deduct	-12.47	
09 91 13 00-0263 EA 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Door.....	84.25	
Note: Both faces		
For Half Louvered Door, Add	9.20	
For Full Louvered Door, Add	15.33	
For >5 To 10, Deduct	-4.21	
For >10 To 25, Deduct	-8.43	
For >25, Deduct	-12.64	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0264	EA	1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Door.....	84.25	
			Note: Both faces		
			For Half Louvered Door, Add	9.20	
			For Full Louvered Door, Add	15.33	
			For >5 To 10, Deduct	-4.21	
			For >10 To 25, Deduct	-8.43	
			For >25, Deduct	-12.64	
09 91	13 00-0265	EA	2 Coats Paint, Brush Roller Work, Paint Exterior Wood Door.....	149.60	
			Note: Both faces		
			For Half Louvered Door, Add	15.56	
			For Full Louvered Door, Add	25.94	
			For >5 To 10, Deduct	-7.48	
			For >10 To 25, Deduct	-14.96	
			For >25, Deduct	-22.44	
09 91	13 00-0266	EA	1 Coat Primer, Sprayed, Paint Exterior Wood Door.....	39.25	
			Note: One face		
			For Half Louvered Door, Add	3.78	
			For Full Louvered Door, Add	6.31	
			For >5 To 10, Deduct	-1.96	
			For >10 To 25, Deduct	-3.93	
			For >25, Deduct	-5.89	
09 91	13 00-0267	EA	1 Coat Paint, Sprayed, Paint Exterior Wood Door.....	39.25	
			Note: One face		
			For Half Louvered Door, Add	3.78	
			For Full Louvered Door, Add	6.31	
			For >5 To 10, Deduct	-1.96	
			For >10 To 25, Deduct	-3.93	
			For >25, Deduct	-5.89	
09 91	13 00-0268	EA	2 Coats Paint, Sprayed, Paint Exterior Wood Door.....	70.50	
			Note: One face		
			For Half Louvered Door, Add	6.39	
			For Full Louvered Door, Add	10.65	
			For >5 To 10, Deduct	-3.53	
			For >10 To 25, Deduct	-7.05	
			For >25, Deduct	-10.58	
09 91	13 00-0269	EA	1 Coat Primer, Sprayed, Paint Exterior Wood Door.....	70.44	
			Note: Both faces		
			For Half Louvered Door, Add	6.78	
			For Full Louvered Door, Add	11.31	
			For >5 To 10, Deduct	-3.52	
			For >10 To 25, Deduct	-7.04	
			For >25, Deduct	-10.57	
09 91	13 00-0270	EA	1 Coat Paint, Sprayed, Paint Exterior Wood Door.....	70.44	
			Note: Both faces		
			For Half Louvered Door, Add	6.78	
			For Full Louvered Door, Add	11.31	
			For >5 To 10, Deduct	-3.52	
			For >10 To 25, Deduct	-7.04	
			For >25, Deduct	-10.57	
09 91	13 00-0271	EA	2 Coats Paint, Sprayed, Paint Exterior Wood Door.....	126.95	
			Note: Both faces		
			For Half Louvered Door, Add	11.48	
			For Full Louvered Door, Add	19.13	
			For >5 To 10, Deduct	-6.35	
			For >10 To 25, Deduct	-12.70	
			For >25, Deduct	-19.04	
09 91	13 00-0272	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.58	
09 91	13 00-0273	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.64	
09 91	13 00-0274	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	5.46	
09 91	13 00-0275	SF	1 Coat Primer, Sprayed, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.59	
09 91	13 00-0276	SF	1 Coat Paint, Sprayed, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.67	
09 91	13 00-0277	SF	2 Coats Paint, Sprayed, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	5.17	
09 91	13 00-0278		Paint Exterior Metal Windows (09 91 13 00-0232)		
			Note: Two finish coats paint over rust inhibitive primer.		
09 91	13 00-0279	EA	Up To 8 SF Window Size, 1 Coat Paint, Brush Work, Exterior Metal Window Including Trim.....	86.87	
			For Electrostatic Painting, Add	10.22	
			For >5 To 10, Deduct	-4.34	
			For >10 To 25, Deduct	-8.69	
			For >25, Deduct	-13.03	
09 91	13 00-0280	EA	>8 To 14 SF Window Size, 1 Coat Paint, Brush Work, Exterior Metal Window Including Trim.....	104.23	
			For Electrostatic Painting, Add	12.79	
			For >5 To 10, Deduct	-5.21	
			For >10 To 25, Deduct	-10.42	
			For >25, Deduct	-15.63	
09 91	13 00-0281	EA	>14 To 20 SF Window Size, 1 Coat Paint, Brush Work, Exterior Metal Window Including Trim.....	140.36	
			For Electrostatic Painting, Add	17.40	
			For >5 To 10, Deduct	-7.02	
			For >10 To 25, Deduct	-14.04	
			For >25, Deduct	-21.05	
09 91	13 00-0282	EA	>20 To 26 SF Window Size, 1 Coat Paint, Brush Work, Exterior Metal Window Including Trim.....	158.04	
			For Electrostatic Painting, Add	19.61	
			For >5 To 10, Deduct	-7.90	
			For >10 To 25, Deduct	-15.80	
			For >25, Deduct	-23.71	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0283 EA >26 To 34 SF Window Size, 1 Coat Paint, Brush Work, Exterior Metal Window Including Trim.....	175.31	
<i>For Electrostatic Painting, Add</i>	21.71	
<i>For >5 To 10, Deduct</i>	-8.77	
<i>For >10 To 25, Deduct</i>	-17.53	
<i>For >25, Deduct</i>	-26.30	
09 91 13 00-0284 SF >34 SF Window Size, 1 Coat Paint, Brush Work, Exterior Metal Window Including Trim.....	5.57	
<i>For Electrostatic Painting, Add</i>	0.69	
09 91 13 00-0285 Paint Exterior Wood Windows (09 91 13 00-0232)		
Note: Two finish coats paint over primer.		
09 91 13 00-0286 EA Up To 8 SF Window Size, 1 Coat Paint, Brush Work, Exterior Wood Window Including Trim.....	85.13	
<i>For >5 To 10, Deduct</i>	-4.26	
<i>For >10 To 25, Deduct</i>	-8.51	
<i>For >25, Deduct</i>	-12.77	
09 91 13 00-0287 EA >8 To 14 SF Window Size, 1 Coat Paint, Brush Work, Exterior Wood Window Including Trim	101.54	
<i>For >5 To 10, Deduct</i>	-5.08	
<i>For >10 To 25, Deduct</i>	-10.15	
<i>For >25, Deduct</i>	-15.23	
09 91 13 00-0288 EA >14 To 20 SF Window Size, 1 Coat Paint, Brush Work, Exterior Wood Window Including Trim	136.53	
<i>For >5 To 10, Deduct</i>	-6.83	
<i>For >10 To 25, Deduct</i>	-13.65	
<i>For >25, Deduct</i>	-20.48	
09 91 13 00-0289 EA >20 To 26 SF Window Size, 1 Coat Paint, Brush Work, Exterior Wood Window Including Trim	153.72	
<i>For >5 To 10, Deduct</i>	-7.69	
<i>For >10 To 25, Deduct</i>	-15.37	
<i>For >25, Deduct</i>	-23.06	
09 91 13 00-0290 EA >26 To 34 SF Window Size, 1 Coat Paint, Brush Work, Exterior Wood Window Including Trim	170.55	
<i>For >5 To 10, Deduct</i>	-8.53	
<i>For >10 To 25, Deduct</i>	-17.06	
<i>For >25, Deduct</i>	-25.58	
09 91 13 00-0291 SF >34 SF Window Size, 1 Coat Paint, Brush Work, Exterior Wood Window Including Trim	5.72	
09 91 13 00-0292 Paint Exterior Security Screens (09 91 13 00-0232)		
09 91 13 00-0293 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Security Screen	1.46	
<i>For Electrostatic Painting, Add</i>	0.18	
09 91 13 00-0294 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Security Screen	1.51	
<i>For Electrostatic Painting, Add</i>	0.18	
09 91 13 00-0295 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Security Screen.....	2.50	
<i>For Electrostatic Painting, Add</i>	0.29	
09 91 13 00-0296 Paint Exterior Window Guards (09 91 13 00-0232)		
09 91 13 00-0297 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Window Guards	1.46	
09 91 13 00-0298 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Window Guards	1.51	
09 91 13 00-0299 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Window Guards.....	2.50	
09 91 13 00-0300 Paint Exterior Window Trim (09 91 13 00-0232)		
09 91 13 00-0301 LF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Window Frame And Trim	1.31	
09 91 13 00-0302 LF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Window Frame And Trim.....	1.31	
09 91 13 00-0303 LF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Window Frame And Trim	2.09	
09 91 13 00-0304 LF 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Window Frame And Trim	1.46	
09 91 13 00-0305 LF 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Window Frame And Trim	1.46	
09 91 13 00-0306 LF 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Window Frame And Trim	2.38	
09 91 13 00-0307 Paint Roofing And Trim (09 91 13)		
09 91 13 00-0308 Paint Stain Or Seal Wood Roofing (09 91 13 00-0307)		
09 91 13 00-0309 SF 1 Coat, Brush/Roller Work, Stain And Seal Shingles/Shake.....	1.80	
<i>For Up To 100, Add</i>	1.01	
<i>For >100 To 250, Add</i>	0.49	
<i>For >250 To 500, Add</i>	0.21	
09 91 13 00-0310 SF 2 Coats, Brush/Roller Work, Stain And Seal Shingles/Shake.....	3.28	
<i>For Up To 100, Add</i>	1.81	
<i>For >100 To 250, Add</i>	0.88	
<i>For >250 To 500, Add</i>	0.38	
09 91 13 00-0311 Paint Metal Roofing (09 91 13 00-0307)		
09 91 13 00-0312 SF 1 Coat Paint, Brush/Roller Work, Paint Metal Roofing.....	0.78	
<i>For Up To 100, Add</i>	0.41	
<i>For >100 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.09	
09 91 13 00-0313 SF 2 Coats Paint, Brush/Roller Work, Paint Metal Roofing.....	1.37	
<i>For Up To 100, Add</i>	0.73	
<i>For >100 To 250, Add</i>	0.36	
<i>For >250 To 500, Add</i>	0.16	
09 91 13 00-0314 Paint Fascia Board (09 91 13 00-0307)		

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0315 LF 1 Coat Primer, Brush/Roller Work, Paint Fascia Board.....	0.73	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
09 91 13 00-0316 LF 1 Coat Paint, Brush/Roller Work, Paint Fascia Board.....	0.73	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
09 91 13 00-0317 LF 2 Coats Paint, Brush/Roller Work, Paint Fascia Board.....	1.28	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 91 13 00-0318 Paint Soffit (09 91 13 00-0307)		
09 91 13 00-0319 SF 1 Coat Primer, Brush/Roller Work, Paint Soffit	0.84	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 91 13 00-0320 SF 1 Coat Paint, Brush/Roller Work, Paint Soffit.....	0.84	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 91 13 00-0321 SF 2 Coats Paint, Brush/Roller Work, Paint Soffit.....	1.45	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 91 13 00-0322 Paint Site Work (09 91 13)		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0323 Paint Structural Steel (09 91 13 00-0322)		
09 91 13 00-0324 Paint Structural Steel, Brush Work (09 91 13 00-0323)		
09 91 13 00-0325 SF 1 Field Coat Primer, Brush/Roller Work, Paint Structural Steel	1.01	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For Epoxy Paint, Add	0.10	
09 91 13 00-0326 SF 1 Field Coat Paint, Brush/Roller Work, Paint Structural Steel.....	0.89	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For Epoxy Paint, Add	0.09	
09 91 13 00-0327 Paint Structural Steel, Spray Work (09 91 13 00-0323)		
09 91 13 00-0328 SF 1 Field Coat Primer, Spray Work, Paint Structural Steel.....	0.68	
For Electrostatic Painting, Add	0.09	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.08	
09 91 13 00-0329 SF 1 Field Coat Paint, Spray Work, Paint Structural Steel.....	0.55	
For Electrostatic Painting, Add	0.08	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For Epoxy Paint, Add	0.07	
09 91 13 00-0330 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0323)		
09 91 13 00-0331 SF 1 Coat Primer, Sprayed, Paint Exposed Metal Decking.....	0.77	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.08	
09 91 13 00-0332 SF 1 Coat Paint, Sprayed, Paint Exposed Metal Decking	0.77	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.08	
09 91 13 00-0333 SF 2 Coats Paint, Sprayed, Paint Exposed Metal Decking	1.29	
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.15	
09 91 13 00-0334 SF 1 Coat Primer, Brush/Roller Work, Paint Metal Bearms And Bar Joists.....	1.19	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.15	



Finishes	09	
Painting and Coating	09 90	9
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0335 SF 1 Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	1.17	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.13	
09 91 13 00-0336 SF 2 Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	2.20	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For Epoxy Paint, Add	0.26	
09 91 13 00-0337 SF 1 Coat Primer, Sprayed, Paint Metal Beams And Bar Joists	0.94	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For Epoxy Paint, Add	0.11	
09 91 13 00-0338 SF 1 Coat Paint, Sprayed, Paint Metal Beams And Bar Joists.....	0.94	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For Epoxy Paint, Add	0.11	
09 91 13 00-0339 SF 2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists.....	1.57	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For Epoxy Paint, Add	0.21	
09 91 13 00-0340 Paint Steel Pipes (09 91 13 00-0322)		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0341 LF 1 Coat Primer, Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter.....	1.69	
For Electrostatic Painting, Add	0.20	
For Epoxy Paint, Add	0.15	
09 91 13 00-0342 LF 1 Coat Primer, Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter.....	1.90	
For Electrostatic Painting, Add	0.23	
For Epoxy Paint, Add	0.17	
09 91 13 00-0343 LF 1 Coat Primer, Paint Steel Pipes 4" Diameter.....	2.14	
For Electrostatic Painting, Add	0.26	
For Epoxy Paint, Add	0.20	
09 91 13 00-0344 LF 1 Coat Primer, Paint Steel Pipes 6" To 8" Diameter	2.68	
For Electrostatic Painting, Add	0.32	
For Epoxy Paint, Add	0.24	
09 91 13 00-0345 LF 1 Coat Primer, Paint Steel Pipes 10" To 12" Diameter	3.40	
For Electrostatic Painting, Add	0.41	
For Epoxy Paint, Add	0.31	
09 91 13 00-0346 LF 1 Coat, Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter	1.69	
For Electrostatic Painting, Add	0.20	
For Epoxy Paint, Add	0.15	
09 91 13 00-0347 LF 1 Coat, Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter	1.90	
For Electrostatic Painting, Add	0.23	
For Epoxy Paint, Add	0.17	
09 91 13 00-0348 LF 1 Coat, Paint Steel Pipes 4" Diameter	2.14	
For Electrostatic Painting, Add	0.26	
For Epoxy Paint, Add	0.20	
09 91 13 00-0349 LF 1 Coat, Paint Steel Pipes 6" To 8" Diameter.....	2.68	
For Electrostatic Painting, Add	0.32	
For Epoxy Paint, Add	0.24	
09 91 13 00-0350 LF 1 Coat, Paint Steel Pipes 10" To 12" Diameter.....	3.40	
For Electrostatic Painting, Add	0.41	
For Epoxy Paint, Add	0.31	
09 91 13 00-0351 LF 2 Coats, Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter	3.40	
For Electrostatic Painting, Add	0.43	
For Epoxy Paint, Add	0.35	
09 91 13 00-0352 LF 2 Coats, Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter	3.79	
For Electrostatic Painting, Add	0.46	
For Epoxy Paint, Add	0.35	
09 91 13 00-0353 LF 2 Coats, Paint Steel Pipes 4" Diameter	4.10	
For Electrostatic Painting, Add	0.50	
For Epoxy Paint, Add	0.38	
09 91 13 00-0354 LF 2 Coats, Paint Steel Pipes 6" To 8" Diameter	5.19	
For Electrostatic Painting, Add	0.63	
For Epoxy Paint, Add	0.48	
09 91 13 00-0355 LF 2 Coats, Paint Steel Pipes 10" To 12" Diameter.....	6.37	
For Electrostatic Painting, Add	0.77	
For Epoxy Paint, Add	0.59	
09 91 13 00-0356 EA 1 Coat, Paint Exposed Single Or Double Gang, Outlet Box	8.72	
For Electrostatic Painting, Add	0.91	
For Epoxy Paint, Add	0.51	
09 91 13 00-0357 Paint Fencing (09 91 13 00-0322)		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0358 SF 1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence.....	0.85	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.11	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0359	SF	2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence	1.57	
			For Epoxy Paint, Add	0.16	
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
09 91	13 00-0360	SF	1 Coat Paint, Sprayed, Paint Existing Chain Link Fence	0.68	
			For Epoxy Paint, Add	0.08	
			For Electrostatic Painting, Add	0.09	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
09 91	13 00-0361	SF	2 Coats Paint, Sprayed, Paint Existing Chain Link Fence.....	1.28	
			For Epoxy Paint, Add	0.16	
			For Electrostatic Painting, Add	0.18	
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
09 91	13 00-0362	SF	1 Coat Primer, Brush/Roller, Paint Wrought Iron Fence	0.75	
			For Epoxy Paint, Add	0.09	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
09 91	13 00-0363	SF	1 Coat, Brush/Roller, Paint Wrought Iron Fence	0.72	
			For Epoxy Paint, Add	0.08	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
09 91	13 00-0364	SF	Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence	0.50	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
09 91	13 00-0365	SF	1 Coat Primer, Brush/Roller, Paint Picket Fence	1.02	
			For Epoxy Paint, Add	0.08	
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 91	13 00-0366	SF	1 Coat, Brush/Roller, Paint Picket Fence.....	1.02	
			For Epoxy Paint, Add	0.08	
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 91	13 00-0367	SF	Each Additional Coat, Brush/Roller, Paint Picket Fence	0.72	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
09 91	13 00-0368	SF	1 Coat, Brush/Roller, Paint Wood Fences	0.73	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
09 91	13 00-0369	SF	2 Coats, Brush/Roller, Paint Wood Fences.....	1.29	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
09 91	13 00-0370	SF	1 Coat, Sprayed, Paint Wood Fences.....	0.53	
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
09 91	13 00-0371	SF	2 Coats, Sprayed, Paint Wood Fences.....	0.98	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 91	13 00-0372		Paint Metal Louvers (09 91 13 00-0322)		
09 91	13 00-0373	SF	1 Coat Primer, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.42	
			For Electrostatic Painting, Add	0.16	
09 91	13 00-0374	SF	1 Coat Alkyd, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area	1.44	
			For Electrostatic Painting, Add	0.17	
09 91	13 00-0375	SF	2 Coats Alkyd, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	2.96	
			For Electrostatic Painting, Add	0.35	
09 91	13 00-0376		Paint Ladders (09 91 13 00-0322)		
09 91	13 00-0377	LF	1 Coat Alkyd Primer, Brush/Roller Work, Paint Ladders	4.00	
			For Epoxy Paint, Add	0.23	
09 91	13 00-0378	LF	1 Coat Alkyd Enamel, Brush/Roller Work, Paint Ladders	4.48	
			For Epoxy Paint, Add	0.26	
09 91	13 00-0379	LF	2 Coats Alkyd Enamel, Brush/Roller Work, Paint Ladders.....	8.85	
			For Epoxy Paint, Add	0.49	
09 91	13 00-0380		Paint Handrails (09 91 13 00-0322)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	13 00-0381	LF	1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket <i>For Epoxy Paint, Add</i>	1.57 0.11	
	09 91	13 00-0382	LF	1 Coat Alkyd Enamel, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket..... <i>For Epoxy Paint, Add</i>	1.75 0.12	
	09 91	13 00-0383	LF	2 Coats Alkyd Enamel, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket..... <i>For Epoxy Paint, Add</i>	2.90 0.18	
	09 91	13 00-0384	LF	1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets <i>For Epoxy Paint, Add</i>	2.74 0.29	
	09 91	13 00-0385	LF	1 Coat Alkyd Enamel, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.01 0.31	
	09 91	13 00-0386	LF	2 Coats Alkyd Enamel, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	5.22 0.50	
	09 91	13 00-0387	LF	1 Coat Alkyd Primer, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	2.96 0.30	
	09 91	13 00-0388	LF	1 Coat Alkyd Enamel, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.27 0.32	
	09 91	13 00-0389	LF	2 Coats Alkyd Enamel, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets <i>For Epoxy Paint, Add</i>	5.55 0.51	
	09 91	13 00-0390	LF	1 Coat Alkyd Primer, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	1.67 0.16	
	09 91	13 00-0391	LF	1 Coat Alkyd Enamel, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	1.84 0.17	
	09 91	13 00-0392	LF	2 Coats Alkyd Enamel, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	3.34 0.32	
	09 91	13 00-0393		Paint Grating <small>(09 91 13 00-0322)</small>		
	09 91	13 00-0394	SF	1 Coat Primer, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	2.90 0.18	
	09 91	13 00-0395	SF	1 Coat Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	2.94 0.19	
	09 91	13 00-0396	SF	2 Coats Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	4.38 0.31	
	09 91	13 00-0397		Equipment And Tanks <small>(09 91 13 00-0322)</small>		
	09 91	13 00-0398		Valves, Primer And Finish Coats <small>(09 91 13 00-0397)</small>		
	09 91	13 00-0399	EA	Prime And Paint 4" And Smaller Valve.....	28.87	
	09 91	13 00-0400	EA	Prime And Paint 6" To 10" Valve.....	35.21	
	09 91	13 00-0401	EA	Prime And Paint 12" To 18" Valve.....	46.47	
	09 91	13 00-0402	EA	Prime And Paint 20" To 24" Valve.....	62.62	
	09 91	13 00-0403	EA	Prime And Paint >24" To 36" Valve.....	85.14	
	09 91	13 00-0404	EA	Prime And Paint >36" To 48" Valve.....	115.44	
	09 91	13 00-0405		Pumps And Motors. Primer And Finish Coats <small>(09 91 13 00-0397)</small>		
	09 91	13 00-0406	EA	Prime And Paint Pump Under 1 HP.....	88.03	
	09 91	13 00-0407	EA	Prime And Paint Pump, 1 HP To 5 HP.....	114.87	
	09 91	13 00-0408	EA	Prime And Paint Pump, >5 HP To 10 HP.....	136.81	
	09 91	13 00-0409	EA	Prime And Paint Pump, >10 HP To 20 HP.....	152.41	
	09 91	13 00-0410	EA	Prime And Paint Pump, >20 HP To 30 HP.....	177.81	
	09 91	13 00-0411	EA	Prime And Paint Pump, >30 HP To 50 HP.....	203.20	
	09 91	13 00-0412	EA	Prime And Paint Pump, >50 HP To 75 HP.....	223.70	
	09 91	13 00-0413	EA	Prime And Paint Pump, >75 HP.....	254.00	
	09 91	13 00-0414		Storage Tanks <small>(09 91 13 00-0397)</small>		
	09 91	13 00-0415	SF	1 Coat Primer, Roller, Paint Storage Tank, Exterior Surface.....	1.07	
	09 91	13 00-0416	SF	1 Coat Paint, Roller, Paint Storage Tank, Exterior Surface.....	1.39	
	09 91	13 00-0417	SF	2 Coats Paint, Roller, Paint Storage Tank, Exterior Surface.....	2.63	
	09 91	13 00-0418	SF	1 Coat Primer, Roller, Paint Storage Tank, Interior Surface.....	1.49	
	09 91	13 00-0419	SF	1 Coat Paint, Roller, Paint Storage Tank, Interior Surface.....	1.84	
	09 91	13 00-0420	SF	2 Coats Paint, Roller, Paint Storage Tank, Interior Surface.....	3.54	
	09 91	13 00-0421	SF	1 Coat Primer, Spray, Paint Storage Tank, Exterior Surface.....	1.05	
	09 91	13 00-0422	SF	1 Coat Paint, Spray, Paint Storage Tank, Exterior Surface.....	1.24	
	09 91	13 00-0423	SF	2 Coats Paint, Spray, Paint Storage Tank, Exterior Surface.....	2.38	
	09 91	13 00-0424	SF	1 Coat Primer, Spray, Paint Storage Tank, Interior Surface.....	1.22	
	09 91	13 00-0425	SF	1 Coat Paint, Spray, Paint Storage Tank, Interior Surface.....	1.56	
	09 91	13 00-0426	SF	2 Coats Paint, Spray, Paint Storage Tank, Interior Surface.....	3.01	
	09 91	13 00-0427		Other Site Work Painting <small>(09 91 13 00-0322)</small>		
	09 91	13 00-0428		Paint Shutters Or Blinds, Solid Panel <small>(09 91 13 00-0427)</small>		
	09 91	13 00-0429	SF	1 Coat Primer, Brush Work, Paint Shutter Or Blinds, Solid Panel.....	3.15	
	09 91	13 00-0430	SF	1 Coat, Brush Work, Paint Shutter Or Blinds, Solid Panel.....	3.15	
	09 91	13 00-0431	SF	2 Coats, Brush Work, Paint Shutter Or Blinds, Solid Panel.....	5.60	
	09 91	13 00-0432	SF	1 Coat Primer, Sprayed, Paint Shutter Or Blinds, Solid Panel.....	1.77	
	09 91	13 00-0433	SF	1 Coat, Sprayed, Paint Shutter Or Blinds, Solid Panel.....	1.78	
	09 91	13 00-0434	SF	2 Coats, Sprayed, Paint Shutter Or Blinds, Solid Panel.....	3.28	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0435 Paint Shutters Or Blinds, Louvered Panel <small>(09 91 13 00-0427)</small>		
09 91 13 00-0436 SF 1 Coat Primer, Brush Work, Paint Shutter Or Blinds, Louvered Panel.....	3.90	
09 91 13 00-0437 SF 1 Coat, Brush Work, Paint Shutter Or Blinds, Louvered Panel.....	3.90	
09 91 13 00-0438 SF 2 Coats, Brush Work, Paint Shutter Or Blinds, Louvered Panel.....	6.93	
09 91 13 00-0439 SF 1 Coat Primer, Sprayed, Paint Shutter Or Blinds, Louvered Panel.....	2.16	
09 91 13 00-0440 SF 1 Coat, Sprayed, Paint Shutter Or Blinds, Louvered Panel.....	2.17	
09 91 13 00-0441 SF 2 Coats, Sprayed, Paint Shutter Or Blinds, Louvered Panel.....	3.99	
09 91 13 00-0442 Paint Flagpoles <small>(09 91 13 00-0427)</small>		
09 91 13 00-0443 EA 1 Coat, Paint Steel Flagpole, 20' High.....	199.21	
09 91 13 00-0444 EA 1 Coat, Paint Steel Flagpole, 30' High.....	267.84	
09 91 13 00-0445 EA 1 Coat, Paint Steel Flagpole, 40' High.....	336.53	
09 91 13 00-0446 EA 1 Coat, Paint Steel Flagpole, 50' High.....	405.22	
09 91 13 00-0447 EA 1 Coat, Paint Steel Flagpole, 70' High.....	538.20	
09 91 13 00-0448 EA 1 Coat, Paint Steel Flagpole, 80' High.....	606.33	
09 91 13 00-0449 EA 1 Coat, Paint Steel Flagpole, 90' High.....	674.48	
09 91 13 00-0450 Paint Lattice Or Trellis <small>(09 91 13 00-0427)</small>		
09 91 13 00-0451 SF 1 Coat, Spray Per Side, Paint Wood Lattice Or Trellis.....	1.39	
For Up To 100, Add	0.96	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
09 91 13 00-0452 SF 2 Coats, Spray Per Side, Paint Wood Lattice Or Trellis.....	2.57	
For Up To 100, Add	1.77	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
09 91 13 00-0453 Paint Exterior Stairs <small>(09 91 13)</small>		
09 91 13 00-0454 Paint Exterior Concrete Stairs <small>(09 91 13 00-0453)</small>		
09 91 13 00-0455 RSR 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	17.39	
09 91 13 00-0456 RSR 1 Coat Alkyd Enamel, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	17.39	
09 91 13 00-0457 RSR 1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	22.28	
09 91 13 00-0458 RSR 1 Coat Non Slip Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	36.26	
09 91 13 00-0459 RSR 2 Coats Alkyd Enamel, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	34.79	
09 91 13 00-0460 Paint Exterior Metal Stairs <small>(09 91 13 00-0453)</small>		
09 91 13 00-0461 RSR 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	9.02	
For Oil Based Paint, Add	0.48	
09 91 13 00-0462 RSR 1 Coat Alkyd Enamel, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	9.02	
For Oil Based Paint, Add	0.48	
09 91 13 00-0463 RSR 2 Coats Alkyd Enamel, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	18.05	
For Oil Based Paint, Add	0.96	
09 91 13 00-0464 Paint Exterior Wood Stairs <small>(09 91 13 00-0453)</small>		
09 91 13 00-0465 RSR 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	8.92	
09 91 13 00-0466 RSR 1 Coat Alkyd Enamel, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	8.92	
09 91 13 00-0467 RSR 1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	13.81	
09 91 13 00-0468 RSR 1 Coat Non Slip Epoxy Coating, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	27.79	
09 91 13 00-0469 RSR 2 Coats Alkyd Enamel, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	17.85	
09 91 13 00-0470 Paint Exterior Stair Nosing <small>(09 91 13 00-0453)</small>		
09 91 13 00-0471 LF 1 Coat Paint, Up To 2", Non Slip, Brush Work, Paint Exterior Yellow Stair Safety Strip.....	1.69	
09 91 13 00-0472 Paint Exterior Trim <small>(09 91 13)</small>		
09 91 13 00-0473 Paint Exterior Metal Trim And Gutters <small>(09 91 13 00-0472)</small>		
09 91 13 00-0474 SF 1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim.....	1.14	
09 91 13 00-0475 SF 1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	1.25	
09 91 13 00-0476 SF 2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	2.24	
09 91 13 00-0477 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.03	
09 91 13 00-0478 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.13	
09 91 13 00-0479 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	2.00	
09 91 13 00-0480 LF 1 Coat Paint, Brush Work, Paint Exterior Gutter And Downspout.....	1.81	
09 91 13 00-0481 LF 2 Coats Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.39	
09 91 13 00-0482 Paint Exterior Wood Trim <small>(09 91 13 00-0472)</small>		
09 91 13 00-0483 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Trim.....	1.64	
For Oil Based Paint, Add	0.09	
09 91 13 00-0484 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Trim.....	1.79	
For Oil Based Paint, Add	0.10	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0485 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Trim.....	3.23	
For Oil Based Paint, Add	0.19	
09 91 13 00-0486 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Trim.....	1.29	
For Oil Based Paint, Add	0.08	
09 91 13 00-0487 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	1.44	
For Oil Based Paint, Add	0.09	
09 91 13 00-0488 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	2.66	
For Oil Based Paint, Add	0.16	
09 91 13 00-0489 Paint Exterior Miscellaneous Metal Surfaces (09 91 13)		
09 91 13 00-0490 SF 1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.35	
For Epoxy Paint, Add	0.14	
For Electrostatic Painting, Add	0.17	
09 91 13 00-0491 SF 1 Coat Alkyd Enamel, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.27	
For Epoxy Paint, Add	0.11	
For Electrostatic Painting, Add	0.15	
09 91 13 00-0492 SF 2 Coats Alkyd Enamel, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	2.56	
For Epoxy Paint, Add	0.23	
For Electrostatic Painting, Add	0.31	
09 91 23 Interior Painting (09 91)		
Note: Acrylic latex paint unless otherwise stated. VOC compliant in all regulated areas, review specifications for levels. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.		
09 91 23 00-0001 Paint Interior Walls (09 91 23)		
09 91 23 00-0002 Paint Interior Brick Walls (09 91 23 00-0001)		
09 91 23 00-0003 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Brick Walls.....	0.21	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.14	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 23 00-0004 SF 1 Coat Filler, Brush Work, Paint Interior Brick Walls.....	1.08	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 23 00-0005 SF 1 Coat Paint, Brush Work, Paint Interior Brick Walls.....	1.25	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0006	SF	2	Coat Paint, Brush Work, Paint Interior Brick Walls.....	2.21	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.27	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.73	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.01	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 23 00-0007	SF	1	Coat Filler, Brush/Roller Work, Paint Interior Brick Walls.....	0.87	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 23 00-0008	SF	1	Coat Paint, Brush/Roller Work, Paint Interior Brick Walls.....	1.07	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 23 00-0009	SF	2	Coats Paint, Brush/Roller Work, Paint Interior Brick Walls.....	1.85	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.57	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.78	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	
09 91 23 00-0010	SF	1	Coat Filler, Sprayed, Paint Interior Brick Walls.....	0.71	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.21	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0011 SF 1 Coat Paint, Sprayed, Paint Interior Brick Walls.....	0.78	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0012 SF 2 Coats Paint, Sprayed, Paint Interior Brick Walls.....	1.35	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.49	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 23 00-0013 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Brick Walls.....	1.11	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0014 SF 1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Brick Walls.....	0.90	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 23 00-0015 SF 1 Coat Bonding Agent, Spray, Paint Interior Brick Walls.....	0.74	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	

09 91 23 00-0016 Paint Interior Concrete Walls (09 91 23 00-0001)

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0017	LF	1	Coat Paint, Cut-in Brush Work, Paint Interior Concrete Walls	0.17	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.02	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.04	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.12	
			<i>For >100 To 250, Add</i>	0.05	
			<i>For >250 To 500, Add</i>	0.02	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.03	
			<i>For >20,000, Deduct</i>	-0.03	
09 91 23 00-0018	SF	1	Coat Filler, Brush Work, Paint Interior Concrete Walls	0.92	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.09	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.61	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.18	
09 91 23 00-0019	SF	1	Coat Paint, Brush Work, Paint Interior Concrete Walls	1.01	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.69	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 23 00-0020	SF	2	Coats Paint, Brush Work, Paint Interior Concrete Walls	1.87	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Epoxy Paint, Add</i>	0.15	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.67	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.92	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.29	
			<i>For >100 To 250, Add</i>	0.61	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.37	
09 91 23 00-0021	SF	1	Coat Filler, Brush/Roller Work, Paint Interior Concrete Walls	0.74	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0022 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Walls.....	0.84	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0023 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Concrete Walls.....	1.54	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.53	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.73	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.02	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 23 00-0024 SF 1 Coat Filler, Sprayed, Paint Interior Concrete Walls.....	0.56	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.22	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 23 00-0025 SF 1 Coat Paint, Sprayed, Paint Interior Concrete Walls.....	0.66	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0026	SF		2 Coats Paint, Sprayed, Paint Interior Concrete Walls.....	1.05	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.13	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.63	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 23 00-0027	SF		1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Walls.....	0.94	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.61	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 91 23 00-0028	SF		1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Concrete Walls	0.76	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	
09 91 23 00-0029	SF		1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Walls	0.59	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.33	
			<i>For >100 To 250, Add</i>	0.16	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91 23 00-0030			Paint Interior Concrete Block Walls <small>(09 91 23 00-0001)</small>		
09 91 23 00-0031			Paint Interior Concrete Block Walls, Epoxy Paint <small>(09 91 23 00-0030)</small>		
09 91 23 00-0032	LF		1 Coat Epoxy Paint, Cut-in Brush Work, Paint Interior Concrete Block Walls.....	0.43	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.18	
			<i>For >100 To 250, Add</i>	0.09	
			<i>For >250 To 500, Add</i>	0.04	
			<i>For >2,500 To 5,000, Deduct</i>	-0.02	
			<i>For >5,000 To 10,000, Deduct</i>	-0.04	
			<i>For >10,000 To 20,000, Deduct</i>	-0.06	
			<i>For >20,000, Deduct</i>	-0.09	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0033 SF 1 Coat Epoxy Filler, Brush Work, Paint Interior Concrete Block Walls.....	1.26	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0034 SF 1 Coat Epoxy Paint, Brush Work, Paint Interior Concrete Block Walls	1.47	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.49	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.96	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 23 00-0035 SF 2 Coats Epoxy Paint, Brush Work, Paint Interior Concrete Block Walls	2.61	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.85	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	1.17	
Note: Applied only to work area above 40'		
For Up To 100, Add	1.66	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.39	
For >20,000, Deduct	-0.52	
09 91 23 00-0036 SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.02	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0037 SF 1 Coat Epoxy Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.14	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0038	SF		2 Coats Epoxy Paint, Brush/Roller Work, Paint Interior Concrete Block Walls	2.14	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.41	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.66	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.91	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.43	
09 91 23 00-0039	SF		1 Coat Epoxy Filler, Sprayed, Paint Interior Concrete Block Walls	0.77	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.19	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.26	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	
09 91 23 00-0040	SF		1 Coat Epoxy Paint, Sprayed, Paint Interior Concrete Block Walls	0.94	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 23 00-0041	SF		2 Coats Epoxy Paint, Sprayed, Paint Interior Concrete Block Walls	1.70	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.43	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.59	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	
09 91 23 00-0042			Paint Interior Concrete Block Walls, Acrylic Latex Paint <small>(09 91 23 00-0030)</small>		
09 91 23 00-0043	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Concrete Block Walls	0.23	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.10	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.15	
			For >100 To 250, Add	0.07	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.05	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0044 SF 1 Coat Filler, Brush Work, Paint Interior Concrete Block Walls.....	1.18	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0045 SF 1 Coat Paint, Brush Work, Paint Interior Concrete Block Walls.....	1.40	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 23 00-0046 SF 2 Coats Paint, Brush Work, Paint Interior Concrete Block Walls	2.53	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.16	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.64	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	
09 91 23 00-0047 SF Texture Coat, Brush Work, Paint Interior Concrete Block Walls	1.55	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.02	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 23 00-0048 SF 1 Coat Filler, Brush/Roller Work, Paint Interior Concrete Block Walls	0.99	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0049	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.18	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.75	
			<i>For >100 To 250, Add</i>	0.36	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.24	
09 91 23 00-0050	SF		2 Coats Paint, Sprayed, Paint Interior Concrete Block Walls.....	2.09	
			<i>For Oil Based Paint, Add</i>	0.13	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.66	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.91	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.31	
			<i>For >100 To 250, Add</i>	0.62	
			<i>For >250 To 500, Add</i>	0.27	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.21	
			<i>For >10,000 To 20,000, Deduct</i>	-0.31	
			<i>For >20,000, Deduct</i>	-0.42	
09 91 23 00-0051	SF		Texture Coat, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.31	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.59	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.84	
			<i>For >100 To 250, Add</i>	0.40	
			<i>For >250 To 500, Add</i>	0.17	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.26	
09 91 23 00-0052	SF		1 Coat Filler, Sprayed, Paint Interior Concrete Block Walls.....	0.81	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.48	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0053	SF		1 Coat Paint, Sprayed, Paint Interior Concrete Block Walls.....	0.91	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.52	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.18	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0054 SF 2 Coats Paint, Sprayed, Paint Interior Concrete Block Walls.....	1.31	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.78	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 23 00-0055 SF Texture Coat, Sprayed, Paint Interior Concrete Block Walls.....	1.06	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 23 00-0056 Paint Interior Concrete Block Walls With Bonding Agent (09 91 23 00-0030)		
09 91 23 00-0057 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Block Walls.....	1.21	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0058 SF 1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.02	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0059 SF 1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Block Walls.....	0.85	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 23 00-0060	Paint Interior Plaster/Drywall Walls (09 91 23 00-0001)		
09 91 23 00-0061	Paint Interior Plaster/Drywall Walls (09 91 23 00-0060)		
09 91 23 00-0062	LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Plaster/Drywall Walls.....	0.17	
	For Oil Based Paint, Add	0.01	
	For Work >15' To 20' Above Floor, Add	0.02	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.04	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.06	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.08	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.12	
	For >100 To 250, Add	0.05	
	For >250 To 500, Add	0.02	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.03	
09 91 23 00-0063	SF 1 Coat Primer, Brush Work, Paint Interior Plaster/Drywall Walls.....	0.97	
	For Oil Based Paint, Add	0.06	
	For Orange Peel Finish, Add	0.14	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.21	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.33	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.46	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.64	
	For >100 To 250, Add	0.30	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.19	
09 91 23 00-0064	SF 1 Coat Paint, Brush Work, Paint Interior Plaster/Drywall Walls.....	1.03	
	For Oil Based Paint, Add	0.06	
	For Orange Peel Finish, Add	0.15	
	For Epoxy Paint, Add	0.08	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.37	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.51	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.71	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.21	
09 91 23 00-0065	SF 2 Coats Paint, Brush Work, Paint Interior Plaster/Drywall Walls.....	1.87	
	For Oil Based Paint, Add	0.10	
	For Orange Peel Finish, Add	0.27	
	For Epoxy Paint, Add	0.16	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Work >15' To 20' Above Floor, Add	0.25	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.41	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.66	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.91	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.27	
	For >100 To 250, Add	0.60	
	For >250 To 500, Add	0.26	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.28	
	For >20,000, Deduct	-0.37	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0066 SF 3 Coats Paint, Brush Work, Paint Interior Plaster/Drywall Walls.....	2.66	
For Oil Based Paint, Add	0.15	
For Orange Peel Finish, Add	0.38	
For Epoxy Paint, Add	0.23	
For Each Coat With Egg Shell Finish, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.35	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.59	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.94	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.80	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.37	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.40	
For >20,000, Deduct	-0.53	
09 91 23 00-0067 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Plaster/Drywall Walls.....	0.76	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.10	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0068 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Plaster/Drywall Walls.....	0.87	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.12	
For Epoxy Paint, Add	0.08	
For Each Coat With Egg Shell Finish, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0069 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Plaster/Drywall Walls.....	1.53	
For Oil Based Paint, Add	0.09	
For Orange Peel Finish, Add	0.21	
For Epoxy Paint, Add	0.15	
For Each Coat With Egg Shell Finish, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.71	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0070	SF		1 Coat Primer, Sprayed, Paint Interior Plaster/Drywall Walls.....	0.55	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.32	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
09 91 23 00-0071	SF		1 Coat Paint, Sprayed, Paint Interior Plaster/Drywall Walls.....	0.66	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Each Coat With Egg Shell Finish, Add</i>	0.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91 23 00-0072	SF		2 Coats Paint, Sprayed, Paint Interior Plaster/Drywall Walls.....	1.05	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.13	
			<i>For Each Coat With Egg Shell Finish, Add</i>	0.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.63	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 23 00-0073			Paint Interior Plaster/Drywall Or Masonry Walls With Polymix Multi-Color		
			Paint <small>(09 91 23 00-0060)</small>		
09 91 23 00-0074	SF		2 Tone Polymix With Base Coat, Sprayed, Paint Interior Plaster/Drywall Or Masonry Walls.....	1.73	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 250, Add</i>	0.40	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.17	
			<i>For >10,000 To 20,000, Deduct</i>	-0.26	
			<i>For >20,000, Deduct</i>	-0.35	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0075 SF 3 Tone Polymix With Base Coat, Sprayed, Paint Interior Plaster/Drywall Or Masonry Walls	1.86	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 23 00-0076 SF 4 Tone Polymix With Base Coat, Sprayed, Paint Interior Plaster/Drywall Or Masonry Walls	2.00	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
09 91 23 00-0077 Paint Interior Plaster/Drywall Walls, Acoustic Texture (09 91 23 00-0060)	0.74	
09 91 23 00-0078 SF 1 Coat Primer, Sprayed, Acoustic Texture, Paint Interior Plaster/Drywall Walls	0.74	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0079 SF 1 Coat Finish, Sprayed, Acoustic Texture, Paint Interior Plaster/Drywall Walls	0.88	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 23 00-0080 SF 2 Coats Finish, Sprayed, Acoustic Texture, Paint Interior Plaster/Drywall Walls	1.34	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	

09	09 Finishes
	09 90 Painting and Coating
	09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0081 SF Stipple Finish (Drippowder), Paint Interior Plaster/Drywall Walls.....	1.56	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.59	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.81	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.12	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
 09 91 23 00-0082 Paint Interior Metal Walls (09 91 23 00-0001)		
 09 91 23 00-0083 Paint Interior Galvanized Walls (09 91 23 00-0082)		
Note: Linseed oil or acrylic latex paint.		
09 91 23 00-0084 SF 1 Coat Primer, Brush Work, Paint Interior Galvanized Wall Surfaces.....	1.14	
For Electrostatic Painting, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 23 00-0085 SF 1 Coat Paint, Brush Work, Paint Interior Galvanized Wall Surfaces.....	1.26	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0086 SF 2 Coats Paint, Brush Work, Paint Interior Galvanized Wall Surfaces.....	2.29	
For Electrostatic Painting, Add	0.30	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.46	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.73	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.01	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.44	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.46	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0087 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Galvanized Walls.....	0.85	
For Electrostatic Painting, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0088 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Galvanized Wall.....	0.99	
For Electrostatic Painting, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0089 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Galvanized Walls.....	1.83	
For Electrostatic Painting, Add	0.24	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.37	
09 91 23 00-0090 SF 1 Coat Primer, Sprayed, Paint Interior Galvanized Walls.....	0.63	
For Electrostatic Painting, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.09	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.15	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.20	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 23 00-0091 SF 1 Coat Paint, Sprayed, Paint Interior Galvanized Walls.....	0.85	
For Electrostatic Painting, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 23 00-0092	SF 2 Coats Paint, Sprayed, Paint Interior Galvanized Walls	1.38	
	For Electrostatic Painting, Add	0.22	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.34	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.47	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.72	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.21	
	For >20,000, Deduct	-0.28	
09 91 23 00-0093	Paint Interior Aluminum And Aluminum Alloy Walls (09 91 23 00-0092)		
	Note: Alkyd enamel paint.		
09 91 23 00-0094	SF 1 Coat Primer, Brush Work, Paint Interior Aluminum And Aluminum Alloy Wall Surfaces	1.14	
	For Electrostatic Painting, Add	0.15	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.37	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.51	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.72	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.23	
09 91 23 00-0095	SF 1 Coat Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Wall Surfaces	1.26	
	For Electrostatic Painting, Add	0.16	
	For Work >15' To 20' Above Floor, Add	0.16	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.26	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.42	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.57	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.81	
	For >100 To 250, Add	0.39	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.19	
	For >20,000, Deduct	-0.25	
09 91 23 00-0096	SF 2 Coats Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Wall Surfaces.....	2.28	
	For Electrostatic Painting, Add	0.30	
	For Work >15' To 20' Above Floor, Add	0.27	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.46	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.73	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.01	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.44	
	For >100 To 250, Add	0.69	
	For >250 To 500, Add	0.30	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.23	
	For >10,000 To 20,000, Deduct	-0.34	
	For >20,000, Deduct	-0.46	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0097 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Walls.....	0.92	
For Electrostatic Painting, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.53	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 23 00-0098 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Walls.....	1.05	
For Electrostatic Painting, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 23 00-0099 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Walls.....	1.96	
For Electrostatic Painting, Add	0.27	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.16	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.39	
09 91 23 00-0100 SF 1 Coat Primer, Sprayed, Paint Interior Aluminum And Aluminum Alloy Walls.....	0.70	
For Electrostatic Painting, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.24	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 23 00-0101 SF 1 Coat Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Walls.....	0.85	
For Electrostatic Painting, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0102	SF		2 Coats Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Walls	1.38	
			<i>For Electrostatic Painting, Add</i>	0.22	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.72	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.14	
			<i>For >10,000 To 20,000, Deduct</i>	-0.21	
			<i>For >20,000, Deduct</i>	-0.28	
09 91 23 00-0103			Paint Interior Corrugated Metal Walls <small>(09 91 23 00-0082)</small>		
09 91 23 00-0104	SF		1 Coat Primer, Sprayed, Paint Interior Corrugated Metal Walls	0.78	
			<i>For Electrostatic Painting, Add</i>	0.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.07	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0105	SF		1 Coat Paint, Sprayed, Paint Interior Corrugated Metal Walls	1.07	
			<i>For Electrostatic Painting, Add</i>	0.15	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.62	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 23 00-0106	SF		2 Coats Paint, Sprayed, Paint Interior Corrugated Metal Walls	1.76	
			<i>For Electrostatic Painting, Add</i>	0.27	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.96	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.26	
			<i>For >20,000, Deduct</i>	-0.35	
09 91 23 00-0107			Paint Interior Stucco Walls <small>(09 91 23 00-0001)</small>		



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0108 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Stucco Wall Surfaces.....	0.29	
For Oil Based Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.04	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.07	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.14	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.20	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.04	
For >20,000, Deduct	-0.06	
09 91 23 00-0109 SF 1 Coat Primer, Brush Work, Paint Interior Stucco Wall Surfaces.....	1.60	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.10	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 23 00-0110 SF 1 Coat Paint, Brush Work, Paint Interior Stucco Wall Surfaces.....	1.76	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.39	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.63	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.86	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.21	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 23 00-0111 SF 2 Coats Paint, Brush Work, Paint Interior Stucco Wall Surfaces.....	3.10	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.41	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.68	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	1.09	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.10	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.43	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.47	
For >20,000, Deduct	-0.62	
09 91 23 00-0112 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Stucco Wall Surfaces.....	1.20	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0113	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Stucco Wall Surfaces.....	1.36	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.91	
			<i>For >100 To 250, Add</i>	0.43	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.14	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.27	
09 91 23 00-0114	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Stucco Wall Surfaces.....	2.49	
			<i>For Oil Based Paint, Add</i>	0.14	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.84	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	1.16	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.64	
			<i>For >100 To 250, Add</i>	0.78	
			<i>For >250 To 500, Add</i>	0.34	
			<i>For >2,500 To 5,000, Deduct</i>	-0.12	
			<i>For >5,000 To 10,000, Deduct</i>	-0.25	
			<i>For >10,000 To 20,000, Deduct</i>	-0.37	
			<i>For >20,000, Deduct</i>	-0.50	
09 91 23 00-0115	SF		1 Coat Primer, Sprayed, Paint Interior Stucco Wall Surfaces	0.80	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.49	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0116	SF		1 Coat Paint, Sprayed, Paint Interior Stucco Wall Surfaces.....	0.98	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.59	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 23 00-0117	SF		2 Coats Paint, Sprayed, Paint Interior Stucco Wall Surfaces.....	1.89	
			<i>For Oil Based Paint, Add</i>	0.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.80	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.16	
			<i>For >100 To 250, Add</i>	0.55	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.38	



Finishes	09	
Painting and Coating	09 90	09
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0118 Paint Interior Wood Walls (09 91 23 00-0001)		
09 91 23 00-0119 Interior Wood Walls (09 91 23 00-0118)		
09 91 23 00-0120 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Wood Wall Surfaces.....	0.20	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.14	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 23 00-0121 SF 1 Coat Paint, Brush Work, Paint Interior Wood Wall Surfaces.....	1.20	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0122 SF 2 Coats Paint, Brush Work, Paint Interior Wood Wall Surfaces.....	2.18	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.47	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 23 00-0123 SF 3 Coats Paint, Brush Work, Paint Interior Wood Wall Surfaces.....	3.10	
For Oil Based Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.41	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.68	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	1.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.49	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.09	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.43	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.47	
For >20,000, Deduct	-0.62	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0124	SF	1	Coat Primer, Brush/Roller Work, Paint Interior Wood Walls	0.84	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.55	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.13	
			<i>For >20,000, Deduct</i>	-0.17	
09 91 23 00-0125	SF	1	Coat Paint, Brush/Roller Work, Paint Interior Wood Walls.....	0.96	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.64	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 91 23 00-0126	SF	2	Coats Paint, Brush/Roller Work, Paint Interior Wood Walls	1.69	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.57	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.78	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.11	
			<i>For >100 To 250, Add</i>	0.52	
			<i>For >250 To 500, Add</i>	0.23	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.17	
			<i>For >10,000 To 20,000, Deduct</i>	-0.25	
			<i>For >20,000, Deduct</i>	-0.34	
09 91 23 00-0127	SF	1	Coat Primer, Sprayed, Paint Interior Wood Walls	0.55	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.32	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
09 91 23 00-0128	SF	1	Coat Paint, Sprayed, Paint Interior Wood Walls.....	0.72	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0129 SF 2 Coats Paint, Sprayed, Paint Interior Wood Walls.....	1.30	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 23 00-0130 Paint Interior Ceilings (09 91 23)		
09 91 23 00-0131 Paint Interior Acoustical Ceilings (09 91 23 00-0130)		
Note: Includes grid.		
09 91 23 00-0132 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Acoustical Ceiling	0.30	
For Oil Based Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.16	
For >100 To 250, Add	0.08	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.06	
09 91 23 00-0133 SF 1 Coat Primer, Brush Work, Paint Interior Acoustical Ceiling.....	1.06	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 23 00-0134 SF 1 Coat Paint, Brush Work, Paint Interior Acoustical Ceiling.....	1.16	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0135	SF		2 Coats Paint, Brush Work, Paint Interior Acoustical Ceiling	2.05	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.27	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.73	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.01	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.41	
09 91 23 00-0136	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Acoustical Ceiling	0.91	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 23 00-0137	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Acoustical Ceiling.....	0.89	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 23 00-0138	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Acoustical Ceiling.....	1.66	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.79	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 23 00-0139	SF		1 Coat Primer, Sprayed, Paint Interior Acoustical Ceiling.....	0.73	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.31	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0140 SF 1 Coat Paint, Sprayed, Paint Interior Acoustical Ceiling	0.73	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0141 SF 2 Coats Paint, Sprayed, Paint Interior Acoustical Ceiling	1.14	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 23 00-0142 Paint Interior Concrete Ceilings (09 91 23 00-0130)		
09 91 23 00-0143 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Concrete Ceiling	0.19	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.13	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 23 00-0144 SF 1 Coat Filler, Brush Work, Paint Interior Concrete Ceiling	1.05	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

09	09 Finishes
	09 90 Painting and Coating
	09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0145 SF 1 Coat Paint, Brush Work, Paint Interior Concrete Ceiling.....	1.15	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 23 00-0146 SF 2 Coats Paint, Brush Work, Paint Interior Concrete Ceiling.....	2.05	
For Oil Based Paint, Add	0.11	
For Epoxy Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.46	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.73	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.01	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.41	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 23 00-0147 SF 1 Coat Filler, Brush/Roller Work, Paint Interior Concrete Ceiling.....	0.80	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0148 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Ceiling.....	0.90	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0149 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Concrete Ceiling.....	1.67	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.80	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.12	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 23 00-0150 SF 1 Coat Filler, Sprayed, Paint Interior Concrete Ceiling	0.69	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 23 00-0151 SF 1 Coat Paint, Sprayed, Paint Interior Concrete Ceiling	0.73	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0152 SF 2 Coats Paint, Sprayed, Paint Interior Concrete Ceiling	1.13	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.47	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 23 00-0153 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Ceiling	1.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0154	SF		1 Coat Bonding Agent, Brush/Roller, Paint Interior Concrete Ceiling.....	0.82	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.52	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0155	SF		1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Ceiling.....	0.72	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 23 00-0156			Paint Interior Drywall/Plaster Ceilings (09 91 23 00-0130)		
09 91 23 00-0157	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Drywall/Plaster Ceiling.....	0.19	
			<i>For Epoxy Paint, Add</i>	0.02	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.04	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.07	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.13	
			<i>For >100 To 250, Add</i>	0.06	
			<i>For >250 To 500, Add</i>	0.03	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.03	
			<i>For >20,000, Deduct</i>	-0.04	
09 91 23 00-0158	SF		1 Coat Primer, Brush Work, Pain Interior Drywall/Plaster Ceiling.....	1.06	
			<i>For Epoxy Paint, Add</i>	0.10	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Orange Peel Finish, Add</i>	0.15	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.71	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0159 SF 1 Coat Paint, Brush Work, Paint Interior Drywall/Plaster Ceiling	1.16	
For Epoxy Paint, Add	0.09	
For Oil Based Paint, Add	0.06	
For Orange Peel Finish, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 23 00-0160 SF 2 Coats Paint, Brush Work, Paint Interior Drywall/Plaster Ceiling.....	2.05	
For Epoxy Paint, Add	0.17	
For Oil Based Paint, Add	0.11	
For Orange Peel Finish, Add	0.29	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.46	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.73	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.01	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.41	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 23 00-0161 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Drywall/Plaster Ceiling.....	0.91	
For Epoxy Paint, Add	0.09	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 23 00-0162 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Drywall/Plaster Ceiling.....	0.89	
For Epoxy Paint, Add	0.08	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0163	SF		2 Coats Paints, Brush/Roller Work, Paint Interior Drywall/Plaster Ceiling.....	1.66	
			For Epoxy Paint, Add	0.15	
			For Oil Based Paint, Add	0.09	
			For Orange Peel Finish, Add	0.23	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.79	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 23 00-0164	SF		1 Coat Primer, Sprayed, Paint Interior Drywall/Plaster Ceiling	0.73	
			For Epoxy Paint, Add	0.08	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.31	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 23 00-0165	SF		1 Coat Paint, Sprayed, Paint Interior Drywall/Plaster Ceiling	0.73	
			For Epoxy Paint, Add	0.08	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 23 00-0166	SF		2 Coats Paint, Sprayed, Paint Interior Drywall/Plaster Ceiling	1.14	
			For Epoxy Paint, Add	0.14	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 23 00-0167			Paint Interior Metal Ceilings (09 91 23 00-0130)		
09 91 23 00-0168			Galvanized Surfaces, Galvanized Primer (09 91 23 00-0167)		
			Note: Linseed oil or acrylic latex paint.		



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0169 SF 1 Coat Primer, Brush Work, Paint Interior Galvanized Ceiling.....	1.26	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0170 SF 1 Coat Paint, Brush Work, Paint Interior Galvanized Ceiling.....	1.40	
For Electrostatic Painting, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 23 00-0171 SF 2 Coats Paint, Brush Work, Paint Interior Galvanized Ceiling.....	2.55	
For Electrostatic Painting, Add	0.32	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.16	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.64	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	
09 91 23 00-0172 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Galvanized Ceiling.....	0.98	
For Electrostatic Painting, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0173 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Galvanized Ceiling.....	1.11	
For Electrostatic Painting, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0174 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Galvanized Ceiling	2.02	
For Electrostatic Painting, Add	0.26	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.29	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
09 91 23 00-0175 SF 1 Coat Primer, Sprayed, Paint Interior Galvanized Ceiling	0.85	
For Electrostatic Painting, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0176 SF 1 Coat Paint, Sprayed, Paint Interior Galvanized Ceiling.....	0.98	
For Electrostatic Painting, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0177 SF 2 Coats Paint, Sprayed, Paint Interior Galvanized Ceiling.....	1.53	
For Electrostatic Painting, Add	0.23	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	

09 91 23 00-0178 Aluminum And Aluminum Alloy Surface Pretreatment Primer (09 91 23 00-0187)
 Note: Alkyd enamel paint.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0179 SF 1 Coat Primer, Brush Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.26	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0180 SF 1 Coat Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Ceiling	1.40	
For Electrostatic Painting, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 23 00-0181 SF 2 Coats Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	2.55	
For Electrostatic Painting, Add	0.32	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.16	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.64	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	
09 91 23 00-0182 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.05	
For Electrostatic Painting, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 23 00-0183 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Ceiling	1.18	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0184 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Ceiling	2.21	
For Electrostatic Painting, Add	0.30	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.68	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.93	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.35	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 23 00-0185 SF 1 Coat Primer, Sprayed, Paint Interior Aluminum And Aluminum Alloy Ceiling	0.85	
For Electrostatic Painting, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0186 SF 1 Coat Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	0.98	
For Electrostatic Painting, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0187 SF 2 Coats Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.53	
For Electrostatic Painting, Add	0.23	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	

09 91 23 00-0188 Paint Interior Ceiling Tile Grid (09 91 23 00-0167)
Note: Grid only.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0189 LF 1 Coat Paint, Brush/Roller Work, Paint Interior Ceiling Tile Grid	0.27	
For Electrostatic Painting, Add	0.03	
For Work >15' To 20' Above Floor, Add	0.04	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.06	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.13	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.18	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.04	
For >20,000, Deduct	-0.05	
09 91 23 00-0190 LF 2 Coats Paint, Brush/Roller Work, Paint Interior Ceiling Tile Grid.....	0.55	
For Electrostatic Painting, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.27	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 23 00-0191 Paint Interior Corrugated Metal Ceilings (09 91 23 00-0167)		
09 91 23 00-0192 SF 1 Coat Primer, Sprayed, Paint Interior Corrugated Metal Ceiling.....	1.11	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0193 SF 1 Coat Paint, Sprayed, Paint Interior Corrugated Metal Ceiling.....	1.31	
For Electrostatic Painting, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0194	SF		2 Coats Paint, Sprayed, Paint Interior Corrugated Metal Ceiling	2.05	
			<i>For Electrostatic Painting, Add</i>	0.31	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.54	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.75	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.12	
			<i>For >100 To 250, Add</i>	0.55	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.21	
			<i>For >10,000 To 20,000, Deduct</i>	-0.31	
			<i>For >20,000, Deduct</i>	-0.41	
09 91 23 00-0195			Paint Interior Wood Ceilings <small>(09 91 23 00-0130)</small>		
09 91 23 00-0196			Paint Interior Smooth Wood Ceilings <small>(09 91 23 00-0195)</small>		
09 91 23 00-0197	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Wood Smooth Ceiling	0.22	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.15	
			<i>For >100 To 250, Add</i>	0.07	
			<i>For >250 To 500, Add</i>	0.03	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.03	
			<i>For >20,000, Deduct</i>	-0.04	
09 91 23 00-0198	SF		1 Coat Primer, Brush Work, Paint Interior Wood Smooth Ceiling	1.28	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.60	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.85	
			<i>For >100 To 250, Add</i>	0.40	
			<i>For >250 To 500, Add</i>	0.17	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.26	
09 91 23 00-0199	SF		1 Coat Paint, Brush Work, Paint Interior Wood Smooth Ceiling.....	1.34	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.65	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.91	
			<i>For >100 To 250, Add</i>	0.43	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.27	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0200 SF 2 Coats Paint, Brush Work, Paint Interior Wood Smooth Ceiling.....	2.42	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.16	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.62	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.33	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	
09 91 23 00-0201 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Smooth Wood Ceiling.....	1.01	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0202 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Smooth Wood Ceiling	1.11	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0203 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Smooth Wood Ceiling	2.07	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.68	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.93	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.32	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 23 00-0204 SF 1 Coat Primer, Sprayed, Paint Interior Smooth Wood Ceiling.....	0.75	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	

09	09 Finishes
	09 90 Painting and Coating
	09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0205 SF 1 Coat Paint, Sprayed, Paint Interior Smooth Wood Ceiling	0.90	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 23 00-0206 SF 2 Coats Paint, Sprayed, Paint Interior Smooth Wood Ceiling	1.33	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 23 00-0207 Paint Interior Wood Beams (09 91 23 00-0130)	1.42	
09 91 23 00-0208 SF 1 Coat Primer, Brush Work, Paint Interior Wood Beams	1.42	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.49	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 23 00-0209 SF 1 Coat Paint, Brush Work, Paint Interior Wood Beams	1.46	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0210 SF 2 Coats Paint, Brush Work, Paint Interior Wood Beams.....	2.65	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.35	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.58	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.93	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.80	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.37	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.40	
For >20,000, Deduct	-0.53	
09 91 23 00-0211 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Beams.....	1.12	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0212 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Beams.....	1.11	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0213 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Wood Beams.....	2.07	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.68	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.93	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.32	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 23 00-0214 SF 1 Coat Primer, Sprayed, Paint Interior Wood Beams.....	0.90	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0215	SF		1 Coat Paint, Sprayed, Paint Interior Wood Beams	0.88	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.56	
			<i>For >100 To 250, Add</i>	0.27	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.13	
			<i>For >20,000, Deduct</i>	-0.18	
09 91 23 00-0216	SF		2 Coats Paint, Sprayed, Paint Interior Wood Beams	1.46	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.63	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.90	
			<i>For >100 To 250, Add</i>	0.43	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91 23 00-0217			Paint Interior Floors And Decks <small>(09 91 23)</small>		
09 91 23 00-0218			Paint Interior Concrete Floors And Decks <small>(09 91 23 00-0217)</small>		
09 91 23 00-0219	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Concrete Floors And Decks	0.15	
			<i>For Up To 100, Add</i>	0.10	
			<i>For >100 To 250, Add</i>	0.05	
			<i>For >250 To 500, Add</i>	0.02	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.02	
			<i>For >20,000, Deduct</i>	-0.03	
09 91 23 00-0220	SF		1 Coat Primer, Brush Work, Paint Interior Concrete Floors And Decks	0.80	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Up To 100, Add</i>	0.52	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0221	SF		1 Coat Paint, Brush Work, Paint Interior Concrete Floors And Decks.....	0.89	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Up To 100, Add</i>	0.60	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.13	
			<i>For >20,000, Deduct</i>	-0.18	
09 91 23 00-0222	SF		2 Coats Paint, Brush Work, Paint Interior Concrete Floors And Decks.....	1.76	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Epoxy Paint, Add</i>	0.15	
			<i>For Up To 100, Add</i>	1.19	
			<i>For >100 To 250, Add</i>	0.56	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.26	
			<i>For >20,000, Deduct</i>	-0.35	
09 91 23 00-0223	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Concrete Floors And Decks.....	0.78	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0224 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Floors And Decks	0.77	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 23 00-0225 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Concrete Floors And Decks	1.24	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.13	
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0226 SF 1 Coat Primer, Sprayed, Paint Interior Concrete Floors And Decks	0.55	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 23 00-0227 SF 1 Coat Paint, Sprayed, Paint Interior Concrete Floors And Decks	0.58	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 23 00-0228 SF 2 Coats Paint, Sprayed, Paint Interior Concrete Floors And Decks	1.01	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.13	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0229 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Floors And Decks	0.82	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0230 SF 1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Concrete Floors And Decks	0.80	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0231 SF 1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Floors And Decks	0.58	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 23 00-0232 SF 1 Coat Non Slip Paint, Brush Work, Paint Interior Concrete Floors And Decks	2.07	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0233 SF 1 Coat Non Slip Epoxy Coating, Brush Work, Paint Interior Concrete Floors And Decks (Rust-Oleum® AS91864251).....	5.57	
For Up To 100, Add	1.31	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.28	
For >5,000 To 10,000, Deduct	-0.56	
For >10,000 To 20,000, Deduct	-0.84	
For >20,000, Deduct	-1.11	
09 91 23 00-0234 Paint Interior Wood Floors And Decks (09 91 23 00-0217)	0.18	
09 91 23 00-0235 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Wood Floors And Decks.....	0.18	
For Up To 100, Add	0.12	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 23 00-0236 SF 1 Coat Primer, Brush Work, Paint Interior Wood Floors And Decks.....	0.98	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0237 SF 1 Coat Paint, Brush Work, Paint Interior Wood Floors And Decks.....	1.08	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 23 00-0238 SF 2 Coats Paint, Brush Work, Paint Interior Wood Floors And Decks.....	2.02	
For Oil Based Paint, Add	0.12	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
09 91 23 00-0239 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Floors And Decks.....	0.77	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 23 00-0240 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Floors And Decks.....	0.85	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0241 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Wood Floors And Decks.....	1.68	
For Oil Based Paint, Add	0.10	
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 23 00-0242 SF 1 Coat Primer, Sprayed, Paint Interior Wood Floors And Decks.....	0.60	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0243 SF 1 Coat Paint, Sprayed, Paint Interior Wood Floors And Decks.....	0.75	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0244 SF 2 Coats Paint, Sprayed, Paint Interior Wood Floors And Decks.....	1.06	
For Oil Based Paint, Add	0.07	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 23 00-0245 SF 1 Coat Non Slip Paint, Brush Work, Paint Interior Wood Floors And Decks.....	2.07	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 23 00-0246 SF 1 Coat Non Slip Epoxy Coating, Brush Work, Paint Interior Wood Floors And Decks.....	5.57	
For Up To 100, Add	1.31	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.28	
For >5,000 To 10,000, Deduct	-0.56	
For >10,000 To 20,000, Deduct	-0.84	
For >20,000, Deduct	-1.11	
09 91 23 00-0247 Paint Interior Doors And Windows (09 91 23)		
09 91 23 00-0248 Paint Interior Door Frames (09 91 23 00-0247)		
09 91 23 00-0249 LF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Door Frame And Trim.....	1.23	
For Oil Based Paint, Add	0.07	
For Painting One Face Of Frame Only, Deduct	-0.32	
09 91 23 00-0250 LF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Door Frame And Trim.....	1.60	
For Oil Based Paint, Add	0.08	
For Painting One Face Of Frame Only, Deduct	-0.41	
09 91 23 00-0251 LF 2 Coats Paint, Brush/Roller Work, Paint Interior Wood Door Frame And Trim.....	2.70	
For Oil Based Paint, Add	0.14	
For Painting One Face Of Frame Only, Deduct	-0.70	
09 91 23 00-0252 LF 1 Coat Primer, Brush/Roller Work, Paint Interior Metal Door Frame And Trim.....	1.24	
For Oil Based Paint, Add	0.07	
For Painting One Face Of Frame Only, Deduct	-0.33	
09 91 23 00-0253 LF 1 Coat Paint, Brush/Roller Work, Paint Interior Metal Door Frame And Trim.....	1.61	
For Oil Based Paint, Add	0.09	
For Painting One Face Of Frame Only, Deduct	-0.42	
09 91 23 00-0254 LF 2 Coats Paint, Brush/Roller Work, Paint Interior Metal Door Frame And Trim.....	2.72	
For Oil Based Paint, Add	0.15	
For Painting One Face Of Frame Only, Deduct	-0.71	
09 91 23 00-0255 Paint Interior Metal Doors (09 91 23 00-0247)		
09 91 23 00-0256 EA 1 Coat Primer, Brush/Roller Work, One Face, Paint Interior Metal Door.....	53.38	
For Electrostatic Painting, Add	7.65	
For Half Louvered Door, Add	5.70	
For Full Louvered Door, Add	9.50	
For Oil Based Paint, Add	3.44	
For >5 To 10, Deduct	-2.67	
For >10 To 25, Deduct	-5.34	
For >25, Deduct	-8.01	
09 91 23 00-0257 EA 1 Coat Paint, Brush/Roller Work, One Face, Paint Interior Metal Door.....	53.38	
For Electrostatic Painting, Add	7.65	
For Half Louvered Door, Add	5.70	
For Full Louvered Door, Add	9.50	
For Oil Based Paint, Add	3.44	
For >5 To 10, Deduct	-2.67	
For >10 To 25, Deduct	-5.34	
For >25, Deduct	-8.01	
09 91 23 00-0258 EA 2 Coats Paint, Brush/Roller Work, One Face, Paint Interior Metal Door.....	94.76	
For Electrostatic Painting, Add	14.06	
For Half Louvered Door, Add	9.63	
For Full Louvered Door, Add	16.05	
For Oil Based Paint, Add	6.27	
For >5 To 10, Deduct	-4.74	
For >10 To 25, Deduct	-9.48	
For >25, Deduct	-14.21	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0259 EA 1 Coat Primer, Brush/Roller Work, Both Faces, Paint Interior Metal Door.....	95.77	
For Electrostatic Painting, Add	13.72	
For Half Louvered Door, Add	10.22	
For Full Louvered Door, Add	17.03	
For Oil Based Paint, Add	6.17	
For >5 To 10, Deduct	-4.79	
For >10 To 25, Deduct	-9.58	
For >25, Deduct	-14.37	
09 91 23 00-0260 EA 1 Coat Paint, Brush/Roller Work, Both Faces, Paint Interior Metal Door	95.78	
For Electrostatic Painting, Add	13.72	
For Half Louvered Door, Add	10.22	
For Full Louvered Door, Add	17.04	
For Oil Based Paint, Add	6.17	
For >5 To 10, Deduct	-4.79	
For >10 To 25, Deduct	-9.58	
For >25, Deduct	-14.37	
09 91 23 00-0261 EA 2 Coats Paint, Brush/Roller Work, Both Faces, Paint Interior Metal Door.....	170.56	
For Electrostatic Painting, Add	25.35	
For Half Louvered Door, Add	17.29	
For Full Louvered Door, Add	28.82	
For Oil Based Paint, Add	11.29	
For >5 To 10, Deduct	-8.53	
For >10 To 25, Deduct	-17.06	
For >25, Deduct	-25.58	
09 91 23 00-0262 EA 1 Coat Primer, Sprayed, One Face, Paint Interior Metal Door.....	42.14	
For Electrostatic Painting, Add	6.75	
For Half Louvered Door, Add	3.78	
For Full Louvered Door, Add	6.31	
For Oil Based Paint, Add	2.95	
For >5 To 10, Deduct	-2.11	
For >10 To 25, Deduct	-4.21	
For >25, Deduct	-6.32	
09 91 23 00-0263 EA 1 Coat Paint, Sprayed, One Face, Paint Interior Metal Door	42.14	
For Electrostatic Painting, Add	6.75	
For Half Louvered Door, Add	3.78	
For Full Louvered Door, Add	6.31	
For Oil Based Paint, Add	2.95	
For >5 To 10, Deduct	-2.11	
For >10 To 25, Deduct	-4.21	
For >25, Deduct	-6.32	
09 91 23 00-0264 EA 2 Coats Paint, Sprayed, One Face, Paint Interior Metal Door.....	76.22	
For Electrostatic Painting, Add	12.67	
For Half Louvered Door, Add	6.39	
For Full Louvered Door, Add	10.65	
For Oil Based Paint, Add	5.49	
For >5 To 10, Deduct	-3.81	
For >10 To 25, Deduct	-7.62	
For >25, Deduct	-11.43	
09 91 23 00-0265 EA 1 Coat Primer, Sprayed, Both Faces, Paint Interior Metal Door.....	75.63	
For Electrostatic Painting, Add	12.12	
For Half Louvered Door, Add	6.78	
For Full Louvered Door, Add	11.31	
For Oil Based Paint, Add	5.30	
For >5 To 10, Deduct	-3.78	
For >10 To 25, Deduct	-7.56	
For >25, Deduct	-11.34	
09 91 23 00-0266 EA 1 Coat Paint, Sprayed, Both Faces, Paint Interior Metal Door.....	75.63	
For Electrostatic Painting, Add	12.12	
For Half Louvered Door, Add	6.78	
For Full Louvered Door, Add	11.31	
For Oil Based Paint, Add	5.30	
For >5 To 10, Deduct	-3.78	
For >10 To 25, Deduct	-7.56	
For >25, Deduct	-11.34	
09 91 23 00-0267 EA 2 Coats Paint, Sprayed, Both Faces, Paint Interior Metal Door	137.33	
For Electrostatic Painting, Add	22.85	
For Half Louvered Door, Add	11.48	
For Full Louvered Door, Add	19.13	
For Oil Based Paint, Add	9.91	
For >5 To 10, Deduct	-6.87	
For >10 To 25, Deduct	-13.73	
For >25, Deduct	-20.60	
09 91 23 00-0268 Paint Interior Wood Doors (09 91 23 00-0247)		
09 91 23 00-0269 EA 1 Coat Primer, Brush/Roller Work, One Face, Paint Interior Wood Door.....	50.76	
For Oil Based Paint, Add	3.18	
For Half Louvered Door, Add	5.70	
For Full Louvered Door, Add	9.50	
For >5 To 10, Deduct	-2.54	
For >10 To 25, Deduct	-5.08	
For >25, Deduct	-7.61	



Finishes	09	
Painting and Coating	09 90	09
Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	23 00-0270	EA	1 Coat Paint, Brush/Roller Work, One Face, Paint Interior Wood Door	50.76	
			<i>For Oil Based Paint, Add</i>	3.18	
			<i>For Half Louvered Door, Add</i>	5.70	
			<i>For Full Louvered Door, Add</i>	9.50	
			<i>For >5 To 10, Deduct</i>	-2.54	
			<i>For >10 To 25, Deduct</i>	-5.08	
			<i>For >25, Deduct</i>	-7.61	
09 91	23 00-0271	EA	2 Coats Paint, Brush/Roller Work, One Face, Paint Interior Wood Door	89.54	
			<i>For Oil Based Paint, Add</i>	5.74	
			<i>For Half Louvered Door, Add</i>	9.63	
			<i>For Full Louvered Door, Add</i>	16.05	
			<i>For >5 To 10, Deduct</i>	-4.48	
			<i>For >10 To 25, Deduct</i>	-8.95	
			<i>For >25, Deduct</i>	-13.43	
09 91	23 00-0272	EA	1 Coat Primer, Brush/Roller Work, Both Faces, Paint Interior Wood Door	91.06	
			<i>For Oil Based Paint, Add</i>	5.70	
			<i>For Half Louvered Door, Add</i>	10.22	
			<i>For Full Louvered Door, Add</i>	17.04	
			<i>For >5 To 10, Deduct</i>	-4.55	
			<i>For >10 To 25, Deduct</i>	-9.11	
			<i>For >25, Deduct</i>	-13.66	
09 91	23 00-0273	EA	1 Coat Paint, Brush/Roller Work, Both Faces, Paint Interior Wood Door	91.06	
			<i>For Oil Based Paint, Add</i>	5.70	
			<i>For Half Louvered Door, Add</i>	10.22	
			<i>For Full Louvered Door, Add</i>	17.04	
			<i>For >5 To 10, Deduct</i>	-4.55	
			<i>For >10 To 25, Deduct</i>	-9.11	
			<i>For >25, Deduct</i>	-13.66	
09 91	23 00-0274	EA	2 Coats Paint, Brush/Roller Work, Both Faces, Paint Interior Wood Door	161.13	
			<i>For Oil Based Paint, Add</i>	10.35	
			<i>For Half Louvered Door, Add</i>	17.29	
			<i>For Full Louvered Door, Add</i>	28.82	
			<i>For >5 To 10, Deduct</i>	-8.06	
			<i>For >10 To 25, Deduct</i>	-16.11	
			<i>For >25, Deduct</i>	-24.17	
09 91	23 00-0275	EA	1 Coat Primer, Sprayed, One Face, Paint Interior Wood Door	39.25	
			<i>For Oil Based Paint, Add</i>	2.66	
			<i>For Half Louvered Door, Add</i>	3.78	
			<i>For Full Louvered Door, Add</i>	6.31	
			<i>For >5 To 10, Deduct</i>	-1.96	
			<i>For >10 To 25, Deduct</i>	-3.93	
			<i>For >25, Deduct</i>	-5.89	
09 91	23 00-0276	EA	1 Coat Paint, Sprayed, One Face, Paint Interior Wood Door	39.25	
			<i>For Oil Based Paint, Add</i>	2.66	
			<i>For Half Louvered Door, Add</i>	3.78	
			<i>For Full Louvered Door, Add</i>	6.31	
			<i>For >5 To 10, Deduct</i>	-1.96	
			<i>For >10 To 25, Deduct</i>	-3.93	
			<i>For >25, Deduct</i>	-5.89	
09 91	23 00-0277	EA	2 Coats Paint, Sprayed, One Face, Paint Interior Wood Door	70.50	
			<i>For Oil Based Paint, Add</i>	4.92	
			<i>For Half Louvered Door, Add</i>	6.39	
			<i>For Full Louvered Door, Add</i>	10.65	
			<i>For >5 To 10, Deduct</i>	-3.53	
			<i>For >10 To 25, Deduct</i>	-7.05	
			<i>For >25, Deduct</i>	-10.58	
09 91	23 00-0278	EA	1 Coat Primer, Sprayed, Both Faces, Paint Interior Wood Door	70.44	
			<i>For Oil Based Paint, Add</i>	4.78	
			<i>For Half Louvered Door, Add</i>	6.78	
			<i>For Full Louvered Door, Add</i>	11.31	
			<i>For >5 To 10, Deduct</i>	-3.52	
			<i>For >10 To 25, Deduct</i>	-7.04	
			<i>For >25, Deduct</i>	-10.57	
09 91	23 00-0279	EA	1 Coat Paint, Sprayed, Both Faces, Paint Interior Wood Door	70.44	
			<i>For Oil Based Paint, Add</i>	4.78	
			<i>For Half Louvered Door, Add</i>	6.78	
			<i>For Full Louvered Door, Add</i>	11.31	
			<i>For >5 To 10, Deduct</i>	-3.52	
			<i>For >10 To 25, Deduct</i>	-7.04	
			<i>For >25, Deduct</i>	-10.57	
09 91	23 00-0280	EA	2 Coats Paint, Sprayed, Both Faces, Paint Interior Wood Door	126.95	
			<i>For Oil Based Paint, Add</i>	8.87	
			<i>For Half Louvered Door, Add</i>	11.48	
			<i>For Full Louvered Door, Add</i>	19.13	
			<i>For >5 To 10, Deduct</i>	-6.35	
			<i>For >10 To 25, Deduct</i>	-12.70	
			<i>For >25, Deduct</i>	-19.04	
09 91	23 00-0281		Paint Interior Metal Windows (09 91 23 00-0247)		
			Note: Two finish coats paint over rust inhibitive primer.		
09 91	23 00-0282	EA	Up To 8 SF Window Size, 1 Coat Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	95.40	
			<i>For Oil Based Paint, Add</i>	5.28	
			<i>For Electrostatic Painting, Add</i>	11.07	
			<i>For >5 To 10, Deduct</i>	-4.77	
			<i>For >10 To 25, Deduct</i>	-9.54	
			<i>For >25, Deduct</i>	-14.31	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0283	EA		>8 To 14 SF Window Size, 1 Coat Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	114.06	
			<i>For Oil Based Paint, Add</i>	6.49	
			<i>For Electrostatic Painting, Add</i>	13.77	
			<i>For >5 To 10, Deduct</i>	-5.70	
			<i>For >10 To 25, Deduct</i>	-11.41	
			<i>For >25, Deduct</i>	-17.11	
09 91 23 00-0284	EA		>14 To 20 SF Window Size, 1 Coat Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	153.47	
			<i>For Oil Based Paint, Add</i>	8.79	
			<i>For Electrostatic Painting, Add</i>	18.71	
			<i>For >5 To 10, Deduct</i>	-7.67	
			<i>For >10 To 25, Deduct</i>	-15.35	
			<i>For >25, Deduct</i>	-23.02	
09 91 23 00-0285	EA		>20 To 26 SF Window Size, 1 Coat Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	172.79	
			<i>For Oil Based Paint, Add</i>	9.91	
			<i>For Electrostatic Painting, Add</i>	21.08	
			<i>For >5 To 10, Deduct</i>	-8.64	
			<i>For >10 To 25, Deduct</i>	-17.28	
			<i>For >25, Deduct</i>	-25.92	
09 91 23 00-0286	EA		>26 To 34 SF Window Size, 1 Coat Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	191.69	
			<i>For Oil Based Paint, Add</i>	10.98	
			<i>For Electrostatic Painting, Add</i>	23.35	
			<i>For >5 To 10, Deduct</i>	-9.58	
			<i>For >10 To 25, Deduct</i>	-19.17	
			<i>For >25, Deduct</i>	-28.75	
09 91 23 00-0287	SF		>34 SF Window Size, 1 Coat Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	6.09	
			<i>For Oil Based Paint, Add</i>	0.35	
			<i>For Electrostatic Painting, Add</i>	0.74	
09 91 23 00-0288			Wood Windows <small>(09 91 23 00-0247)</small>		
			Note: Two finish coats paint over primer.		
09 91 23 00-0289	EA		Up To 8 SF Window Size, 1 Coat Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	93.66	
			<i>For Oil Based Paint, Add</i>	5.11	
			<i>For >5 To 10, Deduct</i>	-4.68	
			<i>For >10 To 25, Deduct</i>	-9.37	
			<i>For >25, Deduct</i>	-14.05	
09 91 23 00-0290	EA		>8 To 14 SF Window Size, 1 Coat Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	111.37	
			<i>For Oil Based Paint, Add</i>	6.22	
			<i>For >5 To 10, Deduct</i>	-5.57	
			<i>For >10 To 25, Deduct</i>	-11.14	
			<i>For >25, Deduct</i>	-16.71	
09 91 23 00-0291	EA		>14 To 20 SF Window Size, 1 Coat Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	154.84	
			<i>For Oil Based Paint, Add</i>	8.67	
			<i>For >5 To 10, Deduct</i>	-7.74	
			<i>For >10 To 25, Deduct</i>	-15.48	
			<i>For >25, Deduct</i>	-23.23	
09 91 23 00-0292	EA		>20 To 26 SF Window Size, 1 Coat Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	174.32	
			<i>For Oil Based Paint, Add</i>	9.77	
			<i>For >5 To 10, Deduct</i>	-8.72	
			<i>For >10 To 25, Deduct</i>	-17.43	
			<i>For >25, Deduct</i>	-26.15	
09 91 23 00-0293	EA		>26 To 34 SF Window Size, 1 Coat Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	186.93	
			<i>For Oil Based Paint, Add</i>	10.50	
			<i>For >5 To 10, Deduct</i>	-9.35	
			<i>For >10 To 25, Deduct</i>	-18.69	
			<i>For >25, Deduct</i>	-28.04	
09 91 23 00-0294	SF		>34 SF Window Size, 1 Coat Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	6.26	
			<i>For Oil Based Paint, Add</i>	0.35	
09 91 23 00-0295			Paint Interior Security Screens <small>(09 91 23 00-0247)</small>		
09 91 23 00-0296	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Security Screen	1.46	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Electrostatic Painting, Add</i>	0.18	
09 91 23 00-0297	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Security Screen	1.51	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Electrostatic Painting, Add</i>	0.18	
09 91 23 00-0298	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Security Screen	2.50	
			<i>For Oil Based Paint, Add</i>	0.14	
			<i>For Electrostatic Painting, Add</i>	0.29	
09 91 23 00-0299			Paint Interior Window Guards <small>(09 91 23 00-0247)</small>		
09 91 23 00-0300	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Metal Window Guards	1.46	
			<i>For Oil Based Paint, Add</i>	0.08	
09 91 23 00-0301	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Metal Window Guards	1.51	
			<i>For Oil Based Paint, Add</i>	0.08	
09 91 23 00-0302	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Metal Window Guards	2.50	
			<i>For Oil Based Paint, Add</i>	0.14	
09 91 23 00-0303			Paint Interior Window Trim <small>(09 91 23 00-0247)</small>		
09 91 23 00-0304	LF		1 Coat Primer, Brush/Roller Work, Paint Interior Wood Window Frame And Trim	1.43	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	23 00-0305	LF	1 Coat Paint, Brush/Roller Work, Paint Interior Wood Window Frame And Trim <i>For Oil Based Paint, Add</i> <i>For Painting One Face Of Frame Only, Deduct</i>	1.43 0.08 -0.39	
	09 91	23 00-0306	LF	2 Coats Paint, Brush/Roller Work, Paint Interior Wood Window Frame And Trim <i>For Oil Based Paint, Add</i> <i>For Painting One Face Of Frame Only, Deduct</i>	3.14 0.18 -0.86	
	09 91	23 00-0307	LF	1 Coat Primer, Brush/Roller Work, Paint Interior Metal Window Frame And Trim <i>Note: Brush/roller work.</i> <i>For Painting One Face Of Frame Only, Deduct</i>	1.53 -0.43	
	09 91	23 00-0308	LF	1 Coat Paint, Brush/Roller Work, Paint Interior Metal Window Frame And Trim <i>Note: Brush/roller work.</i> <i>For Painting One Face Of Frame Only, Deduct</i>	1.53 -0.43	
	09 91	23 00-0309	LF	2 Coats Paint, Brush/Roller Work, Paint Interior Metal Window Frame And Trim <i>Note: Brush/roller work.</i> <i>For Painting One Face Of Frame Only, Deduct</i>	3.33 -0.93	
	09 91	23 00-0310		Paint Interior Cabinets And Casework (09 91 23)		
	09 91	23 00-0311		Paint Interior Wood Cabinets And Casework (09 91 23 00-0310)		
	09 91	23 00-0312	SF	1 Coat Paint, Brush/Roller Work, Paint Interior Wood Cabinets And Casework <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.38 -0.07 -0.14 -0.21	
	09 91	23 00-0313	SF	1 Coat Enamel Primer And 1 Coat Alkyd Or Latex Paint, Brush/Roller Work, Paint Interior Wood Cabinets And Casework <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.88 -0.09 -0.19 -0.28	
	09 91	23 00-0314	SF	1 Coat Enamel Primer And 2 Coats Alkyd Or Latex Paint, Brush/Roller Work, Paint Interior Wood Cabinets And Casework <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	2.96 -0.15 -0.30 -0.44	
	09 91	23 00-0315		Paint Exposed Metal Lockers (09 91 23 00-0310)		
	09 91	23 00-0316	SF	1 Coat Primer, Brush/Roller Work, Paint Exposed Metal Locker <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.35 -0.07 -0.14 -0.20	
	09 91	23 00-0317	SF	1 Coat Alkyd Enamel, Brush/Roller Work, Paint Exposed Metal Locker <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.39 -0.07 -0.14 -0.21	
	09 91	23 00-0318	SF	2 Coats Alkyd Enamel, Brush/Roller Work, Paint Exposed Metal Locker <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	2.56 -0.13 -0.26 -0.38	
	09 91	23 00-0319		Paint Interior Stairs (09 91 23)		
	09 91	23 00-0320		Paint Interior Concrete Stairs (09 91 23 00-0319) <i>Note: Includes the riser and tread.</i>		
	09 91	23 00-0321	RSR	1 Coat Primer, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide)	19.27	
	09 91	23 00-0322	RSR	1 Coat Alkyd Enamel, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide)	19.27	
	09 91	23 00-0323	RSR	1 Coat Non Slip Paint, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide) <i>Note: Excludes riser.</i>	14.76	
	09 91	23 00-0324	RSR	1 Coat Non Slip Epoxy Coating, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide) <i>Note: Excludes riser.</i>	28.74	
	09 91	23 00-0325	RSR	2 Coats Alkyd Enamel, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide)	38.55	
	09 91	23 00-0326		Paint Interior Metal Stairs (09 91 23 00-0319) <i>Note: Includes the riser and tread.</i>		
	09 91	23 00-0327	RSR	1 Coat Primer, Brush/Roller Work, Paint Interior Metal Stair (To 4' Wide)	10.37	
	09 91	23 00-0328	RSR	1 Coat Alkyd Enamel, Brush/Roller Work, Paint Interior Metal Stair (To 4' Wide)	9.97	
	09 91	23 00-0329	RSR	2 Coats Alkyd Enamel, Brush/Roller Work, Paint Interior Metal Stair (To 4' Wide)	19.93	
	09 91	23 00-0330		Paint Interior Wood Stairs (09 91 23 00-0319) <i>Note: Includes the riser and tread.</i>		
	09 91	23 00-0331	RSR	1 Coat Primer, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	9.87	
	09 91	23 00-0332	RSR	1 Coat Alkyd Enamel, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	9.87	
	09 91	23 00-0333	RSR	1 Coat Non Slip Paint, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide) <i>Note: Excludes riser.</i>	10.05	
	09 91	23 00-0334	RSR	1 Coat Non Slip Epoxy Coating, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide) <i>Note: Excludes riser.</i>	24.03	
	09 91	23 00-0335	RSR	2 Coats Alkyd Enamel, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	19.73	
	09 91	23 00-0336		Paint Interior Stair Nosing (09 91 23 00-0319)		
	09 91	23 00-0337	LF	1 Coat Paint, Up To 2", Non Slip, Brush Work, Paint Interior Yellow Stair Safety Strip	1.69	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0338		Paint Interior Trim <small>(09 91 23)</small>		
09 91 23 00-0339		Paint Interior Metal Trim <small>(09 91 23 00-0338)</small>		
09 91 23 00-0340	SF	1 Coat Primer, Brush Work, Paint Interior Exposed Metal Trim	1.25	
		For Work >15' To 20' Above Floor, Add	0.17	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.28	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.44	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.61	
		Note: Applied only to work area above 40'.		
09 91 23 00-0341	SF	1 Coat Paint, Brush Work, Paint Interior Exposed Metal Trim	1.38	
		For Work >15' To 20' Above Floor, Add	0.18	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.31	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.49	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.68	
		Note: Applied only to work area above 40'.		
09 91 23 00-0342	SF	2 Coats Paint, Brush Work, Paint Interior Exposed Metal Trim	2.46	
		For Work >15' To 20' Above Floor, Add	0.33	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.54	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.87	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	1.19	
		Note: Applied only to work area above 40'.		
09 91 23 00-0343	SF	1 Coat Primer, Brush/Roller Work, Paint Interior Exposed Metal Trim	1.04	
		For Work >15' To 20' Above Floor, Add	0.13	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.22	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.36	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.49	
		Note: Applied only to work area above 40'.		
09 91 23 00-0344	SF	1 Coat Paint, Brush/Roller Work, Paint Interior Exposed Metal Trim	1.14	
		For Work >15' To 20' Above Floor, Add	0.15	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.25	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.40	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.54	
		Note: Applied only to work area above 40'.		
09 91 23 00-0345	SF	2 Coats Paint, Brush/Roller Work, Paint Interior Exposed Metal Trim	2.03	
		For Work >15' To 20' Above Floor, Add	0.26	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.44	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.70	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.96	
		Note: Applied only to work area above 40'.		
09 91 23 00-0346		Paint Interior Wood Trim <small>(09 91 23 00-0338)</small>		
09 91 23 00-0347	LF	1 Coat Primer, Brush Work, Paint Interior Wood Trim To 6" Wide	0.85	
		For Work >15' To 20' Above Floor, Add	0.12	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.20	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.32	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.43	
		Note: Applied only to work area above 40'.		
		For Oil Based Paint, Add	0.05	
09 91 23 00-0348	LF	1 Coat Paint, Brush Work, Paint Interior Wood Trim To 6" Wide	0.93	
		For Work >15' To 20' Above Floor, Add	0.13	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.22	
		Note: Applied only to work area above 20' to 30'.		
		For Work >30' To 40' Above Floor, Add	0.35	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.48	
		Note: Applied only to work area above 40'.		
		For Oil Based Paint, Add	0.05	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0349 LF 2 Coats Paint, Paint Interior Wood Trim to 6' Wide.....	1.96	
<i>For Work >15' To 20' Above Floor, Add</i>	0.28	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.47	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.75	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	1.03	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.10	
09 91 23 00-0350 SF 1 Coat Primer, Brush Work, Paint Interior Wood Trim.....	2.57	
<i>For Work >15' To 20' Above Floor, Add</i>	0.35	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.58	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.93	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	1.28	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.14	
09 91 23 00-0351 SF 1 Coat Paint, Brush Work, Paint Interior Wood Trim.....	2.86	
<i>For Work >15' To 20' Above Floor, Add</i>	0.39	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.65	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	1.04	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	1.42	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.16	
09 91 23 00-0352 SF 2 Coats Paint, Brush Work, Paint Interior Wood Trim.....	5.17	
<i>For Work >15' To 20' Above Floor, Add</i>	0.69	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	1.16	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	1.85	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	2.55	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.29	
09 91 23 00-0353 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Trim.....	2.10	
<i>For Work >15' To 20' Above Floor, Add</i>	0.28	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.47	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.74	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	1.02	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.12	
09 91 23 00-0354 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Trim.....	2.35	
<i>For Work >15' To 20' Above Floor, Add</i>	0.31	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.52	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.83	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	1.14	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.13	
09 91 23 00-0355 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Wood Trim.....	4.22	
<i>For Work >15' To 20' Above Floor, Add</i>	0.55	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.92	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	1.47	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	2.02	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Oil Based Paint, Add</i>	0.24	
09 91 23 00-0356 Paint Additives (09 91 23)		
09 91 23 00-0357 SF Mildewcide/Mold Killing Paint Additive Per Each Coat.....	0.03	
09 91 23 00-0358 SF Class "B" Fire Rating, Fire Resistant Paint Additive.....	0.06	
<i>For Class "A" Fire Rating, Add</i>	0.06	
09 91 23 00-0359 Hand Painting Letters/Numbers (09 91 23)		
Note: Painting on walls, floors, poles, signs, etc.		
09 91 23 00-0360 EA Up To 1" High, Hand Paint, Per Letter/Number.....	2.62	
09 91 23 00-0361 EA 1" To 2" High, Hand Paint, Per Letter/Number.....	3.06	
09 91 23 00-0362 EA 2" To 3" High, Hand Paint, Per Letter/Number.....	4.65	
09 91 23 00-0363 EA 3" To 4" High, Hand Paint, Per Letter/Number.....	5.69	
09 91 23 00-0364 EA 4" To 6" High, Hand Paint, Per Letter/Number.....	7.86	
09 91 23 00-0365 EA 6" To 12" High, Hand Paint, Per Letter/Number.....	9.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0366 EA Over 12" High, Hand Paint, Per Letter/Number	11.69	
09 91 23 00-0367 Glove/Mitt Application (09 91 23)		
09 91 23 00-0368 Conduit/Pipe (09 91 23 00-0367)		
09 91 23 00-0369 CSF Acid Wash (Muriatic Acid) Conduit Or Pipe With Glove/Mitt	49.72	
For Work >15' To 20' Above Floor, Add	7.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	11.80	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	18.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	25.95	
Note: Applied only to work area above 40'.		
09 91 23 00-0370 CSF Metal Primer Conduit Or Pipe With Glove/Mitt	77.13	
For Work >15' To 20' Above Floor, Add	8.49	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	14.15	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	22.64	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	31.14	
Note: Applied only to work area above 40'.		
09 91 23 00-0371 CSF Enamel, Oil Base Paint, First Coat Conduit Or Pipe With Glove/Mitt	59.99	
For Work >15' To 20' Above Floor, Add	6.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	10.38	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	16.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	22.83	
Note: Applied only to work area above 40'.		
09 91 23 00-0372 CSF Enamel, Oil Base Paint, Second Coat Conduit Or Pipe With Glove/Mitt	48.45	
For Work >15' To 20' Above Floor, Add	4.67	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	7.79	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	12.46	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	17.13	
Note: Applied only to work area above 40'.		
09 91 23 00-0373 CSF Epoxy Coating, First Coat Conduit Or Pipe With Glove/Mitt	88.92	
For Work >15' To 20' Above Floor, Add	7.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	11.80	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	18.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	25.95	
Note: Applied only to work area above 40'.		
09 91 23 00-0374 CSF Epoxy Coating, Second Coat Conduit Or Pipe With Glove/Mitt	81.52	
For Work >15' To 20' Above Floor, Add	6.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	10.38	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	16.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	22.83	
Note: Applied only to work area above 40'.		
09 91 23 00-0375 Ductwork (09 91 23 00-0367)		
09 91 23 00-0376 CSF Acid Wash (Muriatic Acid) Ductwork With Glove/Mitt	49.72	
For Work >15' To 20' Above Floor, Add	7.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	11.80	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	18.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	25.95	
Note: Applied only to work area above 40'.		
09 91 23 00-0377 CSF Metal Primer Ductwork With Glove/Mitt	67.15	
For Work >15' To 20' Above Floor, Add	7.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	11.80	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	18.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	25.95	
Note: Applied only to work area above 40'.		



Finishes	09	
Painting and Coating	09 90	09
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0378 CSF Enamel, Oil Base Paint Ductwork With Glove/Mitt.....	54.52	
For Work >15' To 20' Above Floor, Add	5.66	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	9.44	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	15.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	20.76	
Note: Applied only to work area above 40'.		
09 91 23 00-0379 CSF Epoxy Coating, First Coat Ductwork With Glove/Mitt.....	85.92	
For Work >15' To 20' Above Floor, Add	7.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	11.80	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	18.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	25.95	
Note: Applied only to work area above 40'.		
09 91 23 00-0380 CSF Epoxy Coating, Second Coat Ductwork With Glove/Mitt.....	74.06	
For Work >15' To 20' Above Floor, Add	5.66	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	9.44	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	15.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	20.76	
Note: Applied only to work area above 40'.		
09 91 23 00-0381 Stencil Painting Letters/Numbers (09 91 23)		
Note: Painting on walls, floors, poles, etc. Includes stencil cutout and paint.		
09 91 23 00-0382 EA Up To 1" High, Stencil Painting, Per Letter/Number	2.13	
For >200 To 500, Deduct	-0.17	
For >500 To 1,000, Deduct	-0.27	
For >1,000 To 2,000, Deduct	-0.34	
For >2,000, Deduct	-0.43	
09 91 23 00-0383 EA 1" To 2" High, Stencil Painting, Per Letter/Number.....	2.47	
For >200 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.31	
For >1,000 To 2,000, Deduct	-0.40	
For >2,000, Deduct	-0.49	
09 91 23 00-0384 EA 2" To 3" High, Stencil Painting, Per Letter/Number.....	4.19	
For >200 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.52	
For >1,000 To 2,000, Deduct	-0.67	
For >2,000, Deduct	-0.84	
09 91 23 00-0385 EA 3" To 4" High, Stencil Painting, Per Letter/Number.....	5.15	
For >200 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.64	
For >1,000 To 2,000, Deduct	-0.82	
For >2,000, Deduct	-1.03	
09 91 23 00-0386 EA 4" To 6" High, Stencil Painting, Per Letter/Number.....	7.09	
For >200 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.89	
For >1,000 To 2,000, Deduct	-1.13	
For >2,000, Deduct	-1.42	
09 91 23 00-0387 EA 6" To 12" High, Stencil Painting, Per Letter/Number.....	9.42	
For >200 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.18	
For >1,000 To 2,000, Deduct	-1.51	
For >2,000, Deduct	-1.88	
09 91 23 00-0388 EA Over 12" High, Stencil Painting, Per Letter/Number	11.12	
For >200 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.39	
For >1,000 To 2,000, Deduct	-1.78	
For >2,000, Deduct	-2.22	
09 91 23 00-0389 Paint Interior Miscellaneous Metal Surfaces (09 91 23)		
09 91 23 00-0390 SF 1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Interior Miscellaneous Metal Surfaces.....	0.84	
For Electrostatic Painting, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0391	SF	1	Coat Alkyd Enamel, Brush/Roller Work, Paint Interior Miscellaneous Metal Surfaces.....	1.01	
			<i>For Electrostatic Painting, Add</i>	0.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 23 00-0392	SF	2	Coats Alkyd Enamel, Brush/Roller Work, Paint Interior Miscellaneous Metal Surfaces.....	1.77	
			<i>For Electrostatic Painting, Add</i>	0.21	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.62	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.85	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.20	
			<i>For >100 To 250, Add</i>	0.56	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.35	
09 91 23 00-0393	SF	1	Coat Alkyd Anticorrosive Metal Primer, Sprayed, Paint Interior Miscellaneous Metal Surfaces.....	1.07	
			<i>For Electrostatic Painting, Add</i>	0.13	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.70	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 23 00-0394	SF	1	Coat Alkyd, Sprayed, Paint Interior Miscellaneous Metal Surfaces.....	1.07	
			<i>For Electrostatic Painting, Add</i>	0.13	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.70	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 23 00-0395	SF	2	Coats Alkyd, Sprayed, Paint Interior Miscellaneous Metal Surfaces.....	1.64	
			<i>For Electrostatic Painting, Add</i>	0.20	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.56	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.76	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.08	
			<i>For >100 To 250, Add</i>	0.51	
			<i>For >250 To 500, Add</i>	0.22	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.16	
			<i>For >10,000 To 20,000, Deduct</i>	-0.25	
			<i>For >20,000, Deduct</i>	-0.33	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 33 Painting Materials (09 91)

Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.

09 91 33 00-0001 Primer (09 91 33)

09 91 33 00-0002	GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	38.05
09 91 33 00-0003	GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon	30.95
09 91 33 00-0004	GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon	39.24
09 91 33 00-0005	GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	87.07
09 91 33 00-0006	EA Cement Base Primer, 25 LB Sack	32.36
09 91 33 00-0007	GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	49.89
09 91 33 00-0008	GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	40.05
09 91 33 00-0009	GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	30.95
09 91 33 00-0010	GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	28.11
09 91 33 00-0011	GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	49.55
09 91 33 00-0012	GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	41.26
09 91 33 00-0013	GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	41.26
09 91 33 00-0014	GAL Latex Wood Primer, Exterior, 300 SF Per Gallon	46.52
09 91 33 00-0015	GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	30.34
09 91 33 00-0016	GAL Red Alkyd Primer, 500 SF Per Gallon	65.12
09 91 33 00-0017	GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	32.36
09 91 33 00-0018	GAL Zinc Chromate Primer, 300 SF Per Gallon	25.89
09 91 33 00-0019	GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	66.95
09 91 33 00-0020	GAL Stain Killer, Alcohol Base.....	41.75
09 91 33 00-0021	GAL Sealer, Primer Kilz, 400 SF Per Gallon.....	47.10

09 91 33 00-0022 Paint (09 91 33)

09 91 33 00-0023	GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	22.65
09 91 33 00-0024	GAL Acrylic Urethane Sealer	112.32
09 91 33 00-0025	GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type	12.14
	Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.	
09 91 33 00-0026	GAL Concrete Enamel Epoxy, 350 SF Per Gallon.....	70.19
09 91 33 00-0027	GAL Concrete Acrylic Sealer, 400 SF Per Gallon	36.81
09 91 33 00-0028	GAL Tar Emulsion, Driveway Coating, 120 SF Per Gallon	12.14
09 91 33 00-0029	GAL Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	18.41
09 91 33 00-0030	GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	37.22
09 91 33 00-0031	GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon	49.55
09 91 33 00-0032	GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	40.45
09 91 33 00-0033	GAL Exterior, Flat, Oil Base.....	37.08
09 91 33 00-0034	GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	35.19
09 91 33 00-0035	GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon.....	41.46
09 91 33 00-0036	GAL Exterior, Latex Flat Paint, 300 SF Per Gallon	36.81
09 91 33 00-0037	GAL Exterior, Water Base, Latex Gloss Enamel	52.40
09 91 33 00-0038	GAL Cold Galvanizing Paint	283.11
09 91 33 00-0039	GAL High Heat Paint.....	92.20
09 91 33 00-0040	GAL Heat Resistant Paint.....	61.46
09 91 33 00-0041	GAL Zinc Chromate Paint.....	55.61
09 91 33 00-0042	QT Anti-Rust Enamel, 500 SF Per Quart.....	21.95
09 91 33 00-0043	GAL Rust Inhibitor, Ferrous Metal.....	61.46
09 91 33 00-0044	GAL Masonry Waterproofing, 100 SF Per Gallon	36.81
09 91 33 00-0045	GAL Alkyd Latex, Black	41.46
09 91 33 00-0046	GAL Alkyd Latex, White	41.46
09 91 33 00-0047	GAL Alkyd Latex, Colors	50.00
09 91 33 00-0048	QT Wrought Iron Paint, Black.....	56.10
09 91 33 00-0049	GAL Vinyl Paint.....	61.89
09 91 33 00-0050	GAL Silicone Alkyd	75.24
09 91 33 00-0051	GAL 2 Component Solvent Based Acrylic Epoxy.....	76.46
09 91 33 00-0052	GAL 2 Component Solvent Based Polyester Epoxy	95.87
09 91 33 00-0053	GAL Chlorinated Rubber.....	70.39
09 91 33 00-0054	GAL Polyamide Epoxy Sealer.....	72.82
09 91 33 00-0055	GAL Coal Tar Epoxy	52.18
09 91 33 00-0056	GAL Swimming Pool Enamel, 350 SF Per Gallon.....	65.13
09 91 33 00-0057	GAL Swimming Pool Epoxy Or Urethane Base	84.95
09 91 33 00-0058	GAL Swimming Pool Rubber Base	58.25
09 91 33 00-0059	GAL Interior, Latex Flat Paint, 300 SF Per Gallon	37.01
09 91 33 00-0060	GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	41.46
09 91 33 00-0061	GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	75.85
09 91 33 00-0062	GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon	25.69
09 91 33 00-0063	GAL Linseed Oil.....	22.45
09 91 33 00-0064	GAL Latex Floor Paint, 300 SF Per Gallon	36.81
09 91 33 00-0065	GAL Acrylic Floor Paint, 400 SF Per Gallon	41.46
09 91 33 00-0066	GAL Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	37.92
09 91 33 00-0067	GAL Acoustic Spray-On Texture, Finish	30.47

09 91 33 00-0068 Stain, Varnish (09 91 33)

09 91 33 00-0069	GAL Thompson Water Sealer, 150 SF Per Gallon.....	21.04
09 91 33 00-0070	GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	39.24
09 91 33 00-0071	GAL Redwood Oil Stain, 300 SF Per Gallon.....	34.99
09 91 33 00-0072	GAL Varnish, Clear.....	39.36
09 91 33 00-0073	GAL Penetrating Water-Repellent Stain	28.59

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0074 GAL Redwood Hue Or Clear Stain	25.55	
09 91 33 00-0075 GAL Polyurethane.....	44.85	
09 91 33 00-0076 GAL Lacquer, Semi-Gloss	36.92	
09 91 33 00-0077 GAL Shellac, Clear.....	48.44	
09 91 33 00-0078 GAL Acetone.....	15.98	
09 91 33 00-0079 GAL Paint Thinner.....	3.94	
09 91 33 00-0080 GAL Shellac Or Lacquer Thinner	16.18	
09 91 33 00-0081 GAL Turpentine.....	22.25	
09 91 33 00-0082 GAL Wood Filler Paste.....	38.03	
09 91 33 00-0083 GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	30.34	
09 91 33 00-0084 GAL Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	83.07	
09 91 43 Surface Preparation (09 91) See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.		
09 93 Staining and Transparent Finishing (09 90) Note: Includes light sanding or screening between coats.		
09 93 13 Exterior Staining and Finishing (09 93)		
09 93 13 53 Exterior Finishing (09 93 13)		
09 93 13 53-0001 Stain Sealer (09 93 13 53) Note: Measured by surface area of wall or ceiling.		
09 93 13 53-0002 SF Stain Sealer, Brush Work.....	1.02	
For Ceiling Work, Add	0.14	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 93 13 53-0003 SF Stain Sealer, Brush/Roller Work	0.82	
For Ceiling Work, Add	0.11	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.07	
09 93 13 53-0004 SF Stain Sealer, Sprayed.....	0.31	
For Ceiling Work, Add	0.03	
For >5,000 To 10,000, Deduct	-0.01	
For >10,000 To 20,000, Deduct	-0.02	
For >20,000, Deduct	-0.03	
09 93 23 Interior Staining and Finishing (09 93) Note: VOC compliant in all regulated areas, review specifications for levels.		
09 93 23 13 Interior Staining (09 93 23)		
09 93 23 13-0001 Stain Wood Trim (09 93 23 13)		
09 93 23 13-0002 LF Stain Wood Trim, Up To 6" Wide, 1 Coat Stain, With Brush And Wipe Off.....	1.25	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >4,000, Deduct	-0.06	
09 93 23 13-0003 SF Stain Wood Trim, 1 Coat Stain, With Brush And Wipe Off.....	1.86	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
For >4,000, Deduct	-0.09	
09 93 23 13-0004 Stain Wood Floor (09 93 23 13)		
09 93 23 13-0005 SF Stain Or Varnish Wood Floor, 1 Coat Stain, Brush Work.....	0.59	
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.08	
For >4,000, Deduct	-0.03	
09 93 23 13-0006 SF Stain Or Varnish Wood Floor, 1 Coat Stain, Brush/Roller Work	0.44	
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >4,000, Deduct	-0.02	
09 93 23 13-0007 Stain Wood Door And Window (09 93 23 13)		
09 93 23 13-0008 EA Stain Wood Door, 1 Coat Stain With Brush And Wipe Off Wood Door (Per Face)	60.50	
For Up To 4, Add	44.18	
For >4 To 10, Add	20.68	
For >10 To 20, Add	8.88	
For >160, Deduct	-3.03	
09 93 23 13-0009 EA Stain Wood Window, 1 Coat Stain With Brush And Wipe Off Wood Window And Frame (Per Face).....	43.03	
For Up To 4, Add	30.51	
For >4 To 10, Add	14.33	
For >10 To 20, Add	6.16	
For >160, Deduct	-2.15	



Finishes	09	09
Painting and Coating	09 90	
Staining and Transparent Finishing	09 93	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 93 23 13-0010 Stain Wood Cabinet <small>(09 93 23 13)</small>		
09 93 23 13-0011 SF Stain Cabinet, 1 Coat Stain With Brush And Wipe.....	1.51	
09 93 23 53 Interior Finishing <small>(09 93 23)</small>		
09 93 23 53-0001 Concrete Finishes <small>(09 93 23 53)</small>		
09 93 23 53-0002 SF Finish Concrete Floor, 1 Coat Polyurethane.....	0.88	
<i>For Up To 100, Add</i>	0.53	
<i>For >100 To 250, Add</i>	0.26	
<i>For >250 To 500, Add</i>	0.11	
<i>For >4,000, Deduct</i>	-0.04	
09 93 23 53-0003 Wood Trim Finishes <small>(09 93 23 53)</small>		
09 93 23 53-0004 SF Finish Wood Trim, 1 Coat Sealer And 1 Coat Varnish Or Polyurethane.....	1.52	
<i>For Up To 100, Add</i>	1.01	
<i>For >100 To 250, Add</i>	0.48	
<i>For >250 To 500, Add</i>	0.21	
<i>For >4,000, Deduct</i>	-0.08	
09 93 23 53-0005 SF Finish Wood Trim, 1 Coat Varnish Or Polyurethane.....	1.01	
<i>For Up To 100, Add</i>	0.70	
<i>For >100 To 250, Add</i>	0.33	
<i>For >250 To 500, Add</i>	0.14	
<i>For >4,000, Deduct</i>	-0.05	
09 93 23 53-0006 Wood Floor Finishes <small>(09 93 23 53)</small>		
09 93 23 53-0007 SF Refinish Wood Floor, 2 Coats Polyurethane.....	3.29	
Note: Includes sanding existing floor.		
<i>For Up To 100, Add</i>	2.34	
<i>For >100 To 250, Add</i>	1.10	
<i>For >250 To 500, Add</i>	0.47	
<i>For >4,000, Deduct</i>	-0.16	
09 93 23 53-0008 SF Polyurethane Wood Floor, 1 Coat Polyurethane, With Wool Applicator Or Brush Work.....	0.77	
Note: Includes screening between coats.		
<i>For Up To 100, Add</i>	0.51	
<i>For >100 To 250, Add</i>	0.24	
<i>For >250 To 500, Add</i>	0.10	
<i>For >4,000, Deduct</i>	-0.04	
09 93 23 53-0009 SF Refinish Wood Floor, 1 Coat Sealer And 2 Coats Polyurethane.....	3.72	
Note: Includes sanding existing floor.		
<i>For Up To 100, Add</i>	2.63	
<i>For >100 To 250, Add</i>	1.23	
<i>For >250 To 500, Add</i>	0.53	
<i>For >4,000, Deduct</i>	-0.19	
09 93 23 53-0010 Wood Door And Window Finishes <small>(09 93 23 53)</small>		
09 93 23 53-0011 EA Varnish Or Polyurethane Wood Door, 1 Coat Shellac (Per Face).....	43.70	
<i>For Up To 4, Add</i>	31.83	
<i>For >4 To 10, Add</i>	14.90	
<i>For >10 To 20, Add</i>	6.40	
<i>For >160, Deduct</i>	-2.19	
09 93 23 53-0012 EA Varnish Or Polyurethane Wood Door, 3 Coats Shellac, With Light Sanding Between Coats (Per Face).....	132.44	
<i>For Up To 4, Add</i>	94.98	
<i>For >4 To 10, Add</i>	44.54	
<i>For >10 To 20, Add</i>	19.14	
<i>For >160, Deduct</i>	-6.62	
09 93 23 53-0013 Cabinet Finishes <small>(09 93 23 53)</small>		
09 93 23 53-0014 SF Finish Cabinet, 1 Coat Shellac, Varnish Or Polyurethane.....	1.52	
09 93 23 53-0015 Gym, Stage And Dance Floor Finishes <small>(09 93 23 53)</small>		
09 93 23 53-0016 SF Yearly Maintenance Refinish Of Gym, Stage Or Dance Floor.....	1.83	
Note: Includes screening, one coat of finish and buffing. Excludes repainting of game lines.		
09 93 23 53-0017 SF Finish New Elementary School Wood Gym, Stage Or Dance Floor.....	4.27	
Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
<i>For Stage Or Dance Floors, Deduct</i>	-0.09	
09 93 23 53-0018 SF Finish New Middle Or Junior School Wood Gym, Stage Or Dance Floor.....	4.37	
Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
<i>For Stage Or Dance Floors, Deduct</i>	-0.09	
09 93 23 53-0019 SF Finish New High School Wood Gym, Stage Or Dance Floor.....	4.46	
Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
<i>For Stage Or Dance Floors, Deduct</i>	-0.09	

09	09 Finishes
	09 90 Painting and Coating
	09 93 Staining and Transparent Finishing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 93 23 53-0020 SF Refinish Existing Elementary School Wood Gym, Stage Or Dance Floor.....	4.27	
Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
For Stage Or Dance Floors, Deduct	-0.09	
09 93 23 53-0021 SF Refinish Existing Middle Or Junior School Wood Gym, Stage Or Dance Floor.....	4.37	
Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
For Stage Or Dance Floors, Deduct	-0.09	
09 93 23 53-0022 SF Refinish Existing High School Wood Gym, Stage Or Dance Floor.....	4.46	
Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
For Stage Or Dance Floors, Deduct	-0.09	
09 96 High-Performance Coatings (09 90)		
09 96 23 Graffiti-Resistant Coatings (09 96)		
09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)		
09 96 23 00-0002 SF Sacrificial Anti-Graffiti Coating, Per Coat.....	1.50	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
09 96 23 00-0003 SF Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.58	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
09 96 53 Elastomeric Coatings (09 96)		
09 96 53 00-0001 Elastomeric Painting (09 96 53)		
Note: Per coat.		
09 96 53 00-0002 SF 1 Coat, 5.3 To 8 Wet Mils, Brush Work, Elastomeric Primer Applied To Walls And Floors.....	0.92	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 96 53 00-0003 SF 1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Walls And Floors.....	0.78	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.35	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 96 53 00-0004 SF 1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Walls And Floors.....	0.62	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.24	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	



Finishes	09	09
Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0005 SF 1 Coat, 13 To 16 Wet Mills, Brush Work, Elastomeric Paint Applied To Walls And Floors.....	1.84	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 96 53 00-0006 SF 1 Coat, 13 To 16 Wet Mills, Brush/Roller Work, Elastomeric Paint Applied To Walls And Floors	1.70	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 96 53 00-0007 SF 1 Coat, 13 To 16 Wet Mills, Sprayed, Elastomeric Paint Applied To Walls And Floors	1.78	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 96 53 00-0008 SF 1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Ceilings And Overhead.....	1.04	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.49	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 96 53 00-0009 SF 1 Coat, 5.3 To 8 Wet Mills, Brush/Roller Work, Elastomeric Primer Applied To Ceilings And Overhead	0.89	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	

09	09	Finishes
	09 90	Painting and Coating
	09 96	High-Performance Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0010	SF		1 Coat, 5.3 To 8 Wet Mills, Sprayed, Elastomeric Primer Applied To Ceilings And Overhead	0.69	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.40	
			<i>For >100 To 250, Add</i>	0.19	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.14	
09 96 53 00-0011	SF		1 Coat, 13 To 16 Wet Mills, Brush Work, Elastomeric Paint Applied To Ceilings And Overhead	1.99	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.93	
			<i>For >100 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000, Deduct</i>	-0.40	
09 96 53 00-0012	SF		1 Coat, 13 To 16 Wet Mills, Brush/Roller Work, Elastomeric Paint Applied To Ceilings And Overhead.....	1.82	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.80	
			<i>For >100 To 250, Add</i>	0.40	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.36	
09 96 53 00-0013	SF		1 Coat, 13 To 16 Wet Mills, Sprayed, Elastomeric Paint Applied To Ceilings And Overhead.....	1.86	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.63	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.37	

09 96 56 Epoxy Coatings (09 96)

09 96 56 00-0001	High Build Epoxy	<small>(09 96 56)</small>	
09 96 56 00-0002	SF	50 Mil, High Build Epoxy	3.80
09 96 56 00-0003	Laminated Epoxy With Fiberglass	<small>(09 96 56)</small>	
09 96 56 00-0004	SF	Laminated Epoxy With Fiberglass.....	6.08

09 96 66 Aggregate Wall Coatings (09 96)

09 96 66 00-0001	Troweled On	<small>(09 96 66)</small>	
09 96 66 00-0002	SF	Exposed Aggregate - 1/16" To 1/4" - Troweled On	4.51
09 96 66 00-0003	SF	Exposed Aggregate - 1/2" To 5/8" Troweled On	8.11
09 96 66 00-0004	SF	Exposed Aggregate - 1" Troweled On.....	12.07
09 96 66 00-0005	Sprayed On	<small>(09 96 66)</small>	
09 96 66 00-0006	SF	Exposed Aggregate - 1/8" - Sprayed On.....	3.67



Finishes	09	09
Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 97 Special Coatings (09 90)

09 97 13 Steel Coatings (09 97)

09 97 13 23 Exterior Steel Coatings (09 97 13)

Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.

09 97 13 23-0001 Surface Preparation For Structural Steel (09 97 13 23)

Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.

09 97 13 23-0002 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)

Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11

09 97 13 23-0003	SF	Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.07
		For Up To 100, Add	0.73
		For >100 To 250, Add	0.34
		For >250 To 500, Add	0.15
09 97 13 23-0004	SF	Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.95
		For Up To 100, Add	0.65
		For >100 To 250, Add	0.31
		For >250 To 500, Add	0.13
09 97 13 23-0005	SF	Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.94
		For Up To 100, Add	0.65
		For >100 To 250, Add	0.30
		For >250 To 500, Add	0.13
09 97 13 23-0006	SF	Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.34
		For Up To 100, Add	0.93
		For >100 To 250, Add	0.44
		For >250 To 500, Add	0.19

09 97 13 23-0007 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)

Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.

09 97 13 23-0008	SF	Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.75
		For Up To 100, Add	1.93
		For >100 To 250, Add	0.91
		For >250 To 500, Add	0.39
09 97 13 23-0009	SF	Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.40
		For Up To 100, Add	1.67
		For >100 To 250, Add	0.79
		For >250 To 500, Add	0.34
09 97 13 23-0010	SF	Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.23
		For Up To 100, Add	1.55
		For >100 To 250, Add	0.73
		For >250 To 500, Add	0.31
09 97 13 23-0011	SF	Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation	3.45
		For Up To 100, Add	2.45
		For >100 To 250, Add	1.15
		For >250 To 500, Add	0.49

09 97 13 23-0012 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)

Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.

09 97 13 23-0013	SF	Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.35
		For Up To 100, Add	3.78
		For >100 To 250, Add	1.78
		For >250 To 500, Add	0.76
09 97 13 23-0014	SF	Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.58
		For Up To 100, Add	3.22
		For >100 To 250, Add	1.51
		For >250 To 500, Add	0.65
09 97 13 23-0015	SF	Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.22
		For Up To 100, Add	2.95
		For >100 To 250, Add	1.39
		For >250 To 500, Add	0.60

09 Finishes

09 90 Painting and Coating

09 97 Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0016 SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	6.44	
For Up To 100, Add	4.60	
For >100 To 250, Add	2.16	
For >250 To 500, Add	0.93	
09 97 13 23-0017 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0018 SF Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.99	
For Up To 100, Add	2.81	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.57	
09 97 13 23-0019 SF Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.41	
For Up To 100, Add	2.39	
For >100 To 250, Add	1.12	
For >250 To 500, Add	0.48	
09 97 13 23-0020 SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.22	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 23-0021 SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation	4.68	
For Up To 100, Add	3.35	
For >100 To 250, Add	1.57	
For >250 To 500, Add	0.68	
09 97 13 23-0022 Protective Coatings For Tanks And Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0023 1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0024 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.07	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
09 97 13 23-0025 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.79	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
09 97 13 23-0026 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.71	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
09 97 13 23-0027 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.28	
For Up To 100, Add	0.87	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 23-0028 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.55	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 23-0029 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.14	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 97 13 23-0030 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.02	
For Up To 100, Add	0.69	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 23-0031 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.86	
For Up To 100, Add	1.31	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
09 97 13 23-0032 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0033 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.13	
For Up To 100, Add	2.05	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.42	
09 97 13 23-0034 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.27	
For Up To 100, Add	1.43	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
09 97 13 23-0035 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.11	
For Up To 100, Add	1.31	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97	13 23-0036	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.81	
			<i>For Up To 100, Add</i>	2.55	
			<i>For >100 To 250, Add</i>	1.21	
			<i>For >250 To 500, Add</i>	0.52	
09 97	13 23-0037	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.36	
			<i>For Up To 100, Add</i>	1.55	
			<i>For >100 To 250, Add</i>	0.73	
			<i>For >250 To 500, Add</i>	0.32	
09 97	13 23-0038	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.71	
			<i>For Up To 100, Add</i>	1.08	
			<i>For >100 To 250, Add</i>	0.51	
			<i>For >250 To 500, Add</i>	0.22	
09 97	13 23-0039	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.58	
			<i>For Up To 100, Add</i>	0.98	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.20	
09 97	13 23-0040	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.87	
			<i>For Up To 100, Add</i>	1.92	
			<i>For >100 To 250, Add</i>	0.91	
			<i>For >250 To 500, Add</i>	0.39	
09 97	13 23-0041	SF	Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.91	
			<i>For Up To 100, Add</i>	3.39	
			<i>For >100 To 250, Add</i>	1.60	
			<i>For >250 To 500, Add</i>	0.69	
09 97	13 23-0042	SF	Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.49	
			<i>For Up To 100, Add</i>	2.35	
			<i>For >100 To 250, Add</i>	1.11	
			<i>For >250 To 500, Add</i>	0.48	
09 97	13 23-0043	SF	Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.22	
			<i>For Up To 100, Add</i>	2.15	
			<i>For >100 To 250, Add</i>	1.01	
			<i>For >250 To 500, Add</i>	0.44	
09 97	13 23-0044	SF	Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	6.03	
			<i>For Up To 100, Add</i>	4.22	
			<i>For >100 To 250, Add</i>	1.98	
			<i>For >250 To 500, Add</i>	0.85	
09 97	13 23-0045	SF	Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.69	
			<i>For Up To 100, Add</i>	2.55	
			<i>For >100 To 250, Add</i>	1.20	
			<i>For >250 To 500, Add</i>	0.52	
09 97	13 23-0046	SF	Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.62	
			<i>For Up To 100, Add</i>	1.76	
			<i>For >100 To 250, Add</i>	0.83	
			<i>For >250 To 500, Add</i>	0.36	
09 97	13 23-0047	SF	Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.41	
			<i>For Up To 100, Add</i>	1.60	
			<i>For >100 To 250, Add</i>	0.76	
			<i>For >250 To 500, Add</i>	0.33	
09 97	13 23-0048	SF	Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	4.53	
			<i>For Up To 100, Add</i>	3.16	
			<i>For >100 To 250, Add</i>	1.49	
			<i>For >250 To 500, Add</i>	0.64	
09 97	13 23-0049		Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97	13 23-0050	SF	Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.43	
			<i>For Up To 100, Add</i>	1.61	
			<i>For >100 To 250, Add</i>	0.76	
			<i>For >250 To 500, Add</i>	0.33	
09 97	13 23-0051	SF	Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.99	
			<i>For Up To 100, Add</i>	1.29	
			<i>For >100 To 250, Add</i>	0.61	
			<i>For >250 To 500, Add</i>	0.27	
09 97	13 23-0052	SF	Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.82	
			<i>For Up To 100, Add</i>	1.17	
			<i>For >100 To 250, Add</i>	0.55	
			<i>For >250 To 500, Add</i>	0.24	
09 97	13 23-0053	SF	Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.01	
			<i>For Up To 100, Add</i>	2.04	
			<i>For >100 To 250, Add</i>	0.96	
			<i>For >250 To 500, Add</i>	0.41	
09 97	13 23-0054	SF	Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.56	
			<i>For Up To 100, Add</i>	1.03	
			<i>For >100 To 250, Add</i>	0.49	
			<i>For >250 To 500, Add</i>	0.21	
09 97	13 23-0055	SF	Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.27	
			<i>For Up To 100, Add</i>	0.83	
			<i>For >100 To 250, Add</i>	0.39	
			<i>For >250 To 500, Add</i>	0.17	
09 97	13 23-0056	SF	Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.16	
			<i>For Up To 100, Add</i>	0.74	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0057	SF		Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.93	
			<i>For Up To 100, Add</i>	1.30	
			<i>For >100 To 250, Add</i>	0.62	
			<i>For >250 To 500, Add</i>	0.27	
09 97 13 23-0058	SF		Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.51	
			<i>For Up To 100, Add</i>	2.42	
			<i>For >100 To 250, Add</i>	1.14	
			<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0059	SF		Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.85	
			<i>For Up To 100, Add</i>	1.94	
			<i>For >100 To 250, Add</i>	0.92	
			<i>For >250 To 500, Add</i>	0.39	
09 97 13 23-0060	SF		Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.60	
			<i>For Up To 100, Add</i>	1.75	
			<i>For >100 To 250, Add</i>	0.83	
			<i>For >250 To 500, Add</i>	0.36	
09 97 13 23-0061	SF		Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	4.40	
			<i>For Up To 100, Add</i>	3.08	
			<i>For >100 To 250, Add</i>	1.45	
			<i>For >250 To 500, Add</i>	0.62	
09 97 13 23-0062	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.24	
			<i>For Up To 100, Add</i>	1.54	
			<i>For >100 To 250, Add</i>	0.73	
			<i>For >250 To 500, Add</i>	0.31	
09 97 13 23-0063	SF		Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.82	
			<i>For Up To 100, Add</i>	1.24	
			<i>For >100 To 250, Add</i>	0.58	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 23-0064	SF		Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.66	
			<i>For Up To 100, Add</i>	1.12	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.23	
09 97 13 23-0065	SF		Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.83	
			<i>For Up To 100, Add</i>	1.98	
			<i>For >100 To 250, Add</i>	0.93	
			<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0066			2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel <small>(09 97 13 23-0022)</small>		
09 97 13 23-0067	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	3.97	
			<i>For Up To 100, Add</i>	2.38	
			<i>For >100 To 250, Add</i>	1.14	
			<i>For >250 To 500, Add</i>	0.50	
09 97 13 23-0068	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.90	
			<i>For Up To 100, Add</i>	1.63	
			<i>For >100 To 250, Add</i>	0.79	
			<i>For >250 To 500, Add</i>	0.34	
09 97 13 23-0069	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.57	
			<i>For Up To 100, Add</i>	1.38	
			<i>For >100 To 250, Add</i>	0.67	
			<i>For >250 To 500, Add</i>	0.29	
09 97 13 23-0070	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	4.51	
			<i>For Up To 100, Add</i>	2.76	
			<i>For >100 To 250, Add</i>	1.32	
			<i>For >250 To 500, Add</i>	0.57	
09 97 13 23-0071	SF		Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.78	
			<i>For Up To 100, Add</i>	1.67	
			<i>For >100 To 250, Add</i>	0.80	
			<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0072	SF		Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.03	
			<i>For Up To 100, Add</i>	1.14	
			<i>For >100 To 250, Add</i>	0.55	
			<i>For >250 To 500, Add</i>	0.24	
09 97 13 23-0073	SF		Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.80	
			<i>For Up To 100, Add</i>	0.97	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.21	
09 97 13 23-0074	SF		Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	3.15	
			<i>For Up To 100, Add</i>	1.93	
			<i>For >100 To 250, Add</i>	0.92	
			<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0075			2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel <small>(09 97 13 23-0022)</small>		
09 97 13 23-0076	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	4.25	
			<i>For Up To 100, Add</i>	2.42	
			<i>For >100 To 250, Add</i>	1.17	
			<i>For >250 To 500, Add</i>	0.51	
09 97 13 23-0077	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.16	
			<i>For Up To 100, Add</i>	1.67	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.36	



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0078 SF Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.83	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.31	
09 97 13 23-0079 SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	4.80	
For Up To 100, Add	2.80	
For >100 To 250, Add	1.35	
For >250 To 500, Add	0.59	
09 97 13 23-0080 SF Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.49	
For Up To 100, Add	1.99	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.42	
09 97 13 23-0081 SF Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.59	
For Up To 100, Add	1.37	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 23-0082 SF Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.32	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
09 97 13 23-0083 SF Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	3.94	
For Up To 100, Add	2.30	
For >100 To 250, Add	1.11	
For >250 To 500, Add	0.48	
09 97 13 23-0084 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats		
For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0085 SF Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.92	
For Up To 100, Add	5.21	
For >100 To 250, Add	2.50	
For >250 To 500, Add	1.09	
09 97 13 23-0086 SF Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	6.76	
For Up To 100, Add	3.74	
For >100 To 250, Add	1.81	
For >250 To 500, Add	0.79	
09 97 13 23-0087 SF Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	6.51	
For Up To 100, Add	3.56	
For >100 To 250, Add	1.73	
For >250 To 500, Add	0.76	
09 97 13 23-0088 SF Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	10.37	
For Up To 100, Add	6.27	
For >100 To 250, Add	3.00	
For >250 To 500, Add	1.30	
09 97 13 23-0089 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural		
Steel (09 97 13 23-0022)		
09 97 13 23-0090 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.69	
For Up To 100, Add	2.54	
For >100 To 250, Add	1.23	
For >250 To 500, Add	0.54	
09 97 13 23-0091 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.69	
For Up To 100, Add	1.80	
For >100 To 250, Add	0.89	
For >250 To 500, Add	0.39	
09 97 13 23-0092 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.53	
For Up To 100, Add	1.68	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.37	
09 97 13 23-0093 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.32	
For Up To 100, Add	2.98	
For >100 To 250, Add	1.44	
For >250 To 500, Add	0.63	
09 97 13 23-0094 SF Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.70	
For Up To 100, Add	2.00	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.43	
09 97 13 23-0095 SF Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.92	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.31	
09 97 13 23-0096 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.78	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.29	
09 97 13 23-0097 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	4.20	
For Up To 100, Add	2.35	
For >100 To 250, Add	1.14	
For >250 To 500, Add	0.50	
09 97 13 23-0098 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0022)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0099 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.98	
For Up To 100, Add	2.43	
For >100 To 250, Add	1.16	
For >250 To 500, Add	0.51	
09 97 13 23-0100 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.23	
For Up To 100, Add	1.92	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
09 97 13 23-0101 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.99	
For Up To 100, Add	1.74	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.36	
09 97 13 23-0102 SF Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	4.92	
For Up To 100, Add	3.12	
For >100 To 250, Add	1.48	
For >250 To 500, Add	0.64	
09 97 13 23-0103 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0104 SF Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.84	
For Up To 100, Add	2.46	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.51	
09 97 13 23-0105 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.73	
For Up To 100, Add	1.65	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0106 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.32	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 23-0107 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	4.39	
For Up To 100, Add	2.84	
For >100 To 250, Add	1.35	
For >250 To 500, Add	0.58	
09 97 13 23-0108 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0109 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	2.06	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 23-0110 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.50	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 23-0111 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.42	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
09 97 13 23-0112 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.17	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
09 97 13 23-0113 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0022) Note: Installed over existing primer.		
09 97 13 23-0114 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.16	
For Up To 100, Add	1.86	
For >100 To 250, Add	0.89	
For >250 To 500, Add	0.39	
09 97 13 23-0115 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.59	
For Up To 100, Add	1.48	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
09 97 13 23-0116 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.26	
For Up To 100, Add	1.23	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 23-0117 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	3.69	
For Up To 100, Add	2.24	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.47	

09 97 13 24 Steel Water Storage Tank Painting (09 97 13)



Finishes	09	9
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0001 Surface Preparation For Tanks <small>(09 97 13 24)</small> Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002 SSSP SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.59	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.41	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	2.00	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
09 97 13 24-0006 SSSP SP7 Brush Off Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.91	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.74	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.27	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.18	
09 97 13 24-0010 SSSP SP6 Commercial Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.23	
For Up To 100, Add	1.55	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.31	
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.05	
For Up To 100, Add	1.41	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	2.97	
For Up To 100, Add	2.10	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.42	
09 97 13 24-0014 SSSP SP5 White Metal Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	4.03	
For Up To 100, Add	2.81	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.57	
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	3.85	
For Up To 100, Add	2.68	
For >100 To 250, Add	1.26	
For >250 To 500, Add	0.54	
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation	5.58	
For Up To 100, Add	3.98	
For >100 To 250, Add	1.87	
For >250 To 500, Add	0.80	
09 97 13 24-0018 SSSP SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.21	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.45	
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.21	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.45	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.68	
For Up To 100, Add	3.35	
For >100 To 250, Add	1.57	
For >250 To 500, Add	0.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0022			Protective Coatings For Tanks <small>(09 97 13 24)</small> Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023			1.5 Mil Prime Coat For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0024	SF		Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.63	
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
09 97 13 24-0025	SF		Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.51	
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.06	
09 97 13 24-0026	SF		Spray Tank Interior 1.5 Mil Prime Coat	1.21	
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
09 97 13 24-0027	SF		Brush Small Vessel/Tank 1.5 Mil Prime Coat	0.88	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.71	
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
09 97 13 24-0029	SF		Brush Tank Interior 1.5 Mil Prime Coat	1.77	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.25	
09 97 13 24-0030			1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0031	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.85	
			For Up To 100, Add	1.12	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
09 97 13 24-0032	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.43	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
09 97 13 24-0033	SF		Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.41	
			For Up To 100, Add	2.29	
			For >100 To 250, Add	1.08	
			For >250 To 500, Add	0.47	
09 97 13 24-0034	SF		Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.39	
			For Up To 100, Add	0.84	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
09 97 13 24-0035	SF		Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.08	
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
09 97 13 24-0036	SF		Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.56	
			For Up To 100, Add	1.72	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
09 97 13 24-0037	SF		Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.78	
			For Up To 100, Add	1.82	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
09 97 13 24-0038	SF		Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.10	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
09 97 13 24-0039	SF		Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.41	
			For Up To 100, Add	3.79	
			For >100 To 250, Add	1.78	
			For >250 To 500, Add	0.77	
09 97 13 24-0040	SF		Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.09	
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 24-0041	SF		Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.58	
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 97 13 24-0042	SF		Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.06	
			For Up To 100, Add	2.85	
			For >100 To 250, Add	1.34	
			For >250 To 500, Add	0.58	
09 97 13 24-0043			Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0044 SF Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.65	
For Up To 100, Add	1.05	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 24-0045 SF Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.40	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 24-0046 SF Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.54	
For Up To 100, Add	2.46	
For >100 To 250, Add	1.16	
For >250 To 500, Add	0.50	
09 97 13 24-0047 SF Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.05	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 24-0048 SF Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.88	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
09 97 13 24-0049 SF Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.26	
For Up To 100, Add	1.58	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
09 97 13 24-0050 SF Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.33	
For Up To 100, Add	1.56	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
09 97 13 24-0051 SF Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.96	
For Up To 100, Add	1.28	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
09 97 13 24-0052 SF Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	5.58	
For Up To 100, Add	4.07	
For >100 To 250, Add	1.90	
For >250 To 500, Add	0.82	
09 97 13 24-0053 SF Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.49	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
09 97 13 24-0054 SF Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.25	
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 24-0055 SF Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	3.65	
For Up To 100, Add	2.62	
For >100 To 250, Add	1.23	
For >250 To 500, Add	0.53	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0057 SF Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.37	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
09 97 13 24-0058 SF Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.04	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.22	
09 97 13 24-0059 SF Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.67	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 24-0060 SF Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.43	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0062 SF Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.62	
For Up To 100, Add	1.29	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.28	
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.29	
For Up To 100, Add	1.04	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.15	
For Up To 100, Add	1.05	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	

09	Finishes
09 90	Painting and Coating
09 97	Special Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0065	SF		Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.88	
			For Up To 100, Add	0.85	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
09 97 13 24-0066			1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats		
			For Tanks (09 97 13 24-0022)		
09 97 13 24-0067	SF		Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.27	
			For Up To 100, Add	3.42	
			For >100 To 250, Add	1.66	
			For >250 To 500, Add	0.73	
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	5.78	
			For Up To 100, Add	3.05	
			For >100 To 250, Add	1.49	
			For >250 To 500, Add	0.65	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	9.58	
			For Up To 100, Add	5.90	
			For >100 To 250, Add	2.82	
			For >250 To 500, Add	1.22	
09 97 13 24-0070			1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0071	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.29	
			For Up To 100, Add	1.60	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.35	
09 97 13 24-0072	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	2.93	
			For Up To 100, Add	1.33	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.30	
09 97 13 24-0073	SF		Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.91	
			For Up To 100, Add	2.82	
			For >100 To 250, Add	1.36	
			For >250 To 500, Add	0.59	
09 97 13 24-0074	SF		Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.59	
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.28	
09 97 13 24-0075	SF		Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.31	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0076	SF		Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	3.88	
			For Up To 100, Add	2.23	
			For >100 To 250, Add	1.08	
			For >250 To 500, Add	0.47	
09 97 13 24-0077			Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078	SF		Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.96	
			For Up To 100, Add	1.73	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.36	
09 97 13 24-0079	SF		Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.47	
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
09 97 13 24-0080	SF		Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	3.78	
			For Up To 100, Add	2.35	
			For >100 To 250, Add	1.12	
			For >250 To 500, Add	0.49	
09 97 13 24-0081			One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0082	SF		Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.05	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
09 97 13 24-0083	SF		Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.88	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 24-0084	SF		Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.12	
			For Up To 100, Add	1.96	
			For >100 To 250, Add	0.93	
			For >250 To 500, Add	0.40	
09 97 13 24-0085			Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)		



Finishes	09	
Painting and Coating	09 90	09
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0086 SF Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	4.50	
For Up To 100, Add	2.66	
For >100 To 250, Add	1.28	
For >250 To 500, Add	0.56	
09 97 13 24-0087 SF Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	2.75	
For Up To 100, Add	1.41	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0089 SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.31	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 97 13 24-0090 SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.28	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	2.06	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
Note: Installed over existing primer.		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.16	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.91	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.98	
For Up To 100, Add	1.79	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	7.82	
For Up To 100, Add	4.95	
For >100 To 250, Add	2.35	
For >250 To 500, Add	1.02	
09 97 26 Cementitious Coatings (09 97)		
09 97 26 13 Interior Cementitious Coatings (09 97 26)		
09 97 26 13-0001 Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		
09 97 26 13-0003 SF Ceramic-like Glazed Coating - Cementitious.....	3.16	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin.....	2.62	
09 97 35 Dry Erase Coatings (09 97)		
09 97 35 00-0001 Dry-Erase Paint (09 97 35)		
09 97 35 00-0002 Dry-Erase Paint (IdeaPaint™ PRO) (09 97 35 00-0001)		
09 97 35 00-0003 SF Dry-Erase Paint (IdeaPaint™ PRO), Applied With Roller.....	10.97	
Note: Includes two coats of primer and white, white sand, light beige or light gray surface.		
09 97 35 00-0004 Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE) (09 97 35 00-0001)		
09 97 35 00-0005 SF Clear, Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE), Applied With Roller.....	5.95	
Note: For application over existing latex-based top coats.		
09 97 35 00-0006 SF Black Or White, Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE), Applied With Roller.....	11.68	
Note: Includes two coats of primer and white or black surface coat.		
09 97 63 Special Coatings and Protection Systems (09 97)		
09 97 63 00-0001 Acrylic Glazed Coating (09 97 63)		
09 97 63 00-0002 SF Acrylic Glazed Coating.....	2.02	

09	09	Finishes
	09 90	Painting and Coating
	09 97	Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 Conveying Equipment

14 01 Operation and Maintenance of Conveying Equipment ⁽¹⁴⁾

14 01 20 Operation and Maintenance of Elevators ^(14 01)

14 01 20 71 Elevator Rehabilitation ^(14 01 20)

14 01 20 71-0001 Elevator Maintenance ^(14 01 20 71)

14 01 20 71-0002	EA	Regular Routine Elevator Inspection, Traction Up to 10 floors (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0003	EA	Regular Routine Elevator Inspection, Traction Over 10 floors (Sufficient for Issue of Certificate/Permit)	538.31	
14 01 20 71-0004	EA	Regular Routine Elevator Inspection, Hydraulic (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0005	EA	Regular Routine Elevator Inspection, Roped Hydraulic (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0006	EA	Regular Routine Elevator Inspection, Dumbwaiter/Cart Lifts (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0007	HR	Elevator Servicing - Hydraulic, Labor Only	176.52	
14 01 20 71-0008	HR	Elevator Servicing - Traction, Labor Only	353.05	
14 01 20 71-0009	EA	Annual Category 1 Test for Traction Up to 10 floors	1,282.62	
14 01 20 71-0010	EA	Annual Category 1 Test for Traction Over 10 floors	1,282.62	
14 01 20 71-0011	EA	Annual Category 1 Test for Hydraulic Elevator	1,282.62	
14 01 20 71-0012	EA	Annual Category 1 Test for Roped Hydraulic Elevator	1,282.62	
14 01 20 71-0013	EA	Annual Category 1 Test for Dumbwaiter/Cart Lifts	961.97	
14 01 20 71-0014	EA	Full Load Test for Traction Up to 10 floors	2,565.25	
14 01 20 71-0015	EA	Full Load Test for Traction Over 10 floors	2,565.25	
14 01 20 71-0016	EA	Full Load Test for Hydraulic Elevator	2,565.25	
14 01 20 71-0017	EA	Full Load Test for Roped Hydraulic Elevator	2,565.25	
14 01 20 71-0018	EA	Full Load Test for Dumbwaiter/Cart Lifts	1,923.93	
14 01 20 71-0019	EA	Acceptance Test for Traction Up to 10 floors	2,032.40	
14 01 20 71-0020	EA	Acceptance Test for Traction Over 10 floors	2,032.40	
14 01 20 71-0021	EA	Acceptance Test for Hydraulic Elevator	2,032.40	
14 01 20 71-0022	EA	Acceptance Test for Roped Hydraulic Elevator	2,032.40	
14 01 20 71-0023	EA	Acceptance Test for Dumbwaiter/Cart Lifts	2,032.40	

14 01 20 71-0024 Elevator Modernization ^(14 01 20 71)

14 01 20 71-0025	EA	5" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	29,590.98	7,947.39
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	7,931.16	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	7,626.39	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0026	EA	6" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	33,398.58	9,603.09
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	8,006.68	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	8,009.39	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0027	EA	8" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	44,323.08	13,245.64
		Note: Includes replacing existing piston/cylinder, 12 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	9,215.00	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	9,872.39	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0028	EA	Removal And Replacement Of Multi-Port Controller Valve	4,815.78	
14 01 20 71-0029	EA	5 Gallon Container Of Hydraulic Oil For Elevator Modernization	47.96	
14 01 20 71-0030	EA	55 Gallon Container Of Hydraulic Oil For Elevator Modernization	475.40	
14 01 20 71-0031	SET	Car Roller Guide Assembly, Set Of Four	3,548.60	662.29
		Note: Includes cover plate.		
14 01 20 71-0032	SET	CWT Roller Guide Assembly, Set Of Four	3,059.23	662.29
		Note: Includes cover plate.		
14 01 20 71-0033	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Baked Enamel Finish	7,001.99	
		Note: Excludes buildback.		
14 01 20 71-0034	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Satin Stainless Finish	7,606.15	
		Note: Excludes buildback.		
14 01 20 71-0035	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Baked Enamel Finish	7,390.16	
		Note: Excludes buildback.		
14 01 20 71-0036	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Satin Stainless Finish	7,994.32	
		Note: Excludes buildback.		
14 01 20 71-0037	SF	Cab Flooring, Epoxy Aggregate	79.44	18.93
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0038	SF	Cab Flooring, Aluminum Diamond Plate	68.71	18.93
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0039	EA	Solid State Starting (Soft Start)	5,762.85	662.29
14 01 20 71-0040	EA	Pump Unit (Tank, Valve, Oil, Motor And Victaulic Fittings)	20,507.04	3,311.42
14 01 20 71-0041	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Side Slide (GAL)	2,180.18	662.29
14 01 20 71-0042	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Side Slide (GAL)	445.93	331.14
14 01 20 71-0043	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Side Slide (GAL)	399.11	331.14
14 01 20 71-0044	EA	Hoistway Door Interlock Set, Single Speed Side Slide (GAL)	548.64	331.14
14 01 20 71-0045	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Center Opening (GAL)	2,417.31	662.29
14 01 20 71-0046	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Center Opening (GAL)	560.72	331.14
14 01 20 71-0047	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Center Opening (GAL)	399.11	331.14

14 Conveying Equipment
14 01 Operation and Maintenance of Conveying Equipment
14 01 20 Operation and Maintenance of Elevators



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0048 EA Hoistway Door Interlock Set, Single Speed Center Opening (GAL).....	655.88	331.14
14 01 20 71-0049 EA Fire Service Key Switch Contoller.....	3,361.31	662.29
14 01 20 71-0050 EA ADA Telephone (Rath Microtech).....	1,605.13	331.14
14 01 20 71-0051 EA Car Door Operator With ADA Buzzer, Single Speed Side Slide (GAL).....	7,553.34	1,324.56
14 01 20 71-0052 EA Car Door Operator With ADA Buzzer, Single Speed Center Opening (GAL).....	7,749.69	1,324.56
14 01 20 71-0053 EA Car Door Safety Edge (Infrared Proximity Type Edge).....	1,667.06	331.14
14 01 20 71-0054 EA Car Operating Panel (ADA, Fire, Position, Chime).....	7,598.65	1,324.56
14 01 20 71-0055 EA Car Position LED Indicator And Cover Plate, Stainless Steel.....	2,126.22	331.14
14 01 20 71-0056 EA Car Traveling Lanterns With Audible Signal.....	1,446.54	331.14
14 01 20 71-0057 EA Hoistway Door Jamb Floor Tags (Braille).....	219.94	165.57
14 01 20 71-0058 EA Lobby Vandal Resistant Call Station.....	1,371.02	331.14
14 01 20 71-0059 LF Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	17.46	
Note: Excludes Removal and Replacement of Material. See CSI section 14 01 20 71-0060 for Removal and Replacement of Traveling Cable.		
14 01 20 71-0060 EA Removal And Replacement Of Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	5,298.26	2,649.13
Note: Excludes Traveling Cable material. See CSI section 14 01 20 71-0059 for Traveling Cable material.		
14 01 20 71-0061 LF Governor Cable.....	1.36	
Note: Removal and Replacement of Governor Cable is part of Traveling Cable Removal and Replacement.		
14 01 20 71-0062 EA Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Plastic Laminate - Hang On Panels).....	5,007.65	662.29
14 01 20 71-0063 EA Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Rigid Stainless Steel - Hang On Panels).....	7,726.37	662.29
14 01 20 71-0064 EA Removal And Replacement Of Governor.....	4,735.78	662.29
14 01 20 71-0065 EA Removal And Replacement Of Car Station.....	7,598.65	1,324.56
14 01 20 71-0066 EA Removal And Replacement Of Telephone.....	1,605.13	331.14
14 01 20 71-0067 EA Removal And Replacement Of Lanterns (Hall).....	1,522.06	331.14
14 01 20 71-0068 EA Hall Call Buttons, Vandal Resistant.....	1,295.50	331.14
14 01 20 71-0069 EA Hall Traveling Lanterns With Audible Signal.....	1,522.06	331.14
14 01 20 71-0070 EA Add Raised Character (Braille) Signage To Control Panel.....	183.24	165.57
14 01 20 71-0071 EA New Microprocessor Based Contoller (Non-Proprietary).....	36,644.99	5,298.26
14 01 20 71-0072 EA New Steel Shell And Canopy (Excludes Plastic Panels), For 5' x 7' Cab.....	23,051.39	5,298.26
14 01 20 71-0073 EA New Steel Shell, Canopy And Platform (Excludes Plastic Laminate), For 5' x 7' Cab.....	35,901.64	5,298.26
14 01 20 71-0074 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangment), Baked Enamel.....	2,893.09	
14 01 20 71-0075 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangment), Baked Enamel.....	3,044.13	
14 01 20 71-0076 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangment), Stainless Steel.....	3,210.27	
14 01 20 71-0077 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangment), Stainless Steel.....	3,391.52	
14 01 20 71-0078 EA Elevator Pit Ladder, Steel.....	1,748.62	331.14
Note: Labor cost is for bolting to concrete pit wall.		
14 01 20 71-0079 EA New Steel Shell, Canopy, Platform, Standard Cab Plastic Laminate, For 5' x 7' Cab.....	44,592.37	5,298.26
14 01 20 71-0080 LF Removal And Replacement Of Hoisting Cable, 3/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 4.5, EHS Traction Steel - 5.5.....	133.82	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0081 LF Removal And Replacement Of Hoisting Cable, 1/2" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 6.0, EHS Traction Steel - 9.7.....	134.35	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0082 LF Removal And Replacement Of Hoisting Cable, 5/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 12.7, EHS Traction Steel - 15.4.....	134.83	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0083 EA Hydraulic Leak Detector And Alarm in Elevator Pit (Stancor Oil Minder - 0.5 HP).....	8,070.74	662.29
14 01 20 71-0084 EA 6" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,346.21	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0085 EA 8" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,421.73	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0086 EA 10" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,497.25	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0087 EA 12" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,587.87	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0088 EA "Rope Gripper" With Pumping Unit For Use On 4-7/8" Maximum Out to Out Of Cable.....	7,273.25	662.29
14 01 20 71-0089 EA "Rope Gripper" With Pumping Unit For Use On 6" Maximum Out to Out Of Cable.....	7,273.25	662.29
14 01 20 71-0090 EA "Rope Gripper" With Pumping Unit For Use On 10" Maximum Out to Out Of Cable.....	10,294.05	662.29
14 01 20 71-0091 EA "Rope Gripper" With Pumping Unit For Use On 11-1/2" Maximum Out to Out Of Cable.....	11,804.45	662.29
14 01 20 71-0092 EA 60 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	3,214.71	167.98
14 01 20 71-0093 EA 100 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	3,383.31	201.58
14 01 20 71-0094 EA 200 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	4,483.76	235.17
14 01 20 71-0095 EA Aluminum Handrail Spacers With Set Screw.....	196.94	165.57
14 01 20 71-0096 EA Bronze Handrail Spacers With Set Screw.....	201.12	165.57
14 01 20 71-0097 LF 1/2" x 2" Round Stainless Steel Elevator Handrail.....	133.05	38.96
14 01 20 71-0098 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	128.13	38.96
14 01 20 71-0099 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	151.14	38.96
14 01 20 71-0100 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	166.73	38.96
14 01 20 71-0101 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	189.93	38.96
14 01 20 71-0102 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish.....	154.04	38.96
14 01 20 71-0103 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish.....	174.53	38.96
14 01 20 71-0104 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish.....	268.50	38.96
14 01 20 71-0105 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish.....	301.01	38.96
14 01 20 71-0106 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	127.34	38.96
14 01 20 71-0107 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	128.59	38.96
14 01 20 71-0108 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	162.62	38.96
14 01 20 71-0109 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	152.59	38.96
14 01 20 71-0110 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	163.29	38.96
14 01 20 71-0111 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	203.18	38.96
14 01 20 71-0112 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	157.67	38.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0113 LF 3/8" x 2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	161.11	38.96
14 01 20 71-0114 LF 3/8" x 2-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	266.06	38.96
14 01 20 71-0115 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Mirror Finish.....	176.52	38.96
14 01 20 71-0116 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	266.72	38.96
14 01 20 71-0117 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	301.01	38.96

14 01 30 Operation and Maintenance of Escalators and Moving Walks ⁽¹⁴⁾

14 01 30 71 Escalators and Moving Walks Rehabilitation ^(14 01 30)

14 01 30 71-0001 Maintenance ^(14 01 30 71)

14 01 30 71-0002 EA Regular Escalator Inspection (Sufficient For Issue Of Certificate/Permit).....	755.68
14 01 30 71-0003 HR Escalator Servicing, Labor Only.....	176.52
14 01 30 71-0004 EA Acceptance Test Of Escalators And Moving Walks.....	4,156.27

14 01 30 71-0005 Modernization ^(14 01 30 71)

14 01 30 71-0006 EA Removal And Replacement Of 28" Wide Escalator Stair Tread.....	1,844.33
14 01 30 71-0007 EA Removal And Replacement Of 36" Wide Escalator Stair Tread.....	1,975.96
14 01 30 71-0008 EA Removal And Replacement Of 48" Wide Escalator Stair Tread.....	2,072.56
14 01 30 71-0009 EA Removal And Replacement Of 54" Wide Escalator Stair Tread.....	2,235.11
14 01 30 71-0010 LF Removal And Replacement Of Sliding Handrail.....	173.18

14 20 Elevators ⁽¹⁴⁾

Note: Excludes final electrical work or shaft walls.

14 21 Electric Traction Elevators ^(14 20)

14 21 13 Electric Traction Freight Elevators ^(14 21)

14 21 13 00-0001 Electric Traction Freight Elevators ^(14 21 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings with power doors.

14 21 13 00-0002 EA Electric Traction Freight Elevator, 4,000 LB x 200 FPM.....	440,993.39
For Each Opening With Bonderized Steel Door, Add	200.00
For Each Opening With Stainless Steel Doors, Add	500.00
For Each Opening With Two Speed Doors, Add	500.00
For Custom Plastic Laminated Cab Interiors, Add	4,000.00
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
For Stainless Steel Cab Interior, Add	8,000.00
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	1,666.00
For Class "C-2" Loading, Add	2,000.00
For Class "C-3" Loading, Add	2,736.00
For Removal Of Existing Stop, Add	8,298.34
For Each Additional Stop, Add	34,758.45
For Each Floor < 6 Stops, Deduct	-29,559.36
For Each Additional 50 FPM, Add	6,000.00
For Removal Of Existing Elevator, Add	41,491.70
14 21 13 00-0003 EA Electric Traction Freight Elevator, 5,000 LB x 200 FPM.....	472,335.70
For Each Opening With Bonderized Steel Door, Add	200.00
For Each Opening With Stainless Steel Doors, Add	500.00
For Each Opening With Two Speed Doors, Add	500.00
For Custom Plastic Laminated Cab Interiors, Add	4,000.00
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
For Stainless Steel Cab Interior, Add	8,000.00
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	1,666.00
For Class "C-2" Loading, Add	2,000.00
For Class "C-3" Loading, Add	2,736.00
For Removal Of Existing Stop, Add	8,298.34
For Each Additional Stop, Add	34,758.45
For Each Floor < 6 Stops, Deduct	-29,559.36
For Each Additional 50 FPM, Add	6,000.00
For Removal Of Existing Elevator, Add	41,491.70
14 21 13 00-0004 EA Electric Traction Freight Elevator, 6,000 LB x 200 FPM.....	503,678.01
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	3,332.00
For Class "C-2" Loading, Add	4,000.00
For Class "C-3" Loading, Add	5,544.00
For Custom Plastic Laminated Cab Interiors, Add	5,000.00
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00
For Stainless Steel Cab Interior, Add	9,000.00
For Removal Of Existing Stop, Add	8,298.34
For Each Additional Stop, Add	35,745.85
For Each Additional 50 FPM, Add	6,000.00
For Each Opening With Bonderized Steel Door, Add	300.00
For Each Opening With Stainless Steel Doors, Add	600.00
For Each Opening With Two Speed Doors, Add	700.00
For Removal Of Existing Elevator, Add	41,491.70
For Each Floor < 6 Stops, Deduct	-30,559.36

14 Conveying Equipment**14 20 Elevators****14 21 Electric Traction Elevators**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 21	13 00-0005	EA	Electric Traction Freight Elevator, 7,000 LB x 200 FPM	519,610.90	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Class "C-1" Loading, Add</i>	3,332.00	
			<i>For Class "C-2" Loading, Add</i>	4,000.00	
			<i>For Class "C-3" Loading, Add</i>	5,544.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	9,000.00	
			<i>For Removal Of Existing Stop, Add</i>	8,298.34	
			<i>For Each Additional Stop, Add</i>	35,745.85	
			<i>For Each Additional 50 FPM, Add</i>	6,000.00	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	300.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	600.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	700.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,491.70	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,559.36	
14 21	13 00-0006	EA	Electric Traction Freight Elevator, 8,000 LB x 200 FPM	535,543.13	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	10,000.00	
			<i>For Class "C-1" Loading, Add</i>	6,666.00	
			<i>For Class "C-2" Loading, Add</i>	8,000.00	
			<i>For Class "C-3" Loading, Add</i>	10,944.00	
			<i>For Removal Of Existing Stop, Add</i>	8,298.34	
			<i>For Each Additional Stop, Add</i>	35,745.85	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	400.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	700.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	800.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	10,000.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,491.70	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,559.36	
14 21	13 00-0007	EA	Electric Traction Freight Elevator, 10,000 LB x 200 FPM	554,481.57	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	10,000.00	
			<i>For Class "C-1" Loading, Add</i>	6,666.00	
			<i>For Class "C-2" Loading, Add</i>	8,000.00	
			<i>For Class "C-3" Loading, Add</i>	10,944.00	
			<i>For Removal Of Existing Stop, Add</i>	8,298.34	
			<i>For Each Additional Stop, Add</i>	35,745.85	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	400.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	700.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	800.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	10,000.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,491.70	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,559.36	
14 21	13 00-0008	EA	Electric Traction Freight Elevator, 12,000 LB x 200 FPM	569,794.50	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	10,000.00	
			<i>For Class "C-1" Loading, Add</i>	6,666.00	
			<i>For Class "C-2" Loading, Add</i>	8,000.00	
			<i>For Class "C-3" Loading, Add</i>	10,944.00	
			<i>For Removal Of Existing Stop, Add</i>	8,298.34	
			<i>For Each Additional Stop, Add</i>	35,745.85	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	400.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	700.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	800.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	10,000.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,491.70	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,559.36	

14 21 23 Electric Traction Passenger Elevators (14 21)**14 21 23 13 Machine Room Electric Traction Passenger Elevators (14 21 23)****14 21 23 13-0001 Electric Traction Passenger Elevators (14 21 23 13)**

Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings.

14 21	23 13-0002	EA	Electric Traction Passenger Elevator, 2,000 LB x 200 FPM	349,932.05	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	200.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	500.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	8,000.00	
			<i>For Each Additional 50 FPM, Add</i>	1,000.00	
			<i>For Removal Of Existing Stop, Add</i>	4,151.69	
			<i>For Each Additional Stop, Add</i>	34,758.45	
			<i>For Each Floor < 6 Stops, Deduct</i>	-20,379.22	
			<i>For Removal Of Existing Elevator, Add</i>	31,137.68	



Conveying Equipment	14	14
Elevators	14 20	
Electric Traction Elevators	14 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 21 23 13-0003 EA Electric Traction Passenger Elevator, 2,500 LB x 200 FPM	359,061.21	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0004 EA Electric Traction Passenger Elevator, 3,000 LB x 200 FPM	366,488.75	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0005 EA Electric Traction Passenger Elevator, 3,500 LB x 200 FPM	368,660.70	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0006 EA Electric Traction Passenger Elevator, 4,000 LB x 200 FPM	375,479.63	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0007 EA Electric Traction Passenger Elevator, 4,500 LB x 200 FPM	382,115.20	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0008 EA Electric Traction Passenger Elevator, 5,000 LB x 200 FPM	388,978.69	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	

14 24 Hydraulic Elevators (14 20)

Note: Prices are for a complete operating elevator including all standard controls, hydraulic motor and devices based on unit with cab sized 5' by 8' with galvanized primed shaft door with cab allowances as listed below.

14 24 13 Hydraulic Freight Elevators (14 24)

14 24 13 00-0001 Hydraulic Freight Elevators (14 24 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings with power doors.

14 Conveying Equipment

14 20 Elevators

14 24 Hydraulic Elevators



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24	13 00-0002	EA	Hydraulic Freight Elevator, 3,000 LB x 50 FPM	195,613.52	
			For Each Additional Stop, Add	20,225.64	
			For 2 Stops, Deduct	-15,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Class "C-1" Loading, Add	1,666.00	
			For Class "C-2" Loading, Add	2,000.00	
			For Class "C-3" Loading, Add	2,736.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,298.34	
14 24	13 00-0003	EA	Hydraulic Freight Elevator, 3,500 LB x 50 FPM	201,904.63	
			For Each Additional Stop, Add	20,225.64	
			For 2 Stops, Deduct	-15,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Class "C-1" Loading, Add	1,666.00	
			For Class "C-2" Loading, Add	2,000.00	
			For Class "C-3" Loading, Add	2,736.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,298.34	
14 24	13 00-0004	EA	Hydraulic Freight Elevator, 4,000 LB x 50 FPM	208,728.98	
			For Each Additional Stop, Add	20,225.64	
			For 2 Stops, Deduct	-15,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Class "C-1" Loading, Add	1,666.00	
			For Class "C-2" Loading, Add	2,000.00	
			For Class "C-3" Loading, Add	2,736.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,298.34	
14 24	13 00-0005	EA	Hydraulic Freight Elevator, 5,000 LB x 50 FPM	213,804.98	
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Each Additional Stop, Add	21,225.64	
			For 2 Stops, Deduct	-16,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Class "C-1" Loading, Add	3,332.00	
			For Class "C-2" Loading, Add	4,000.00	
			For Class "C-3" Loading, Add	5,544.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,298.34	



Conveying Equipment	14
Elevators	14 20
Hydraulic Elevators	14 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0006 EA Hydraulic Freight Elevator, 6,000 LB x 50 FPM	226,034.43	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Each Additional 50 FPM, Add	10,000.00	
For Class "C-1" Loading, Add	6,666.00	
For Class "C-2" Loading, Add	8,000.00	
For Class "C-3" Loading, Add	10,944.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,298.34	
14 24 13 00-0007 EA Hydraulic Freight Elevator, 7,000 LB x 50 FPM	231,895.31	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Each Additional 50 FPM, Add	10,000.00	
For Class "C-1" Loading, Add	6,666.00	
For Class "C-2" Loading, Add	8,000.00	
For Class "C-3" Loading, Add	10,944.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,298.34	
14 24 13 00-0008 EA Hydraulic Freight Elevator, 8,000 LB x 50 FPM	240,801.88	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Each Additional 50 FPM, Add	11,000.00	
For Class "C-1" Loading, Add	8,330.00	
For Class "C-2" Loading, Add	10,000.00	
For Class "C-3" Loading, Add	13,680.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,298.34	
14 24 13 00-0009 EA Hydraulic Freight Elevator, 10,000 LB x 50 FPM	247,165.90	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,298.34	
For Each Additional 50 FPM, Add	12,000.00	
For Class "C-1" Loading, Add	11,079.00	
For Class "C-2" Loading, Add	13,300.00	
For Class "C-3" Loading, Add	18,194.00	

14 Conveying Equipment**14 20 Elevators****14 24 Hydraulic Elevators**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0010 EA Hydraulic Freight Elevator, 12,000 LB x 50 FPM	258,184.31	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,298.34	
For Each Additional 50 FPM, Add	12,000.00	
For Class "C-1" Loading, Add	11,079.00	
For Class "C-2" Loading, Add	13,300.00	
For Class "C-3" Loading, Add	18,194.00	
14 24 13 00-0011 Hydraulic Elevators Piston Drilling (1424 13)		
14 24 13 00-0012 VLF Up To 6" Diameter Piston Drilling	86.88	
Note: Includes casing.		
14 24 13 00-0013 VLF 8" To 10" Diameter Piston Drilling.....	103.46	
Note: Includes casing.		
14 24 23 Hydraulic Passenger Elevators (14 24)		
14 24 23 00-0001 Hydraulic Passenger Elevators (1424 23)		
Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings.		
14 24 23 00-0002 EA Hydraulic Passenger Elevator, 2,100 LB x 100 FPM	137,993.00	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0003 EA Hydraulic Passenger Elevator, 2,500 LB x 100 FPM	140,531.00	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0004 EA Hydraulic Passenger Elevator, 3,000 LB x 100 FPM	142,275.88	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		



Conveying Equipment 14

Elevators 14 20

Hydraulic Elevators 14 24

14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 24 23 00-0005	EA Hydraulic Passenger Elevator, 3,500 LB x 100 FPM	148,953.44	
	<i>For Each Additional Stop, Add</i>	20,225.64	
	<i>For Each Opening With Bonderized Steel Door, Add</i>	200.00	
	<i>For Each Opening With Stainless Steel Doors, Add</i>	500.00	
	<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,000.00	
	<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,000.00	
	<i>For Stainless Steel Cab Interior, Add</i>	8,000.00	
	<i>For Well Hole Drilling (12" Diameter Hole), Add</i>	170.00	
	<i>Note: Includes Labor and Equipment.</i>		
	<i>For 12" Steel Liner, Add</i>	90.00	
	<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
	<i>For Each Additional 50 FPM, Add</i>	1,000.00	
	<i>For Removal Of Existing Elevator, Add</i>	20,717.24	
	<i>For Removal Of Existing Stop, Add</i>	4,151.69	
	<i>For 2 Stops, Deduct</i>	-10,000.00	

14 24 23 00-0006	EA Hydraulic Passenger Elevator, 4,000 LB x 100 FPM	151,699.46	
	<i>For Each Additional Stop, Add</i>	20,225.64	
	<i>For Each Opening With Bonderized Steel Door, Add</i>	200.00	
	<i>For Each Opening With Stainless Steel Doors, Add</i>	500.00	
	<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,000.00	
	<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,000.00	
	<i>For Stainless Steel Cab Interior, Add</i>	8,000.00	
	<i>For Well Hole Drilling (12" Diameter Hole), Add</i>	170.00	
	<i>Note: Includes Labor and Equipment.</i>		
	<i>For 12" Steel Liner, Add</i>	90.00	
	<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
	<i>For Each Additional 50 FPM, Add</i>	1,000.00	
	<i>For Removal Of Existing Elevator, Add</i>	20,717.24	
	<i>For Removal Of Existing Stop, Add</i>	4,151.69	
	<i>For 2 Stops, Deduct</i>	-10,000.00	

14 24 23 00-0007	EA Hydraulic Passenger Elevator, 4,500 LB x 100 FPM	155,411.29	
	<i>For Each Additional Stop, Add</i>	20,225.64	
	<i>For Each Opening With Bonderized Steel Door, Add</i>	200.00	
	<i>For Each Opening With Stainless Steel Doors, Add</i>	500.00	
	<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,000.00	
	<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,000.00	
	<i>For Stainless Steel Cab Interior, Add</i>	8,000.00	
	<i>For Well Hole Drilling (12" Diameter Hole), Add</i>	170.00	
	<i>Note: Includes Labor and Equipment.</i>		
	<i>For 12" Steel Liner, Add</i>	90.00	
	<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
	<i>For Each Additional 50 FPM, Add</i>	1,000.00	
	<i>For Removal Of Existing Elevator, Add</i>	20,717.24	
	<i>For Removal Of Existing Stop, Add</i>	4,151.69	
	<i>For 2 Stops, Deduct</i>	-10,000.00	

14 24 23 00-0008	EA Hydraulic Passenger Elevator, 5,000 LB x 100 FPM	159,164.25	
	<i>For Each Additional Stop, Add</i>	20,225.64	
	<i>For Each Opening With Bonderized Steel Door, Add</i>	200.00	
	<i>For Each Opening With Stainless Steel Doors, Add</i>	500.00	
	<i>For Each Opening With Two Speed Doors, Add</i>	500.00	
	<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,000.00	
	<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,000.00	
	<i>For Stainless Steel Cab Interior, Add</i>	8,000.00	
	<i>For Well Hole Drilling (12" Diameter Hole), Add</i>	170.00	
	<i>Note: Includes Labor and Equipment.</i>		
	<i>For 12" Steel Liner, Add</i>	90.00	
	<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
	<i>For Each Additional 50 FPM, Add</i>	1,000.00	
	<i>For Removal Of Existing Elevator, Add</i>	20,717.24	
	<i>For Removal Of Existing Stop, Add</i>	4,151.69	
	<i>For 2 Stops, Deduct</i>	-10,000.00	

14 24 23 00-0009	Twin Jack Holeless Hydraulic Passenger Elevator ^(14 24 23) Note: Baked enamel shaft doors and plastic laminated trimmed cab. Excludes flooring, shaft construction/alterations, pit or mechanical room construction. Connect to established utilities.		
14 24 23 00-0010	EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 3 Stops, 3 Openings	78,924.91	9,763.56
14 24 23 00-0011	EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 2 Stops, 2 Openings	59,878.90	8,341.96

14 26 Limited-Use/Limited-Application Elevators ^(14 20)

14 26 00 00-0001	Small Elevators (LULA) ^(14 26)		
14 26 00 00-0002	EA Small Elevators (LULA), 1,400 LB x 30 FPM	78,312.75	
	<i>Note: 3 phase, automatic operation, includes cab interior, telephone box and telephone. 2 stops and 12 feet of rise.</i>		
	<i>For Each Additional Stop, Add</i>	17,223.76	
	<i>For Removal Of Existing Elevator, Add</i>	6,223.76	

14 30 Escalators and Moving Walks ⁽¹⁴⁾

14 Conveying Equipment
14 30 Escalators and Moving Walks
 14 31 Escalators



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 31 Escalators ^(14 30)

14 31 00 00-0001

Stainless Steel Escalator Construction ^(14 31)

Note: Prices are medians and are based on each moving stairway. Complete, includes all standard accessories and single microprocessor controlled electronic display sign packages, LED.

14 31 00 00-0002	EA		Escalators Stainless Steel, 32" Wide x 12' Floor To Floor Height.....	139,748.60	12,744.64
14 31 00 00-0003	EA		Escalators Stainless Steel, 32" Wide x 15' Floor To Floor Height.....	155,012.26	15,061.86
14 31 00 00-0004	EA		Escalators Stainless Steel, 32" Wide x 18' Floor To Floor Height.....	168,861.80	17,379.07
14 31 00 00-0005	EA		Escalators Stainless Steel, 32" Wide x 22' Floor To Floor Height.....	186,853.08	20,854.88
14 31 00 00-0006	EA		Escalators Stainless Steel, 32" Wide x 25' Floor To Floor Height.....	206,268.70	23,172.08
14 31 00 00-0007	EA		Escalators Stainless Steel, 36" Wide x 12' Floor To Floor Height.....	147,750.71	13,555.67
14 31 00 00-0008	EA		Escalators Stainless Steel, 36" Wide x 15' Floor To Floor Height.....	164,213.10	16,220.46
14 31 00 00-0009	EA		Escalators Stainless Steel, 36" Wide x 18' Floor To Floor Height.....	178,056.35	18,537.67
14 31 00 00-0010	EA		Escalators Stainless Steel, 36" Wide x 22' Floor To Floor Height.....	200,904.30	23,287.94
14 31 00 00-0011	EA		Escalators Stainless Steel, 36" Wide x 25' Floor To Floor Height.....	216,376.05	25,025.86
14 31 00 00-0012	EA		Escalators Stainless Steel, 48" Wide x 12' Floor To Floor Height.....	156,138.31	14,366.70
14 31 00 00-0013	EA		Escalators Stainless Steel, 48" Wide x 15' Floor To Floor Height.....	174,089.98	17,379.07
14 31 00 00-0014	EA		Escalators Stainless Steel, 48" Wide x 18' Floor To Floor Height.....	187,626.53	19,696.27
14 31 00 00-0015	EA		Escalators Stainless Steel, 48" Wide x 22' Floor To Floor Height.....	215,950.87	24,562.41
14 31 00 00-0016	EA		Escalators Stainless Steel, 48" Wide x 25' Floor To Floor Height.....	229,162.39	26,879.62
14 31 00 00-0017	EA		Escalator Fire Shutter Fusible Link.....	20,418.85	463.44

14 32 Moving Walks ^(14 30)

14 32 00 00-0001

Moving Sidewalks ^(14 32)

Note: Prices are medians. Includes safety rails.

14 32 00 00-0002	LF		Moving Sidewalks, 28" Wide.....	1,494.90	278.07
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	232.24	
14 32 00 00-0003	LF		Moving Sidewalks, 36" Wide.....	1,983.97	283.86
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	328.68	
14 32 00 00-0004	LF		Moving Sidewalks, 48" Wide.....	2,233.64	295.45
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	375.83	
14 32 00 00-0005	LF		Moving Sidewalks, 54" Wide.....	2,565.38	320.47
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	436.17	

14 40 Lifts ⁽¹⁴⁾

14 42 Wheelchair Lifts ^(14 40)

14 42 13 Inclined Wheelchair Lifts ^(14 42)

14 42 13 00-0001

Chair Lift-Stair Climber ^(14 42 13)

Note: Includes landing, rails, lifting device and gates.

14 42 13 00-0002	EA		Chair Lift, Stair Climber Per Story, Single Passenger, Indoor, 300 LB Capacity.....	5,663.75	566.76
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Note: Includes top and bottom call button, safety chair, track, and power unit.

14 42 16 Vertical Wheelchair Lifts ^(14 42)

14 42 16 00-0001

Wheelchair Lift (Shorty) ^(14 42 16)

14 42 16 00-0002	EA		36" Vertical Travel Wheelchair Platform Scissor Lift.....	8,381.62	377.85
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0003	EA		42" Vertical Travel Wheelchair Platform Scissor Lift.....	8,885.42	503.79
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For 2,000 LB Capacity, Add</i>	600.00	
			<i>For 3,000 LB Capacity, Add</i>	1,000.00	
			<i>For 4,000 LB Capacity, Add</i>	1,500.00	
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0004	EA		70" Vertical Travel Wheelchair Platform Scissor Lift.....	11,943.21	629.74
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For 2,000 LB Capacity, Add</i>	600.00	
			<i>For 3,000 LB Capacity, Add</i>	1,000.00	
			<i>For 4,000 LB Capacity, Add</i>	1,500.00	
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0005	EA		84" Vertical Travel Wheelchair Platform Scissor Lift.....	13,220.21	629.74
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For 2,000 LB Capacity, Add</i>	600.00	
			<i>For 3,000 LB Capacity, Add</i>	1,000.00	
			<i>For 4,000 LB Capacity, Add</i>	1,500.00	
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0006	EA		18' Travel Wheelchair Incline Lift.....	15,154.87	629.74
			Note: 500 LB capacity, interior installation.		



Conveying Equipment		14
Lifts		14 40
Wheelchair Lifts		14 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 90 Other Conveying Equipment ⁽¹⁴⁾

14 91 Facility Chutes ^(14 90)

14 91 82 Trash Chutes ^(14 91)

14 91 82 00-0001 Trash Chutes ^(14 91 82)

14 91 82 00-0002	LF	18" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	28.48	
		<i>For Aluminum, Add</i>	1.85	
		<i>For Stainless Steel, Add</i>	6.46	
14 91 82 00-0003	LF	24" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	35.88	5.25
		<i>For Aluminum, Add</i>	2.50	
		<i>For Stainless Steel, Add</i>	8.74	
14 91 82 00-0004	LF	30" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	39.48	6.56
		<i>For Aluminum, Add</i>	2.77	
		<i>For Stainless Steel, Add</i>	9.69	
14 91 82 00-0005	LF	36" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	58.39	6.56
		<i>For Aluminum, Add</i>	4.56	
		<i>For Stainless Steel, Add</i>	15.96	
14 91 82 00-0006	EA	Trash Chutes, Hopper	640.76	36.73
		<i>For Aluminum, Add</i>	56.68	
		<i>For Stainless Steel, Add</i>	198.39	
14 91 82 00-0007	EA	Trash Chutes, Skylight.....	341.77	72.14
		<i>For Aluminum, Add</i>	19.72	
		<i>For Stainless Steel, Add</i>	69.01	
14 91 82 00-0008	EA	Trash Chutes, Sprinkler Unit At Top	252.56	78.69
		<i>For Aluminum, Add</i>	8.63	
		<i>For Stainless Steel, Add</i>	30.19	
14 91 82 00-0009	EA	Trash Chutes, Sprinkler Unit At Intake Hopper.....	70.23	27.54
		<i>For Aluminum, Add</i>	1.48	
		<i>For Stainless Steel, Add</i>	5.18	
14 91 82 00-0010	EA	Refuse Type Bottom Storage Hopper Unit	572.64	98.37
		<i>For Aluminum, Add</i>	36.48	
		<i>For Stainless Steel, Add</i>	127.66	
14 91 82 00-0011	EA	Hopper Doors	1,220.38	66.34

14 92 Pneumatic Tube Systems ^(14 90)

14 92 00 00-0001 Pneumatic Message Tube Station ^(14 92)

Note: Twin tube, two or more stations, conventional

14 92 00 00-0002	LF	2-1/2" Tube With Bracketing.....	45.81	15.34
14 92 00 00-0003	LF	3" Tube With Bracketing	55.34	20.65
14 92 00 00-0004	LF	4" Tube With Bracketing	62.07	18.88
14 92 00 00-0005	LF	6" Tube With Bracketing	75.12	23.60
14 92 00 00-0006	LF	4" x 7" Oval Tube With Bracketing.....	78.66	25.38
14 92 00 00-0007	EA	Blower Assembly	6,749.23	472.03
14 92 00 00-0008	EA	Receiving Station, Round Or Oval.....	648.86	125.68
14 92 00 00-0009	EA	Multi-Sided Dispatching Station, 3 Carrier	2,154.11	177.01
14 92 00 00-0010	EA	Laboratory Receiving Station, Round Or Oval.....	1,520.19	159.31
14 92 00 00-0011	EA	2-Way Diverter Station.....	2,684.08	177.01
14 92 00 00-0012	EA	3-Way Diverter Station.....	3,428.40	206.51
14 92 00 00-0013	EA	4-Way Diverter Station.....	4,117.89	236.01

END OF SECTION 14

14

14 Conveying Equipment

14 90 Other Conveying Equipment

14 92 Pneumatic Tube Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 Fire Suppression

21 01 Operation and Maintenance of Fire Suppression ⁽²¹⁾

21 01 10 Operation and Maintenance of Water-Based Fire-Suppression Systems ^(21 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

21 01 10 91 Water-Based Fire-Suppression Systems Restoration ^(21 01 10)

21 01 10 91-0001 Relocate Sprinkler Head And Branch Piping ^(21 01 10 91)

21 01 10 91-0002	EA	Relocate Existing Sprinkler Head And Branch Piping.....	81.02	
Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.				

21 01 10 91-0003 Sprinkler Upgrades ^(21 01 10 91)

21 01 10 91-0004	LF	Purging Existing Lines Of Water.....	0.70	
21 01 10 91-0005	LF	Refill Existing Lines With Water.....	0.85	

21 01 30 Operation and Maintenance of Fire-Suppression Equipment ^(21 01)

21 01 30 91 Fire-Suppression Equipment Restoration ^(21 01 30)

21 01 30 91-0001 Inspection And Recharge ^(21 01 30 91)

21 01 30 91-0002	EA	Inspection, CO2, Carbon Dioxide	290.33	
21 01 30 91-0003	LB	Refill/Recharge, CO2, Carbon Dioxide	2.33	
21 01 30 91-0004	EA	Inspection, Halon 1301	290.33	
21 01 30 91-0005	LB	Refill/Recharge, Halon 1301	56.01	
21 01 30 91-0006	EA	Inspection, WC, Wet Chemical	175.55	
21 01 30 91-0007	GAL	Refill/Recharge, WC, Wet Chemical.....	52.51	
21 01 30 91-0008	EA	Inspection, DC, Dry Chemical.....	175.55	
21 01 30 91-0009	LB	Refill/Recharge, DC, Dry Chemical.....	4.67	
21 01 30 91-0010	EA	Hydrostatic Testing, All Sizes, All Agents	54.02	
See CSI section 23 05 93 00-0046 for testing existing piping systems.				
21 01 30 91-0011	EA	Disarm/Arm System.....	94.53	

21 05 Common Work Results for Fire Suppression ⁽²¹⁾

21 05 13 Common Motor Requirements for Fire-Suppression Equipment ^(21 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

21 05 16 Expansion Fittings and Loops for Fire-Suppression Piping ^(21 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping ^(21 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

21 05 19 Meters and Gages for Fire-Suppression Systems ^(21 05)

See CSI section 33 19 00 00-0000 for water utility service metering.

21 05 19 00-0001 Fire Sprinkler System Water Pressure Gauge ^(21 05 19)

21 05 19 00-0002	EA	2" Diameter Dial, 0-200 PSI, Water Pressure Gauge	49.85	15.77
Note: For fire sprinkler systems				
21 05 19 00-0003	EA	2-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge	51.35	15.77
Note: For fire sprinkler systems				
21 05 19 00-0004	EA	3" Diameter Dial, 0-300 PSI, Water Pressure Gauge	58.36	15.77
Note: For fire sprinkler systems				
21 05 19 00-0005	EA	3-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge	61.24	15.77
Note: For fire sprinkler systems				
21 05 19 00-0006	EA	4" Diameter Dial, 0-300 PSI, Water Pressure Gauge	64.12	15.77
Note: For fire sprinkler systems				

21 05 19 00-0007 Fire Service Meter Cast Iron Housing ^(21 05 19)

21 05 19 00-0008	EA	3" Diameter, 0 - 600 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	4,314.05	220.45
For >10 To 25, Deduct			-215.70	
For >25, Deduct			-619.52	
21 05 19 00-0009	EA	4" Diameter, 0 - 1,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	8,759.14	369.57
For >10 To 25, Deduct			-437.96	
For >25, Deduct			-1,267.56	
21 05 19 00-0010	EA	6" Diameter, 0 - 2,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	11,803.73	468.20
For >10 To 25, Deduct			-590.19	
For >25, Deduct			-1,711.82	

21 Fire Suppression
21 05 Common Work Results for Fire Suppression
21 05 19 Meters and Gages for Fire-Suppression Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 05 19 00-0011	EA		8" Diameter, 0 - 4,000 GPM Fire Service Meter Flanged, With Cast Iron Housing <i>For >10 To 25, Deduct</i>	15,387.60 -769.38	598.27
21 05 19 00-0012	EA		10" Diameter, 0 - 6,200 GPM Fire Service Meter Flanged, With Cast Iron Housing <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	21,634.44 -1,081.72 -3,154.13	728.32
21 05 23 General-Duty Valves for Water-Based Fire-Suppression Piping					
<i>(21 05)</i> See CSI section 23 05 23 00-0000 for valves.					
21 05 23 00-0001 Globe Valves <i>(21 05 23)</i>					
21 05 23 00-0002 Threaded, 125 LB, Bronze Body, Angle Globe Valves <i>(21 05 23 00-0001)</i>					
Note: Non-rising stem					
21 05 23 00-0003	EA		1/2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD).....	70.02	14.09
21 05 23 00-0004	EA		3/4" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD).....	89.94	14.79
21 05 23 00-0005	EA		1" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD).....	121.63	14.79
21 05 23 00-0006	EA		1-1/4" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD).....	179.25	18.74
21 05 23 00-0007	EA		1-1/2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD).....	210.48	21.69
21 05 23 00-0008	EA		2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD).....	249.28	25.63
21 05 23 00-0009 Butterfly Valves <i>(21 05 23)</i>					
21 05 23 00-0010 Grooved End Gear Operated Butterfly Valves <i>(21 05 23 00-0009)</i>					
21 05 23 00-0011	EA		2-1/2" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N).....	420.94	22.95
21 05 23 00-0012	EA		3" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N).....	463.51	27.50
21 05 23 00-0013	EA		4" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N).....	475.98	36.18
21 05 23 00-0014	EA		6" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N).....	489.80	59.26
21 05 23 00-0015	EA		8" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N).....	699.59	83.38
21 05 23 00-0016 Grooved End, Wafer Type, Ductile Iron, Gear Operated Butterfly Valves <i>(21 05 23 00-0009)</i>					
21 05 23 00-0017	EA		2" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	420.49	18.54
21 05 23 00-0018	EA		2-1/2" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	430.29	22.95
21 05 23 00-0019	EA		3" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	475.98	27.50
21 05 23 00-0020	EA		4" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	475.98	36.18
21 05 23 00-0021	EA		6" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	497.59	59.26
21 05 23 00-0022	EA		8" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	698.03	83.38
21 05 23 00-0023	EA		10" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	1,035.71	112.69
21 05 23 00-0024 Check Valves <i>(21 05 23)</i>					
21 05 23 00-0025 Bronze Body, Threaded, 150 LB, Swing Check Valves <i>(21 05 23 00-0024)</i>					
21 05 23 00-0026	EA		1/2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y).....	221.72	14.09
21 05 23 00-0027	EA		3/4" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y).....	263.58	14.79
21 05 23 00-0028	EA		1" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y).....	358.42	14.79
21 05 23 00-0029	EA		1-1/4" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y).....	476.26	18.74
21 05 23 00-0030	EA		1-1/2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y).....	476.26	21.69
21 05 23 00-0031	EA		2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y).....	621.05	25.63
21 05 23 00-0032 Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>(21 05 23 00-0024)</i>					
21 05 23 00-0033	EA		2-1/2" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	669.63	188.03
21 05 23 00-0034	EA		3" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	764.98	220.45
21 05 23 00-0035	EA		4" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	1,111.75	369.57
21 05 23 00-0036	EA		6" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	1,557.14	415.01
21 05 23 00-0037	EA		8" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	2,384.97	530.29
21 05 23 00-0038	EA		10" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	3,653.59	645.57
21 05 23 00-0039	EA		12" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	5,025.21	783.89
21 05 23 00-0040 Iron Body Wafer Type Check Valve <i>(21 05 23 00-0024)</i>					
21 05 23 00-0041	EA		2-1/2" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	552.23	188.12
21 05 23 00-0042	EA		3" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	638.57	220.55
21 05 23 00-0043	EA		4" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	836.39	369.74
21 05 23 00-0044	EA		6" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	1,307.26	518.94
21 05 23 00-0045	EA		8" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	1,803.77	596.78
21 05 23 00-0046	EA		10" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	2,540.23	64.87
21 05 23 00-0047	EA		12" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	3,390.60	882.18
21 05 23 00-0048 Grooved End, Check Valves <i>(21 05 23 00-0024)</i>					
21 05 23 00-0049	EA		2-1/2" Check Valve, Grooved (Victaulic FireLock® 717).....	375.18	23.34
21 05 23 00-0050	EA		3" Check Valve, Grooved (Victaulic FireLock® 717).....	381.49	27.62
21 05 23 00-0051	EA		4" Check Valve, Grooved (Victaulic FireLock® 717).....	408.24	36.31
21 05 23 00-0052	EA		6" Check Valve, Grooved (Victaulic FireLock® 717).....	1,190.50	59.26
21 05 23 00-0053	EA		8" Check Valve, Grooved (Victaulic FireLock® 717).....	1,654.62	83.38



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 05 23 00-0054	Gate Valves <small>(21 05 23)</small>		
21 05 23 00-0055	Threaded, Bronze Gate Valves <small>(21 05 23 00-0054)</small>		
	Note: Class 175		
21 05 23 00-0056	EA 1" Threaded, Bronze Gate Valve (Crane 459)	676.42	17.61
21 05 23 00-0057	EA 1-1/4" Threaded, Bronze Gate Valve (Crane 459)	827.70	18.74
21 05 23 00-0058	EA 1-1/2" Threaded, Bronze Gate Valve (Crane 459)	984.03	21.69
21 05 23 00-0059	EA 2" Threaded, Bronze Gate Valve (Crane 459)	1,226.26	25.63
21 05 23 00-0060	Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(21 05 23 00-0054)</small>		
	Note: Class 175		
21 05 23 00-0061	EA 2-1/2" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	866.62	188.03
21 05 23 00-0062	EA 3" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	1,019.96	220.45
21 05 23 00-0063	EA 4" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	1,461.71	369.57
21 05 23 00-0064	EA 6" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	2,074.31	415.01
21 05 23 00-0065	EA 8" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	3,011.92	530.29
21 05 23 00-0066	EA 10" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	5,325.94	645.57
21 05 23 00-0067	EA 12" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467)	7,191.35	783.89
21 05 23 00-0068	Flanged, Resilient Wedge, Ductile Iron Body, Gate Valves <small>(21 05 23 00-0054)</small>		
	Note: Class 175		
21 05 23 00-0069	EA 2-1/2" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	1,407.15	188.03
21 05 23 00-0070	EA 3" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	1,639.78	220.45
21 05 23 00-0071	EA 4" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	2,025.66	369.57
21 05 23 00-0072	EA 6" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	2,550.06	415.01
21 05 23 00-0073	EA 8" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	3,759.22	530.29
21 05 23 00-0074	EA 10" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	5,373.70	645.57
21 05 23 00-0075	EA 12" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136)	6,924.13	783.89
21 05 23 00-0076	Flanged, Resilient Wedge, Ductile Iron Body, Gate Valves <small>(21 05 23 00-0054)</small>		
	Note: Class 250. Square operating nut actuation type.		
21 05 23 00-0077	EA 3" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100)	1,347.96	220.45
21 05 23 00-0078	EA 4" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100)	1,744.07	369.57
21 05 23 00-0079	EA 6" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100)	2,179.40	415.01
21 05 23 00-0080	EA 8" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100)	3,239.06	530.29
21 05 23 00-0081	EA 10" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100)	4,817.71	645.57
21 05 23 00-0082	EA 12" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100)	6,047.64	783.89
21 05 23 00-0083	Ball Valves <small>(21 05 23)</small>		
21 05 23 00-0084	Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728) <small>(21 05 23 00-0083)</small>		
21 05 23 00-0085	EA 1" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728)	444.08	17.61
21 05 23 00-0086	EA 1-1/4" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728)	487.44	18.74
21 05 23 00-0087	EA 1-1/2" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728)	575.74	21.69
21 05 23 00-0088	EA 2" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728)	692.27	25.63
21 05 23 00-0089	TESTanDRAIN® Valve <small>(21 05 23)</small>		
21 05 23 00-0090	EA 1/4" 3-Way Globe Valve With 1/4" NPT Test Port (AGF 7600)	209.64	18.18
21 05 23 00-0091	EA 1" Threaded TESTanDRAIN® Valve (AGF 1000)	238.22	21.97
21 05 23 00-0092	EA 1-1/4" Threaded TESTanDRAIN® Valve (AGF 1000)	292.26	27.76
21 05 23 00-0093	EA 1-1/2" Threaded TESTanDRAIN® Valve (AGF 1000)	444.97	32.06
21 05 23 00-0094	EA 2" Threaded TESTanDRAIN® Valve (AGF 1000)	471.88	37.87
21 05 23 00-0095	EA 1" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011)	326.06	21.97
21 05 23 00-0096	EA 1-1/4" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011)	379.23	27.76
21 05 23 00-0097	EA 1-1/2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011)	534.60	32.06
21 05 23 00-0098	EA 2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011)	563.89	37.87

21 05 29 Hangers and Supports for Fire-Suppression Piping and Equipment (21 05)

21	21 Fire Suppression
	21 05 Common Work Results for Fire Suppression
	21 05 29 Hangers and Supports for Fire-Suppression Piping and Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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See CSI section 23 05 29 00-0000 for hangers and supports.

21 05 48 Vibration and Seismic Controls for Fire-Suppression Piping and Equipment ^(21 05)

21 05 48 13 Vibration Controls for Fire-Suppression Piping and Equipment ^(21 05 48)

See CSI section 23 05 48 13-0000 for vibration and seismic control.

21 05 53 Identification for Fire-Suppression Piping and Equipment ^(21 05)

See CSI section 23 05 53 00-0000 for identification.

21 07 Fire-Suppression Systems Insulation ⁽²¹⁾

21 07 16 Fire-Suppression Equipment Insulation ^(21 07)

See CSI section 23 07 16 00-0000 for fire-suppression equipment insulation.

21 07 19 Fire-Suppression Piping Insulation ^(21 07)

See CSI section 22 07 19 00-0000 for fire-suppression piping insulation.

21 10 Water-Based Fire-Suppression Systems ⁽²¹⁾

See CSI section 22 11 16 00-0368 for copper pipe, 22 11 16 00-0912 for CPVC pipe, 23 05 23 00-0057 for OS&Y gate valves, 23 21 13 23-0000 for black steel piping.

21 11 Facility Fire-Suppression Water-Service Piping ^(21 10)

21 11 19 Fire-Department Connections ^(21 11)

21 11 19 00-0001 Fire Department Connections ^(21 11 19)

21 11 19 00-0002	EA	4" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass	1,034.28	406.44
		<i>For Polished Chrome, Add</i>	52.32	
21 11 19 00-0003	EA	6" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass	1,410.68	508.05
		<i>For Polished Chrome, Add</i>	80.08	
21 11 19 00-0004	EA	4" x 3" x 3" Siamese Connection, Polished Brass.....	1,427.45	406.44
		<i>For Polished Chrome, Add</i>	101.44	
21 11 19 00-0005	EA	6" x 3" x 3" Siamese Connection, Polished Brass.....	1,871.95	508.05
		<i>For Polished Chrome, Add</i>	137.74	
21 11 19 00-0006	EA	6" x 2-1/2" x 2-1/2" x 2-1/2" Siamese Connection, Three Way, Polished Brass.....	1,984.70	508.05
		<i>For Polished Chrome, Add</i>	151.83	
21 11 19 00-0007	EA	Sidewalk Type Connection With Plug And Chain, Polished Brass.....	1,751.11	537.71
		<i>For Polished Chrome, Add</i>	117.10	
21 11 19 00-0008	EA	Wall Type Connection With Plug And Chain, Polished Brass	1,153.21	406.44
		<i>For Polished Chrome, Add</i>	67.19	

21 11 19 00-0009 Wall Type Indicator Post, Wheel Operated ^(21 11 19)

See CSI section 33 14 19 00-0159 for adjustable indicator post accessory for ground valves.

21 11 19 00-0010	EA	Wall Type Indicator Post With Wall Flange For Valve (Victaulic 773)	1,541.47	369.57
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21 11 19 00-0011 Upright Indicator Post, Wheel Operated ^(21 11 19)

21 11 19 00-0012	EA	Upright Indicator Post With Flange For Valve (Victaulic 774)	6,642.30	369.57
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21 12 Fire-Suppression Standpipes ^(21 10)

21 12 13 Fire-Suppression Hoses and Nozzles ^(21 12)

21 12 13 00-0001 Fire Hose ^(21 12 13)

21 12 13 00-0002 Fire Hose Without Couplings ^(21 12 13 00-0001)

21 12 13 00-0003	LF	1-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	3.32	2.70
21 12 13 00-0004	LF	2-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	3.83	2.70
21 12 13 00-0005	LF	2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	3.53	2.70
21 12 13 00-0006	LF	3" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	4.08	2.70
21 12 13 00-0007	LF	1-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings	3.60	2.70
21 12 13 00-0008	LF	2-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings	4.34	2.70
21 12 13 00-0009	LF	1-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings	3.68	2.70
21 12 13 00-0010	LF	2-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings	4.53	2.70

21 12 13 00-0011 Fire Hose With Aluminum Couplings ^(21 12 13 00-0001)

21 12 13 00-0012	LF	1-3/4" Polyester Fire Hose With Rubber Lining With Aluminum Couplings	6.38	1.49
21 12 13 00-0013	LF	2-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings	7.83	1.75
21 12 13 00-0014	LF	3-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings	12.43	1.75

21 12 13 00-0015 Fire Hose Accessories ^(21 12 13 00-0001)

21 12 13 00-0016	EA	Hose Coupling With 1-1/2" Pin Lug	148.13	44.57
21 12 13 00-0017	EA	Hose Coupling With 2-1/2" Pin Lug	214.27	49.96
21 12 13 00-0018	EA	1-1/2" x 10" Brass Straight Nozzle	92.15	35.11
21 12 13 00-0019	EA	2-1/2" x 12" Brass Straight Nozzle	165.11	35.11



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Standpipes	21 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 12 13 00-0020 EA 1-1/2" Brass Fog Type Nozzle	133.82	35.11
21 12 13 00-0021 EA 2-1/2" Brass Fog Type Nozzle	185.50	35.11
21 12 13 00-0022 EA 1-1/2" Brass 100' Hose Rack	331.47	148.54
21 12 13 00-0023 EA 2-1/2" Brass 100' Hose Rack	429.00	148.54
21 12 23 Fire-Suppression Hose Valves (21 12)		
21 12 23 00-0001 Standpipe Valves (21 12 23)		
21 12 23 00-0002 EA 2-1/2" Fire Department Valve, Polished Brass With Plug And Chain	666.05	268.86
For Polished Chrome, Add	38.83	
21 12 23 00-0003 EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass	972.48	268.73
For Polished Chrome, Add	84.80	
21 12 23 00-0004 EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass	1,220.22	290.69
For Polished Chrome, Add	116.95	
21 12 23 00-0005 EA 3" x 3" x 4" Fire Department Valve, Flush, Polished Brass	1,414.05	268.73
For Polished Chrome, Add	151.03	
21 12 23 00-0006 EA 3" x 3" x 6" Fire Department Valve, Flush, Polished Brass	1,645.80	290.69
For Polished Chrome, Add	180.79	
21 12 23 00-0007 EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass	925.55	268.73
For Polished Chrome, Add	77.76	
21 12 23 00-0008 EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass	1,293.82	290.69
For Polished Chrome, Add	127.99	
21 12 23 00-0009 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass	1,598.94	277.43
For Polished Chrome, Add	141.43	
21 12 23 00-0010 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass	2,234.96	308.24
For Polished Chrome, Add	212.15	
21 12 23 00-0011 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass	1,704.54	277.43
For Polished Chrome, Add	154.10	
21 12 23 00-0012 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass	2,394.05	308.24
For Polished Chrome, Add	231.24	
21 12 23 00-0013 EA 2-1/2" x 2-1/2" x 2-1/2" x 2-1/2" 6" Fire Department Valve, Square, Flush, Polished Brass	5,431.89	369.84
For Polished Chrome, Add	487.14	
21 12 23 00-0014 Fire Hose Angle Valves (21 12 23)		
21 12 23 00-0015 EA 1-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve	214.31	36.46
21 12 23 00-0016 EA 1-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve	250.47	36.46
21 12 23 00-0017 EA 1-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve	237.32	36.46
21 12 23 00-0018 EA 1-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve	273.49	36.46
21 12 23 00-0019 EA 2-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve	377.84	60.77
21 12 23 00-0020 EA 2-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve	430.45	60.77
21 12 23 00-0021 EA 2-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve	434.83	60.77
21 12 23 00-0022 EA 2-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve	487.43	60.77
21 12 29 Fire-Suppression Fire Hose Equipment (21 12)		
21 12 29 00-0001 Standpipe And Fire Hose Equipment (21 12 29)		
21 12 29 00-0002 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Manifold Roof Type, Vertical, Polished Brass	2,335.20	666.46
21 12 29 00-0003 EA Water Motor Gong	790.49	187.38
21 12 29 00-0004 EA Fire Riser Flow Switch (National Fire Protection Association 13)	597.18	21.80
21 12 29 00-0005 EA Water Flow Supervisory (Tamper) Switch Mounted On Valve	221.37	37.29
21 12 29 00-0006 EA Lever Type Bleeder Valve (Potter BVL)	158.67	37.29
21 12 29 00-0007 Water Flow Detector (21 12 29)		
21 12 29 00-0008 Pressure-Type Water Flow Detector (21 12 29 00-0007)		
21 12 29 00-0009 EA Pressure-Type Water Flow Detector For Up To 2-1/2" Pipe	377.72	114.74
21 12 29 00-0010 EA Pressure-Type Water Flow Detector For >2-1/2" To 4" Pipe	543.49	152.04
21 12 29 00-0011 EA Pressure-Type Water Flow Detector For >4" To 8" Pipe	809.81	172.12
21 12 29 00-0012 Vane-Type Water Flow Detector (21 12 29 00-0007)		
21 12 29 00-0013 EA Vane-Type Water Flow Detector For Up To 2-1/2" Pipe	457.94	114.74
21 12 29 00-0014 EA Vane-Type Water Flow Detector For >2-1/2" To 4" Pipe	641.76	152.04
21 12 29 00-0015 EA Vane-Type Water Flow Detector For >4" To 8" Pipe	965.59	172.12
21 13 Fire-Suppression Sprinkler Systems (21 10)		
21 13 13 Wet-Pipe Sprinkler Systems (21 13)		

21	21 Fire Suppression
	21 10 Water-Based Fire-Suppression Systems
	21 13 Fire-Suppression Sprinkler Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0001 Complete Wet Pipe Sprinkler Systems <small>(21 13 13)</small>		
Note: Includes complete design per NFPA 13, 13D or 13R and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc) from riser pipe and mains. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1367 for individual grooved pipe, 23 21 13 23-1440 for individual grooved pipe fittings.		
21 13 13 00-0002 Light Hazard, Complete Wet-Pipe Sprinkler Systems <small>(21 13 13 00-0001)</small>		
21 13 13 00-0003 EA Exposed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	533.78	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	62.75	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-89.44	
For Up To 5, Add	248.15	
For >5 To 10, Add	158.71	
For >10 To 20, Add	105.33	
For >20 To 40, Add	44.01	
For >100 To 150, Deduct	-53.38	
For >150, Deduct	-106.76	
21 13 13 00-0004 EA Concealed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	712.77	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	81.41	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-117.05	
For Up To 5, Add	336.11	
For >5 To 10, Add	219.06	
For >10 To 20, Add	147.78	
For >20 To 40, Add	61.14	
For >100 To 150, Deduct	-71.28	
For >150, Deduct	-142.55	
21 13 13 00-0005 Ordinary Hazard, Complete Wet-Pipe Sprinkler Systems <small>(21 13 13 00-0001)</small>		
21 13 13 00-0006 EA Exposed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	531.36	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	62.59	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-89.16	
For Up To 5, Add	246.76	
For >5 To 10, Add	157.60	
For >10 To 20, Add	104.46	
For >20 To 40, Add	43.68	
For >100 To 150, Deduct	-53.14	
For >150, Deduct	-106.27	
21 13 13 00-0007 EA Concealed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	706.16	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	80.76	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-116.07	
For Up To 5, Add	332.79	
For >5 To 10, Add	216.73	
For >10 To 20, Add	146.11	
For >20 To 40, Add	60.47	
For >100 To 150, Deduct	-70.62	
For >150, Deduct	-141.23	
21 13 13 00-0008 Extra Hazard, Complete Wet-Pipe Sprinkler Systems <small>(21 13 13 00-0001)</small>		
21 13 13 00-0009 EA Exposed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	491.94	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	57.86	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-82.45	
For Up To 5, Add	228.65	
For >5 To 10, Add	146.19	
For >10 To 20, Add	97.00	
For >20 To 40, Add	40.53	
For >100 To 150, Deduct	-49.19	
For >150, Deduct	-98.39	
21 13 13 00-0010 EA Concealed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	654.95	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	74.80	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-107.55	
For Up To 5, Add	308.87	
For >5 To 10, Add	201.32	
For >10 To 20, Add	135.82	
For >20 To 40, Add	56.19	
For >100 To 150, Deduct	-65.50	
For >150, Deduct	-130.99	
21 13 13 00-0011 Wet Pipe Sprinkler Components <small>(21 13 13)</small>		
Note: Excludes hydraulic calculations.		
21 13 13 00-0012 Wet Pipe Alarm Check Valves <small>(21 13 13 00-0011)</small>		
Note: Excludes trim package See CSI section 21 13 13 00-0018 for Wet Pipe Valve Trim.		
21 13 13 00-0013 EA 2-1/2" Wet Pipe Alarm Check Valve	1,319.85	157.78



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0014 EA 3" Wet Pipe Alarm Check Valve.....	1,365.75	180.73
21 13 13 00-0015 EA 4" Wet Pipe Alarm Check Valve.....	1,618.20	306.95
21 13 13 00-0016 EA 6" Wet Pipe Alarm Check Valve.....	1,640.33	387.28
21 13 13 00-0017 EA 8" Wet Pipe Alarm Check Valve.....	2,757.15	490.55
21 13 13 00-0018 Wet Pipe Valve Trim <small>(21 13 13 00-0011)</small>		
<small>Note: Vertical or Horizontal, closed drain, basic galvanized trim assembly package. Includes gauges, pressure switch, relief valve, drain line, and retard chamber.</small>		
21 13 13 00-0019 EA 2-1/2" Wet Pipe Valve Trim.....	1,274.31	333.92
21 13 13 00-0020 EA 3" Wet Pipe Valve Trim.....	1,332.93	333.92
21 13 13 00-0021 EA 4" Wet Pipe Valve Trim.....	1,645.34	457.84
21 13 13 00-0022 EA 6" Wet Pipe Valve Trim.....	2,002.30	636.85
21 13 13 00-0023 EA 8" Wet Pipe Valve Trim.....	2,254.75	788.31
21 13 13 00-0024 Wet Pipe Sprinkler Heads <small>(21 13 13 00-0011)</small>		
21 13 13 00-0025 Upright Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0026 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Brass Wet Pipe Sprinkler Head.....	81.06	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.09	
<i>For >100 To 500, Deduct</i>	-11.65	
<i>For >500 To 1,000, Deduct</i>	-24.92	
<i>For >1,000, Deduct</i>	-37.08	
21 13 13 00-0027 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Chrome Wet Pipe Sprinkler Head.....	83.12	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.19	
<i>For >100 To 500, Deduct</i>	-11.91	
<i>For >500 To 1,000, Deduct</i>	-25.29	
<i>For >1,000, Deduct</i>	-37.45	
21 13 13 00-0028 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	84.44	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.26	
<i>For >100 To 500, Deduct</i>	-12.07	
<i>For >500 To 1,000, Deduct</i>	-25.53	
<i>For >1,000, Deduct</i>	-37.68	
21 13 13 00-0029 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....	82.09	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.14	
<i>For >100 To 500, Deduct</i>	-11.78	
<i>For >500 To 1,000, Deduct</i>	-25.11	
<i>For >1,000, Deduct</i>	-37.26	
21 13 13 00-0030 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....	84.24	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.25	
<i>For >100 To 500, Deduct</i>	-12.05	
<i>For >500 To 1,000, Deduct</i>	-25.49	
<i>For >1,000, Deduct</i>	-37.65	
21 13 13 00-0031 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	85.61	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.32	
<i>For >100 To 500, Deduct</i>	-12.22	
<i>For >500 To 1,000, Deduct</i>	-25.74	
<i>For >1,000, Deduct</i>	-37.89	
21 13 13 00-0032 EA 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....	95.62	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.82	
<i>For >100 To 500, Deduct</i>	-13.47	
<i>For >500 To 1,000, Deduct</i>	-27.54	
<i>For >1,000, Deduct</i>	-39.70	
21 13 13 00-0033 EA 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	101.16	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-8.10	
<i>For >100 To 500, Deduct</i>	-14.16	
<i>For >500 To 1,000, Deduct</i>	-28.54	
<i>For >1,000, Deduct</i>	-40.69	
21 13 13 00-0034 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....	95.62	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.82	
<i>For >100 To 500, Deduct</i>	-13.47	
<i>For >500 To 1,000, Deduct</i>	-27.54	
<i>For >1,000, Deduct</i>	-39.70	
21 13 13 00-0035 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	101.16	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-8.10	
<i>For >100 To 500, Deduct</i>	-14.16	
<i>For >500 To 1,000, Deduct</i>	-28.54	
<i>For >1,000, Deduct</i>	-40.69	
21 13 13 00-0036 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....	88.45	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.46	
<i>For >100 To 500, Deduct</i>	-12.58	
<i>For >500 To 1,000, Deduct</i>	-26.25	
<i>For >1,000, Deduct</i>	-38.41	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0037	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	91.16	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.60	
			<i>For >100 To 500, Deduct</i>	-12.91	
			<i>For >500 To 1,000, Deduct</i>	-26.74	
			<i>For >1,000, Deduct</i>	-38.89	
21 13 13 00-0038	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....	92.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.21	
			<i>For >500 To 1,000, Deduct</i>	-28.07	
			<i>For >1,000, Deduct</i>	-41.58	
21 13 13 00-0039	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0040	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	95.99	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.18	
			<i>For >100 To 500, Deduct</i>	-13.69	
			<i>For >500 To 1,000, Deduct</i>	-28.76	
			<i>For >1,000, Deduct</i>	-42.26	
21 13 13 00-0041	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....	92.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.21	
			<i>For >500 To 1,000, Deduct</i>	-28.07	
			<i>For >1,000, Deduct</i>	-41.58	
21 13 13 00-0042	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0043	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	95.99	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.18	
			<i>For >100 To 500, Deduct</i>	-13.69	
			<i>For >500 To 1,000, Deduct</i>	-28.76	
			<i>For >1,000, Deduct</i>	-42.26	
21 13 13 00-0044	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Brass Wet Pipe Sprinkler Head.....	87.03	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.39	
			<i>For >100 To 500, Deduct</i>	-12.40	
			<i>For >500 To 1,000, Deduct</i>	-26.00	
			<i>For >1,000, Deduct</i>	-38.15	
21 13 13 00-0045	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.49	
			<i>For >100 To 500, Deduct</i>	-12.66	
			<i>For >500 To 1,000, Deduct</i>	-26.37	
			<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0046	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.51	
			<i>For >100 To 500, Deduct</i>	-12.71	
			<i>For >500 To 1,000, Deduct</i>	-26.44	
			<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0047	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Brass Wet Pipe Sprinkler Head.....	87.03	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.39	
			<i>For >100 To 500, Deduct</i>	-12.40	
			<i>For >500 To 1,000, Deduct</i>	-26.00	
			<i>For >1,000, Deduct</i>	-38.15	
21 13 13 00-0048	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.49	
			<i>For >100 To 500, Deduct</i>	-12.66	
			<i>For >500 To 1,000, Deduct</i>	-26.37	
			<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0049	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.51	
			<i>For >100 To 500, Deduct</i>	-12.71	
			<i>For >500 To 1,000, Deduct</i>	-26.44	
			<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0050	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Combustible Concealed Space, Upright Brass Wet Pipe Sprinkler Head.....	89.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.51	
			<i>For >100 To 500, Deduct</i>	-12.71	
			<i>For >500 To 1,000, Deduct</i>	-26.44	
			<i>For >1,000, Deduct</i>	-38.59	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0051 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head	114.35	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-9.09	
For >100 To 500, Deduct	-15.98	
For >500 To 1,000, Deduct	-32.06	
For >1,000, Deduct	-45.57	
21 13 13 00-0052 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....	116.73	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-9.21	
For >100 To 500, Deduct	-16.28	
For >500 To 1,000, Deduct	-32.49	
For >1,000, Deduct	-45.99	
21 13 13 00-0053 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	116.73	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-9.21	
For >100 To 500, Deduct	-16.28	
For >500 To 1,000, Deduct	-32.49	
For >1,000, Deduct	-45.99	
21 13 13 00-0054 EA 3/4" NPT Thread, K=11.2, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head	98.32	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-8.29	
For >100 To 500, Deduct	-13.98	
For >500 To 1,000, Deduct	-29.18	
For >1,000, Deduct	-42.68	
21 13 13 00-0055 EA 3/4" NPT Thread, K=11.2, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....	99.95	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-8.37	
For >100 To 500, Deduct	-14.18	
For >500 To 1,000, Deduct	-29.47	
For >1,000, Deduct	-42.97	
21 13 13 00-0056 EA 3/4" NPT Thread, K=11.2, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	99.95	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-8.37	
For >100 To 500, Deduct	-14.18	
For >500 To 1,000, Deduct	-29.47	
For >1,000, Deduct	-42.97	
21 13 13 00-0057 EA 1/2" NPT Thread, K=5.6, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head	230.07	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-14.54	
For >100 To 500, Deduct	-30.28	
For >500 To 1,000, Deduct	-51.74	
For >1,000, Deduct	-63.90	
21 13 13 00-0058 EA 3/4" NPT Thread, K=8.0, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head	253.59	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-16.06	
For >100 To 500, Deduct	-33.39	
For >500 To 1,000, Deduct	-57.12	
For >1,000, Deduct	-70.63	
21 13 13 00-0059 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head	134.90	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-9.78	
For >100 To 500, Deduct	-18.38	
For >500 To 1,000, Deduct	-34.61	
For >1,000, Deduct	-46.77	
21 13 13 00-0060 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head	159.69	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-11.02	
For >100 To 500, Deduct	-21.48	
For >500 To 1,000, Deduct	-39.08	
For >1,000, Deduct	-51.23	
21 13 13 00-0061 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Brass Wet Pipe Sprinkler Head	263.37	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-16.21	
For >100 To 500, Deduct	-34.44	
For >500 To 1,000, Deduct	-57.74	
For >1,000, Deduct	-69.89	
21 13 13 00-0062 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Chrome Wet Pipe Sprinkler Head	327.99	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-19.44	
For >100 To 500, Deduct	-42.52	
For >500 To 1,000, Deduct	-69.37	
For >1,000, Deduct	-81.52	
21 13 13 00-0063 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head	166.44	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-11.70	
For >100 To 500, Deduct	-22.49	
For >500 To 1,000, Deduct	-41.44	
For >1,000, Deduct	-54.94	
21 13 13 00-0064 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head	167.19	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-11.74	
For >100 To 500, Deduct	-22.59	
For >500 To 1,000, Deduct	-41.57	
For >1,000, Deduct	-55.08	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0065			Conventional Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0066	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Brass Wet Pipe Sprinkler Head.....	81.06	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.09	
			<i>For >100 To 500, Deduct</i>	-11.65	
			<i>For >500 To 1,000, Deduct</i>	-24.92	
			<i>For >1,000, Deduct</i>	-37.08	
21 13 13 00-0067	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Chrome Wet Pipe Sprinkler Head.....	83.12	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.19	
			<i>For >100 To 500, Deduct</i>	-11.91	
			<i>For >500 To 1,000, Deduct</i>	-25.29	
			<i>For >1,000, Deduct</i>	-37.45	
21 13 13 00-0068	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional White Polyester Coated Wet Pipe Sprinkler Head.....	84.44	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.26	
			<i>For >100 To 500, Deduct</i>	-12.07	
			<i>For >500 To 1,000, Deduct</i>	-25.53	
			<i>For >1,000, Deduct</i>	-37.68	
21 13 13 00-0069	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Brass Wet Pipe Sprinkler Head.....	92.93	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.30	
			<i>For >500 To 1,000, Deduct</i>	-28.21	
			<i>For >1,000, Deduct</i>	-41.71	
21 13 13 00-0070	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0071	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional White Polyester Coated Wet Pipe Sprinkler Head.....	95.73	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.16	
			<i>For >100 To 500, Deduct</i>	-13.65	
			<i>For >500 To 1,000, Deduct</i>	-28.71	
			<i>For >1,000, Deduct</i>	-42.21	
21 13 13 00-0072	EA		1/2" NPT Thread, K=5.6, Quick Response, Conventional Stainless Steel Wet Pipe Sprinkler Head.....	230.07	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-14.54	
			<i>For >100 To 500, Deduct</i>	-30.28	
			<i>For >500 To 1,000, Deduct</i>	-51.74	
			<i>For >1,000, Deduct</i>	-63.90	
21 13 13 00-0073			Pendant Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
			See CSI section 21 13 13 00-0209 for escutcheon for recessed pendant sprinkler head.		
21 13 13 00-0074	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant Brass Wet Pipe Sprinkler Head.....	81.06	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.09	
			<i>For >100 To 500, Deduct</i>	-11.65	
			<i>For >500 To 1,000, Deduct</i>	-24.92	
			<i>For >1,000, Deduct</i>	-37.08	
21 13 13 00-0075	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant Chrome Wet Pipe Sprinkler Head.....	83.12	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.19	
			<i>For >100 To 500, Deduct</i>	-11.91	
			<i>For >500 To 1,000, Deduct</i>	-25.29	
			<i>For >1,000, Deduct</i>	-37.45	
21 13 13 00-0076	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant White Polyester Coated Wet Pipe Sprinkler Head.....	84.44	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.26	
			<i>For >100 To 500, Deduct</i>	-12.07	
			<i>For >500 To 1,000, Deduct</i>	-25.53	
			<i>For >1,000, Deduct</i>	-37.68	
21 13 13 00-0077	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendant Brass Wet Pipe Sprinkler Head.....	92.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.21	
			<i>For >500 To 1,000, Deduct</i>	-28.07	
			<i>For >1,000, Deduct</i>	-41.58	
21 13 13 00-0078	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendant Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0079	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendant White Polyester Coated Wet Pipe Sprinkler Head.....	95.99	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.18	
			<i>For >100 To 500, Deduct</i>	-13.69	
			<i>For >500 To 1,000, Deduct</i>	-28.76	
			<i>For >1,000, Deduct</i>	-42.26	



Fire Suppression			21
Water-Based Fire-Suppression Systems			21 10
Fire-Suppression Sprinkler Systems			21 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0080 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Brass Wet Pipe Sprinkler Head	87.03	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.39	
For >100 To 500, Deduct	-12.40	
For >500 To 1,000, Deduct	-26.00	
For >1,000, Deduct	-38.15	
21 13 13 00-0081 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.49	
For >100 To 500, Deduct	-12.66	
For >500 To 1,000, Deduct	-26.37	
For >1,000, Deduct	-38.52	
21 13 13 00-0082 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.51	
For >100 To 500, Deduct	-12.71	
For >500 To 1,000, Deduct	-26.44	
For >1,000, Deduct	-38.59	
21 13 13 00-0083 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head	87.03	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.39	
For >100 To 500, Deduct	-12.40	
For >500 To 1,000, Deduct	-26.00	
For >1,000, Deduct	-38.15	
21 13 13 00-0084 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.49	
For >100 To 500, Deduct	-12.66	
For >500 To 1,000, Deduct	-26.37	
For >1,000, Deduct	-38.52	
21 13 13 00-0085 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.51	
For >100 To 500, Deduct	-12.71	
For >500 To 1,000, Deduct	-26.44	
For >1,000, Deduct	-38.59	
21 13 13 00-0086 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	87.03	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.39	
For >100 To 500, Deduct	-12.40	
For >500 To 1,000, Deduct	-26.00	
For >1,000, Deduct	-38.15	
21 13 13 00-0087 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead	89.09	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.49	
For >100 To 500, Deduct	-12.66	
For >500 To 1,000, Deduct	-26.37	
For >1,000, Deduct	-38.52	
21 13 13 00-0088 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	89.49	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.51	
For >100 To 500, Deduct	-12.71	
For >500 To 1,000, Deduct	-26.44	
For >1,000, Deduct	-38.59	
21 13 13 00-0089 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	81.06	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.09	
For >100 To 500, Deduct	-11.65	
For >500 To 1,000, Deduct	-24.92	
For >1,000, Deduct	-37.08	
21 13 13 00-0090 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead	83.12	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.19	
For >100 To 500, Deduct	-11.91	
For >500 To 1,000, Deduct	-25.29	
For >1,000, Deduct	-37.45	
21 13 13 00-0091 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	84.44	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.26	
For >100 To 500, Deduct	-12.07	
For >500 To 1,000, Deduct	-25.53	
For >1,000, Deduct	-37.68	
21 13 13 00-0092 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head	82.10	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.14	
For >100 To 500, Deduct	-11.78	
For >500 To 1,000, Deduct	-25.11	
For >1,000, Deduct	-37.26	
21 13 13 00-0093 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	83.56	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.22	
For >100 To 500, Deduct	-11.96	
For >500 To 1,000, Deduct	-25.37	
For >1,000, Deduct	-37.53	

21	Fire Suppression
21 10	Water-Based Fire-Suppression Systems
21 13	Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0094	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	84.89	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.28	
			<i>For >100 To 500, Deduct</i>	-12.13	
			<i>For >500 To 1,000, Deduct</i>	-25.61	
			<i>For >1,000, Deduct</i>	-37.77	
21 13 13 00-0095	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head.....	94.15	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.08	
			<i>For >100 To 500, Deduct</i>	-13.46	
			<i>For >500 To 1,000, Deduct</i>	-28.43	
			<i>For >1,000, Deduct</i>	-41.93	
21 13 13 00-0096	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	96.83	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.22	
			<i>For >100 To 500, Deduct</i>	-13.79	
			<i>For >500 To 1,000, Deduct</i>	-28.91	
			<i>For >1,000, Deduct</i>	-42.41	
21 13 13 00-0097	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	96.83	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.22	
			<i>For >100 To 500, Deduct</i>	-13.79	
			<i>For >500 To 1,000, Deduct</i>	-28.91	
			<i>For >1,000, Deduct</i>	-42.41	
21 13 13 00-0098	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Brass Wet Pipe Sprinkler Head.....	88.45	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.46	
			<i>For >100 To 500, Deduct</i>	-12.58	
			<i>For >500 To 1,000, Deduct</i>	-26.25	
			<i>For >1,000, Deduct</i>	-38.41	
21 13 13 00-0099	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	91.16	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.60	
			<i>For >100 To 500, Deduct</i>	-12.91	
			<i>For >500 To 1,000, Deduct</i>	-26.74	
			<i>For >1,000, Deduct</i>	-38.89	
21 13 13 00-0100	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Brass Wet Pipe Sprinkler Head.....	95.21	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.80	
			<i>For >100 To 500, Deduct</i>	-13.42	
			<i>For >500 To 1,000, Deduct</i>	-27.47	
			<i>For >1,000, Deduct</i>	-39.62	
21 13 13 00-0101	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.97	
			<i>For >500 To 1,000, Deduct</i>	-28.27	
			<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0102	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Brass Wet Pipe Sprinkler Head.....	95.21	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.80	
			<i>For >100 To 500, Deduct</i>	-13.42	
			<i>For >500 To 1,000, Deduct</i>	-27.47	
			<i>For >1,000, Deduct</i>	-39.62	
21 13 13 00-0103	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.97	
			<i>For >500 To 1,000, Deduct</i>	-28.27	
			<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0104	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	84.96	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.29	
			<i>For >100 To 500, Deduct</i>	-12.14	
			<i>For >500 To 1,000, Deduct</i>	-25.62	
			<i>For >1,000, Deduct</i>	-37.78	
21 13 13 00-0105	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	87.28	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.40	
			<i>For >100 To 500, Deduct</i>	-12.43	
			<i>For >500 To 1,000, Deduct</i>	-26.04	
			<i>For >1,000, Deduct</i>	-38.20	
21 13 13 00-0106	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	88.50	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.46	
			<i>For >100 To 500, Deduct</i>	-12.58	
			<i>For >500 To 1,000, Deduct</i>	-26.26	
			<i>For >1,000, Deduct</i>	-38.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0107 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	93.17	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.03	
<i>For >100 To 500, Deduct</i>	-13.33	
<i>For >500 To 1,000, Deduct</i>	-28.25	
<i>For >1,000, Deduct</i>	-41.75	
21 13 13 00-0108 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	95.47	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.15	
<i>For >100 To 500, Deduct</i>	-13.62	
<i>For >500 To 1,000, Deduct</i>	-28.66	
<i>For >1,000, Deduct</i>	-42.17	
21 13 13 00-0109 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	97.69	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.26	
<i>For >100 To 500, Deduct</i>	-13.90	
<i>For >500 To 1,000, Deduct</i>	-29.06	
<i>For >1,000, Deduct</i>	-42.57	
21 13 13 00-0110 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	86.27	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.35	
<i>For >100 To 500, Deduct</i>	-12.30	
<i>For >500 To 1,000, Deduct</i>	-25.86	
<i>For >1,000, Deduct</i>	-38.01	
21 13 13 00-0111 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	88.55	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.47	
<i>For >100 To 500, Deduct</i>	-12.59	
<i>For >500 To 1,000, Deduct</i>	-26.27	
<i>For >1,000, Deduct</i>	-38.42	
21 13 13 00-0112 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	89.79	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.53	
<i>For >100 To 500, Deduct</i>	-12.74	
<i>For >500 To 1,000, Deduct</i>	-26.49	
<i>For >1,000, Deduct</i>	-38.65	
21 13 13 00-0113 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	94.15	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.08	
<i>For >100 To 500, Deduct</i>	-13.46	
<i>For >500 To 1,000, Deduct</i>	-28.43	
<i>For >1,000, Deduct</i>	-41.93	
21 13 13 00-0114 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	96.54	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.20	
<i>For >100 To 500, Deduct</i>	-13.76	
<i>For >500 To 1,000, Deduct</i>	-28.86	
<i>For >1,000, Deduct</i>	-42.36	
21 13 13 00-0115 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	98.85	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.32	
<i>For >100 To 500, Deduct</i>	-14.04	
<i>For >500 To 1,000, Deduct</i>	-29.27	
<i>For >1,000, Deduct</i>	-42.78	
21 13 13 00-0116 EA 1/2" NPT Thread, 1/2" Orifice, Decorative Pendent Chrome Wet Pipe Sprinkler Head.....	122.49	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-9.16	
<i>For >100 To 500, Deduct</i>	-16.83	
<i>For >500 To 1,000, Deduct</i>	-32.38	
<i>For >1,000, Deduct</i>	-44.53	
21 13 13 00-0117 EA 1/2" NPT Thread, 1/2" Orifice, Decorative Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	122.49	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-9.16	
<i>For >100 To 500, Deduct</i>	-16.83	
<i>For >500 To 1,000, Deduct</i>	-32.38	
<i>For >1,000, Deduct</i>	-44.53	
21 13 13 00-0118 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	100.70	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.41	
<i>For >100 To 500, Deduct</i>	-14.28	
<i>For >500 To 1,000, Deduct</i>	-29.60	
<i>For >1,000, Deduct</i>	-43.11	
21 13 13 00-0119 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	102.46	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.50	
<i>For >100 To 500, Deduct</i>	-14.50	
<i>For >500 To 1,000, Deduct</i>	-29.92	
<i>For >1,000, Deduct</i>	-43.43	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0120	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head	102.46	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.50	
			<i>For >100 To 500, Deduct</i>	-14.50	
			<i>For >500 To 1,000, Deduct</i>	-29.92	
			<i>For >1,000, Deduct</i>	-43.43	
21 13 13 00-0121	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	98.32	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.29	
			<i>For >100 To 500, Deduct</i>	-13.98	
			<i>For >500 To 1,000, Deduct</i>	-29.18	
			<i>For >1,000, Deduct</i>	-42.68	
21 13 13 00-0122	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	99.95	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.37	
			<i>For >100 To 500, Deduct</i>	-14.18	
			<i>For >500 To 1,000, Deduct</i>	-29.47	
			<i>For >1,000, Deduct</i>	-42.97	
21 13 13 00-0123	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head	99.95	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.37	
			<i>For >100 To 500, Deduct</i>	-14.18	
			<i>For >500 To 1,000, Deduct</i>	-29.47	
			<i>For >1,000, Deduct</i>	-42.97	
21 13 13 00-0124	EA		1/2" NPT Thread, K=5.6, Quick Response, Pendent Stainless Steel Wet Pipe Sprinkler Head	230.07	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-14.54	
			<i>For >100 To 500, Deduct</i>	-30.28	
			<i>For >500 To 1,000, Deduct</i>	-51.74	
			<i>For >1,000, Deduct</i>	-63.90	
21 13 13 00-0125	EA		3/4" NPT Thread, K=8.0, Quick Response, Pendent Stainless Steel Wet Pipe Sprinkler Head	253.59	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-16.06	
			<i>For >100 To 500, Deduct</i>	-33.39	
			<i>For >500 To 1,000, Deduct</i>	-57.12	
			<i>For >1,000, Deduct</i>	-70.63	
21 13 13 00-0126	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendent Brass Wet Pipe Sprinkler Head	134.90	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-9.78	
			<i>For >100 To 500, Deduct</i>	-18.38	
			<i>For >500 To 1,000, Deduct</i>	-34.61	
			<i>For >1,000, Deduct</i>	-46.77	
21 13 13 00-0127	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head.....	159.69	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-11.02	
			<i>For >100 To 500, Deduct</i>	-21.48	
			<i>For >500 To 1,000, Deduct</i>	-39.08	
			<i>For >1,000, Deduct</i>	-51.23	
21 13 13 00-0128	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendent Brass Wet Pipe Sprinkler Head	263.37	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-16.21	
			<i>For >100 To 500, Deduct</i>	-34.44	
			<i>For >500 To 1,000, Deduct</i>	-57.74	
			<i>For >1,000, Deduct</i>	-69.89	
21 13 13 00-0129	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendent Chrome Wet Pipe Sprinkler Head.....	327.99	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-19.44	
			<i>For >100 To 500, Deduct</i>	-42.52	
			<i>For >500 To 1,000, Deduct</i>	-69.37	
			<i>For >1,000, Deduct</i>	-81.52	
21 13 13 00-0130	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Brass Wet Pipe Sprinkler Head	166.44	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-11.70	
			<i>For >100 To 500, Deduct</i>	-22.49	
			<i>For >500 To 1,000, Deduct</i>	-41.44	
			<i>For >1,000, Deduct</i>	-54.94	
21 13 13 00-0131	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head.....	167.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-11.74	
			<i>For >100 To 500, Deduct</i>	-22.59	
			<i>For >500 To 1,000, Deduct</i>	-41.57	
			<i>For >1,000, Deduct</i>	-55.08	
21 13 13 00-0132			Sidewall Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0133			Horizontal Sidewall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0132)</small>		
21 13 13 00-0134	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	84.15	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.25	
			<i>For >100 To 500, Deduct</i>	-12.04	
			<i>For >500 To 1,000, Deduct</i>	-25.48	
			<i>For >1,000, Deduct</i>	-37.63	



		Fire Suppression	21
		Water-Based Fire-Suppression Systems	21 10
		Fire-Suppression Sprinkler Systems	21 13

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
21 13 13 00-0135	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	85.80	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.33	
		<i>For >100 To 500, Deduct</i>	-12.24	
		<i>For >500 To 1,000, Deduct</i>	-25.77	
		<i>For >1,000, Deduct</i>	-37.93	
21 13 13 00-0136	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall White Polyester Coated Wet Pipe Sprinkler Head.....	88.42	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.46	
		<i>For >100 To 500, Deduct</i>	-12.57	
		<i>For >500 To 1,000, Deduct</i>	-26.25	
		<i>For >1,000, Deduct</i>	-38.40	
21 13 13 00-0137	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	85.08	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.29	
		<i>For >100 To 500, Deduct</i>	-12.15	
		<i>For >500 To 1,000, Deduct</i>	-25.65	
		<i>For >1,000, Deduct</i>	-37.80	
21 13 13 00-0138	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	86.77	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.38	
		<i>For >100 To 500, Deduct</i>	-12.37	
		<i>For >500 To 1,000, Deduct</i>	-25.95	
		<i>For >1,000, Deduct</i>	-38.10	
21 13 13 00-0139	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	89.43	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.51	
		<i>For >100 To 500, Deduct</i>	-12.70	
		<i>For >500 To 1,000, Deduct</i>	-26.43	
		<i>For >1,000, Deduct</i>	-38.58	
21 13 13 00-0140	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	91.16	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.60	
		<i>For >100 To 500, Deduct</i>	-12.91	
		<i>For >500 To 1,000, Deduct</i>	-26.74	
		<i>For >1,000, Deduct</i>	-38.89	
21 13 13 00-0141	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	93.85	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.73	
		<i>For >100 To 500, Deduct</i>	-13.25	
		<i>For >500 To 1,000, Deduct</i>	-27.22	
		<i>For >1,000, Deduct</i>	-39.38	
21 13 13 00-0142	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	99.28	16.88
		<i>For >25 To 50, Deduct</i>	-3.38	
		<i>For >50 To 100, Deduct</i>	-8.34	
		<i>For >100 To 500, Deduct</i>	-14.10	
		<i>For >500 To 1,000, Deduct</i>	-29.35	
		<i>For >1,000, Deduct</i>	-42.85	
21 13 13 00-0143	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	103.31	16.88
		<i>For >25 To 50, Deduct</i>	-3.38	
		<i>For >50 To 100, Deduct</i>	-8.54	
		<i>For >100 To 500, Deduct</i>	-14.60	
		<i>For >500 To 1,000, Deduct</i>	-30.07	
		<i>For >1,000, Deduct</i>	-43.58	
21 13 13 00-0144	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	96.97	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.89	
		<i>For >100 To 500, Deduct</i>	-13.64	
		<i>For >500 To 1,000, Deduct</i>	-27.79	
		<i>For >1,000, Deduct</i>	-39.94	
21 13 13 00-0145	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-8.02	
		<i>For >100 To 500, Deduct</i>	-13.97	
		<i>For >500 To 1,000, Deduct</i>	-28.27	
		<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0146	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	96.97	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.89	
		<i>For >100 To 500, Deduct</i>	-13.64	
		<i>For >500 To 1,000, Deduct</i>	-27.79	
		<i>For >1,000, Deduct</i>	-39.94	
21 13 13 00-0147	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-8.02	
		<i>For >100 To 500, Deduct</i>	-13.97	
		<i>For >500 To 1,000, Deduct</i>	-28.27	
		<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0148	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	82.74	15.19
		<i>For >25 To 50, Deduct</i>	-3.04	
		<i>For >50 To 100, Deduct</i>	-7.18	
		<i>For >100 To 500, Deduct</i>	-11.86	
		<i>For >500 To 1,000, Deduct</i>	-25.22	
		<i>For >1,000, Deduct</i>	-37.38	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0149	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....84.11	84.11	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.24	
			<i>For >100 To 500, Deduct</i>	-12.03	
			<i>For >500 To 1,000, Deduct</i>	-25.47	
			<i>For >1,000, Deduct</i>	-37.62	
21 13 13 00-0150	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head .....85.81	85.81	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.33	
			<i>For >100 To 500, Deduct</i>	-12.25	
			<i>For >500 To 1,000, Deduct</i>	-25.78	
			<i>For >1,000, Deduct</i>	-37.93	
21 13 13 00-0151	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....91.09	91.09	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.93	
			<i>For >100 To 500, Deduct</i>	-13.07	
			<i>For >500 To 1,000, Deduct</i>	-27.87	
			<i>For >1,000, Deduct</i>	-41.38	
21 13 13 00-0152	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....92.56	92.56	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.00	
			<i>For >100 To 500, Deduct</i>	-13.26	
			<i>For >500 To 1,000, Deduct</i>	-28.14	
			<i>For >1,000, Deduct</i>	-41.64	
21 13 13 00-0153	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....94.14	94.14	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.08	
			<i>For >100 To 500, Deduct</i>	-13.46	
			<i>For >500 To 1,000, Deduct</i>	-28.42	
			<i>For >1,000, Deduct</i>	-41.93	
21 13 13 00-0154	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....92.25	92.25	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.22	
			<i>For >500 To 1,000, Deduct</i>	-28.08	
			<i>For >1,000, Deduct</i>	-41.59	
21 13 13 00-0155	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....93.78	93.78	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.07	
			<i>For >100 To 500, Deduct</i>	-13.41	
			<i>For >500 To 1,000, Deduct</i>	-28.36	
			<i>For >1,000, Deduct</i>	-41.86	
21 13 13 00-0156	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....95.42	95.42	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.15	
			<i>For >100 To 500, Deduct</i>	-13.62	
			<i>For >500 To 1,000, Deduct</i>	-28.65	
			<i>For >1,000, Deduct</i>	-42.16	
21 13 13 00-0157	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....95.45	95.45	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.15	
			<i>For >100 To 500, Deduct</i>	-13.62	
			<i>For >500 To 1,000, Deduct</i>	-28.66	
			<i>For >1,000, Deduct</i>	-42.16	
21 13 13 00-0158	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....97.70	97.70	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.26	
			<i>For >100 To 500, Deduct</i>	-13.90	
			<i>For >500 To 1,000, Deduct</i>	-29.06	
			<i>For >1,000, Deduct</i>	-42.57	
21 13 13 00-0159	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....97.70	97.70	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.26	
			<i>For >100 To 500, Deduct</i>	-13.90	
			<i>For >500 To 1,000, Deduct</i>	-29.06	
			<i>For >1,000, Deduct</i>	-42.57	
21 13 13 00-0160	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....137.40	137.40	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-9.91	
			<i>For >100 To 500, Deduct</i>	-18.69	
			<i>For >500 To 1,000, Deduct</i>	-35.06	
			<i>For >1,000, Deduct</i>	-47.22	
21 13 13 00-0161	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall White Wet Pipe Sprinkler Head.....137.40	137.40	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-9.91	
			<i>For >100 To 500, Deduct</i>	-18.69	
			<i>For >500 To 1,000, Deduct</i>	-35.06	
			<i>For >1,000, Deduct</i>	-47.22	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0162 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....83.31	83.31	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.20	
For >100 To 500, Deduct	-11.93	
For >500 To 1,000, Deduct	-25.33	
For >1,000, Deduct	-37.48	
21 13 13 00-0163 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....83.31	83.31	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.20	
For >100 To 500, Deduct	-11.93	
For >500 To 1,000, Deduct	-25.33	
For >1,000, Deduct	-37.48	
21 13 13 00-0164 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall White Wet Pipe Sprinkler Head .....83.31	83.31	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.20	
For >100 To 500, Deduct	-11.93	
For >500 To 1,000, Deduct	-25.33	
For >1,000, Deduct	-37.48	
21 13 13 00-0165 Vertical Sidewall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0132)</small>		
21 13 13 00-0166 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Brass Wet Pipe Sprinkler Head.....86.29	86.29	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.35	
For >100 To 500, Deduct	-12.31	
For >500 To 1,000, Deduct	-25.86	
For >1,000, Deduct	-38.02	
21 13 13 00-0167 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Chrome Wet Pipe Sprinkler Head .....88.36	88.36	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.46	
For >100 To 500, Deduct	-12.56	
For >500 To 1,000, Deduct	-26.24	
For >1,000, Deduct	-38.39	
21 13 13 00-0168 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall White Wet Pipe Sprinkler Head.....89.24	89.24	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.50	
For >100 To 500, Deduct	-12.67	
For >500 To 1,000, Deduct	-26.39	
For >1,000, Deduct	-38.55	
21 13 13 00-0169 Concealed Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0170 Concealed Pendant Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0169)</small>		
21 13 13 00-0171 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....121.61	121.61	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-10.13	
For >100 To 500, Deduct	-17.23	
For >500 To 1,000, Deduct	-35.66	
For >1,000, Deduct	-51.87	
21 13 13 00-0172 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head .....97.38	97.38	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-8.92	
For >100 To 500, Deduct	-14.20	
For >500 To 1,000, Deduct	-31.30	
For >1,000, Deduct	-47.51	
21 13 13 00-0173 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Concealed Pendent Brass Wet Pipe Sprinkler Head .....98.27	98.27	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-8.96	
For >100 To 500, Deduct	-14.31	
For >500 To 1,000, Deduct	-31.46	
For >1,000, Deduct	-47.67	
21 13 13 00-0174 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Concealed Pendent Brass Wet Pipe Sprinkler Head .....117.04	117.04	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-10.24	
For >100 To 500, Deduct	-16.82	
For >500 To 1,000, Deduct	-35.99	
For >1,000, Deduct	-53.55	
21 13 13 00-0175 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Concealed Pendent Brass Wet Pipe Sprinkler Head .....110.28	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0176 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Concealed Pendent Brass Wet Pipe Sprinkler Head .....110.28	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0177 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head 117.04	117.04	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-10.24	
For >100 To 500, Deduct	-16.82	
For >500 To 1,000, Deduct	-35.99	
For >1,000, Deduct	-53.55	
21 13 13 00-0178 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head 104.61	104.61	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.28	
For >100 To 500, Deduct	-15.10	
For >500 To 1,000, Deduct	-32.60	
For >1,000, Deduct	-48.81	
21 13 13 00-0179 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head 110.28	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0180 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head 110.28	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0181 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head 105.95	105.95	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.35	
For >100 To 500, Deduct	-15.27	
For >500 To 1,000, Deduct	-32.84	
For >1,000, Deduct	-49.05	
21 13 13 00-0182 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Adjustable Concealed Pendent Brass Wet Pipe Sprinkler Head 157.57	157.57	23.63
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.73	
For >50 To 100, Deduct	-12.61	
For >100 To 500, Deduct	-22.06	
For >500 To 1,000, Deduct	-44.43	
For >1,000, Deduct	-63.34	
21 13 13 00-0183 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head 101.79	101.79	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.14	
For >100 To 500, Deduct	-14.75	
For >500 To 1,000, Deduct	-32.10	
For >1,000, Deduct	-48.30	
21 13 13 00-0184 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head 108.18	108.18	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-9.80	
For >100 To 500, Deduct	-15.72	
For >500 To 1,000, Deduct	-34.40	
For >1,000, Deduct	-51.95	
21 13 13 00-0185 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head 102.58	102.58	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.18	
For >100 To 500, Deduct	-14.85	
For >500 To 1,000, Deduct	-32.24	
For >1,000, Deduct	-48.44	
21 13 13 00-0186 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head 109.34	109.34	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-9.86	
For >100 To 500, Deduct	-15.86	
For >500 To 1,000, Deduct	-34.60	
For >1,000, Deduct	-52.16	
21 13 13 00-0187 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head 117.41	117.41	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-10.26	
For >100 To 500, Deduct	-16.87	
For >500 To 1,000, Deduct	-36.06	
For >1,000, Deduct	-53.61	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0188 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable Chrome Coverplate.....	175.96	23.63
For >25 To 50, Deduct	-4.73	
For >50 To 100, Deduct	-13.52	
For >100 To 500, Deduct	-24.36	
For >500 To 1,000, Deduct	-47.74	
For >1,000, Deduct	-66.65	
21 13 13 00-0189 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable White Coverplate	175.96	23.63
For >25 To 50, Deduct	-4.73	
For >50 To 100, Deduct	-13.52	
For >100 To 500, Deduct	-24.36	
For >500 To 1,000, Deduct	-47.74	
For >1,000, Deduct	-66.65	
21 13 13 00-0190 Concealed Horizontal Side Wall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0189)</small>		
21 13 13 00-0191 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	128.35	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-10.47	
For >100 To 500, Deduct	-18.07	
For >500 To 1,000, Deduct	-36.88	
For >1,000, Deduct	-53.08	
21 13 13 00-0192 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	143.00	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-11.54	
For >100 To 500, Deduct	-20.07	
For >500 To 1,000, Deduct	-40.66	
For >1,000, Deduct	-58.22	
21 13 13 00-0193 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head	108.65	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.48	
For >100 To 500, Deduct	-15.61	
For >500 To 1,000, Deduct	-33.33	
For >1,000, Deduct	-49.53	
21 13 13 00-0194 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head	112.41	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-10.01	
For >100 To 500, Deduct	-16.25	
For >500 To 1,000, Deduct	-35.16	
For >1,000, Deduct	-52.71	
21 13 13 00-0195 Institutional Tamper Resistant Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0196 EA 1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head	250.84	16.88
Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-15.92	
For >100 To 500, Deduct	-33.04	
For >500 To 1,000, Deduct	-56.63	
For >1,000, Deduct	-70.13	
21 13 13 00-0197 EA 1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	245.54	16.88
Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-15.65	
For >100 To 500, Deduct	-32.38	
For >500 To 1,000, Deduct	-55.68	
For >1,000, Deduct	-69.18	
21 13 13 00-0198 EA 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head.....	123.57	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-9.55	
For >100 To 500, Deduct	-17.13	
For >500 To 1,000, Deduct	-33.72	
For >1,000, Deduct	-47.23	
21 13 13 00-0199 EA 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	134.56	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-10.10	
For >100 To 500, Deduct	-18.51	
For >500 To 1,000, Deduct	-35.70	
For >1,000, Deduct	-49.20	
21 13 13 00-0200 Wet Pipe Sprinkler Head Accessories <small>(21 13 13 00-0011)</small>		
21 13 13 00-0201 Sprinkler Adjustable Steel Drop Nipple <small>(21 13 13 00-0200)</small>		

21 Fire Suppression
21 10 Water-Based Fire-Suppression Systems
21 13 Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0202	EA		1" Male NPT x 1/2" Female NPT x 4.125" Minimum Length To 5.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M1.150)	47.54	15.83
			<i>For >25 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.70	
			<i>For >100 To 500, Deduct</i>	-6.60	
			<i>For >500 To 1,000, Deduct</i>	-13.04	
			<i>For >1,000, Deduct</i>	-18.32	
21 13 13 00-0203	EA		1" Male NPT x 1/2" Female NPT x 6.125" Minimum Length To 9.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M3.150)	47.54	15.83
			<i>For >25 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.70	
			<i>For >100 To 500, Deduct</i>	-6.60	
			<i>For >500 To 1,000, Deduct</i>	-13.04	
			<i>For >1,000, Deduct</i>	-18.32	
21 13 13 00-0204	EA		1" Male NPT x 1/2" Female NPT x 7.875" Minimum Length To 10.875" Maximum Length, Adjustable Steel Drop Nipple (Anvil ME3.150)	47.97	15.83
			<i>For >25 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.72	
			<i>For >100 To 500, Deduct</i>	-6.66	
			<i>For >500 To 1,000, Deduct</i>	-13.12	
			<i>For >1,000, Deduct</i>	-18.40	
21 13 13 00-0205	EA		1" Female NPT x 1/2" Female NPT x 3.5" Minimum Length To 4.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F1.150)	43.52	15.83
			<i>For >25 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.50	
			<i>For >100 To 500, Deduct</i>	-6.10	
			<i>For >500 To 1,000, Deduct</i>	-12.32	
			<i>For >1,000, Deduct</i>	-17.60	
21 13 13 00-0206	EA		1" Female NPT x 1/2" Female NPT x 4.5" Minimum Length To 6.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F2.150)	43.52	15.83
			<i>For >25 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.50	
			<i>For >100 To 500, Deduct</i>	-6.10	
			<i>For >500 To 1,000, Deduct</i>	-12.32	
			<i>For >1,000, Deduct</i>	-17.60	
21 13 13 00-0207	EA		1" Female NPT x 1/2" Female NPT x 5.5" Minimum Length To 8.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.150)	43.52	15.83
			<i>For >25 To 50, Deduct</i>	-1.32	
			<i>For >50 To 100, Deduct</i>	-3.50	
			<i>For >100 To 500, Deduct</i>	-6.10	
			<i>For >500 To 1,000, Deduct</i>	-12.32	
			<i>For >1,000, Deduct</i>	-17.60	
21 13 13 00-0208	EA		1" Female NPT x 3/4" Female NPT x 7.35" Minimum Length To 10.35" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.175)	48.32	17.22
			<i>For >25 To 50, Deduct</i>	-1.43	
			<i>For >50 To 100, Deduct</i>	-3.85	
			<i>For >100 To 500, Deduct</i>	-6.76	
			<i>For >500 To 1,000, Deduct</i>	-13.57	
			<i>For >1,000, Deduct</i>	-19.31	
21 13 13 00-0209			Sprinkler Head Escutcheon <small>(21 13 13 00-0200)</small>		
21 13 13 00-0210	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon	18.79	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100 To 500, Deduct</i>	-2.60	
			<i>For >500 To 1,000, Deduct</i>	-5.10	
			<i>For >1,000, Deduct</i>	-7.13	
21 13 13 00-0211	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon	14.41	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-4.31	
			<i>For >1,000, Deduct</i>	-6.34	
21 13 13 00-0212	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon	14.41	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-4.31	
			<i>For >1,000, Deduct</i>	-6.34	
21 13 13 00-0213	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon	18.79	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100 To 500, Deduct</i>	-2.60	
			<i>For >500 To 1,000, Deduct</i>	-5.10	
			<i>For >1,000, Deduct</i>	-7.13	
21 13 13 00-0214	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon	14.41	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-4.31	
			<i>For >1,000, Deduct</i>	-6.34	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0215 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0216 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	18.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.41	
For >100 To 500, Deduct	-2.50	
For >500 To 1,000, Deduct	-4.96	
For >1,000, Deduct	-6.98	
21 13 13 00-0217 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0218 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0219 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	18.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.41	
For >100 To 500, Deduct	-2.50	
For >500 To 1,000, Deduct	-4.96	
For >1,000, Deduct	-6.98	
21 13 13 00-0220 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0221 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0222 EA 3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off Chrome Sprinkler Head Recessed Escutcheon.....	18.39	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.43	
For >100 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-5.03	
For >1,000, Deduct	-7.05	
21 13 13 00-0223 EA 3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off White Sprinkler Head Recessed Escutcheon	18.39	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.43	
For >100 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-5.03	
For >1,000, Deduct	-7.05	
21 13 13 00-0224 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Brass Sprinkler Head Escutcheon.....	8.50	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.76	
For >100 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-2.68	
For >1,000, Deduct	-4.03	
21 13 13 00-0225 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon	7.95	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.74	
For >100 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-2.58	
For >1,000, Deduct	-3.93	
21 13 13 00-0226 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon.....	8.10	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.74	
For >100 To 500, Deduct	-1.18	
For >500 To 1,000, Deduct	-2.61	
For >1,000, Deduct	-3.96	
21 13 13 00-0227 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Brass Sprinkler Head Escutcheon.....	8.60	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.77	
For >100 To 500, Deduct	-1.24	
For >500 To 1,000, Deduct	-2.70	
For >1,000, Deduct	-4.05	
21 13 13 00-0228 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Chrome Sprinkler Head Escutcheon	8.05	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.74	
For >100 To 500, Deduct	-1.18	
For >500 To 1,000, Deduct	-2.60	
For >1,000, Deduct	-3.95	

21 Fire Suppression
21 10 Water-Based Fire-Suppression Systems
21 13 Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0229	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, White Sprinkler Head Escutcheon.....	8.05	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.18	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.95	
21 13 13 00-0230	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Bright Brass Sprinkler Head Escutcheon.....	9.17	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.80	
			<i>For >100 To 500, Deduct</i>	-1.32	
			<i>For >500 To 1,000, Deduct</i>	-2.80	
			<i>For >1,000, Deduct</i>	-4.15	
21 13 13 00-0231	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon	8.04	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-2.59	
			<i>For >1,000, Deduct</i>	-3.94	
21 13 13 00-0232	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon.....	8.04	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-2.59	
			<i>For >1,000, Deduct</i>	-3.94	
21 13 13 00-0233	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Telescoping Escutcheon.....	12.51	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.75	
21 13 13 00-0234	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Telescoping Escutcheon.....	12.20	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.08	
			<i>For >100 To 500, Deduct</i>	-1.76	
			<i>For >500 To 1,000, Deduct</i>	-3.80	
			<i>For >1,000, Deduct</i>	-5.69	
21 13 13 00-0235	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, White Sprinkler Head Telescoping Escutcheon.....	12.31	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 500, Deduct</i>	-1.78	
			<i>For >500 To 1,000, Deduct</i>	-3.82	
			<i>For >1,000, Deduct</i>	-5.71	
21 13 13 00-0236	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Telescoping Escutcheon.....	12.61	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 500, Deduct</i>	-1.81	
			<i>For >500 To 1,000, Deduct</i>	-3.88	
			<i>For >1,000, Deduct</i>	-5.77	
21 13 13 00-0237	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Telescoping Escutcheon.....	12.31	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 500, Deduct</i>	-1.78	
			<i>For >500 To 1,000, Deduct</i>	-3.82	
			<i>For >1,000, Deduct</i>	-5.71	
21 13 13 00-0238	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, White Sprinkler Head Telescoping Escutcheon.....	12.51	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.75	
21 13 13 00-0239	EA		Flat Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	22.00	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.61	
			<i>For >100 To 500, Deduct</i>	-3.00	
			<i>For >500 To 1,000, Deduct</i>	-5.68	
			<i>For >1,000, Deduct</i>	-7.70	
21 13 13 00-0240	EA		Flat White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	22.00	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.61	
			<i>For >100 To 500, Deduct</i>	-3.00	
			<i>For >500 To 1,000, Deduct</i>	-5.68	
			<i>For >1,000, Deduct</i>	-7.70	
21 13 13 00-0241	EA		Conical Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	22.00	6.08
			<i>For >25 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.61	
			<i>For >100 To 500, Deduct</i>	-3.00	
			<i>For >500 To 1,000, Deduct</i>	-5.68	
			<i>For >1,000, Deduct</i>	-7.70	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0242 EA Conical White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0243 EA Chrome Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head.....	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0244 EA White Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head.....	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0245 EA 2-Piece Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	24.72	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.74	
For >100 To 500, Deduct	-3.34	
For >500 To 1,000, Deduct	-6.17	
For >1,000, Deduct	-8.19	
21 13 13 00-0246 EA 2-Piece White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	25.35	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.77	
For >100 To 500, Deduct	-3.42	
For >500 To 1,000, Deduct	-6.28	
For >1,000, Deduct	-8.31	
21 13 13 00-0247 Coverplate For Sprinkler Heads (21 13 13 00-0200)		
21 13 13 00-0248 EA Chrome Coverplate For Concealed Pendent Sprinkler Head.....	46.80	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.91	
For >100 To 500, Deduct	-6.14	
For >500 To 1,000, Deduct	-10.38	
For >1,000, Deduct	-12.67	
21 13 13 00-0249 EA White Coverplate For Concealed Pendent Sprinkler Head.....	25.24	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.84	
For >100 To 500, Deduct	-3.44	
For >500 To 1,000, Deduct	-6.49	
For >1,000, Deduct	-8.79	
21 13 13 00-0250 EA Specialty Coverplate For Concealed Pendent Sprinkler Head.....	34.59	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.30	
For >100 To 500, Deduct	-4.61	
For >500 To 1,000, Deduct	-8.18	
For >1,000, Deduct	-10.47	
21 13 13 00-0251 EA Brass Coverplate For Concealed Sidewall Sprinkler Head.....	32.17	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.18	
For >100 To 500, Deduct	-4.31	
For >500 To 1,000, Deduct	-7.74	
For >1,000, Deduct	-10.04	
21 13 13 00-0252 EA Chrome Coverplate For Concealed Sidewall Sprinkler Head.....	26.67	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.91	
For >100 To 500, Deduct	-3.62	
For >500 To 1,000, Deduct	-6.75	
For >1,000, Deduct	-9.05	
21 13 13 00-0253 EA White Coverplate For Concealed Sidewall Sprinkler Head.....	26.67	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.91	
For >100 To 500, Deduct	-3.62	
For >500 To 1,000, Deduct	-6.75	
For >1,000, Deduct	-9.05	
21 13 13 00-0254 EA Off-White Coverplate For Concealed Sidewall Sprinkler Head.....	32.17	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.18	
For >100 To 500, Deduct	-4.31	
For >500 To 1,000, Deduct	-7.74	
For >1,000, Deduct	-10.04	
21 13 13 00-0255 EA Black Painted Coverplate For Concealed Sidewall Sprinkler Head.....	32.17	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.18	
For >100 To 500, Deduct	-4.31	
For >500 To 1,000, Deduct	-7.74	
For >1,000, Deduct	-10.04	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0256	EA		Black Plated Coverplate For Concealed Sidewall Sprinkler Head	36.52	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100 To 500, Deduct</i>	-4.85	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000, Deduct</i>	-10.82	
21 13 13 00-0257	EA		Bright Brass Coverplate For Concealed Sidewall Sprinkler Head.....	36.52	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100 To 500, Deduct</i>	-4.85	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000, Deduct</i>	-10.82	
21 13 13 00-0258	EA		Satin Chrome Coverplate For Concealed Sidewall Sprinkler Head	36.52	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100 To 500, Deduct</i>	-4.85	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000, Deduct</i>	-10.82	
21 13 13 00-0259	EA		Specialty Coverplate For Concealed Sidewall Sprinkler Head.....	32.19	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100 To 500, Deduct</i>	-4.31	
			<i>For >500 To 1,000, Deduct</i>	-7.75	
			<i>For >1,000, Deduct</i>	-10.04	
21 13 13 00-0260	EA		White Coverplate For Quick Release Concealed Sidewall Sprinkler Head.....	52.35	8.10
			<i>For >25 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-3.29	
			<i>For >100 To 500, Deduct</i>	-6.88	
			<i>For >500 To 1,000, Deduct</i>	-11.72	
			<i>For >1,000, Deduct</i>	-14.42	
21 13 13 00-0261			Sprinkler Escutcheon Extension Tube <small>(21 13 13 00-0200)</small>		
21 13 13 00-0262	EA		2.18" Diameter x 4" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	13.58	4.06
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-1.02	
			<i>For >100 To 500, Deduct</i>	-1.87	
			<i>For >500 To 1,000, Deduct</i>	-3.59	
			<i>For >1,000, Deduct</i>	-4.94	
21 13 13 00-0263	EA		2.18" Diameter x 6" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	16.96	4.26
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100 To 500, Deduct</i>	-2.30	
			<i>For >500 To 1,000, Deduct</i>	-4.26	
			<i>For >1,000, Deduct</i>	-5.68	
21 13 13 00-0264	EA		2.18" Diameter x 8" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	20.71	4.46
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.37	
			<i>For >50 To 100, Deduct</i>	-1.41	
			<i>For >100 To 500, Deduct</i>	-2.77	
			<i>For >500 To 1,000, Deduct</i>	-4.99	
			<i>For >1,000, Deduct</i>	-6.48	
21 13 13 00-0265	EA		2.18" Diameter x 10" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	24.09	4.66
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.39	
			<i>For >50 To 100, Deduct</i>	-1.59	
			<i>For >100 To 500, Deduct</i>	-3.21	
			<i>For >500 To 1,000, Deduct</i>	-5.66	
			<i>For >1,000, Deduct</i>	-7.21	
21 13 13 00-0266			Sprinkler Head Guards <small>(21 13 13 00-0200)</small>		
21 13 13 00-0267	EA		Universal Sprinkler Head Guard, C-1.....	24.61	12.16
			<i>For >25 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100 To 500, Deduct</i>	-3.58	
			<i>For >500 To 1,000, Deduct</i>	-7.87	
			<i>For >1,000, Deduct</i>	-11.93	
21 13 13 00-0268	EA		Dry Pendent Sprinkler Head Guard, C-2.....	26.29	12.16
			<i>For >25 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.33	
			<i>For >100 To 500, Deduct</i>	-3.79	
			<i>For >500 To 1,000, Deduct</i>	-8.18	
			<i>For >1,000, Deduct</i>	-12.23	
21 13 13 00-0269	EA		Upright Sprinkler Head Guard With Water Shield, C-3	29.16	12.16
			<i>For >25 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.47	
			<i>For >100 To 500, Deduct</i>	-4.15	
			<i>For >500 To 1,000, Deduct</i>	-8.69	
			<i>For >1,000, Deduct</i>	-12.75	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0270 EA Pendent Sprinkler Head Guard With Water Shield, C-5	32.70	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.65	
For >100 To 500, Deduct	-4.59	
For >500 To 1,000, Deduct	-9.33	
For >1,000, Deduct	-13.38	
21 13 13 00-0271 EA Universal Sprinkler Head Guard, D-1	26.23	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.32	
For >100 To 500, Deduct	-3.79	
For >500 To 1,000, Deduct	-8.17	
For >1,000, Deduct	-12.22	
21 13 13 00-0272 EA Upright Sprinkler Head Guard With Water Shield, D-3	27.32	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.38	
For >100 To 500, Deduct	-3.92	
For >500 To 1,000, Deduct	-8.36	
For >1,000, Deduct	-12.41	
21 13 13 00-0273 EA Pendent Sprinkler Head Guard With Large Water Shield, D-4	35.44	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.79	
For >100 To 500, Deduct	-4.94	
For >500 To 1,000, Deduct	-9.82	
For >1,000, Deduct	-13.88	
21 13 13 00-0274 EA Pendent Sprinkler Head Guard With Small Water Shield, D-5.....	33.81	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.70	
For >100 To 500, Deduct	-4.73	
For >500 To 1,000, Deduct	-9.53	
For >1,000, Deduct	-13.58	
21 13 13 00-0275 Replacement Sprinkler Escutcheon (21 13 13 00-0200)		
21 13 13 00-0276 EA Push On, Brass Replacement Sprinkler Escutcheon.....	10.51	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.04	
For >1,000, Deduct	-4.39	
21 13 13 00-0277 EA Push On, Chrome Replacement Sprinkler Escutcheon	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	
21 13 13 00-0278 EA Push On, White Replacement Sprinkler Escutcheon.....	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	
21 13 13 00-0279 EA Flush, Brass Replacement Sprinkler Escutcheon	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	
21 13 13 00-0280 EA Flush, Chrome Replacement Sprinkler Escutcheon	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	
21 13 13 00-0281 EA Flush, White Replacement Sprinkler Escutcheon	12.11	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.94	
For >100 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-3.33	
For >1,000, Deduct	-4.68	
21 13 13 00-0282 EA Deep, Brass Replacement Sprinkler Escutcheon	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	
21 13 13 00-0283 EA Deep, Chrome Replacement Sprinkler Escutcheon.....	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0284 EA Deep, White Replacement Sprinkler Escutcheon	10.46	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.86	
For >100 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-4.38	
21 13 13 00-0285 Pendent Shield And O-Ring Assembly (21 13 13 00-0200)		
21 13 13 00-0286 EA Pendent Shield And O-Ring Assembly	17.96	8.92
For >25 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.57	
For >100 To 500, Deduct	-2.58	
For >500 To 1,000, Deduct	-5.53	
For >1,000, Deduct	-8.23	
21 13 13 00-0287 Replacement Insulating Sealing Assembly (21 13 13 00-0200)		
21 13 13 00-0288 EA Insulating Sealing Assembly	67.31	20.26
For >100 To 500, Deduct	-9.43	
For >500 To 1,000, Deduct	-19.00	
21 13 13 00-0289 Flexible Sprinkler Piping (21 13 13 00-0011)		
Note: 1" Diameter stainless steel flexible pipe with either 1/2" or 3/4" outlet.		
21 13 13 00-0290 EA 2' Long Stainless Steel Flexible Sprinkler Piping	75.55	20.93
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.89	
For >100 To 500, Deduct	-10.50	
For >500 To 1,000, Deduct	-20.77	
For >1,000, Deduct	-29.21	
21 13 13 00-0291 EA 3' Long Stainless Steel Flexible Sprinkler Piping	82.85	21.60
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.22	
For >50 To 100, Deduct	-6.36	
For >100 To 500, Deduct	-11.47	
For >500 To 1,000, Deduct	-22.46	
For >1,000, Deduct	-31.35	
21 13 13 00-0292 EA 4' Long Stainless Steel Flexible Sprinkler Piping	90.37	22.95
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.34	
For >50 To 100, Deduct	-6.86	
For >100 To 500, Deduct	-12.47	
For >500 To 1,000, Deduct	-24.24	
For >1,000, Deduct	-33.62	
21 13 13 00-0293 EA 5' Long Stainless Steel Flexible Sprinkler Piping	98.22	24.31
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.48	
For >50 To 100, Deduct	-7.39	
For >100 To 500, Deduct	-13.52	
For >500 To 1,000, Deduct	-26.12	
For >1,000, Deduct	-36.05	
21 13 13 00-0294 EA 6' Long Stainless Steel Flexible Sprinkler Piping	106.38	27.01
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.64	
For >50 To 100, Deduct	-7.96	
For >100 To 500, Deduct	-14.62	
For >500 To 1,000, Deduct	-28.12	
For >1,000, Deduct	-38.67	
21 13 13 00-0295 Sprinkler Emergency Cabinets (21 13 13 00-0011)		
21 13 13 00-0296 EA 3 Capacity Emergency Sprinkler Cabinet, A4	105.28	
21 13 13 00-0297 EA 6 Capacity Emergency Sprinkler Cabinet, A4	112.03	
21 13 13 00-0298 EA 12 Capacity Emergency Sprinkler Cabinet, A4	113.15	
21 13 13 00-0299 EA 12 Capacity Emergency Sprinkler Cabinet, A3	305.53	
21 13 13 00-0300 EA Sprinkler Wrench, RC1	124.89	
21 13 13 00-0301 EA Sprinkler Wrench, FC	124.41	
21 13 13 00-0302 EA Sprinkler Wrench, W2	41.31	

21 13 16 Dry-Pipe Sprinkler Systems (21 13)**21 13 16 00-0001 Complete Dry Pipe Sprinkler Systems (21 13 16)**

Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1367 for individual grooved pipe, 23 21 13 23-1440 for individual grooved pipe fittings.



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0002 Light Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		
21 13 16 00-0003 EA Exposed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head.....	579.38	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	269.67	
For >5 To 10, Add	152.74	
For >10 To 20, Add	114.82	
For >20 To 40, Add	47.93	
For >100 To 150, Deduct	-57.94	
For >150, Deduct	-115.88	
For Copper Pipe, Add	67.95	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-96.92	
21 13 16 00-0004 EA Concealed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head	732.48	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	344.43	
For >5 To 10, Add	201.84	
For >10 To 20, Add	150.40	
For >20 To 40, Add	62.34	
For >100 To 150, Deduct	-73.25	
For >150, Deduct	-146.50	
For Copper Pipe, Add	84.15	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-120.78	
21 13 16 00-0005 Ordinary Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		
21 13 16 00-0006 EA Exposed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head.....	586.38	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	272.00	
For >5 To 10, Add	152.26	
For >10 To 20, Add	114.81	
For >20 To 40, Add	48.04	
For >100 To 150, Deduct	-58.64	
For >150, Deduct	-117.28	
For Copper Pipe, Add	69.23	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-98.55	
21 13 16 00-0007 EA Concealed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head	735.94	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	345.19	
For >5 To 10, Add	200.63	
For >10 To 20, Add	149.82	
For >20 To 40, Add	62.20	
For >100 To 150, Deduct	-73.59	
For >150, Deduct	-147.19	
For Copper Pipe, Add	84.98	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-121.78	
21 13 16 00-0008 Extra Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		
21 13 16 00-0009 EA Exposed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head.....	549.73	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	254.79	
For >5 To 10, Add	142.21	
For >10 To 20, Add	107.31	
For >20 To 40, Add	44.93	
For >100 To 150, Deduct	-54.97	
For >150, Deduct	-109.95	
For Copper Pipe, Add	65.01	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-92.50	
21 13 16 00-0010 EA Concealed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head.....	685.15	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	321.39	
For >5 To 10, Add	186.84	
For >10 To 20, Add	139.51	
For >20 To 40, Add	57.92	
For >100 To 150, Deduct	-68.52	
For >150, Deduct	-137.03	
For Copper Pipe, Add	79.11	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-113.36	
21 13 16 00-0011 Dry-Pipe Sprinkler System Equipment <small>(21 13 16 00-0001)</small>		
21 13 16 00-0012 EA Dry System Air Compressor, 3/4 HP With Alarm Valve Flange With Gauge	2,112.51	387.51
21 13 16 00-0013 EA Dry System Air Compressor, 1 HP With Alarm Valve Flange With Gauge	2,192.37	387.51
21 13 16 00-0014 EA Dry System Air Compressor, 1-1/2 HP With Alarm Valve Flange With Gauge	2,259.75	387.51
21 13 16 00-0015 EA Dry System Air Compressor, 2 HP With Alarm Valve Flange With Gauge	2,521.77	387.51
21 13 16 00-0016 Dry Pipe Sprinkler System Components <small>(21 13 16)</small>		
Note: Excludes hydraulic calculations.		
21 13 16 00-0017 Dry Pipe Valves <small>(21 13 16 00-0016)</small>		
Note: Excludes trim package See CSI section 21 13 16 00-0022 for Dry Pipe Valve Trim.		
21 13 16 00-0018 EA 2-1/2" Dry Pipe Valve.....	2,626.05	157.78
21 13 16 00-0019 EA 3" Dry Pipe Valve.....	2,927.81	180.73
21 13 16 00-0020 EA 4" Dry Pipe Valve.....	3,349.43	306.95

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0021	EA		6" Dry Pipe Valve.....	4,245.96	387.28
21 13 16 00-0022			Dry Pipe Valve Trim <small>(21 13 16 00-0016)</small>		
			Note: Includes gauges, pressure switch, air supply and drain lines.		
21 13 16 00-0023	EA		2-1/2" Dry Pipe Valve Trim.....	1,441.19	333.92
21 13 16 00-0024	EA		3" Dry Pipe Valve Trim.....	1,441.19	333.92
21 13 16 00-0025	EA		4" Dry Pipe Valve Trim.....	1,712.33	457.84
21 13 16 00-0026	EA		6" Dry Pipe Valve Trim.....	2,010.67	636.85
21 13 16 00-0027			Recessed Pendent Dry Pipe Sprinkler Heads, Quick Response <small>(21 13 16 00-0016)</small>		
21 13 16 00-0028	EA		3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	196.07	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-13.85	
			For >100 To 500, Deduct	-26.53	
			For >500 To 1,000, Deduct	-49.07	
			For >1,000, Deduct	-65.27	
21 13 16 00-0029	EA		6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	202.70	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-14.19	
			For >100 To 500, Deduct	-27.36	
			For >500 To 1,000, Deduct	-50.26	
			For >1,000, Deduct	-66.46	
21 13 16 00-0030	EA		9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	209.33	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-14.52	
			For >100 To 500, Deduct	-28.19	
			For >500 To 1,000, Deduct	-51.45	
			For >1,000, Deduct	-67.66	
21 13 16 00-0031	EA		12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	215.98	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-14.85	
			For >100 To 500, Deduct	-29.02	
			For >500 To 1,000, Deduct	-52.65	
			For >1,000, Deduct	-68.85	
21 13 16 00-0032	EA		15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	222.61	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-15.18	
			For >100 To 500, Deduct	-29.85	
			For >500 To 1,000, Deduct	-53.84	
			For >1,000, Deduct	-70.05	
21 13 16 00-0033	EA		18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	229.24	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-15.51	
			For >100 To 500, Deduct	-30.68	
			For >500 To 1,000, Deduct	-55.04	
			For >1,000, Deduct	-71.24	
21 13 16 00-0034	EA		21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	235.87	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-15.84	
			For >100 To 500, Deduct	-31.51	
			For >500 To 1,000, Deduct	-56.23	
			For >1,000, Deduct	-72.43	
21 13 16 00-0035	EA		24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	242.51	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-16.18	
			For >100 To 500, Deduct	-32.34	
			For >500 To 1,000, Deduct	-57.43	
			For >1,000, Deduct	-73.63	
21 13 16 00-0036	EA		27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	249.13	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-16.51	
			For >100 To 500, Deduct	-33.17	
			For >500 To 1,000, Deduct	-58.62	
			For >1,000, Deduct	-74.82	
21 13 16 00-0037	EA		30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	255.77	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-16.84	
			For >100 To 500, Deduct	-34.00	
			For >500 To 1,000, Deduct	-59.81	
			For >1,000, Deduct	-76.02	
21 13 16 00-0038	EA		33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	262.41	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-17.17	
			For >100 To 500, Deduct	-34.83	
			For >500 To 1,000, Deduct	-61.01	
			For >1,000, Deduct	-77.21	
21 13 16 00-0039	EA		36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	269.04	26.74
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-17.50	
			For >100 To 500, Deduct	-35.66	
			For >500 To 1,000, Deduct	-62.20	
			For >1,000, Deduct	-78.40	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0040 EA 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	275.69	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-17.84	
For >100 To 500, Deduct	-36.49	
For >500 To 1,000, Deduct	-63.40	
For >1,000, Deduct	-79.60	
21 13 16 00-0041 EA 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	282.31	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-18.17	
For >100 To 500, Deduct	-37.31	
For >500 To 1,000, Deduct	-64.59	
For >1,000, Deduct	-80.79	
21 13 16 00-0042 EA 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	288.95	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-18.50	
For >100 To 500, Deduct	-38.14	
For >500 To 1,000, Deduct	-65.78	
For >1,000, Deduct	-81.99	
21 13 16 00-0043 Sidewall Dry Pipe Sprinkler Heads, Quick Response <small>(21 13 16 00-0016)</small>		
21 13 16 00-0044 EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	194.47	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-13.77	
For >100 To 500, Deduct	-26.33	
For >500 To 1,000, Deduct	-48.78	
For >1,000, Deduct	-64.98	
21 13 16 00-0045 EA 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	201.11	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-14.11	
For >100 To 500, Deduct	-27.16	
For >500 To 1,000, Deduct	-49.97	
For >1,000, Deduct	-66.18	
21 13 16 00-0046 EA 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	207.76	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-14.44	
For >100 To 500, Deduct	-28.00	
For >500 To 1,000, Deduct	-51.17	
For >1,000, Deduct	-67.37	
21 13 16 00-0047 EA 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	214.37	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-14.77	
For >100 To 500, Deduct	-28.82	
For >500 To 1,000, Deduct	-52.36	
For >1,000, Deduct	-68.56	
21 13 16 00-0048 EA 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	221.01	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.10	
For >100 To 500, Deduct	-29.65	
For >500 To 1,000, Deduct	-53.56	
For >1,000, Deduct	-69.76	
21 13 16 00-0049 EA 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	227.64	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.43	
For >100 To 500, Deduct	-30.48	
For >500 To 1,000, Deduct	-54.75	
For >1,000, Deduct	-70.95	
21 13 16 00-0050 EA 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	234.29	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.77	
For >100 To 500, Deduct	-31.31	
For >500 To 1,000, Deduct	-55.95	
For >1,000, Deduct	-72.15	
21 13 16 00-0051 EA 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	240.92	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-16.10	
For >100 To 500, Deduct	-32.14	
For >500 To 1,000, Deduct	-57.14	
For >1,000, Deduct	-73.34	
21 13 16 00-0052 EA 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	247.54	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-16.43	
For >100 To 500, Deduct	-32.97	
For >500 To 1,000, Deduct	-58.33	
For >1,000, Deduct	-74.53	
21 13 16 00-0053 EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	254.17	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-16.76	
For >100 To 500, Deduct	-33.80	
For >500 To 1,000, Deduct	-59.52	
For >1,000, Deduct	-75.73	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0054	EA		33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	260.81	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-17.09	
			<i>For >100 To 500, Deduct</i>	-34.63	
			<i>For >500 To 1,000, Deduct</i>	-60.72	
			<i>For >1,000, Deduct</i>	-76.92	
21 13 16 00-0055	EA		36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	267.45	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-17.42	
			<i>For >100 To 500, Deduct</i>	-35.46	
			<i>For >500 To 1,000, Deduct</i>	-61.91	
			<i>For >1,000, Deduct</i>	-78.12	
21 13 16 00-0056	EA		39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	287.36	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-18.42	
			<i>For >100 To 500, Deduct</i>	-37.95	
			<i>For >500 To 1,000, Deduct</i>	-65.50	
			<i>For >1,000, Deduct</i>	-81.70	
21 13 16 00-0057	EA		42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	293.99	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-18.75	
			<i>For >100 To 500, Deduct</i>	-38.77	
			<i>For >500 To 1,000, Deduct</i>	-66.69	
			<i>For >1,000, Deduct</i>	-82.90	
21 13 16 00-0058	EA		45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	296.64	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-18.88	
			<i>For >100 To 500, Deduct</i>	-39.11	
			<i>For >500 To 1,000, Deduct</i>	-67.17	
			<i>For >1,000, Deduct</i>	-83.37	
21 13 16 00-0059			Pendent Dry Pipe Sprinkler Head, Early Suppression, Fast Response <small>(21 13 16 00-0016)</small>		
21 13 16 00-0060	EA		23" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	763.46	26.74
			<i>For >25 To 50, Deduct</i>	-4.39	
			<i>For >50 To 100, Deduct</i>	-42.56	
			<i>For >100 To 500, Deduct</i>	-97.63	
			<i>For >500 To 1,000, Deduct</i>	-152.35	
			<i>For >1,000, Deduct</i>	-169.90	
21 13 16 00-0061	EA		30" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	763.46	26.74
			<i>For >25 To 50, Deduct</i>	-4.39	
			<i>For >50 To 100, Deduct</i>	-42.56	
			<i>For >100 To 500, Deduct</i>	-97.63	
			<i>For >500 To 1,000, Deduct</i>	-152.35	
			<i>For >1,000, Deduct</i>	-169.90	
21 13 16 00-0062	EA		36" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	763.46	26.74
			<i>For >25 To 50, Deduct</i>	-4.39	
			<i>For >50 To 100, Deduct</i>	-42.56	
			<i>For >100 To 500, Deduct</i>	-97.63	
			<i>For >500 To 1,000, Deduct</i>	-152.35	
			<i>For >1,000, Deduct</i>	-169.90	
21 13 16 00-0063	EA		36" Length, 1-1/4" ISO Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	763.46	26.74
			<i>For >25 To 50, Deduct</i>	-4.39	
			<i>For >50 To 100, Deduct</i>	-42.56	
			<i>For >100 To 500, Deduct</i>	-97.63	
			<i>For >500 To 1,000, Deduct</i>	-152.35	
			<i>For >1,000, Deduct</i>	-169.90	
21 13 19			Preaction Sprinkler Systems <small>(21 13)</small>		
21 13 19 00-0001			Complete Preaction Sprinkler Systems <small>(21 13 19)</small>		
			Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. See CSI section 23 21 13 23-1367 for individual grooved pipe, 23 21 13 23-1440 for individual grooved pipe fittings.		
21 13 19 00-0002			Ordinary Hazard, Preaction Sprinkler Systems <small>(21 13 19 00-0001)</small>		
21 13 19 00-0003	EA		Exposed Piping, Ordinary Hazard, Preaction Sprinkler System, Per Head.....	556.83	
			Note: Includes branch pipe and fittings, supports and sprinkler heads.		
			<i>For Up To 5, Add</i>	260.18	
			<i>For >5 To 10, Add</i>	167.54	
			<i>For >10 To 20, Add</i>	111.85	
			<i>For >20 To 40, Add</i>	46.57	
			<i>For >100 To 150, Deduct</i>	-55.68	
			<i>For >150, Deduct</i>	-111.37	



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 19 00-0004 Extra Hazard, Preaction Sprinkler Systems <small>(21 13 19 00-0001)</small>		
21 13 19 00-0005 EA Exposed Piping, Extra Hazard, Preaction Sprinkler System, Per Head.....	518.49	
<i>Note: Includes branch pipe and fittings, supports and sprinkler heads.</i>		
<i>For Up To 5, Add</i>	<i>242.29</i>	
<i>For >5 To 10, Add</i>	<i>156.04</i>	
<i>For >10 To 20, Add</i>	<i>104.19</i>	
<i>For >20 To 40, Add</i>	<i>43.37</i>	
<i>For >100 To 150, Deduct</i>	<i>-51.85</i>	
<i>For >150, Deduct</i>	<i>-103.70</i>	
21 13 26 Deluge Fire-Suppression Sprinkler Systems <small>(21 13)</small>		
21 13 26 00-0001 Deluge Fire-Suppression Sprinkler Systems Equipment <small>(21 13 26)</small>		
<i>See CSI section 23 21 13 23-0000 for pipe and fittings.</i>		
21 13 26 00-0002 Deluge Valves With Required Trim And Release Equipment <small>(21 13 26 00-0001)</small>		
21 13 26 00-0003 EA 3" Deluge Valve With Trim And Release Equipment	6,433.76	750.27
21 13 26 00-0004 EA 4" Deluge Valve With Trim And Release Equipment	7,367.50	843.99
21 13 26 00-0005 EA 6" Deluge Valve With Trim And Release Equipment	9,244.11	1,227.64
21 13 39 Foam-Water Systems <small>(21 13)</small>		
21 13 39 00-0001 Foam Control Valves And Monitors <small>(21 13 39)</small>		
21 13 39 00-0002 Control Valves <small>(21 13 39 00-0001)</small>		
21 13 39 00-0003 EA 3" Foam Control Valve.....	3,290.39	750.27
21 13 39 00-0004 Supply Valves <small>(21 13 39 00-0001)</small>		
21 13 39 00-0005 EA 2-1/2" Foam Supply Valve	3,080.17	843.99
21 13 39 00-0006 Proportioners <small>(21 13 39 00-0001)</small>		
21 13 39 00-0007 EA 8" Foam Proportioner.....	2,900.32	1,227.64
21 13 39 00-0008 Monitors <small>(21 13 39 00-0001)</small>		
21 13 39 00-0009 EA Oscillating Foam Monitor.....	3,003.57	168.80
21 13 41 Fire-Suppression Sprinkler Piping <small>(21 13)</small>		
<i>See CSI section 23 21 13 23-0001 for threaded black steel piping, 23 21 13 23-0374 for welded black steel piping, 23 21 13 23-0769 for flanged black steel pipe fittings, 23 21 13 23-1367 for grooved pipe, 23 21 13 23-1440 for grooved pipe fittings, 33 14 13 13-0001 for ductile iron pipe and fittings.</i>		
21 13 41 00-0001 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe <small>(21 13 41)</small>		
<i>Note: SDR 13.5</i>		
21 13 41 00-0002 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe <small>(21 13 41 00-0001)</small>		
21 13 41 00-0003 LF 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	6.71	2.16
21 13 41 00-0004 LF 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	7.83	2.29
21 13 41 00-0005 LF 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	9.52	2.57
21 13 41 00-0006 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	11.40	2.84
21 13 41 00-0007 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	14.26	3.11
21 13 41 00-0008 LF 2-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	18.93	3.51
21 13 41 00-0009 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	25.80	4.19
21 13 41 00-0010 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0011 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	34.12	12.96
21 13 41 00-0012 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	44.36	16.20
21 13 41 00-0013 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	55.48	20.26
21 13 41 00-0014 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	62.83	22.42
21 13 41 00-0015 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	70.95	25.12
21 13 41 00-0016 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	87.22	28.50
21 13 41 00-0017 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	105.91	33.76
21 13 41 00-0018 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0019 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	34.72	12.96
21 13 41 00-0020 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	43.39	16.20
21 13 41 00-0021 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	54.75	20.26
21 13 41 00-0022 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	61.66	22.42
21 13 41 00-0023 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	69.49	25.12
21 13 41 00-0024 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	83.56	28.50
21 13 41 00-0025 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	101.89	33.76

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0026 Chlorinated Polyvinyl Chloride (CPVC) Tees, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0027 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	50.92	19.44
21 13 41 00-0028 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	65.61	24.44
21 13 41 00-0029 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	83.04	30.52
21 13 41 00-0030 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	94.39	33.76
21 13 41 00-0031 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	108.99	37.54
21 13 41 00-0032 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	131.33	42.81
21 13 41 00-0033 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	155.17	50.50
21 13 41 00-0034 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0035 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	60.75	22.82
21 13 41 00-0036 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	78.17	28.50
21 13 41 00-0037 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	87.24	31.47
21 13 41 00-0038 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	101.57	35.11
21 13 41 00-0039 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	118.75	39.97
21 13 41 00-0040 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	139.91	47.13
21 13 41 00-0041 Chlorinated Polyvinyl Chloride (CPVC) Crosses, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0042 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	68.48	25.93
21 13 41 00-0043 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	85.86	32.54
21 13 41 00-0044 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	107.89	40.64
21 13 41 00-0045 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	121.00	44.97
21 13 41 00-0046 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	139.58	50.10
21 13 41 00-0047 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	173.70	56.98
21 13 41 00-0048 Chlorinated Polyvinyl Chloride (CPVC) Couplings, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0049 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	23.24	8.64
21 13 41 00-0050 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	31.16	11.61
21 13 41 00-0051 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	41.19	15.25
21 13 41 00-0052 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	46.57	16.88
21 13 41 00-0053 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	53.02	18.77
21 13 41 00-0054 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	62.68	21.33
21 13 41 00-0055 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	75.22	25.26
21 13 41 00-0056 Chlorinated Polyvinyl Chloride (CPVC) Caps, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0057 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	11.79	4.32
21 13 41 00-0058 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	18.82	7.02
21 13 41 00-0059 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	21.30	7.57
21 13 41 00-0060 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	24.18	8.37
21 13 41 00-0061 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	28.20	9.45
21 13 41 00-0062 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	33.51	10.67
21 13 41 00-0063 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	42.58	12.69
21 13 41 00-0064 Chlorinated Polyvinyl Chloride (CPVC) Reducer Bushing, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0065 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	33.28	12.83
21 13 41 00-0066 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	43.94	16.74
21 13 41 00-0067 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	48.58	18.50
21 13 41 00-0068 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	55.02	20.66
21 13 41 00-0069 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	64.54	23.50
21 13 41 00-0070 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	78.08	27.82
21 13 41 00-0071 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0072 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping	28.03	9.45
21 13 41 00-0073 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping	36.53	12.83
21 13 41 00-0074 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0075 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	28.03	9.45
21 13 41 00-0076 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	36.53	12.83



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 13 41 00-0077		Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0078	EA	3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	33.14	11.61
21 13 41 00-0079	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	42.15	14.58
21 13 41 00-0080	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 3/4" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	43.37	14.58
21 13 41 00-0081		Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0082	EA	3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	54.64	19.44
21 13 41 00-0083	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	67.56	24.44
21 13 41 00-0084	EA	1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	87.01	30.52
21 13 41 00-0085	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	98.59	33.76
21 13 41 00-0086	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	114.10	37.54

21 20 Fire-Extinguishing Systems (21)

21 21 Carbon-Dioxide Fire-Extinguishing Systems (21 20)

21 21 16 Carbon-Dioxide Fire-Extinguishing Equipment (21 21)

21 21 16 00-0001		Carbon Dioxide Cylinders <small>(21 21 16)</small>		
21 21 16 00-0002	EA	Carbon Dioxide Simplex Cylinder, 75 LB	2,182.01	285.29
21 21 16 00-0003	EA	Carbon Dioxide Duplex Cylinder, 75 LB (Each)	4,364.01	570.57
21 21 16 00-0004	EA	Carbon Dioxide Cylinder, Heat/Ion Detector, With Bracket	349.30	145.24
21 21 16 00-0005	EA	Carbon Dioxide Cylinder, Dispersion Nozzle	153.52	52.13
21 21 16 00-0006	LF	Carbon Dioxide Cylinder, 1/2" Rubber Tubing	42.30	21.14

21 22 Clean-Agent Fire-Extinguishing Systems (21 20)

21 22 16 Clean-Agent Fire-Extinguishing Equipment (21 22)

21 22 16 00-0001		Ansul Fire Control Systems <small>(21 22 16)</small>		
21 22 16 00-0002		Sapphire® Fire Suppression Systems <small>(21 22 16 00-0001)</small>		
		Note: ANSUL® SAPPHIRE® fire suppression systems use 3M™ Novec™ 1230 fire protection fluid for total flooding applications.		
21 22 16 00-0003		Cylinders, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0004	EA	20 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570635)	1,532.96	97.26
		Note: 10 to 21 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0005	EA	40 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636)	1,741.63	97.26
		Note: 20 to 46 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0006	EA	80 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570637)	1,769.06	97.26
		Note: 41 to 80 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0007	EA	140 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638)	2,507.30	129.67
		Note: 58 to 138 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0008	EA	280 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570639)	2,645.24	129.67
		Note: 116 to 280 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0009	EA	390 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570640)	2,838.24	162.10
		Note: 161 to 388 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0010	EA	450 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641)	3,006.43	162.10
		Note: 194 to 459 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0011	EA	850 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570586)	4,512.06	194.51
		Note: 375 to 851 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0012	LB	Sapphire Agent, Fire Protection Fluid, Factory Filled (Novec 1230)	37.27	194.51
		Note: Add to empty tank cost.		
21 22 16 00-0013		Nozzles, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0014	EA	1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570515)	149.89	16.21
21 22 16 00-0015	EA	3/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570516)	153.44	16.21
21 22 16 00-0016	EA	1" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570517)	162.35	16.21
21 22 16 00-0017	EA	1-1/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570518)	168.58	16.21
21 22 16 00-0018	EA	1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519)	177.48	16.21
21 22 16 00-0019	EA	2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570520)	204.17	16.21
21 22 16 00-0020	EA	1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570602)	149.89	16.21
21 22 16 00-0021	EA	3/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570603)	153.44	16.21
21 22 16 00-0022	EA	1" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570604)	162.35	16.21
21 22 16 00-0023	EA	1-1/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570605)	168.58	16.21
21 22 16 00-0024	EA	1-1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570606)	177.48	16.21
21 22 16 00-0025	EA	2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570607)	204.17	16.21

21	Fire Suppression
21 20	Fire-Extinguishing Systems
21 22	Clean-Agent Fire-Extinguishing Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0026	Actuation Attachments, Sapphire® Fire Suppression System <small>(21 22 16 00-0002)</small>	
21 22 16 00-0027 EA 7/16-20 To 1/4" NPT, Male Actuation Elbow, Sapphire® Fire Suppression System (Ansul 31810).....	15.22	4.86
21 22 16 00-0028 EA 7/16-20 To 1/4" NPT, Male Actuation Tee, Sapphire® Fire Suppression System (Ansul 31811)	16.75	4.86
21 22 16 00-0029 EA 1/4" NPT To 7/16-20, Male Actuation Connector, Sapphire® Fire Suppression System (Ansul 32338)	25.20	11.35
21 22 16 00-0030 EA 16" Actuation Hose, Sapphire® Fire Suppression System (Ansul 73597)	53.22	14.53
21 22 16 00-0031 EA 32" Actuation Hose, Sapphire® Fire Suppression System (Ansul 415142)	75.31	14.53
21 22 16 00-0032 EA 42" Actuation Hose, Sapphire® Fire Suppression System (Ansul 430815)	89.40	14.53
21 22 16 00-0033 EA 24", Stainless Steel, Swivel, Braided Actuation Hose, Sapphire® Fire Suppression System (Ansul 32336)	48.13	14.53
21 22 16 00-0034 EA Pneumatic Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537)	349.23	129.67
21 22 16 00-0035 EA Local Manual Actuator, Sapphire® Fire Suppression System (Ansul 570549)	322.65	97.26
21 22 16 00-0036 EA Electric Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537)	680.29	129.67
21 22 16 00-0037	Nameplates, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0038 EA Warning Plate For Use Outside Room, Sapphire® Fire Suppression Systems (Ansul 570580).....	53.78	16.21
21 22 16 00-0039 EA Warning Plate for Use Inside Room, Sapphire® Fire Suppression Systems (Ansul 570581).....	57.79	16.21
21 22 16 00-0040	Cylinder Bracketing, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0041 EA Tank Bracket Assembly For 20 LB, 40 LB, 50 LB, 80 LB And 90 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)	164.90	48.63
21 22 16 00-0042 EA Tank Bracket Assembly For 140 LB, 280 LB, 390 LB And 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)	172.90	48.63
21 22 16 00-0043 EA Tank Bracket Assembly For 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570336).....	183.14	48.63
21 22 16 00-0044	Check Valves, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0045 EA 1" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570566).....	396.21	51.61
21 22 16 00-0046 EA 2" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570568)	562.09	88.57
21 22 16 00-0047	Discharge Hose, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0048 EA 1" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570539).....	135.14	32.42
21 22 16 00-0049 EA 2" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570538).....	462.65	32.42
21 22 16 00-0050 EA 3" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 69990).....	392.33	32.42
21 22 16 00-0051 EA 3" Discharge Hose And Check Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 69841)	1,708.15	129.67
21 22 16 00-0052	Swivel Adaptors, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0053 EA 1" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570557).....	50.76	22.70
21 22 16 00-0054 EA 2" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570558).....	84.03	22.70
21 22 16 00-0055 EA 3" Flare To 3" Grooved, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69471).....	219.31	16.21
21 22 16 00-0056 EA 3" Flare To 3" NPT, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69470).....	285.92	16.21
21 22 16 00-0057	Pressure Switches, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0058 EA Cylinder Low Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 570585)	188.85	64.84
21 22 16 00-0059 EA Pressure Trip, Sapphire® Fire Suppression Systems (Ansul 5156)	171.05	27.23
21 22 16 00-0060 EA Weather Proof, DPST Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 46250).....	541.08	113.46
21 22 16 00-0061	Level Indicators, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0062 EA Liquid Level Indicator For 280 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570277).....	577.55	22.70
21 22 16 00-0063 EA Liquid Level Indicator For 390 LB And 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570278)	604.26	22.70
21 22 16 00-0064 EA Liquid Level Indicator For 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570589).....	651.29	32.42
21 22 16 00-0065	Inspection/Maintenance Devices, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0066 EA Master Tank Pilot Port Male Adaptor, Sapphire® Fire Suppression Systems (Ansul 570342)	53.14	19.45
21 22 16 00-0067 EA Cylinder Valve Pressure Gauge, Sapphire® Fire Suppression Systems (Ansul 570642).....	65.75	22.70
21 22 16 00-0068 EA Recharge Top Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570579)	230.28	97.26
21 22 16 00-0069 EA 1" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570576).....	260.81	97.26
21 22 16 00-0070 EA 2" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570592).....	286.17	97.26
21 22 16 00-0071 EA 3" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 69891).....	368.05	97.26
21 22 16 00-0072	Replacement Parts, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>	
21 22 16 00-0073 EA O-Ring Kit, Sapphire® Fire Suppression Systems (Ansul 570559)	64.67	25.94
21 22 16 00-0074 EA Recoil Cap, Sapphire® Fire Suppression Systems (Ansul 570553)	93.38	16.21
21 22 16 00-0075 EA Burst Disc Assembly, Sapphire® Fire Suppression Systems (Ansul 570053)	131.15	32.42
21 22 16 00-0076 EA Bonnet Assembly, Sapphire® Fire Suppression Systems (Ansul 570543)	367.93	129.67
21 22 16 00-0077 EA Piston Assembly, Sapphire® Fire Suppression Systems (Ansul 570551)	523.66	129.67
21 22 16 00-0078 EA 1" Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570535)	1,615.59	129.67
21 22 16 00-0079	Inergen® Fire Suppression System <small>(21 22 16 00-0001)</small>	



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Clean-Agent Fire-Extinguishing Systems	21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0080 Actuation Attachments, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0081 EA Flexible Discharge Bend For CV90 And CV98 (200 Bar), Inergen® Fire Suppression System (Ansul 427082)	182.63	32.12
21 22 16 00-0082 EA Metron Protractor Replacement Cartridges, Inergen® Fire Suppression System (Ansul 423958)	211.06	34.52
21 22 16 00-0083 EA Electric Actuator, Lever, CV98, Inergen® Fire Suppression System (Ansul 423309).....	377.75	62.48
21 22 16 00-0084 EA Electric Actuator For CV90 Valve, Inergen® Fire Suppression System (Ansul 426876)	767.96	142.30
21 22 16 00-0085 Check Valves, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0086 EA 2" Bronze Check Valve, Weld Neck Flange, Inergen® Fire Suppression System (Ansul 840794).....	1,737.99	187.81
21 22 16 00-0087 Components, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0088 EA 1/2" Manifold Relief Valve, Inergen® Fire Suppression System (Ansul 418378).....	54.41	9.85
21 22 16 00-0089 EA Pressure Operated Siren, Inergen® Fire Suppression System (Ansul 419700)	1,884.76	105.53
21 22 16 00-0090 EA 30 Second Pneumatic Time Delay, Inergen® Fire Suppression System (Ansul 54169).....	1,976.58	330.18
21 22 16 00-0091 EA 60 Second Time Delay, Inergen® Fire Suppression System (Ansul 426170).....	1,894.63	336.37
21 22 16 00-0092 Cylinders, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
Note: Includes CV98 valve. Factory filled with Inergen agent.		
21 22 16 00-0093 EA 200 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426147)	1,661.60	302.18
21 22 16 00-0094 EA 250 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426148)	1,884.76	342.36
21 22 16 00-0095 EA 350 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426620)	2,673.89	443.66
21 22 16 00-0096 EA 435 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426150)	2,699.28	542.15
21 22 16 00-0097 EA 250 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426257)	1,963.18	381.74
21 22 16 00-0098 EA 350 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426621)	2,752.90	483.18
21 22 16 00-0099 EA 435 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426259)	2,883.24	582.58
21 22 16 00-0100 Inspection/Maintenance Devices, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0101 EA CV90 Fill Adaptor To CV98 Valve, Conversion Adapter, Inergen® Fire Suppression System (Ansul 423657)	62.56	10.99
21 22 16 00-0102 EA CV98 To CV90 Conversion Adapter, Cylinder Test Gauge, Inergen® Fire Suppression System (Ansul 426181)	62.56	10.99
21 22 16 00-0103 EA CV90 Pressure Test Assembly Venting Kit, Inergen® Fire Suppression System (Ansul 426954).....	74.93	12.21
21 22 16 00-0104 EA Pressure Test Gauge, Inergen® Fire Suppression System (Ansul 423923).....	1,192.25	209.69
21 22 16 00-0105 Multiple Cylinder Bracketing, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0106 EA 13" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418502).....	19.92	3.21
Note: For single row 435 cubic foot cylinders.		
21 22 16 00-0107 EA 27" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418503).....	28.28	4.59
Note: For double row 435 cubic foot cylinders.		
21 22 16 00-0108 Nameplates, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0109 EA Warning Plate, Nameplate, Inside Room With Alarm, Inergen® Fire Suppression System (Ansul 416265).....	21.97	3.59
21 22 16 00-0110 EA Warning Plate, Nameplate, Outside Room Without Alarm, Inergen® Fire Suppression System (Ansul 416266).....	20.44	3.59
21 22 16 00-0111 Nozzle Deflector Shields, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0112 EA 1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417708)	88.80	15.47
21 22 16 00-0113 EA 3/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417711)	93.24	16.21
21 22 16 00-0114 EA 1" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417714)	108.19	18.72
21 22 16 00-0115 EA 1-1/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417717)	120.77	21.14
21 22 16 00-0116 EA 1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720)	138.52	24.30
21 22 16 00-0117 Nozzles, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0118 EA 1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417908).....	136.17	23.95
21 22 16 00-0119 EA 3/8" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417723).....	141.18	24.66
21 22 16 00-0120 EA 1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417362).....	130.23	22.83
21 22 16 00-0121 EA 3/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417363).....	134.06	24.66
21 22 16 00-0122 EA 1" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417364)	154.81	27.12
21 22 16 00-0123 EA 1-1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417365).....	165.45	28.88
21 22 16 00-0124 EA 1-1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417366).....	178.19	30.99
21 22 16 00-0125 EA 2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426155)	306.95	54.24
21 22 16 00-0126 EA 2-1/2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426156)	405.81	71.15
21 22 16 00-0127 EA 3" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426137)	442.54	78.20
21 22 16 00-0128 EA 1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426138)	158.65	28.16
21 22 16 00-0129 EA 3/8" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426139)	187.05	32.97
21 22 16 00-0130 EA 1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426140)	153.91	27.12
21 22 16 00-0131 EA 3/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426141)	164.29	28.74
21 22 16 00-0132 EA 1" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426142)	165.75	28.88
21 22 16 00-0133 EA 1-1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426143)	200.10	35.08
21 22 16 00-0134 EA 1-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426157)	215.78	38.03
21 22 16 00-0135 EA 2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426144)	331.22	58.37
21 22 16 00-0136 EA 2-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426145)	386.86	68.33
21 22 16 00-0137 EA 3" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426146)	423.86	74.67

21	Fire Suppression
21 20	Fire-Extinguishing Systems
21 22	Clean-Agent Fire-Extinguishing Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0138			Pressure Reducers, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0139	EA		1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416677)	178.19	30.99
21 22 16 00-0140	EA		3/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416678)	218.76	38.60
21 22 16 00-0141	EA		1" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416679)	235.31	41.57
21 22 16 00-0142	EA		1-1/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416680)	331.22	58.37
21 22 16 00-0143	EA		1-1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416681)	362.00	63.96
21 22 16 00-0144	EA		2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416682)	425.34	74.67
21 22 16 00-0145	EA		2-1/2" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417057)	494.60	87.55
21 22 16 00-0146	EA		3" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417058)	584.87	103.56
21 22 16 00-0147	EA		2-1/2" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426823)	743.85	204.29
21 22 16 00-0148	EA		3" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426824)	950.29	239.52
21 22 16 00-0149	EA		4" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426825)	1,245.38	401.54
21 22 16 00-0150	EA		2-1/2" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426847)	726.93	204.29
21 22 16 00-0151	EA		3" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426848)	805.10	142.69
21 22 16 00-0152	EA		4" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426849)	1,245.38	401.54
21 22 16 00-0153	EA		2-1/2" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426853)	741.17	204.29
21 22 16 00-0154	EA		3" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426854)	836.77	148.28
21 22 16 00-0155	EA		4" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426855)	1,224.02	401.54
21 22 16 00-0156			Pressure Switches, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0157	EA		3PST, Pressure Switch, Inergen® Fire Suppression System (Ansul 842344)	841.53	155.69
21 22 16 00-0158			Releasing Device Equipment, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0159	EA		12 Or 24 Volt DC, Assembly, Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 17728)	1,373.98	241.53
21 22 16 00-0160	EA		24 Volt DC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 31492)	1,944.62	321.84
21 22 16 00-0161	EA		120 Volt AC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 32525)	2,054.59	327.39
21 22 16 00-0162	EA		Cocking Lever For Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 26310)	96.79	16.65
21 22 16 00-0163	EA		LT-30-R Nitrogen Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 5373)	116.79	22.05
21 22 16 00-0164	EA		Remote Actuator Booster With N2 Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 28939)	1,098.97	172.31
21 22 16 00-0165			Replacement Orifice Plates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0166	EA		1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418095)	118.90	16.36
21 22 16 00-0167	EA		3/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418096)	124.67	17.23
21 22 16 00-0168	EA		1" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418097)	130.61	17.52
21 22 16 00-0169	EA		1-1/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418098)	139.79	18.11
21 22 16 00-0170	EA		1-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418099)	146.00	19.86
21 22 16 00-0171	EA		2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418100)	147.46	21.47
21 22 16 00-0172	EA		2-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426984)	328.83	57.53
21 22 16 00-0173	EA		3" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426985)	331.81	58.12
21 22 16 00-0174	EA		4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426986)	425.34	74.47
21 22 16 00-0175			Single Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0176	EA		Strap For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427704)	154.81	27.12
21 22 16 00-0177	EA		Channel For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427705)	224.98	61.99
			Note: Includes saddle, padding and fasteners.		
21 22 16 00-0178			Single Mating Flanges, Flanged Manifold Orifices, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0179	EA		2-1/2" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426856)	387.72	40.08
			Note: Includes gasket and fasteners.		
21 22 16 00-0180	EA		3" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426857)	339.51	59.85
			Note: Includes gasket and fasteners.		
21 22 16 00-0181	EA		4" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426858)	752.40	401.54
			Note: Includes gasket and fasteners.		
21 22 16 00-0182	EA		2-1/2" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426859)	212.83	37.44
			Note: Includes gasket and fasteners.		
21 22 16 00-0183	EA		3" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426860)	249.81	43.68
			Note: Includes gasket and fasteners.		
21 22 16 00-0184	EA		4" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426861)	747.91	401.54
			Note: Includes gasket and fasteners.		
21 22 16 00-0185	EA		2-1/2" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426862)	221.69	39.21
			Note: Includes gasket and fasteners.		
21 22 16 00-0186	EA		3" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426863)	259.60	45.69
			Note: Includes gasket and fasteners.		



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Clean-Agent Fire-Extinguishing Systems	21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0187 EA 4" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426864).....	770.15	401.54
Note: Includes gasket and fasteners.		
21 22 16 00-0188 EA 2-1/2" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426828).....	41.01	2.98
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0189 EA 3" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426829).....	41.60	3.27
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0190 EA 4" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426830).....	45.00	3.87
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0191 Upright And Feet, Cylinder Bracketing, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0192 EA Center Upright Foot, Inergen® Fire Suppression System (Ansul 418508).....	27.14	4.76
21 22 16 00-0193 EA Double Row, Back-To-Back Rows, Weigh Rail Support, Inergen® Fire Suppression System (Ansul 423027).....	221.73	36.22
21 22 16 00-0194 EA 85" High, Cylinder Bracketing For 425 CF And LC100 Cylinders, Inergen® Fire Suppression System (Ansul 426592).....	170.14	36.22
Note: Includes upright, left, right and center.		
21 22 16 00-0195 Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0001)</small>		
21 22 16 00-0196 Accessory Switches, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0197 EA Abort, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76495).....	175.22	31.25
21 22 16 00-0198 EA Abort, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76494).....	199.21	35.63
21 22 16 00-0199 EA Main/Reserve, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76497).....	253.35	45.27
21 22 16 00-0200 EA Main/Reserve, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76496).....	272.89	48.77
21 22 16 00-0201 EA Maintenance, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76499).....	341.85	61.33
21 22 16 00-0202 EA Maintenance, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76498).....	363.76	65.13
21 22 16 00-0203 EA Explosion Proof, Abort Switch, Autopulse® Fire Detection And Control Equipment (Ansul 65956).....	697.63	125.58
21 22 16 00-0204 EA Single Gang, Surface Mount Back Box For Accessory Switches, Autopulse® Fire Detection And Control Equipment (Ansul 76490).....	55.78	9.35
21 22 16 00-0205 Alarm Devices, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0206 EA Selectable Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429698).....	151.84	27.16
21 22 16 00-0207 EA Sync Module, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429699).....	222.58	39.72
21 22 16 00-0208 EA Back Box Extender Adapter, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429702).....	20.30	3.62
21 22 16 00-0209 Annunciators, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0210 EA 80 Character LCD, Annunciator, LCD-80, Autopulse® Fire Detection And Control Equipment (Ansul 417492).....	1,750.61	315.12
21 22 16 00-0211 EA 16 Zone Alarm/Trouble, Annunciator Control Module, ACM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417496).....	1,467.45	264.01
21 22 16 00-0212 EA 16 Zone Alarm/Trouble, Annunciator Expander Module, AEM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417497).....	1,139.19	205.02
21 22 16 00-0213 EA 32 Zone, Alarm Annunciator Expander Module, AEM-32A, Autopulse® Fire Detection And Control Equipment (Ansul 417500).....	992.11	178.44
21 22 16 00-0214 EA Annunciator Lamp Driver Control Module, LDM-32, Autopulse® Fire Detection And Control Equipment (Ansul 417501).....	992.11	178.44
21 22 16 00-0215 EA Annunciator Lamp Driver Expander Module, LDM-E32, Autopulse® Fire Detection And Control Equipment (Ansul 417502).....	794.70	142.81
21 22 16 00-0216 EA Annunciator Lamp Driver Relay Module, LDM-R32, Autopulse® Fire Detection And Control Equipment (Ansul 417650).....	1,467.45	264.01
21 22 16 00-0217 EA 24", Annunciator Lamp Driver Cable, LDM-CBL24, Autopulse® Fire Detection And Control Equipment (Ansul 417651).....	298.34	53.45
21 22 16 00-0218 EA 48", Annunciator Lamp Driver Cable, LDM-CBL48, Autopulse® Fire Detection And Control Equipment (Ansul 417652).....	374.11	67.17
21 22 16 00-0219 EA 8 Relay, Annunciator Control Module, ACM-8R, Autopulse® Fire Detection And Control Equipment (Ansul 417653).....	750.29	134.92
21 22 16 00-0220 EA Key Switch, AKS-1 Annunciator Accessory, Autopulse® Fire Detection And Control Equipment (Ansul 417660).....	126.68	22.63
21 22 16 00-0221 EA Low Profile Annunciator Chassis, CHS-4L, Autopulse® Fire Detection And Control Equipment (Ansul 418576).....	172.54	31.25
Note: For up to 4 LDM modules.		
21 22 16 00-0222 EA Flush, Single Annunciator Back Box, ABF-1, Autopulse® Fire Detection And Control Equipment (Ansul 417657).....	298.35	53.45
21 22 16 00-0223 Autopulse IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0224 EA CHS-4 Chassis, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419586).....	232.91	43.52
21 22 16 00-0225 EA REL 47K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419639).....	14.56	2.98
21 22 16 00-0226 EA REL 4.7K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419640).....	92.75	3.62
21 22 16 00-0227 EA REL 2.2K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 407765).....	15.95	3.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0228	Autopulse IQ-396X Modules, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>	
21 22 16 00-0229 EA	Indicating Circuit Expander, IQ-396X Modules, ICE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419564)	518.19 97.54
21 22 16 00-0230 EA	Control Relay Expander, IQ-396X Modules, CRE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419566)	310.46 58.12
21 22 16 00-0231	Batteries And Power Supplies, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>	
21 22 16 00-0232 EA	7 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417692)	225.93 37.38
21 22 16 00-0233 EA	12 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417693)	473.00 79.14
21 22 16 00-0234 EA	18 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417694)	533.97 89.65
21 22 16 00-0235 EA	25 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417695)	693.64 109.23
21 22 16 00-0236 EA	55 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417997)	1,125.47 189.54
21 22 16 00-0237 EA	BB-17, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 418578)	169.31 30.08
21 22 16 00-0238 EA	BB-25, Grey Cabinet, Autopulse® Fire Detection And Control Equipment (Ansul 428079)	302.79 54.32
	Note: Holds six XP5 modules or 25AH battery pack.	
21 22 16 00-0239 EA	BB-55, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 419410)	615.93 110.69
	Note: For mounting in BB-55 battery box.	
21 22 16 00-0240 EA	Battery Charger, CHG-120, Autopulse® Fire Detection And Control Equipment (Ansul 426207)	1,790.94 322.42
	Note: For mounting in BB-55 battery box.	
21 22 16 00-0241 EA	120 Volt AC, FCPS-24F, Red Remote Power Supply, Autopulse® Fire Detection And Control Equipment (Ansul 418563)	1,309.68 235.68
21 22 16 00-0242	Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>	
21 22 16 00-0243 EA	Monitor Module, Intelligent Addressable Devices, FMM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428097)	138.07 24.97
21 22 16 00-0244 EA	Mini Monitor Module, Intelligent Addressable Devices, FMM-101, Autopulse® Fire Detection And Control Equipment (Ansul 428098)	129.77 24.83
21 22 16 00-0245 EA	Isolator Module, Intelligent Addressable Devices, ISO-X, Autopulse® Fire Detection And Control Equipment (Ansul 417480)	176.95 35.63
21 22 16 00-0246 EA	2-Wire Detector Monitor Module, Intelligent Addressable Devices, FZM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428100)	259.28 46.44
21 22 16 00-0247 EA	NAC Control Module, Intelligent Addressable Devices, FCM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428101)	202.43 37.67
21 22 16 00-0248 EA	Control Relay Module, Intelligent Addressable Devices, FRM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428102)	190.59 36.22
21 22 16 00-0249 EA	Flangeless, Analog Addressable Detector Base, Intelligent Addressable Devices, B501, Autopulse® Fire Detection And Control Equipment (Ansul 417487)	30.36 5.78
21 22 16 00-0250 EA	Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125)	111.58 20.44
21 22 16 00-0251 EA	Harsh Detector, Analog Addressable Detector Base, Intelligent Addressable Devices, B710HD, Autopulse® Fire Detection And Control Equipment (Ansul 427066)	111.29 19.86
21 22 16 00-0252 EA	HPX-751 Detector Filter Cover, Intelligent Addressable Devices, FR-FTX, Autopulse® Fire Detection And Control Equipment (Ansul 427067)	44.52 16.36
21 22 16 00-0253 EA	Low Profile Trim Ring, Intelligent Addressable Devices, F110, Autopulse® Fire Detection And Control Equipment (Ansul 428138)	10.22 1.81
	Note: Converts BX501 to low profile base.	
21 22 16 00-0254 EA	Relay Base, Intelligent Addressable Devices, B224RB, Autopulse® Fire Detection And Control Equipment (Ansul 423945)	107.13 19.13
21 22 16 00-0255 EA	EOL Power Supervision Relay, Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (Ansul 417699)	62.80 11.28
21 22 16 00-0256 EA	XP5 Modules Cabinet, Intelligent Addressable Devices, BB-XP, Autopulse® Fire Detection And Control Equipment (Ansul 428078)	169.59 29.79
21 22 16 00-0257 EA	BB-25 Chassis, Intelligent Addressable Devices, CHS-6, Autopulse® Fire Detection And Control Equipment (Ansul 428080)	88.79 15.77
21 22 16 00-0258	Manual Pull Stations, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>	
21 22 16 00-0259 EA	Break Rod Package For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 428661)	25.40 4.24
21 22 16 00-0260 EA	Key Pull Station For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 418336)	15.60 2.33
21 22 16 00-0261	Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>	
21 22 16 00-0262 EA	Transmitter Module, 4XTM, Autopulse® Fire Detection And Control Equipment (Ansul 417470)	222.58 39.72
	Note: Includes municipal box and remote station connection.	
21 22 16 00-0263 EA	Relay/Transmitter Module With 8 Form C Relay Contacts, RTM-8, Autopulse® Fire Detection And Control Equipment (Ansul 417471)	666.61 114.19
21 22 16 00-0264 EA	Universal Digital Alarm COM/XMTR Module, UDACT, Autopulse® Fire Detection And Control Equipment (Ansul 419411)	1,278.92 230.13
21 22 16 00-0265 EA	Ferrite Core For Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (Ansul 419635)	34.02 5.96
21 22 16 00-0266	Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0001)</small>	



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Clean-Agent Fire-Extinguishing Systems	21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0267 Batteries And Power Supplies, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0268 EA Transformer Only, VSP-TRAN-120, Vesda® Aspirating Smoke Detection System (Ansul 430482).....	171.72	28.04
21 22 16 00-0269 EA Battery Cabinet, VBC-001, Vesda® Aspirating Smoke Detection System (Ansul 430379).....	297.40	42.27
21 22 16 00-0270 EA 120 Volt AC, Single Zone Power Supply With Housing, VPS-100US-120, Vesda® Aspirating Smoke Detection System (Ansul 430374)	958.93	163.54
21 22 16 00-0271 EA 220 Volt AC, Single Zone Power Supply With Housing, VPS-100US-220, Vesda® Aspirating Smoke Detection System (Ansul 430375)	958.93	163.54
21 22 16 00-0272 EA 120 Volt AC, Multi Zone Power Supply, VPS-300US-120, Vesda® Aspirating Smoke Detection System (Ansul 430376)	1,440.58	245.32
Note: Includes housing and battery cab.		
21 22 16 00-0273 EA 220 Volt AC, Multi Zone Power Supply, VPS-300US-220, Vesda® Aspirating Smoke Detection System (Ansul 430377)	1,440.58	245.32
Note: Includes housing and battery cab.		
21 22 16 00-0274 EA 48 Volt DC, Multi Zone Power Supply With Housing, VPS-400US-48, Vesda® Aspirating Smoke Detection System (Ansul 430378)	2,080.90	312.49
21 22 16 00-0275 Blank Plates, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0276 EA Blank Plate Without VESDA Logo, VSP-300, Vesda® Aspirating Smoke Detection System (Ansul 430459)	30.91	5.26
21 22 16 00-0277 EA Blank Plate With VESDA Logo, VSP-000, Vesda® Aspirating Smoke Detection System (Ansul 430458)	45.25	5.26
21 22 16 00-0278 EA Blank Plate, EMC Painted Without Logo, VSP-200, Vesda® Aspirating Smoke Detection System (Ansul 430484)	66.86	9.93
21 22 16 00-0279 EA Single Blank Plate, VRE-001, Vesda® Aspirating Smoke Detection System (Ansul 430446)	101.88	11.10
21 22 16 00-0280 EA Double Blank Plate, VRE-002, Vesda® Aspirating Smoke Detection System (Ansul 430447).....	132.36	22.19
21 22 16 00-0281 EA Blank Plate Without FOK LED's And Logo, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430480)	238.47	28.04
21 22 16 00-0282 Detectors, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0283 EA LaserPLUS, Detector Only, Enclosure, VLP-000, Vesda® Aspirating Smoke Detection System (Ansul 430350).....	7,312.75	1,372.62
Note: Includes 3 blank plates.		
21 22 16 00-0284 EA LaserPLUS Detector, VLP-012, Vesda® Aspirating Smoke Detection System (Ansul 430354)	9,300.74	1,693.87
Note: Includes centrally mounted LCD programmer module and standard display.		
21 22 16 00-0285 EA LaserPLUS Detector, VLP-010, Vesda® Aspirating Smoke Detection System (Ansul 430356)	8,418.30	1,547.85
Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0286 EA 7-Relay Version, LaserSCANNER Detector Only, VLS-200, Vesda® Aspirating Smoke Detection System (Ansul 430357)	11,650.01	2,044.34
21 22 16 00-0287 EA 12-Relay Version, LaserSCANNER Detector Only, VLS-300, Vesda® Aspirating Smoke Detection System (Ansul 430358)	12,270.04	2,161.16
21 22 16 00-0288 EA 7-Relay Version, LaserSCANNER Detector Only, VLS-600, Vesda® Aspirating Smoke Detection System (Ansul 430359)	11,781.66	2,073.54
Note: Includes 1 fire alarm (any SCT) and OK/FOK LEDs.		
21 22 16 00-0289 EA 12-Relay Version, LaserSCANNER Detector Only, VLS-700, Vesda® Aspirating Smoke Detection System (Ansul 430360)	12,443.10	2,190.36
Note: Includes 1 fire alarm (any SCT) and OK/FOK LED.		
21 22 16 00-0290 EA 7-Relay, LaserSCANNER Detector Only, VLS-204, Vesda® Aspirating Smoke Detection System (Ansul 430361)	12,811.54	2,277.97
Note: Includes 2 blank plates and scan display module at far right.		
21 22 16 00-0291 EA 12-Relay, LaserSCANNER Detector, VLS-304, Vesda® Aspirating Smoke Detection System (Ansul 430363).....	13,376.68	2,394.80
Note: Includes 2 blank plates and scanner display.		
21 22 16 00-0292 EA 7-Relay, LaserSCANNER Detector, VLS-214, Vesda® Aspirating Smoke Detection System (Ansul 430365).....	14,057.24	2,511.61
Note: Includes centrally mounted programmer module.		
21 22 16 00-0293 EA 12-Relay, LaserSCANNER Detector, VLS-314, Vesda® Aspirating Smoke Detection System (Ansul 430367).....	14,662.43	2,628.43
Note: Includes centrally mounted LCD programmer module and scanner display module.		
21 22 16 00-0294 EA 12-Relay, LaserSCANNER Detector, VLS-310, Vesda® Aspirating Smoke Detection System (Ansul 430369).....	13,740.97	2,394.80
Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0295 Displays, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0296 EA VRT-200 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430381).....	2,174.87	321.25
Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0297 EA VRT-400 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430385)	2,184.67	321.25
Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0298 EA VRT-600 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430383)	1,970.20	292.05
Note: Includes a remote termination card without relays.		
21 22 16 00-0299 EA VRT-700 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430387)	1,981.58	292.05
Note: Includes a remote termination card.		
21 22 16 00-0300 EA VRT-800 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430389)	2,443.91	350.46
Note: Includes a remote termination card and 12 relays.		
21 22 16 00-0301 EA VRT-K00 Display, Compact Version Without Relays, Vesda® Aspirating Smoke Detection System (Ansul 430391).....	2,079.90	303.73
21 22 16 00-0302 EA VRT-J00 Display, Compact Version With 7 Relays, Vesda® Aspirating Smoke Detection System (Ansul 430393)	2,281.22	341.11
21 22 16 00-0303 Intelligent Addressable Devices, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0304 EA LaserCOMPACT (VN), VESDAnet Version Plus Relay Output, VLC-505, Vesda® Aspirating Smoke Detection System (Ansul 430370)	5,550.00	963.76
21 22 16 00-0305 EA LaserCOMPACT (RO), Relay Only Version, VLC-500, Vesda® Aspirating Smoke Detection System (Ansul 430372)	4,559.04	771.01
21 22 16 00-0306 EA Programmer With Remote Termination Card, VRT-100, Vesda® Aspirating Smoke Detection System (Ansul 430380)	1,622.02	292.05
21 22 16 00-0307 EA VESDAnet Socket, VRT-300, Vesda® Aspirating Smoke Detection System (Ansul 430395)	1,157.09	189.83

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0308 EA System Relay Module, VRT-S07, Vesda® Aspirating Smoke Detection System (Ansul 430399)	1,607.63	255.83
21 22 16 00-0309 EA PC-Link High-Level Interface, VHX-0200, Vesda® Aspirating Smoke Detection System (Ansul 430442).....	2,142.32	315.41
Note: Interface connects PC and LaserPLUS system.		
21 22 16 00-0310 EA Modem Cable, PC-HLI To Modem Connection, VHX-00090, Vesda® Aspirating Smoke Detection System (Ansul 430443)	302.75	47.31
21 22 16 00-0311 EA Hand-Held Programmer, VHH-1000, Vesda® Aspirating Smoke Detection System (Ansul 430444)	2,011.83	292.05
21 22 16 00-0312 EA Programmer Module, VSP-001, Vesda® Aspirating Smoke Detection System (Ansul 430460)	1,454.55	242.40
21 22 16 00-0313 EA VESDAnet Socket Kit, VSP-003, Vesda® Aspirating Smoke Detection System (Ansul 430463)	1,140.57	186.91
21 22 16 00-0314 EA Standard Display Module, VSP-002, Vesda® Aspirating Smoke Detection System (Ansul 430461).....	1,456.68	242.40
21 22 16 00-0315 EA Scanner Display Module, VSP-004, Vesda® Aspirating Smoke Detection System (Ansul 430464).....	1,454.55	242.40
21 22 16 00-0316 EA Remote Display Module, Compact (VN), VSP-502, Vesda® Aspirating Smoke Detection System (Ansul 430487)	1,432.06	227.80
21 22 16 00-0317 EA Filter Cartridge, VSP-005, Vesda® Aspirating Smoke Detection System (Ansul 430466).....	169.35	20.44
21 22 16 00-0318 EA Detector Chassis Assembly, VSP-006, Vesda® Aspirating Smoke Detection System (Ansul 430467).....	6,930.09	1,121.47
21 22 16 00-0319 EA Scanner Chassis Assembly, VSP-009, Vesda® Aspirating Smoke Detection System (Ansul 430470).....	12,080.10	1,962.56
21 22 16 00-0320 EA Aspirator For LaserPLUS And Laser Scanner, VSP-015, Vesda® Aspirating Smoke Detection System (Ansul 430475)	940.17	146.02
21 22 16 00-0321 EA Filter Cover, VSP-019, Vesda® Aspirating Smoke Detection System (Ansul 430477)	21.19	2.92
21 22 16 00-0322 EA Cover Screws, 17606, Vesda® Aspirating Smoke Detection System (Ansul 430478).....	11.40	0.58
21 22 16 00-0323 EA US Power Supply Circuit Board Only, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430481)	520.15	84.69
21 22 16 00-0324 EA Relay Processor Module (DRP), VSP-102, Vesda® Aspirating Smoke Detection System (Ansul 430483).....	630.27	102.80
21 22 16 00-0325 EA Aspirator, LaserCOMPACT, VSP-501, Vesda® Aspirating Smoke Detection System (Ansul 430486)	910.12	148.95
21 22 16 00-0326 EA RO-Cable For LaserCOMPACT Relay Only, (RO) Version, VSP-509, Vesda® Aspirating Smoke Detection System (Ansul 430488)	134.23	22.19
21 22 16 00-0327 EA Miniature Sampling Point, E700-SP, Vesda® Aspirating Smoke Detection System (Ansul 430502).....	21.60	4.67
21 22 16 00-0328 Labels And Decals, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0329 EA Sampling Point Labels, Roll Of 35, E700-SP-DCL-PIPE, Vesda® Aspirating Smoke Detection System (Ansul 430509)	19.23	3.50
21 22 16 00-0330 EA Round Point Label, Roll Of 50, E700-SP-DCL-PNT, Vesda® Aspirating Smoke Detection System (Ansul 430505).....	20.42	4.08
21 22 16 00-0331 EA Red, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLR, Vesda® Aspirating Smoke Detection System (Ansul 430506)	30.91	5.26
21 22 16 00-0332 EA Grey, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLG, Vesda® Aspirating Smoke Detection System (Ansul 430507)	30.96	5.26
21 22 16 00-0333 EA Sampling Point Decal, Wrap-Around Style, Roll Of 200, E700-SP-DCL, Vesda® Aspirating Smoke Detection System (Ansul 430508)	112.64	19.86
21 22 16 00-0334 Mounting Hardware, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0335 EA Remote Mounting Single Box With Escutcheon Only, VKT-000, Vesda® Aspirating Smoke Detection System (Ansul 430456)	274.50	42.05
21 22 16 00-0336 EA Recessed Mounting Kit For Remote Single Boxes, VSP-012, Vesda® Aspirating Smoke Detection System (Ansul 430472)	369.53	56.07
21 22 16 00-0337 EA Recessed Mounting Kit For VLP Or VLS Detector, VSP-011, Vesda® Aspirating Smoke Detection System (Ansul 430471)	380.15	61.33
21 22 16 00-0338 EA Remote 19 Sub Rack With 4 Blank Plates, VSR-0000, Vesda® Aspirating Smoke Detection System (Ansul 430457)	892.24	87.61
21 22 16 00-0339 EA Sub Rack Enclosure, VRE-100, Vesda® Aspirating Smoke Detection System (Ansul 430445).....	1,346.79	192.75
21 22 16 00-0340 Pipe And Fittings, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0341 LF 3/4", Orange Chlorinated Polyvinyl Chloride (CPVC) Pipe, Vesda® Aspirating Smoke Detection System (Ansul 430491)	6.72	2.16
21 22 16 00-0342 EA 3/4", End Cap, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430497)	11.91	4.32
21 22 16 00-0343 EA 3/4", 45 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430494)	33.49	12.96
21 22 16 00-0344 EA 3/4", 90 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430493)	34.30	12.96
21 22 16 00-0345 EA 3/4", Coupling, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430495)	23.43	8.64
21 22 16 00-0346 EA 3/4", Union, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430496)	37.09	12.96
21 22 16 00-0347 EA 3/4", Tee, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430498)	51.13	19.44
21 22 16 00-0348 EA 3/4" x 1/2" FPT, Tee, Chlorinated Polyvinyl Chloride (CPVC), Vesda® Aspirating Smoke Detection System (Ansul 430499)	62.85	22.82
21 22 16 00-0349 LF 1/2" OD x 3/8" ID, Black Polyethylene Tubing, Vesda® Aspirating Smoke Detection System (Ansul 430500).....	5.72	2.11
21 22 16 00-0350 EA Pipe Adapters, Metric-To-Imperial, VSP-021, Vesda® Aspirating Smoke Detection System (Ansul 430479).....	21.63	6.43
21 22 16 00-0351 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Plastic, E700-CAP KIT, Vesda® Aspirating Smoke Detection System (Ansul 430503)	24.73	4.67
21 22 16 00-0352 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Brass, Vesda® Aspirating Smoke Detection System (Ansul 430504)	35.31	6.43
21 22 16 00-0353 Remote Termination And Relay Cards, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0354 EA VRT-500, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430396)	1,574.91	224.30
Note: Remote box includes 7 relays for VLP/VLC.		
21 22 16 00-0355 EA VN, Compact Termination Card, VSP-515, Vesda® Aspirating Smoke Detection System (Ansul 430490).....	1,621.05	258.17
21 22 16 00-0356 EA 12-Relay, Remote Termination Card, VSP-208, Vesda® Aspirating Smoke Detection System (Ansul 430485).....	981.97	157.71



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Clean-Agent Fire-Extinguishing Systems	21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0357 EA RO, Compact Termination Card, VSP-510, Vesda® Aspirating Smoke Detection System (Ansul 430489)	1,120.94	178.15
21 22 16 00-0358 EA VRT-501, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430397)	1,574.91	224.30
Note: Remote box includes 7 relays for VLS.		
21 22 16 00-0359 EA VRT-900 Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430398)	1,893.84	258.17
Note: Remote box includes 12 relays for VLS.		
21 22 16 00-0360 EA Remote Termination Card Without Relay, VSP-007, Vesda® Aspirating Smoke Detection System (Ansul 430468)	540.52	79.43
21 22 16 00-0361 EA Remote Termination Card (RTC7), VSP-008, Vesda® Aspirating Smoke Detection System (Ansul 430469)	814.07	121.49
21 22 16 00-0362 EA 7-Relay, Head Termination Card, VSP-014, Vesda® Aspirating Smoke Detection System (Ansul 430474)	1,545.11	251.17
21 22 16 00-0363 EA 12-Relay, Head Termination Card, VSP-016, Vesda® Aspirating Smoke Detection System (Ansul 430476)	2,266.44	367.98
21 22 16 00-0364 Preferred® Low Pressure CO2 System (21 22 16 00-0001)		
21 22 16 00-0365 Manual Pull Stations, Preferred® Low Pressure CO2 System (21 22 16 00-0364)		
21 22 16 00-0366 EA Addressable, DPST, Dual Action Pull Station, Preferred® Low Pressure CO2 System (Ansul 428658)	122.66	20.44
Note: Excludes FMM-101.		
21 22 16 00-0367 EA Weatherproof Backbox For Manual Pull Stations, Preferred® Low Pressure CO2 System (Ansul 428659)	91.70	15.19
21 22 16 00-0368 Industrial Fire Control System (21 22 16 00-0001)		
21 22 16 00-0369 Alarm Devices, Industrial Fire Control System (21 22 16 00-0368)		
21 22 16 00-0370 EA Explosion Proof Alarm Horn, Alarm Devices, Industrial Fire Control System (Ansul 65947)	2,992.29	538.83
21 22 16 00-0371 EA 6", 115 Volt AC Alarm Bell For Release Systems, Alarm Devices, Industrial Fire Control System (Ansul 24751)	89.34	12.38
21 22 16 00-0372 EA 24 Volt AC, Multitone Horn, Alarm Devices, Industrial Fire Control System (Ansul 429697)	90.28	16.07
21 22 16 00-0373 EA Weatherproof Surface Back Box For Horn And Strobe, Alarm Devices, Industrial Fire Control System (Ansul 429700)	53.81	9.64
21 22 16 00-0374 EA Semi-Flush Plate, Alarm Devices, Industrial Fire Control System (Ansul 429701)	21.97	3.91
21 22 16 00-0375 Manual Pull Stations, Industrial Fire Control System (21 22 16 00-0368)		
21 22 16 00-0376 EA SPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428655)	101.38	16.94
21 22 16 00-0377 EA DPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428656)	142.97	23.95
21 22 16 00-0378 EA Explosion Proof, DPDT, Dual Action Pull Station, Industrial Fire Control System (Ansul 428657)	1,116.85	188.08
21 22 16 00-0379 EA Surface Mounted Backbox For Manual Pull Stations, Industrial Fire Control System (Ansul 428660)	32.45	5.43
21 22 16 00-0380 EA Extra Pull Station Labels For Manual Pull Stations, Industrial Fire Control System (Ansul 428654)	14.54	2.42
21 22 16 00-0381 Marine Fire Control System (21 22 16 00-0001)		
21 22 16 00-0382 Alarm Devices, Marine Fire Control System (21 22 16 00-0381)		
21 22 16 00-0383 EA Weatherproof Surface Mount Back Box For Alarm Accessories, Alarm Devices, Marine Fire Control System (Ansul 24747)	58.79	9.81
21 22 16 00-0384 EA 6", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805)	108.82	18.98
21 22 16 00-0385 EA 10", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417806)	108.82	18.98
21 22 16 00-0386 FM200 System Equipment (21 22 16)		
21 22 16 00-0387 EA 26 LB Cylinder, Filled, For FM200 Fire Protection system	2,999.81	140.89
21 22 16 00-0388 EA 44 LB Cylinder, Filled, For FM200 Fire Protection system	4,276.10	161.32
21 22 16 00-0389 EA 63 LB Cylinder, Filled, For FM200 Fire Protection system	5,075.14	190.20
21 22 16 00-0390 EA 101 LB Cylinder, Filled, For FM200 Fire Protection system	6,710.51	225.42
21 22 16 00-0391 EA 196 LB Cylinder, Filled, For FM200 Fire Protection system	10,447.30	281.78
21 22 16 00-0392 EA Electro/Mechanical Release, For FM200 Fire Protection system	810.65	281.78
21 22 16 00-0393 EA Manual Pull Station, For FM200 Fire Protection system	280.02	93.69
21 22 16 00-0394 EA Pneumatic Damper Release, For FM200 Fire Protection system	315.91	70.45
21 22 16 00-0395 LB FM200 Gas	24.04	
21 22 16 00-0396 EA Master Cylinder, For FM200 Fire Protection system	4,803.37	75.80
21 22 16 00-0397 EA Shuttle Check Valve, For FM200 Fire Protection system	746.45	105.95
21 22 16 00-0398 EA Flex Head Cylinder, For FM200 Fire Protection system	748.69	113.56
21 22 16 00-0399 EA Nozzles, For FM200 Fire Protection system	193.58	40.15
21 22 16 00-0400 EA Cylinder Support, For FM200 Fire Protection system	243.90	75.80
21 22 16 00-0401 EA Solenoid Valve, For FM200 Fire Protection system	950.01	113.56
21 22 16 00-0402 EA Battery Back-Up, For FM200 Fire Protection system	843.24	299.53
21 22 16 00-0403 EA Control Panel, Single Zone, For FM200 Fire Protection system	3,802.17	562.71
21 22 16 00-0404 EA Control Panel, Multi Zone, For FM200 Fire Protection system	6,289.38	1,126.70
21 22 16 00-0405 EA Smoke Or Heat Detector, For FM200 Fire Protection system	346.35	113.56
21 22 16 00-0406 EA Annunciator, For FM200 Fire Protection system	3,061.70	426.47
21 22 16 00-0407 EA Pressure Switch, For FM200 Fire Protection system	370.09	113.56
21 22 16 00-0408 EA Alarm Horn, For FM200 Fire Protection system	344.05	113.56
21 22 16 00-0409 EA Testing, For FM200 Fire Protection system	1,448.58	
21 22 16 00-0410 EA Abort Switch, For FM200 Fire Protection system	222.48	52.83

21 23 Wet-Chemical Fire-Extinguishing Systems (21 20)

21 23 16 Wet-Chemical Fire-Extinguishing Equipment (21 23)

21 23 16 00-0001 Kidde Fire Systems (21 23 16)
Note: Kidde or equal.

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0002			Cylinders And Hardware (21 23 16 00-0001)		
21 23 16 00-0003	EA		125 Cylinder And Valve Assembly With 1.25 Gallon Of Wet Agent.....	1,092.72	116.71
21 23 16 00-0004	EA		260 Cylinder And Valve Assembly With 2.6 Gallon Of Wet Agent.....	1,256.67	145.36
21 23 16 00-0005	EA		400S And M Cylinder And Valve Assembly With 4 Gallon Of Wet Agent.....	1,540.02	179.34
21 23 16 00-0006	EA		600 And L Cylinder And Valve Assembly With 6 Gallon Of Wet Agent.....	1,818.67	212.80
21 23 16 00-0007	EA		Discharge Adapter Kit (One Required Per Cylinder).....	61.20	6.10
21 23 16 00-0008	EA		System Valve Actuator.....	220.09	24.25
21 23 16 00-0009	EA		Vent Plug.....	41.32	4.93
21 23 16 00-0010	EA		Gauge Shield.....	84.12	12.97
21 23 16 00-0011	EA		125 Cylinder Wall Mounting Bracket.....	113.48	12.97
21 23 16 00-0012	EA		260 Cylinder Wall Mounting Bracket.....	120.29	13.74
21 23 16 00-0013	EA		400S And M Cylinder Wall Mounting Bracket.....	228.62	25.94
21 23 16 00-0014	EA		600 And 400M Cylinder Shelf Bracket.....	225.11	29.44
21 23 16 00-0015	EA		600 And 400M Cylinder Floor Mounting Kit.....	243.51	29.50
21 23 16 00-0016	EA		125 And 260 Cylinder Replacement Bracket Strap.....	34.58	
21 23 16 00-0017	EA		400 And 600 Cylinder Replacement Bracket Strap.....	36.24	
21 23 16 00-0018			Nozzles And Accessories (21 23 16 00-0001)		
21 23 16 00-0019	EA		ADP, F, GRW Or R Nozzle.....	101.78	11.93
21 23 16 00-0020	EA		LPF Or DM Nozzle.....	110.53	11.93
21 23 16 00-0021	EA		LPR Nozzle.....	128.55	11.93
21 23 16 00-0022	EA		3/8" Swivel Adapter For Nozzles.....	76.32	8.43
21 23 16 00-0023	EA		Removal And Replacement Of Nozzle Seals.....	12.04	
21 23 16 00-0024	EA		Chrome Nozzle Disc Cap.....	7.42	0.77
21 23 16 00-0025	EA		LPR Nozzle Disc Cap.....	37.03	11.86
21 23 16 00-0026			Control Systems (21 23 16 00-0001)		
21 23 16 00-0027	EA		XV Control System..... Note: Includes (1) SVA, (1) system cartridge, (1) test cartridge, (1) EMT connector kit, (1) SPDT microswitch kit, and (1) SPDT microswitch kit.	1,004.99	77.81
21 23 16 00-0028	EA		7-1/2" High Pressure Hose (Required for cylinder mounted XV Control System).....	89.10	12.97
21 23 16 00-0029	EA		24" High Pressure Hose.....	104.06	12.97
21 23 16 00-0030	EA		60" High Pressure Hose.....	137.31	12.97
21 23 16 00-0031	EA		XV Solenoid Kit (Electric Actuator), 24 Volt DC.....	203.13	25.94
21 23 16 00-0032	EA		XV Microswitch Kit, SPDT.....	69.26	12.19
21 23 16 00-0033	EA		XV Microswitch Kit, SPDT, Terminal Type, For Alarm/Release.....	74.25	12.19
21 23 16 00-0034	EA		EMT Connector Kit (EMT Connector And O-Ring).....	32.75	9.73
21 23 16 00-0035	EA		KRS-50 Control Box Assembly..... Note: Includes (1) SVA, (2) CO2 cartridges, (2) set screws, (1) grommet, (1) cover label, and (1) exhaust fan caution label.	569.23	50.25
21 23 16 00-0036	EA		SPDT Microswitch For KRS-50.....	106.61	12.19
21 23 16 00-0037	EA		DPDT Microswitch For KRS-50.....	192.80	21.14
21 23 16 00-0038	EA		SPDT Pressure Switch (Fire Department Tie-In).....	592.31	67.82
21 23 16 00-0039			Mechanical Actuation Components (21 23 16 00-0001)		
21 23 16 00-0040	EA		Universal Detector Link Housing Kit, Mechanical Actuation Systems..... Note: Includes (1) bracket (11-3/4"), (2) "S" hook, and (2) cable crimp sleeves.	68.65	19.45
21 23 16 00-0041	EA		XV Low Profile Link Detector Housing Kit..... Note: Includes (1) bracket, (2) 1/2" EMT connectors, (4) cable crimp sleeves, and (1) S hook.	82.12	19.45
21 23 16 00-0042	EA		XV Or KRS-50 Remote Manual Release, Combination Pull-To-Trip/Release-To-Trip.....	198.81	12.97
21 23 16 00-0043	EA		XV Remote Manual Release, Pull-To-Trip.....	153.93	12.97
21 23 16 00-0044	EA		Corner Pulley, Mechanical Actuation Systems.....	29.74	3.50
21 23 16 00-0045	EA		Double Tee Pulley, Mechanical Actuation Systems.....	408.47	21.40
21 23 16 00-0046	EA		In-Line Tee Pulley, Mechanical Actuation Systems.....	49.83	5.70
21 23 16 00-0047	EA		Corner Pulley / Quik-Seal Adapter Combination.....	81.12	6.48
21 23 16 00-0048	LF		1/16" Cable, Mechanical Actuation Systems.....	3.14	1.30
21 23 16 00-0049	EA		Cable Clamp.....	11.27	0.64
21 23 16 00-0050	EA		Cable Crimp Sleeve, Mechanical Actuation Systems.....	1.99	0.52
21 23 16 00-0051	EA		"S" Hook, Mechanical Actuation Systems.....	1.92	0.52
21 23 16 00-0052	EA		1/2" EMT x 3/8" NPT Adapter, Mechanical Actuation Systems.....	106.31	12.06
21 23 16 00-0053			Mechanical Detection Links (21 23 16 00-0001)		
21 23 16 00-0054	EA		KGS Standard Response Link.....	23.12	6.48
21 23 16 00-0055	EA		KGS Rapid Response Link.....	33.27	6.48
21 23 16 00-0056	EA		KFA Type "A" Fusible Link.....	28.72	6.48
21 23 16 00-0057	EA		KML Type "ML" Fusible Link.....	24.61	6.48
21 23 16 00-0058	EA		500 Degree, KML Type "ML" Fusible Link.....	34.58	6.48
21 23 16 00-0059			Gas Valves (21 23 16 00-0001)		
21 23 16 00-0060	EA		3/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....	477.74	28.01
21 23 16 00-0061	EA		1" NPT Mechanical Cable Operated Gas Shut-off Valve.....	520.51	34.50
21 23 16 00-0062	EA		1-1/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....	598.24	43.57
21 23 16 00-0063	EA		1-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve.....	656.76	50.18
21 23 16 00-0064	EA		2" NPT Mechanical Cable Operated Gas Shut-off Valve.....	709.99	59.26
21 23 16 00-0065	EA		2-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve.....	1,175.93	86.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0066 EA 3" NPT Mechanical Cable Operated Gas Shut-off Valve	1,313.53	100.24
21 23 16 00-0067 EA Pneumatic Release (Single Unit)	542.66	31.64
21 23 16 00-0068 EA Removal And Replacement Of Cable Block And Set Screw Assembly For Gas Valve	56.02	
21 23 16 00-0069 EA 1/2" Electric Solenoid Gas Shut-off Valve.....	498.33	26.07
21 23 16 00-0070 EA 3/4" Electric Solenoid Gas Shut-off Valve.....	502.24	28.01
21 23 16 00-0071 EA 1" Electric Solenoid Gas Shut-off Valve.....	774.26	34.50
21 23 16 00-0072 EA 1-1/4" Electric Solenoid Gas Shut-off Valve.....	820.49	43.57
21 23 16 00-0073 EA 1-1/2" Electric Solenoid Gas Shut-off Valve.....	942.01	50.18
21 23 16 00-0074 EA 2" Electric Solenoid Gas Shut-off Valve.....	1,210.49	59.26
21 23 16 00-0075 EA 2-1/2" Electric Solenoid Gas Shut-off Valve.....	2,000.18	86.62
21 23 16 00-0076 EA 3" Electric Solenoid Gas Shut-off Valve.....	2,512.28	100.24
21 23 16 00-0077 EA Manual Reset Relay	689.44	130.32
21 23 16 00-0078	Liquid Tight Sealing Adapters <small>(21 23 16 00-0001)</small>	
21 23 16 00-0079 EA 3/8" Tubing, Compression Seal Adapter.....	54.63	5.44
21 23 16 00-0080 EA 1/2" Tubing, 1/4" Pipe, Compression Seal Adapter	53.84	5.97
21 23 16 00-0081 EA 5/8" Tubing, 3/8" Pipe, Compression Seal Adapter	63.23	7.13
21 23 16 00-0082 EA 3/4" Tubing, 1/2" Pipe, Compression Seal Adapter	72.94	7.65
21 23 16 00-0083 EA 1/2" Electrical Metallic Tubing (EMT), Compression Seal Adapter	63.23	7.13
21 23 16 00-0084 EA 3/8" NPT Female, Quik-Seal Adapter	53.84	5.97
21 23 16 00-0085 EA 1/2" NPT Female, Quik-Seal Adapter	53.84	5.97
21 23 16 00-0086 EA 3/4" NPT Female, Quik-Seal Adapter	88.43	10.11
21 23 16 00-0087 EA 1" NPT Female, Quik-Seal Adapter	117.74	13.36
21 23 16 00-0088 EA Quik-Patch For Hole Patching Up To 1-1/8" Diameter	53.84	
21 23 16 00-0089	Pressure Operated Releasing Systems <small>(21 23 16 00-0001)</small>	
21 23 16 00-0090 EA KRS-100 Nitrogen Cylinder.....	391.53	39.17
21 23 16 00-0091 EA KRS-100 Actuator Assembly	351.10	39.94
21 23 16 00-0092 EA KRS-100 Mounting Bracket	275.09	9.86
21 23 16 00-0093 EA KRS-700S Nitrogen Cylinder	1,008.09	112.95
21 23 16 00-0094 EA KRS-700 Mounting Bracket	214.59	24.12
21 23 16 00-0095 EA KRS-700S Discharge Adapter Kit.....	324.62	24.12
21 23 16 00-0096 EA Check Valve, Pressure Operated Releasing Systems	321.19	17.11
21 23 16 00-0097 EA Vent Check, Pressure Operated Releasing Systems	98.90	10.90
21 23 16 00-0098 EA Removal And Replacement Of Receiver Gasket For KRS-100 Actuator Assembly	13.04	
21 23 16 00-0099 EA 3 Pole, Double Throw Pressure Switch	808.04	90.78
21 23 16 00-0100	Pyro-Chem Kitchen Fire Suppression Systems <small>(21 23 16)</small>	
21 23 16 00-0101	Cylinders, Kitchen Fire Suppression Systems <small>(21 23 16 00-0100)</small>	
21 23 16 00-0102 EA 3.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551194).....	656.50	92.07
21 23 16 00-0103 EA 4.6 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551193).....	945.73	132.66
21 23 16 00-0104 EA 6.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551196).....	1,248.36	181.41
21 23 16 00-0105 EA Cylinder Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550053).....	136.98	21.66
21 23 16 00-0106 EA Enclosure With Mechanical Control Unit, Kitchen Fire Suppression Systems (Pyro-Chem 551208).....	901.20	141.60
21 23 16 00-0107 EA Enclosure For Secondary Cylinders, Kitchen Fire Suppression Systems (Pyro-Chem 550966).....	550.24	86.36
21 23 16 00-0108	Fusible Links, Kitchen Fire Suppression Systems <small>(21 23 16 00-0100)</small>	
21 23 16 00-0109 EA 165 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551522).....	17.76	2.86
21 23 16 00-0110 EA 212 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551523).....	17.76	2.86
21 23 16 00-0111 EA 280 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551524).....	18.13	2.86
21 23 16 00-0112 EA 360 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551525).....	17.76	2.86
21 23 16 00-0113 EA 450 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551526).....	17.76	2.86
21 23 16 00-0114 EA 500 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551527).....	19.10	2.86
21 23 16 00-0115 EA Fusible Link Kit With 10" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550131).....	30.79	4.80
21 23 16 00-0116 EA Fusible Link Kit With 8" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550132).....	40.01	6.36
21 23 16 00-0117 EA Fusible Link Hanger, Kitchen Fire Suppression Systems (Pyro-Chem 550876).....	71.27	32.81
21 23 16 00-0118 EA 225 To 600 Fahrenheit, Electrical Thermal Detector, Kitchen Fire Suppression Systems (Pyro-Chem 13970-6).....	395.65	73.01
21 23 16 00-0119	Gas Valves, Kitchen Fire Suppression Systems <small>(21 23 16 00-0100)</small>	
21 23 16 00-0120 EA 3/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550593).....	301.07	28.01
21 23 16 00-0121 EA 1" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550594).....	345.26	34.50
21 23 16 00-0122 EA 1-1/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550595).....	378.33	43.57
21 23 16 00-0123 EA 1-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550596).....	418.08	50.05
21 23 16 00-0124 EA 2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 551049).....	482.33	59.14
21 23 16 00-0125 EA 2-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550185).....	1,077.78	86.49
21 23 16 00-0126 EA 3" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550186).....	1,157.08	100.11
21 23 16 00-0127 EA 3/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550358).....	241.62	28.01
21 23 16 00-0128 EA 1" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550359).....	400.25	34.50
21 23 16 00-0129 EA 1-1/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550360).....	424.39	43.57
21 23 16 00-0130 EA 1-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550361).....	483.45	50.05
21 23 16 00-0131 EA 2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550362).....	660.64	59.14
21 23 16 00-0132 EA 2-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550363).....	1,253.10	86.49
21 23 16 00-0133 EA 3" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 17643).....	1,329.45	100.11

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21	23	16	00-0134	Nozzles, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0135 EA	Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	63.35 9.60
			21 23 16 00-0136 EA	Swivel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem)	88.67 12.19
			21 23 16 00-0137 EA	Stainless Steel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem)	311.48 12.19
21	23	16	00-0138	Actuating Cylinders/Cartridges, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0139 EA	Carbon Dioxide Actuation Cartridge, Kitchen Fire Suppression Systems (Pyro-Chem 551059).....	23.55 3.76
			21 23 16 00-0140 EA	PAC-10, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550104)	771.11 121.76
			21 23 16 00-0141 EA	PAC-200, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550690)	983.03 155.74
21	23	16	00-0142	Circuit Monitors, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0143 EA	24 Volt DC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550303)	504.14 79.75
			21 23 16 00-0144 EA	120 Volt AC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550302)	608.24 96.09
21	23	16	00-0145	Control Heads, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0146 EA	Mechanical Control Head, No Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551203).....	556.19 87.92
			21 23 16 00-0147 EA	Mechanical Control Head With Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551200).....	580.72 91.94
			21 23 16 00-0148 EA	24 Volt DC, Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551201)	756.20 119.56
			21 23 16 00-0149 EA	120 Volt AC Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551202)	867.74 137.46
			21 23 16 00-0150 EA	Control Head Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550853)	70.49 11.15
21	23	16	00-0151	Corner Pulleys/Tees, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0152 EA	Set Screw Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 415670).....	16.80 1.81
			21 23 16 00-0153 EA	Compression Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 423250)	17.63 2.33
			21 23 16 00-0154 EA	Tee Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550166).....	56.50 8.94
			21 23 16 00-0155 EA	Removal And Replacement Of Screw For Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550272).....	0.79
21	23	16	00-0156	Switches, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0157 EA	SPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550227).....	61.42 9.73
			21 23 16 00-0158 EA	DPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550237).....	122.99 19.33
			21 23 16 00-0159 EA	Four Pole Double Throw Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550978).....	260.26 40.98
21	23	16	00-0160	Wire Rope/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0161 LF	1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 15821).....	1.37 0.39
			21 23 16 00-0162 EA	Crimps For 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 550122)	0.96 0.39
			21 23 16 00-0163 EA	High Temperature Stainless Steel Crimps, Kitchen Fire Suppression Systems (Pyro-Chem 551551)	3.04 0.52
			21 23 16 00-0164 EA	"S" Hooks, Kitchen Fire Suppression Systems (Pyro-Chem 550121).....	0.64
21	23	16	00-0165	Replacement Parts, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0166 EA	Wet Valve Rebuilding Kit, Kitchen Fire Suppression Systems (Pyro-Chem 550698).....	58.45 9.34
			21 23 16 00-0167 EA	Wet Valve Cap With Schrader Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550831)	60.99 9.73
			21 23 16 00-0168 EA	Wet Spring, Kitchen Fire Suppression Systems (Pyro-Chem 550705)	7.13 1.17
			21 23 16 00-0169 EA	225 psi, Wet Gage, Kitchen Fire Suppression Systems (Pyro-Chem 551236)	83.29 12.71
			21 23 16 00-0170 EA	Wet Valve O-ring, Kitchen Fire Suppression Systems (Pyro-Chem 550716).....	11.74 1.81
			21 23 16 00-0171 EA	Wet Piston, Kitchen Fire Suppression Systems (Pyro-Chem 550707).....	16.37 2.60
			21 23 16 00-0172 EA	Wet Piston O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 550715)	7.13 1.17
			21 23 16 00-0173 EA	Wet Nozzle Cap, Kitchen Fire Suppression Systems (Pyro-Chem 551528)	10.08 1.56
			21 23 16 00-0174 EA	Wet Nozzle Strainer, Kitchen Fire Suppression Systems (Pyro-Chem 551529).....	9.85 1.56
			21 23 16 00-0175 EA	Wet Nozzle Cap O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 551530).....	2.82 0.39
			21 23 16 00-0176 EA	Removal And Replacement Of Teflon Washer For Control Head Actuator, Kitchen Fire Suppression Systems (Pyro-Chem 550257)	4.75
			21 23 16 00-0177 EA	O-Ring Lubrication, Kitchen Fire Suppression Systems (Pyro-Chem 550063)	91.16
			21 23 16 00-0178 EA	3.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 551024).....	608.99
			21 23 16 00-0179 EA	4.6 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550902).....	796.41
			21 23 16 00-0180 EA	6.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550901).....	922.82
21	23	16	00-0181	Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0182 EA	3/8" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550857)	28.55 4.41
			21 23 16 00-0183 EA	1/2" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550859)	29.60 4.67
			21 23 16 00-0184 EA	Wet Valve Tool, Kitchen Fire Suppression Systems (Pyro-Chem 550788).....	56.96 8.94
			21 23 16 00-0185 EA	Recharge Adapter Kit, Kitchen Fire Suppression Systems (Pyro-Chem 551240).....	80.61
			21 23 16 00-0186 EA	3.0 Gallon Of Wet Chemical For Recharge, Kitchen Fire Suppression Systems (Pyro-Chem 551188).....	173.24
21	23	16	00-0187	Pull Stations/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)	
			21 23 16 00-0188 EA	Mechanical, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551074)	115.24 18.28
			21 23 16 00-0189 EA	Electric, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551166).....	128.67 25.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0190 EA Trim Ring For Flush Mounting Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 550088).....	30.79	4.80
21 23 16 00-0191 EA Glass Rods For Pull Stations, Kitchen Fire Suppression Systems (Pyro-Chem 428661).....	4.97	1.69
21 23 16 00-0192 Asco Gas Valve Control Panels (21 23 16)		
21 23 16 00-0193 EA Relay Control Panel For AC Solenoid Valves (Asco 108D90C).....	2,214.85	285.29
21 23 16 00-0194 EA Relay Control Panel For DC Solenoid Valves (Asco 108D10C).....	2,283.12	285.29
21 23 16 00-0195 EA Master Control Station For Relay Control Panel For DC Solenoid Valves (Asco 216C89).....	726.80	64.84
21 23 16 00-0196 EA Emergency Stop Station For Relay Control Panel (Asco 173A19).....	682.20	64.84
21 24 Dry-Chemical Fire-Extinguishing Systems (21 20)		
21 24 16 Dry-Chemical Fire-Extinguishing Equipment (21 24)		
21 24 16 00-0001 Amerex KP Restaurant Fire Suppression Systems (21 24 16)		
Note: Amerex or equal.		
21 24 16 00-0002 EA 3.75 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	685.90	100.63
21 24 16 00-0003 EA 6 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	953.68	126.90
21 24 16 00-0004 EA Recharge - KP Liquid Agent (3.75 Gallon).....	226.50	
21 24 16 00-0005 EA Recharge - KP Liquid Agent (6 Gallon).....	398.16	
21 24 16 00-0006 EA 3.75 Gallon, Bracket Assembly Agent Cylinder With Distribution Hose Assembly And Distribution Outlet.....	158.56	21.13
21 24 16 00-0007 EA 6 Gallon, Bracket Assembly Agent Cylinder.....	92.36	12.25
21 24 16 00-0008 EA 6 Gallon, 3/4 NPT, Agent Cylinder Discharge Adapter Kit.....	40.05	
21 24 16 00-0009 EA 6 Gallon, Pneumatic Actuator, Agent Cylinder.....	158.56	21.13
21 24 16 00-0010 EA MRM Actuator (Less N2 Cylinder And Enclosure).....	398.16	52.96
21 24 16 00-0011 EA Painted Steel, MRM Enclosure.....	212.20	28.17
21 24 16 00-0012 EA Stainless Steel, MRM Enclosure.....	257.70	28.17
21 24 16 00-0013 EA Stainless Steel, Single Cylinder System Cabinet.....	631.83	84.08
21 24 16 00-0014 EA N2 - 1/4" x 16" Actuation Hose.....	47.68	6.34
21 24 16 00-0015 EA 10 CU. Inch, Nitrogen Cylinder.....	212.20	28.17
Note: Use For 1-10 Agent Cylinders		
21 24 16 00-0016 EA Vent Check.....	38.15	5.07
21 24 16 00-0017 EA Detector.....	28.61	3.80
Note: Includes bracket, linkage and conduit fittings.		
21 24 16 00-0018 EA 280 To 450 Degree F, Fusible Link.....	10.74	1.41
21 24 16 00-0019 EA Test Link.....	3.65	
21 24 16 00-0020 EA Corner Pulley.....	14.78	1.97
21 24 16 00-0021 EA 1/16", 500 Foot Spool, Cable.....	238.41	31.69
21 24 16 00-0022 EA Pulley Tee.....	107.28	14.23
21 24 16 00-0023 EA Manual Pull Station (Standard).....	95.36	12.67
21 24 16 00-0024 EA Manual Pull Station, Adapter Kit (Recess Standard Pull Station).....	44.73	5.91
21 24 16 00-0025 EA Manual Pull Station (Oversized).....	106.33	14.09
21 24 16 00-0026 EA Conduit Offset.....	21.22	2.82
21 24 16 00-0027 EA 3/8" Pipe Thread, Seal (Quick-Seal).....	29.24	3.94
21 24 16 00-0028 EA 1/2" Pipe Thread, Seal (Quick-Seal).....	23.85	3.24
21 24 16 00-0029 EA 3/8" Pipe Compression Seal.....	39.81	5.35
21 24 16 00-0030 EA 1/2" Pipe Compression Seal.....	39.81	5.35
21 24 16 00-0031 EA Cap, Nozzle Blow-Off (Standard).....	11.67	3.66
21 24 16 00-0032 EA Cap, Nozzle Blow-Off (High Temperature).....	26.54	3.66
21 24 16 00-0033 EA 2 Flow Points, Fryer/Griddle Nozzle.....	47.68	6.34
21 24 16 00-0034 EA 1 Flow Point Each, Appliance, Plenum Nozzle.....	47.68	6.34
21 24 16 00-0035 EA Nozzle - Solid Fuel Charbroiler - 1 To 1-1/2 Flow Points Each.....	47.68	6.34
21 24 16 00-0036 EA 1/2 Flow Points Each, Upright Charbroiler Nozzle.....	47.68	6.34
21 24 16 00-0037 EA 2 Flow Points Each, Duct (Only) Nozzle.....	47.68	6.34
21 24 16 00-0038 EA 2 Flow Points Each, Four Burner Range Nozzle.....	68.57	9.15
21 24 16 00-0039 EA 3/4" Or 1" Mechanical Gas Valve.....	377.39	37.32
21 24 16 00-0040 EA 1-1/4" Or 1-1/2" Mechanical Gas Valve.....	446.20	54.22
21 24 16 00-0041 EA 2" Mechanical Gas Valve.....	555.17	64.08
21 24 16 00-0042 EA Manual Reset Relay (Required With Every Electric Gas Valve).....	600.80	79.86
21 24 16 00-0043 EA SPDT Microswitch With 18" Leads.....	31.63	4.22
21 24 16 00-0044 EA Kit Gas Valve Actuator For Use With ASCO Mechanical Gas Valve.....	51.02	6.76
21 24 16 00-0045 EA Gas Valve Trip Assembly.....	107.29	14.23
21 24 16 00-0046 Range Guard Fire Suppression Systems (21 24 16)		
Note: Range Guard or equal.		
21 24 16 00-0047 EA 1-1/4 Gallon Charged Cylinder With Valve.....	728.53	108.79
21 24 16 00-0048 EA 2-1/2 Gallon Charged Cylinder With Valve.....	909.41	135.77
21 24 16 00-0049 EA 4 Gallon Charged Cylinder With Valve.....	1,122.72	167.67
21 24 16 00-0050 EA 6 Gallon Charged Cylinder With Valve.....	1,333.55	199.05
21 24 16 00-0051 EA Vent Plug.....	30.61	4.54
21 24 16 00-0052 EA Discharge Adapter Kit.....	39.42	
21 24 16 00-0053 EA 1-1/4 Gallon Wall Bracket.....	81.09	12.06
21 24 16 00-0054 EA 2-1/2 Gallon Wall Bracket.....	85.82	12.84
21 24 16 00-0055 EA 4 Gallon Wall Bracket.....	162.08	24.25
21 24 16 00-0056 EA 6 Gallon Wall Bracket.....	179.63	26.84
21 24 16 00-0057 EA Mechanical Control Head, No Microswitch.....	633.72	94.66
21 24 16 00-0058 EA Mechanical Control Head, 1 Microswitch.....	661.16	98.68
21 24 16 00-0059 EA Mechanical Control Head, 2 Microswitches.....	758.46	113.21
21 24 16 00-0060 EA Tandem Control Head.....	576.34	86.11

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 24 Dry-Chemical Fire-Extinguishing Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

21 24 16 00-0061	EA	Electric Control Head, 120 Volt AC / 24 Volt DC.....	975.52	145.63
21 24 16 00-0062	EA	Mechanical Control Box	434.12	64.84
21 24 16 00-0063	EA	Tandem Control Box	434.12	64.84
21 24 16 00-0064	EA	Mechanical Control Box Adapter.....	127.24	19.06
21 24 16 00-0065	EA	A+ Control head With 1 Pressure Operated Actuator	382.39	57.05
21 24 16 00-0066	EA	Pressure Operated Actuator	157.18	23.47
21 24 16 00-0067	EA	BMCS-1 Nitrogen Cylinder.....	254.49	38.00
21 24 16 00-0068	EA	BMCS-1 Actuator Assembly	259.48	38.77
21 24 16 00-0069	EA	BMCS-1 Mounting Bracket	63.61	9.47
21 24 16 00-0070	EA	BMCS-7 Nitrogen Cylinder.....	734.30	109.58
21 24 16 00-0071	EA	BMCS-7 Mounting Bracket	157.18	23.47
21 24 16 00-0072	EA	BMCS-7 Discharge Adapter Kit.....	157.18	23.47
21 24 16 00-0073	EA	Check Valve.....	133.52	27.88
21 24 16 00-0074	EA	Vent Check For Use With BMCS Systems	71.11	10.63
21 24 16 00-0075	EA	Check Valve, (Schrader Flare Fitting) For Pressure Operated Actuator	30.94	4.62
21 24 16 00-0076	EA	Removal And Replacement Of Receiver Gasket For BMCS-Actuator Assembly.....	8.14	
21 24 16 00-0077	EA	Pneumatic Control Head For Slave Cylinders.....	162.17	24.25
21 24 16 00-0078	EA	Nozzles; ADP, F, R And GRW	74.35	11.15
21 24 16 00-0079	EA	Nozzles; DM And LPF.....	82.83	12.31
21 24 16 00-0080	EA	Swivel Adapter.....	52.39	7.78
21 24 16 00-0081	EA	Corner Pulley	22.45	3.37
21 24 16 00-0082	LF	1/16" Stainless Steel Cable.....	1.02	0.39
21 24 16 00-0083	EA	Cable Crimp Sleeve	1.24	0.39
21 24 16 00-0084	EA	"S" Hook.....	0.95	0.26
21 24 16 00-0085	EA	Electrical Metallic Tubing (EMT) Adapter, 1/2" Electrical Metallic Tubing (EMT) x 3/8" NPT	77.31	11.54
21 24 16 00-0086	EA	Cable Clamp	6.89	1.04
21 24 16 00-0087	EA	Nico Sleeves - 1/16" Cable	0.96	0.26
21 24 16 00-0088	EA	3/8" Cable Anchor.....	81.70	12.19
21 24 16 00-0089	EA	1/2" Cable Anchor	81.70	12.19
21 24 16 00-0090	EA	Mechanical Remote Manual Release (Pull Cable).....	132.16	19.71
21 24 16 00-0091	EA	Tee Pulley, Use For Mechanical Pull And Gas Valve	141.04	21.01
21 24 16 00-0092	EA	Surface Remote Manual Release, End-of-line.....	165.24	24.64
21 24 16 00-0093	EA	Surface Remote Manual Release, In line Conservation Kit	51.77	7.78
21 24 16 00-0094	EA	Surface Remote Manual Release, In line And End Of Line	216.94	32.28
21 24 16 00-0095	EA	Recessed Remote Manual Release, End-of-line	165.24	24.64
21 24 16 00-0096	EA	Recessed Remote Manual Release, In Line Kit.....	196.99	29.44
21 24 16 00-0097	EA	Pulley Tee, Remote In Line Only	35.40	5.31
21 24 16 00-0098	EA	Fusible Link Housing Kit With 1 - Bracket, 2 - 1/2" Electrical Metallic Tubing (EMT) Connector, 1 - "S" Hook, 8 - Cable Crimp Sleeve	39.31	5.84
21 24 16 00-0099	EA	Fusible Link 165F To 360F	12.87	1.94
21 24 16 00-0100	EA	Fusible Link 500F.....	20.14	1.94
21 24 16 00-0101	EA	Standard Detector With 1 - 360F link, 2 - "S" Hooks, 2 - Crimp Sleeves	39.31	5.84
21 24 16 00-0102	EA	Standard Detector Kit With 1 - Large Bracket, 2 - "S" Hooks, 2 - Cable Crimp Sleeve	29.25	5.84
21 24 16 00-0103	EA	Quartzoid Link 400 F.....	211.95	31.64
21 24 16 00-0104	EA	Quartzoid Link 500 F.....	211.95	31.64
21 24 16 00-0105	EA	SPDT Micro Switch For Use With A Plus Control Box	75.97	11.28
21 24 16 00-0106	EA	DPDT Micro Switch For Use With A Plus Control Box	132.16	19.71
21 24 16 00-0107	EA	SPDT Micro Switch For Use With A Mechanical Control Box	78.54	11.67
21 24 16 00-0108	EA	DPDT Micro Switch For Use With A Mechanical Control Box.....	136.12	20.36
21 24 16 00-0109	EA	SPDT Micro Switch For Use With PRCB	99.74	14.91
21 24 16 00-0110	EA	DPDT Micro Switch For Use With PRCB	143.88	21.40
21 24 16 00-0111	EA	Pressure Switch, SPDT (Fire Dept. Tie In)	421.41	62.89
21 24 16 00-0112	EA	Circuit Monitor 12 Or 24 Volt DC.....	189.51	28.27
21 24 16 00-0113	EA	Circuit Monitor 120 Volt AC	189.51	28.27
21 24 16 00-0114	EA	Electric Manual Pull Station	138.39	20.61
21 24 16 00-0115	EA	6", 24 Volt DC, Motor Bell	77.30	11.54
21 24 16 00-0116	EA	10", 115 Volt AC Motor Bell	109.72	16.34
21 24 16 00-0117	EA	Fuse, 1.2 For ECH	8.89	1.30
21 24 16 00-0118	EA	Indicator Lamp 12 Or 24 Volt DC.....	39.31	5.84
21 24 16 00-0119	EA	Indicator Lamp 120 Volt AC	39.31	5.84
21 24 16 00-0120	EA	B-10 Manual Station Dual Action, SPDT.....	144.63	21.53
21 24 16 00-0121	EA	B-11 Manual Station Dual Action, DPDT	159.59	23.86
21 24 16 00-0122	EA	Break Rods For B10/B11 Manual Pull Station	4.41	1.69
21 24 16 00-0123	EA	Spare Key For B10/B11 Manual Stations	19.95	2.98
21 24 16 00-0124	EA	MT-24-LSM-VAR Multitone Signal With 15/75cd Strobe, 24 Volt, Flush Grill	214.44	32.03
21 24 16 00-0125	EA	Suppression Abort Station	226.92	33.84
21 24 16 00-0126	EA	Suppression Abort Station With Surface Mount Back Box.....	264.31	39.42
21 24 16 00-0127	EA	Surface Mount Back Box	87.28	12.97
21 24 16 00-0128	EA	Single Hazard Control Unit, 120 Volt AC IP	1,620.79	241.58
21 24 16 00-0129	EA	Single Hazard Control Unit, 240 Volt AC IP	1,620.79	241.58
21 24 16 00-0130	EA	1 Lead Acid Battery; 24 Volt DC, 1.2 A.H.	134.65	20.10
21 24 16 00-0131	EA	Accessory Kit - End-of-line Resistors (10K Ohms, 1/2 W)	5.21	0.91
21 24 16 00-0132	EA	Spare Scorpio Circuit Board	1,171.88	
21 24 16 00-0133	EA	Extra Scorpio Key	19.95	
21 24 16 00-0134	EA	Extra Scorpio Manual.....	12.46	
21 24 16 00-0135	EA	Compression Seal Adapter 3/8" Pipe	33.91	5.06
21 24 16 00-0136	EA	Compression Seal Adapter 1/2" Tubing/ 1/4" Pipe.....	36.82	5.44
21 24 16 00-0137	EA	Compression Seal Adapter 5/8" Tubing/ 3/8" Pipe.....	44.29	6.61
21 24 16 00-0138	EA	Compression Seal Adapter 3/4" Tubing/ 1/2" Pipe.....	47.37	7.00
21 24 16 00-0139	EA	Quik Seal Adapter 3/8" NPT Female	36.82	5.44
21 24 16 00-0140	EA	Quik Seal Adapter 1/2" NPT Female	36.82	5.44



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Dry-Chemical Fire-Extinguishing Systems	21 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0141 EA Quik Seal Adapter 3/4" NPT Female	62.99	9.47
21 24 16 00-0142 EA Quik Seal Adapter 1" NPT Female	83.52	12.44
21 24 16 00-0143 EA Quik Patch (Up To 1-1/8" Diameter)	36.82	5.44
21 24 16 00-0144 EA 1-1/4 Gallon Karbaloy Charge	81.95	
21 24 16 00-0145 EA 2-1/2 Gallon Karbaloy Charge	140.88	
21 24 16 00-0146 EA 4 Gallon Karbaloy Charge	212.93	
21 24 16 00-0147 EA 6 Gallon Karbaloy Charge	311.58	
21 24 16 00-0148 EA Inlet Flushing Adapter	61.09	9.07
21 24 16 00-0149 EA 1/2" Flushing Adapter (Outlet)	61.09	9.07
21 24 16 00-0150 EA 1/8" Flushing Adapter (Outlet)	61.09	9.07
21 24 16 00-0151 EA 1/4" Flushing Adapter (Outlet)	61.09	9.07
21 24 16 00-0152 EA 3/8" Flushing Adapter (Outlet)	61.09	9.07
21 24 16 00-0153 EA Recharge Adapter (Old Style Cylinder Valve Assembly Only)	84.77	
21 24 16 00-0154 EA Instruction Label (In Case Of Fire) - MCB	6.83	
21 24 16 00-0155 EA Caution Sign (Turn On Fan)	8.14	
21 24 16 00-0156 EA Inspection Label (Authorized installers only)	5.77	
21 24 16 00-0157 EA Label, Warning, A+ Control Box	4.20	
21 24 16 00-0158 EA Wet Chemical System Kits, RG-1.25G Kit; #23315	1,072.15	159.89
21 24 16 00-0159 EA Wet Chemical System Kits, RG-2.5G Kit; #23316	1,251.69	186.60
21 24 16 00-0160 EA Wet Chemical System Kits, RG-4GS Kit; #23317	1,558.41	232.38
21 24 16 00-0161 EA Wet Chemical System Kits, RG-4GT Kit; #23318	1,558.41	232.38
21 24 16 00-0162 EA Wet Chemical System Kits, RG-6G Kit; #23319	1,959.84	292.16
21 24 16 00-0163 EA Wet Chemical System Kits, RG Mechanical Control HD (MCH) Kit; #23320	928.80	138.49
21 24 16 00-0164 EA Wet Chemical System Kits, RG Mechanical Control Box (MCB) Kit; #23321	872.69	130.06
21 24 16 00-0165 EA Wet Chemical System Kits, A Plus Control Box Kit; #23322	705.63	105.16
21 24 16 00-0166 EA Wet Chemical System Kits, Valve Rebuild Kit; #23210	1,221.75	182.20
21 24 16 00-0167 EA Wet Chemical System Kits, BMCS-1 Package; #23208	1,119.52	166.89

21 30 Fire Pumps⁽²¹⁾

21 31 Centrifugal Fire Pumps^(21 30)

21 31 13 Electric-Drive, Centrifugal Fire Pumps^(21 31)

21 31 13 00-0001 Electric-Drive Fire Pumps^(21 31 13)

Note: Includes fire pump, motor, motor starter, alarm panel, automatic transfer switch, and controller.

21 31 13 00-0002 EA 20 HP Electric Fire Pump.....	49,937.94	2,524.46
For Duplex Pumping System, Add	47,413.48	
21 31 13 00-0003 EA 30 HP Electric Fire Pump.....	58,095.17	2,840.02
For Duplex Pumping System, Add	55,465.53	
21 31 13 00-0004 EA 40 HP Electric Fire Pump.....	78,868.86	3,155.58
For Duplex Pumping System, Add	75,947.03	
21 31 13 00-0005 EA 50 HP Electric Fire Pump.....	97,235.43	3,513.92
For Duplex Pumping System, Add	93,721.52	
21 31 13 00-0006 EA 75 HP Electric Fire Pump.....	108,505.95	3,833.37
For Duplex Pumping System, Add	104,672.58	

21 31 16 Diesel-Drive, Centrifugal Fire Pumps^(21 31)

21 31 16 00-0001 Diesel-Drive Fire Pumps^(21 31 16)

Note: Pumps shall be stand alone units meeting NFPA-20 specs. Includes fire pump, motor, motor starter, alarm panel, and controller.

21 31 16 00-0002 EA 30 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	73,098.93	2,875.03
21 31 16 00-0003 EA 40 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	82,666.52	3,194.48
21 31 16 00-0004 EA 50 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	86,925.63	3,513.92
21 31 16 00-0005 EA 75 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	98,849.54	3,833.37
21 31 16 00-0006 EA 150 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	105,092.83	4,472.27
21 31 16 00-0007 EA 175 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	113,516.52	5,750.05
21 31 16 00-0008 EA 200 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	123,280.62	6,388.95
21 31 16 00-0009 EA 250 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	140,958.94	7,283.40
21 31 16 00-0010 EA 300 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	168,470.74	7,858.41
21 31 16 00-0011 EA 350 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	197,546.00	8,944.53
21 31 16 00-0012 EA 400 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	234,033.25	9,583.43
21 31 16 00-0013 EA 500 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	263,297.85	10,222.32

END OF SECTION 21

21	21	Fire Suppression
	21 30	Fire Pumps
	21 31	Centrifugal Fire Pumps



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing ⁽²²⁾

22 01 10 Operation and Maintenance of Plumbing Piping and Pumps ^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs ^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps ^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	41.78
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	43.91
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	48.35
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	51.78
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	56.45
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	72.33
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	93.86
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	110.32
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	126.83
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	64.78
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	68.76
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	76.14
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	83.69
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	92.57
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	119.86
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	148.73
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	171.59
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	195.40
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	90.96
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	95.34
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	105.41
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	115.64
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	130.67
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	161.03
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	193.90
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	234.74
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	287.14
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	295.65
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	316.41

22 01 40 Operation and Maintenance of Plumbing Fixtures ^(22 01)

22 01 40 81 Plumbing Fixtures Replacement ^(22 01 40)

22 01 40 81-0001 Removal And Replacement Of Fixture And/Or Trim ^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s). See CSI section 22 42 00 00-0000 for faucet replacement installation and demolition prices.

22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube	71.21
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory	21.82

22 Plumbing**22 01 Operation and Maintenance of Plumbing****22 01 40 Operation and Maintenance of Plumbing Fixtures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 01 40 81-0004	EA	Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair	34.11	
22 01 40 81-0005	EA	Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line	48.19	
22 01 40 81-0006	EA	Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line.....	74.45	
22 01 40 81-0007	EA	Removal And Replacement Of Shower Head, Polished Chrome	45.02	
22 01 40 81-0008	EA	Removal And Replacement Of Shower Arm.....	41.16	
22 01 40 81-0009	EA	Removal And Replacement Of Shower Head.....	44.71	
22 01 40 81-0010	EA	Removal And Replacement Of Shower Knob.....	39.06	
22 01 40 81-0011	EA	Removal And Replacement Of Shower and Tub Control Trim.....	117.89	
		Note: Excludes balancing valve.		
22 01 40 81-0012	EA	Removal And Replacement Of Sink Basket Strainer.....	29.21	
22 01 40 81-0013	EA	Removal And Replacement Of 1-1/2" Sink Drain Without Stopper.....	16.86	
22 01 40 81-0014	EA	Removal And Replacement Of 4-1/2" Sink Drain Without Stopper.....	17.59	
22 01 40 81-0015	EA	Removal And Replacement Of 1-1/2" Sink Drain With Stopper.....	16.86	
22 01 40 81-0016	EA	Removal And Replacement Of 1" Sink Rubber Stopper.....	10.55	
22 01 40 81-0017	EA	Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8".....	31.19	
22 01 40 81-0018	EA	Removal And Replacement Of Sink Trap, Adjustable, 1-1/2".....	48.48	
22 01 40 81-0019	EA	Removal And Replacement Of Lavatory Pop-Up Rod.....	28.40	
22 01 40 81-0020	EA	Removal And Replacement Of Lavatory Pop-up Drain Stopper.....	35.26	
22 01 40 81-0021	EA	Removal And Replacement Of Faucet Handle.....	38.55	
22 01 40 81-0022	EA	Removal And Replacement Of Faucet O-Ring.....	31.28	
22 01 40 81-0023	EA	Removal And Replacement Of 1-1/2" Faucet Hole Cover.....	21.37	
22 01 40 81-0024	EA	Removal And Replacement Of Toilet Ballcock.....	44.57	
22 01 40 81-0025	EA	Removal And Replacement Of Toilet Bowl Ring, Flat Wax.....	8.57	
		Note: Excludes removal of toilet.		
22 01 40 81-0026	EA	Removal And Replacement Of Toilet Tank.....	171.44	
22 01 40 81-0027	EA	Removal And Replacement Of 10" Toilet Bowl.....	222.38	
22 01 40 81-0028	EA	Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl.....	236.65	
22 01 40 81-0029	EA	Removal And Replacement Of 12" Toilet Bowl.....	250.41	
22 01 40 81-0030	EA	Removal And Replacement Of 18", Elongated, Toilet Bowl.....	227.18	
22 01 40 81-0031	EA	Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers.....	28.76	
22 01 40 81-0032	EA	Removal And Replacement Of Toilet Flapper With Chain.....	20.08	
22 01 40 81-0033	EA	Removal And Replacement Of Toilet Flush Tank Lever.....	22.08	
22 01 40 81-0034	EA	Removal And Replacement Of Elongated Toilet Seat With Lid.....	107.30	
22 01 40 81-0035	EA	Removal And Replacement Of Elongated Toilet Seat Without Lid.....	91.55	
22 01 40 81-0036	EA	Removal And Replacement Of Handicap Toilet Seat, Complete With Rails.....	157.87	
22 01 40 81-0037	EA	Removal And Replacement Of Diverter Tub Spout.....	54.97	
22 01 40 81-0038	EA	Removal And Replacement Of Tub Spout.....	42.11	
22 01 40 81-0039	EA	Removal And Replacement Of 2" Tub Stopper.....	12.72	
22 01 40 81-0040	EA	Removal And Replacement Of Tub Waste/Overflow.....	85.41	
22 01 40 81-0041	EA	Removal And Replacement Of Tub Stem Bonnet Assembly.....	45.65	
22 01 40 81-0042	EA	Removal And Replacement Of Faucet Bonnet.....	49.54	
22 01 40 81-0043	EA	Removal And Replacement Of Faucet Diverter Stem.....	31.40	
22 01 40 81-0044	EA	Removal And Replacement Of Faucet Diverter Stem And Bonnet.....	41.26	
22 01 40 81-0045	EA	Removal And Replacement Of Faucet Spout.....	45.96	
22 01 40 81-0046	EA	Removal And Replacement Of Faucet Stem.....	34.22	
22 01 40 81-0047	EA	Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard.....	179.20	
22 01 40 81-0048	EA	Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve.....	218.59	
22 01 40 81-0049	EA	Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve.....	142.98	

22 05 Common Work Results for Plumbing ⁽²²⁾**22 05 13 Common Motor Requirements for Plumbing Equipment** ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 16 Expansion Fittings and Loops for Plumbing Piping ^(22 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

22 05 17 Sleeves and Sleeve Seals for Plumbing Piping ^(22 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

22 05 19 Meters and Gages for Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages, 33 19 00 00-0000 for water utility service metering.

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for valves.

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)**22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves** ^(22 05 23 00-0001)

22 05 23 00-0003	EA	3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	172.28	15.50
22 05 23 00-0004	EA	1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	196.39	17.61

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006	EA	1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	231.44	18.74
22 05 23 00-0007	EA	1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	307.01	21.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves <small>(22 05 23 00-0001)</small>		
22 05 23 00-0009 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	208.96	15.50
22 05 23 00-0010 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	221.86	17.61
22 05 23 00-0011 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	251.81	18.74
22 05 23 00-0012 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	337.57	21.69
22 05 23 00-0013 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	739.32	25.63
22 05 23 00-0014 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	885.48	34.50
22 05 23 00-0015 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,141.89	40.20
22 05 23 00-0016 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,322.16	45.38
22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves <small>(22 05 23 00-0001)</small>		
22 05 23 00-0018 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,049.78	187.75
22 05 23 00-0019 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,289.61	220.45
22 05 23 00-0020 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,838.51	369.57
22 05 23 00-0021 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,914.80	415.01
22 05 23 00-0022 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,688.46	530.29
22 05 23 00-0023 Emergency Shut-Off Valve With Fusible Link <small>(22 05 23)</small>		
22 05 23 00-0024 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) <small>(22 05 23 00-0023)</small>		
<small>Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.</small>		
22 05 23 00-0025 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	76.30	22.68
<small>For Work In Restricted Working Space, Add</small>		
	12.30	
22 05 23 00-0026 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	78.51	23.94
<small>For Work In Restricted Working Space, Add</small>		
	12.97	
22 05 23 00-0027 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	118.07	22.68
<small>For Work In Restricted Working Space, Add</small>		
	13.63	
22 05 23 00-0028 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	222.49	30.56
<small>For Work In Restricted Working Space, Add</small>		
	18.37	
22 05 23 00-0029 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	531.33	37.04
<small>For Work In Restricted Working Space, Add</small>		
	22.24	
22 05 23 00-0030 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(22 05 23 00-0023)</small>		
<small>Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.</small>		
22 05 23 00-0031 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	424.14	21.69
22 05 23 00-0032 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	461.65	25.63
22 05 23 00-0033 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	769.67	40.20
22 05 23 00-0034 Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(22 05 23 00-0023)</small>		
<small>Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.</small>		
22 05 23 00-0035 EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	651.58	187.75
22 05 23 00-0036 EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	1,022.94	220.45
22 05 23 00-0037 EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	2,279.43	369.57
22 05 29 Hangers and Supports for Plumbing Piping and Equipment <small>(22 05)</small>		
<small>See CSI section 23 05 29 00-0000 for hangers and supports.</small>		
22 05 33 Heat Tracing for Plumbing Piping <small>(22 05)</small>		
<small>See CSI section 23 83 13 00-0000 for heat tracing cables.</small>		
22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment <small>(22 05)</small>		
22 05 48 13 Vibration Controls for Plumbing Piping and Equipment <small>(22 05 48)</small>		
<small>See CSI section 23 05 48 13-0000 for vibration and seismic control.</small>		
22 05 53 Identification for Plumbing Piping and Equipment <small>(22 05)</small>		
<small>See CSI section 23 05 53 00-0000 for identification.</small>		
22 05 76 Facility Drainage Piping Cleanouts <small>(22 05)</small>		
22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover <small>(22 05 76)</small>		
<small>Note: For floor installation.</small>		
22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover <small>(22 05 76 00-0001)</small>		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0003	EA		2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	660.67	74.93
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0004	EA		3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	719.85	93.94
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0005	EA		4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	897.17	113.52
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0006	EA		5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,271.10	127.04
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0007	EA		6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,556.01	137.60
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0008			Cast Iron Heavy Duty Cleanout With Plug And Round Cover <small>(22 05 76 00-0001)</small>		
22 05 76 00-0009	EA		2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	756.17	74.93
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0010	EA		3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	816.77	93.80
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0011	EA		4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	994.19	113.52
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0012	EA		5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,368.19	127.04
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0013	EA		6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,652.99	137.60
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0014			Wall Cover For Cleanout <small>(22 05 76)</small>		
			Note: Cover and screw only.		
22 05 76 00-0015			Round Access Cover, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
			Note: Cover and screw only.		
22 05 76 00-0016	EA		4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	104.54	23.52
			<i>For Stainless Steel, Add</i>	9.00	
			<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0017	EA		5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	113.94	28.17
			<i>For Stainless Steel, Add</i>	9.00	
			<i>For Vandal Proof Screws, Add</i>	19.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed..... <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	143.72 9.00 19.50	31.69
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed..... <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	235.66 9.00 19.50	35.21
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed..... <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	348.81 9.00 19.50	38.73
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	498.93 19.50 22.50	23.52
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	714.73 19.50 22.50	24.65
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	763.58 19.50 22.50	26.06
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	854.32 19.50 22.50	29.58
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	507.75 19.50 22.50	23.52
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	727.72 19.50 22.50	24.65
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	777.47 19.50 22.50	26.06
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	869.84 19.50 22.50	29.58
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	492.82 19.50 22.50	23.52
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	678.65 19.50 22.50	24.65
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	958.81 19.50 22.50	26.06
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,159.98 19.50 22.50	29.58
22 05 76 00-0036 Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	488.95 18.00 45.00	74.93
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	562.18 18.00 45.00	93.80
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	730.23 18.00 45.00	113.52
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,687.84 18.00 45.00	137.60
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	828.08 18.00 45.00	74.93

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	901.31	93.80
For Vandal Proof Screws, Add	18.00	
For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	1,046.85	113.52
For Vandal Proof Screws, Add	18.00	
For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	2,145.89	137.60
For Vandal Proof Screws, Add	18.00	
For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug.....	400.65	61.26
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug.....	447.29	66.90
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug.....	595.64	88.03
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug.....	883.66	104.23
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug.....	1,484.36	123.23
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	82.03	17.61
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug.....	97.58	19.16
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0057 EA 3" Threaded Bronze Plug.....	163.30	21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug.....	183.09	24.65
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0059 EA 4" Threaded Bronze Plug.....	207.11	28.17
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0060 EA 5" Threaded Bronze Plug.....	288.45	31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0061 EA 6" Threaded Bronze Plug.....	420.69	35.21
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0062 EA 8" Threaded Bronze Plug.....	703.50	38.73
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0063 EA 10" Threaded Bronze Plug.....	1,007.65	42.26
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head.....	38.38	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head.....	38.93	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head.....	42.38	19.16
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head.....	47.81	21.12
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head.....	56.34	24.65
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head.....	65.88	28.17
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head.....	70.63	29.67
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head.....	75.73	31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head.....	96.15	35.21
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head.....	37.95	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head.....	38.55	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head.....	43.57	19.16
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head.....	47.99	21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head.....	55.83	24.65
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head.....	65.07	28.17
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head.....	75.28	31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head.....	88.98	35.21
For Plug Tapped For Center Screw, Add	9.50	

22 07 Plumbing Insulation (22)**22 07 16 Plumbing Equipment Insulation (22 07)**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 16 00-0001			Lavatory Insulation <small>(22 07 16)</small>		
22 07 16 00-0002	EA		Neoprene Insulation Kit For Under Lavatories.....	292.30	29.55
22 07 19			Plumbing Piping Insulation <small>(22 07)</small>		
22 07 19 00-0001			Fiberglass Pipe Insulation <small>(22 07 19)</small>		
			Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0002			1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0003	LF		1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.44	2.89
			<i>For Single Layer Of Felt Finish, Add</i>	0.17	
			<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-0004	LF		3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.62	2.89
			<i>For Single Layer Of Felt Finish, Add</i>	0.19	
			<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-0005	LF		1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.22	3.02
			<i>For Single Layer Of Felt Finish, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	2.49	
22 07 19 00-0006	LF		1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.57	3.15
			<i>For Single Layer Of Felt Finish, Add</i>	0.22	
			<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0007	LF		1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.86	3.15
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	2.58	
22 07 19 00-0008	LF		2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.48	3.28
			<i>For Single Layer Of Felt Finish, Add</i>	0.25	
			<i>For Work In Restricted Working Space, Add</i>	2.72	
22 07 19 00-0009	LF		2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.01	3.41
			<i>For Single Layer Of Felt Finish, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	2.77	
22 07 19 00-0010	LF		3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.64	3.54
			<i>For Single Layer Of Felt Finish, Add</i>	0.33	
			<i>For Work In Restricted Working Space, Add</i>	2.86	
22 07 19 00-0011	LF		4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.29	3.81
			<i>For Single Layer Of Felt Finish, Add</i>	0.42	
			<i>For Work In Restricted Working Space, Add</i>	3.10	
22 07 19 00-0012	LF		6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.84	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.51	
			<i>For Work In Restricted Working Space, Add</i>	3.61	
22 07 19 00-0013			1" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0014	LF		1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.72	3.94
			<i>For Single Layer Of Felt Finish, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-0015	LF		3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.00	3.94
			<i>For Single Layer Of Felt Finish, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-0016	LF		1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.21	3.94
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	3.29	
22 07 19 00-0017	LF		1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.65	4.07
			<i>For Single Layer Of Felt Finish, Add</i>	0.27	
			<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-0018	LF		1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.01	4.07
			<i>For Single Layer Of Felt Finish, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	3.38	
22 07 19 00-0019	LF		2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.57	4.21
			<i>For Single Layer Of Felt Finish, Add</i>	0.32	
			<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0020	LF		2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.34	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.35	
			<i>For Work In Restricted Working Space, Add</i>	3.61	
22 07 19 00-0021	LF		3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.09	4.60
			<i>For Single Layer Of Felt Finish, Add</i>	0.39	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0022	LF		4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.10	4.86
			<i>For Single Layer Of Felt Finish, Add</i>	0.51	
			<i>For Work In Restricted Working Space, Add</i>	3.99	
22 07 19 00-0023	LF		6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.88	5.64
			<i>For Single Layer Of Felt Finish, Add</i>	0.62	
			<i>For Work In Restricted Working Space, Add</i>	4.50	
22 07 19 00-0024	LF		8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.61	6.31
			<i>For Single Layer Of Felt Finish, Add</i>	0.88	
			<i>For Work In Restricted Working Space, Add</i>	5.16	
22 07 19 00-0025	LF		10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.14	7.49
			<i>For Single Layer Of Felt Finish, Add</i>	1.03	
			<i>For Work In Restricted Working Space, Add</i>	6.10	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0026	LF		12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.60	8.53
			<i>For Single Layer Of Felt Finish, Add</i>	1.17	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
22 07 19 00-0027	LF		14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.19	9.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.36	
			<i>For Work In Restricted Working Space, Add</i>	7.28	
22 07 19 00-0028			1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029	LF		1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.17	4.05
			<i>For Single Layer Of Felt Finish, Add</i>	0.41	
			<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-0030	LF		3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.34	4.05
			<i>For Single Layer Of Felt Finish, Add</i>	0.43	
			<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-0031	LF		1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.22	4.30
			<i>For Single Layer Of Felt Finish, Add</i>	0.45	
			<i>For Work In Restricted Working Space, Add</i>	3.57	
22 07 19 00-0032	LF		1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.77	4.39
			<i>For Single Layer Of Felt Finish, Add</i>	0.49	
			<i>For Work In Restricted Working Space, Add</i>	3.64	
22 07 19 00-0033	LF		1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.24	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.51	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0034	LF		2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.37	4.70
			<i>For Single Layer Of Felt Finish, Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	3.91	
22 07 19 00-0035	LF		2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.12	4.78
			<i>For Single Layer Of Felt Finish, Add</i>	0.62	
			<i>For Work In Restricted Working Space, Add</i>	3.98	
22 07 19 00-0036	LF		3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.75	4.95
			<i>For Single Layer Of Felt Finish, Add</i>	0.63	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
22 07 19 00-0037	LF		4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.75	5.36
			<i>For Single Layer Of Felt Finish, Add</i>	0.73	
			<i>For Work In Restricted Working Space, Add</i>	4.45	
22 07 19 00-0038	LF		6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.20	6.25
			<i>For Single Layer Of Felt Finish, Add</i>	0.83	
			<i>For Work In Restricted Working Space, Add</i>	5.19	
22 07 19 00-0039	LF		8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.16	6.59
			<i>For Single Layer Of Felt Finish, Add</i>	1.04	
			<i>For Work In Restricted Working Space, Add</i>	5.48	
22 07 19 00-0040	LF		10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.34	7.89
			<i>For Single Layer Of Felt Finish, Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0041	LF		12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	39.04	9.20
			<i>For Single Layer Of Felt Finish, Add</i>	1.43	
			<i>For Work In Restricted Working Space, Add</i>	7.64	
22 07 19 00-0042	LF		14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	43.63	10.07
			<i>For Single Layer Of Felt Finish, Add</i>	1.65	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 07 19 00-0043			2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044	LF		1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.51	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.65	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0045	LF		3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.71	4.47
			<i>For Single Layer Of Felt Finish, Add</i>	0.67	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-0046	LF		1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.32	4.60
			<i>For Single Layer Of Felt Finish, Add</i>	0.72	
			<i>For Work In Restricted Working Space, Add</i>	3.75	
22 07 19 00-0047	LF		1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.86	4.60
			<i>For Single Layer Of Felt Finish, Add</i>	0.75	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0048	LF		1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.42	4.73
			<i>For Single Layer Of Felt Finish, Add</i>	0.80	
			<i>For Work In Restricted Working Space, Add</i>	3.85	
22 07 19 00-0049	LF		2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.19	4.86
			<i>For Single Layer Of Felt Finish, Add</i>	0.83	
			<i>For Work In Restricted Working Space, Add</i>	3.99	
22 07 19 00-0050	LF		2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.24	4.99
			<i>For Single Layer Of Felt Finish, Add</i>	0.89	
			<i>For Work In Restricted Working Space, Add</i>	4.13	
22 07 19 00-0051	LF		3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.38	5.25
			<i>For Single Layer Of Felt Finish, Add</i>	0.96	
			<i>For Work In Restricted Working Space, Add</i>	4.27	
22 07 19 00-0052	LF		4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.49	5.51
			<i>For Single Layer Of Felt Finish, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	4.50	
22 07 19 00-0053	LF		6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.18	6.47
			<i>For Single Layer Of Felt Finish, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	5.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0054 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.06	6.84
<i>For Single Layer Of Felt Finish, Add</i>	1.58	
<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0055 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.76	8.18
<i>For Single Layer Of Felt Finish, Add</i>	1.89	
<i>For Work In Restricted Working Space, Add</i>	6.83	
22 07 19 00-0056 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.01	9.81
<i>For Single Layer Of Felt Finish, Add</i>	2.08	
<i>For Work In Restricted Working Space, Add</i>	8.17	
22 07 19 00-0057 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.37	10.70
<i>For Single Layer Of Felt Finish, Add</i>	2.35	
<i>For Work In Restricted Working Space, Add</i>	11.40	
22 07 19 00-0058 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	63.47	12.54
<i>For Single Layer Of Felt Finish, Add</i>	2.67	
<i>For Work In Restricted Working Space, Add</i>	11.40	
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.16	13.17
<i>For Single Layer Of Felt Finish, Add</i>	3.18	
<i>For Work In Restricted Working Space, Add</i>	11.97	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.57	15.05
<i>For Single Layer Of Felt Finish, Add</i>	3.57	
<i>For Work In Restricted Working Space, Add</i>	13.68	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	92.75	18.19
<i>For Single Layer Of Felt Finish, Add</i>	3.95	
<i>For Work In Restricted Working Space, Add</i>	16.53	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.81	5.25
<i>For Single Layer Of Felt Finish, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.11	5.25
<i>For Single Layer Of Felt Finish, Add</i>	0.93	
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.97	5.25
<i>For Single Layer Of Felt Finish, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	4.34	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.61	5.38
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	4.37	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.28	5.38
<i>For Single Layer Of Felt Finish, Add</i>	1.11	
<i>For Work In Restricted Working Space, Add</i>	4.41	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.33	5.64
<i>For Single Layer Of Felt Finish, Add</i>	1.16	
<i>For Work In Restricted Working Space, Add</i>	4.59	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.77	5.77
<i>For Single Layer Of Felt Finish, Add</i>	1.25	
<i>For Work In Restricted Working Space, Add</i>	4.75	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.08	6.04
<i>For Single Layer Of Felt Finish, Add</i>	1.33	
<i>For Work In Restricted Working Space, Add</i>	4.91	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.05	6.31
<i>For Single Layer Of Felt Finish, Add</i>	1.55	
<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.73	6.70
<i>For Single Layer Of Felt Finish, Add</i>	1.80	
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.48	8.01
<i>For Single Layer Of Felt Finish, Add</i>	2.79	
<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.79	9.20
<i>For Single Layer Of Felt Finish, Add</i>	3.42	
<i>For Work In Restricted Working Space, Add</i>	7.57	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.03	11.43
<i>For Single Layer Of Felt Finish, Add</i>	3.64	
<i>For Work In Restricted Working Space, Add</i>	9.41	
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.51	12.61
<i>For Single Layer Of Felt Finish, Add</i>	4.23	
<i>For Work In Restricted Working Space, Add</i>	10.28	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.12	16.02
<i>For Single Layer Of Felt Finish, Add</i>	4.66	
<i>For Work In Restricted Working Space, Add</i>	13.13	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	94.64	16.81
<i>For Single Layer Of Felt Finish, Add</i>	5.11	
<i>For Work In Restricted Working Space, Add</i>	13.79	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.45	19.18
<i>For Single Layer Of Felt Finish, Add</i>	5.77	
<i>For Work In Restricted Working Space, Add</i>	15.76	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.60	23.16
<i>For Single Layer Of Felt Finish, Add</i>	6.63	
<i>For Work In Restricted Working Space, Add</i>	19.04	

22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0082	LF		1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.16	5.81
			<i>For Single Layer Of Felt Finish, Add</i>	0.99	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
22 07 19 00-0083	LF		3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.48	5.81
			<i>For Single Layer Of Felt Finish, Add</i>	1.02	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
22 07 19 00-0084	LF		1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.36	5.86
			<i>For Single Layer Of Felt Finish, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	4.78	
22 07 19 00-0085	LF		1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.05	5.90
			<i>For Single Layer Of Felt Finish, Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	4.81	
22 07 19 00-0086	LF		1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.83	5.97
			<i>For Single Layer Of Felt Finish, Add</i>	1.22	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
22 07 19 00-0087	LF		2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.91	6.19
			<i>For Single Layer Of Felt Finish, Add</i>	1.27	
			<i>For Work In Restricted Working Space, Add</i>	5.04	
22 07 19 00-0088	LF		2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.48	6.40
			<i>For Single Layer Of Felt Finish, Add</i>	1.38	
			<i>For Work In Restricted Working Space, Add</i>	5.21	
22 07 19 00-0089	LF		3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.94	6.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	5.40	
22 07 19 00-0090	LF		4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	35.23	7.00
			<i>For Single Layer Of Felt Finish, Add</i>	1.70	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0091	LF		6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	40.35	7.95
			<i>For Single Layer Of Felt Finish, Add</i>	1.97	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 07 19 00-0092	LF		8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	53.25	8.85
			<i>For Single Layer Of Felt Finish, Add</i>	3.06	
			<i>For Work In Restricted Working Space, Add</i>	7.22	
22 07 19 00-0093	LF		10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	63.48	10.21
			<i>For Single Layer Of Felt Finish, Add</i>	3.75	
			<i>For Work In Restricted Working Space, Add</i>	8.33	
22 07 19 00-0094	LF		12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	72.55	12.70
			<i>For Single Layer Of Felt Finish, Add</i>	3.99	
			<i>For Work In Restricted Working Space, Add</i>	10.35	
22 07 19 00-0095	LF		14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	81.86	13.86
			<i>For Single Layer Of Felt Finish, Add</i>	4.64	
			<i>For Work In Restricted Working Space, Add</i>	11.30	
22 07 19 00-0096	LF		16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	96.83	17.72
			<i>For Single Layer Of Felt Finish, Add</i>	5.11	
			<i>For Work In Restricted Working Space, Add</i>	14.44	
22 07 19 00-0097	LF		18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	103.98	18.61
			<i>For Single Layer Of Felt Finish, Add</i>	5.61	
			<i>For Work In Restricted Working Space, Add</i>	15.17	
22 07 19 00-0098	LF		20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	118.09	21.27
			<i>For Single Layer Of Felt Finish, Add</i>	6.33	
			<i>For Work In Restricted Working Space, Add</i>	17.34	
22 07 19 00-0099	LF		24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	139.11	25.68
			<i>For Single Layer Of Felt Finish, Add</i>	7.28	
			<i>For Work In Restricted Working Space, Add</i>	20.95	
22 07 19 00-0100			3-1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0101	LF		1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.16	6.31
			<i>For Single Layer Of Felt Finish, Add</i>	1.04	
			<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0102	LF		3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.53	6.31
			<i>For Single Layer Of Felt Finish, Add</i>	1.08	
			<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0103	LF		1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.79	6.31
			<i>For Single Layer Of Felt Finish, Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	5.21	
22 07 19 00-0104	LF		1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.52	6.44
			<i>For Single Layer Of Felt Finish, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	5.25	
22 07 19 00-0105	LF		1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.42	6.44
			<i>For Single Layer Of Felt Finish, Add</i>	1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.32	
22 07 19 00-0106	LF		2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.53	6.70
			<i>For Single Layer Of Felt Finish, Add</i>	1.39	
			<i>For Work In Restricted Working Space, Add</i>	5.49	
22 07 19 00-0107	LF		2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.27	6.96
			<i>For Single Layer Of Felt Finish, Add</i>	1.50	
			<i>For Work In Restricted Working Space, Add</i>	5.69	
22 07 19 00-0108	LF		3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.77	7.22
			<i>For Single Layer Of Felt Finish, Add</i>	1.59	
			<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0109	LF		4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	38.50	7.62
			<i>For Single Layer Of Felt Finish, Add</i>	1.86	
			<i>For Work In Restricted Working Space, Add</i>	6.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0110 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.05	8.66
<i>For Single Layer Of Felt Finish, Add</i>	2.15	
<i>For Work In Restricted Working Space, Add</i>	7.07	
22 07 19 00-0111 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	58.14	9.59
<i>For Single Layer Of Felt Finish, Add</i>	3.35	
<i>For Work In Restricted Working Space, Add</i>	7.87	
22 07 19 00-0112 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	69.34	11.03
<i>For Single Layer Of Felt Finish, Add</i>	4.10	
<i>For Work In Restricted Working Space, Add</i>	9.08	
22 07 19 00-0113 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.23	13.78
<i>For Single Layer Of Felt Finish, Add</i>	4.37	
<i>For Work In Restricted Working Space, Add</i>	11.30	
22 07 19 00-0114 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.43	15.10
<i>For Single Layer Of Felt Finish, Add</i>	5.07	
<i>For Work In Restricted Working Space, Add</i>	12.33	
22 07 19 00-0115 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	105.78	19.18
<i>For Single Layer Of Felt Finish, Add</i>	5.59	
<i>For Work In Restricted Working Space, Add</i>	15.76	
22 07 19 00-0116 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	113.56	20.22
<i>For Single Layer Of Felt Finish, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 07 19 00-0117 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	129.00	23.11
<i>For Single Layer Of Felt Finish, Add</i>	6.92	
<i>For Work In Restricted Working Space, Add</i>	18.92	
22 07 19 00-0118 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	151.93	27.84
<i>For Single Layer Of Felt Finish, Add</i>	7.96	
<i>For Work In Restricted Working Space, Add</i>	22.85	
22 07 19 00-0119 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0120 LF 1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.74	7.09
<i>For Single Layer Of Felt Finish, Add</i>	1.21	
<i>For Work In Restricted Working Space, Add</i>	5.76	
22 07 19 00-0121 LF 3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.15	7.09
<i>For Single Layer Of Felt Finish, Add</i>	1.26	
<i>For Work In Restricted Working Space, Add</i>	5.76	
22 07 19 00-0122 LF 1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.33	7.09
<i>For Single Layer Of Felt Finish, Add</i>	1.35	
<i>For Work In Restricted Working Space, Add</i>	5.86	
22 07 19 00-0123 LF 1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.29	7.22
<i>For Single Layer Of Felt Finish, Add</i>	1.42	
<i>For Work In Restricted Working Space, Add</i>	5.92	
22 07 19 00-0124 LF 1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.64	7.49
<i>For Single Layer Of Felt Finish, Add</i>	1.50	
<i>For Work In Restricted Working Space, Add</i>	6.11	
22 07 19 00-0125 LF 2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.90	7.75
<i>For Single Layer Of Felt Finish, Add</i>	1.56	
<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0126 LF 2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.42	7.75
<i>For Single Layer Of Felt Finish, Add</i>	1.69	
<i>For Work In Restricted Working Space, Add</i>	6.40	
22 07 19 00-0127 LF 3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.26	8.14
<i>For Single Layer Of Felt Finish, Add</i>	1.80	
<i>For Work In Restricted Working Space, Add</i>	6.63	
22 07 19 00-0128 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.27	8.53
<i>For Single Layer Of Felt Finish, Add</i>	2.09	
<i>For Work In Restricted Working Space, Add</i>	7.00	
22 07 19 00-0129 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.55	9.72
<i>For Single Layer Of Felt Finish, Add</i>	2.42	
<i>For Work In Restricted Working Space, Add</i>	7.94	
22 07 19 00-0130 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.41	10.50
<i>For Single Layer Of Felt Finish, Add</i>	3.77	
<i>For Work In Restricted Working Space, Add</i>	8.86	
22 07 19 00-0131 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	78.03	12.48
<i>For Single Layer Of Felt Finish, Add</i>	4.61	
<i>For Work In Restricted Working Space, Add</i>	10.23	
22 07 19 00-0132 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.15	15.49
<i>For Single Layer Of Felt Finish, Add</i>	4.91	
<i>For Work In Restricted Working Space, Add</i>	12.71	
22 07 19 00-0133 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	100.63	16.94
<i>For Single Layer Of Felt Finish, Add</i>	5.71	
<i>For Work In Restricted Working Space, Add</i>	13.88	
22 07 19 00-0134 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.06	21.67
<i>For Single Layer Of Felt Finish, Add</i>	6.29	
<i>For Work In Restricted Working Space, Add</i>	17.75	
22 07 19 00-0135 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	127.69	22.72
<i>For Single Layer Of Felt Finish, Add</i>	6.90	
<i>For Work In Restricted Working Space, Add</i>	18.59	
22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	143.40	26.00
<i>For Single Layer Of Felt Finish, Add</i>	7.61	
<i>For Work In Restricted Working Space, Add</i>	21.28	
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	170.95	31.39
<i>For Single Layer Of Felt Finish, Add</i>	8.95	
<i>For Work In Restricted Working Space, Add</i>	25.71	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0138	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	195.60	37.03
			<i>For Single Layer Of Felt Finish, Add</i>	9.93	
			<i>For Work In Restricted Working Space, Add</i>	30.30	
22 07 19 00-0139	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	221.14	43.59
			<i>For Single Layer Of Felt Finish, Add</i>	10.73	
			<i>For Work In Restricted Working Space, Add</i>	35.69	
22 07 19 00-0140	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	250.25	51.48
			<i>For Single Layer Of Felt Finish, Add</i>	11.48	
			<i>For Work In Restricted Working Space, Add</i>	42.27	
22 07 19 00-0141	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	303.38	65.44
			<i>For Single Layer Of Felt Finish, Add</i>	13.04	
			<i>For Work In Restricted Working Space, Add</i>	53.75	
22 07 19 00-0142	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	356.52	79.71
			<i>For Single Layer Of Felt Finish, Add</i>	14.61	
			<i>For Work In Restricted Working Space, Add</i>	65.22	
22 07 19 00-0143	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	384.11	87.59
			<i>For Single Layer Of Felt Finish, Add</i>	15.17	
			<i>For Work In Restricted Working Space, Add</i>	71.89	
22 07 19 00-0144	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	408.79	94.29
			<i>For Single Layer Of Felt Finish, Add</i>	15.78	
			<i>For Work In Restricted Working Space, Add</i>	77.55	
22 07 19 00-0145			4-1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0146	LF		1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.75	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.38	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0147	LF		3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.23	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.43	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0148	LF		1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	35.57	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.53	
			<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0149	LF		1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	36.64	7.77
			<i>For Single Layer Of Felt Finish, Add</i>	1.62	
			<i>For Work In Restricted Working Space, Add</i>	6.37	
22 07 19 00-0150	LF		1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	38.13	8.05
			<i>For Single Layer Of Felt Finish, Add</i>	1.71	
			<i>For Work In Restricted Working Space, Add</i>	6.57	
22 07 19 00-0151	LF		2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	39.53	8.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.78	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 07 19 00-0152	LF		2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	41.24	8.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.92	
			<i>For Work In Restricted Working Space, Add</i>	6.88	
22 07 19 00-0153	LF		3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	43.27	8.75
			<i>For Single Layer Of Felt Finish, Add</i>	2.05	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0154	LF		4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	47.77	9.18
			<i>For Single Layer Of Felt Finish, Add</i>	2.38	
			<i>For Work In Restricted Working Space, Add</i>	7.52	
22 07 19 00-0155	LF		6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	54.71	10.44
			<i>For Single Layer Of Felt Finish, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 07 19 00-0156	LF		8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	72.57	11.29
			<i>For Single Layer Of Felt Finish, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	9.52	
22 07 19 00-0157	LF		10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	86.63	13.41
			<i>For Single Layer Of Felt Finish, Add</i>	5.25	
			<i>For Work In Restricted Working Space, Add</i>	11.00	
22 07 19 00-0158	LF		12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	98.77	16.66
			<i>For Single Layer Of Felt Finish, Add</i>	5.59	
			<i>For Work In Restricted Working Space, Add</i>	13.66	
22 07 19 00-0159	LF		14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	111.59	18.21
			<i>For Single Layer Of Felt Finish, Add</i>	6.50	
			<i>For Work In Restricted Working Space, Add</i>	14.92	
22 07 19 00-0160	LF		16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	131.74	23.29
			<i>For Single Layer Of Felt Finish, Add</i>	7.16	
			<i>For Work In Restricted Working Space, Add</i>	19.07	
22 07 19 00-0161	LF		18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	141.40	24.42
			<i>For Single Layer Of Felt Finish, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	19.99	
22 07 19 00-0162	LF		20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	158.69	27.95
			<i>For Single Layer Of Felt Finish, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	22.88	
22 07 19 00-0163	LF		24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	189.12	33.73
			<i>For Single Layer Of Felt Finish, Add</i>	10.18	
			<i>For Work In Restricted Working Space, Add</i>	27.64	
22 07 19 00-0164	LF		26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	216.20	39.81
			<i>For Single Layer Of Felt Finish, Add</i>	11.30	
			<i>For Work In Restricted Working Space, Add</i>	32.58	
22 07 19 00-0165	LF		28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	244.12	46.86
			<i>For Single Layer Of Felt Finish, Add</i>	12.21	
			<i>For Work In Restricted Working Space, Add</i>	38.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0166 LF 30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	275.87	55.33
For Single Layer Of Felt Finish, Add	13.06	
For Work In Restricted Working Space, Add	45.44	
22 07 19 00-0167 LF 36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	333.93	70.35
For Single Layer Of Felt Finish, Add	14.84	
For Work In Restricted Working Space, Add	57.78	
22 07 19 00-0168 LF 42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	391.99	85.69
For Single Layer Of Felt Finish, Add	16.62	
For Work In Restricted Working Space, Add	70.12	
22 07 19 00-0169 LF 44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	421.97	94.16
For Single Layer Of Felt Finish, Add	17.26	
For Work In Restricted Working Space, Add	77.28	
22 07 19 00-0170 LF 46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	448.86	101.35
For Single Layer Of Felt Finish, Add	17.95	
For Work In Restricted Working Space, Add	83.36	
22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0172 LF 1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.46	8.38
For Single Layer Of Felt Finish, Add	1.55	
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0173 LF 3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.98	8.38
For Single Layer Of Felt Finish, Add	1.61	
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0174 LF 1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.47	8.38
For Single Layer Of Felt Finish, Add	1.72	
For Work In Restricted Working Space, Add	6.92	
22 07 19 00-0175 LF 1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.69	8.54
For Single Layer Of Felt Finish, Add	1.82	
For Work In Restricted Working Space, Add	7.01	
22 07 19 00-0176 LF 1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.36	8.85
For Single Layer Of Felt Finish, Add	1.92	
For Work In Restricted Working Space, Add	7.23	
22 07 19 00-0177 LF 2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.88	9.17
For Single Layer Of Felt Finish, Add	2.00	
For Work In Restricted Working Space, Add	7.45	
22 07 19 00-0178 LF 2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.81	9.17
For Single Layer Of Felt Finish, Add	2.16	
For Work In Restricted Working Space, Add	7.56	
22 07 19 00-0179 LF 3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.09	9.63
For Single Layer Of Felt Finish, Add	2.31	
For Work In Restricted Working Space, Add	7.84	
22 07 19 00-0180 LF 4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.11	10.09
For Single Layer Of Felt Finish, Add	2.68	
For Work In Restricted Working Space, Add	8.28	
22 07 19 00-0181 LF 6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.85	11.49
For Single Layer Of Felt Finish, Add	3.10	
For Work In Restricted Working Space, Add	9.39	
22 07 19 00-0182 LF 8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.83	12.42
For Single Layer Of Felt Finish, Add	4.82	
For Work In Restricted Working Space, Add	10.47	
22 07 19 00-0183 LF 10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.54	14.75
For Single Layer Of Felt Finish, Add	5.90	
For Work In Restricted Working Space, Add	12.10	
22 07 19 00-0184 LF 12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	109.99	18.32
For Single Layer Of Felt Finish, Add	6.29	
For Work In Restricted Working Space, Add	15.02	
22 07 19 00-0185 LF 14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	124.30	20.03
For Single Layer Of Felt Finish, Add	7.31	
For Work In Restricted Working Space, Add	16.41	
22 07 19 00-0186 LF 16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	146.61	25.62
For Single Layer Of Felt Finish, Add	8.05	
For Work In Restricted Working Space, Add	20.98	
22 07 19 00-0187 LF 18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	157.40	26.86
For Single Layer Of Felt Finish, Add	8.83	
For Work In Restricted Working Space, Add	21.99	
22 07 19 00-0188 LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	176.62	30.75
For Single Layer Of Felt Finish, Add	9.74	
For Work In Restricted Working Space, Add	25.17	
22 07 19 00-0189 LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	210.45	37.11
For Single Layer Of Felt Finish, Add	11.46	
For Work In Restricted Working Space, Add	30.41	
22 07 19 00-0190 LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	240.50	43.79
For Single Layer Of Felt Finish, Add	12.71	
For Work In Restricted Working Space, Add	35.83	
22 07 19 00-0191 LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	271.44	51.55
For Single Layer Of Felt Finish, Add	13.73	
For Work In Restricted Working Space, Add	42.20	
22 07 19 00-0192 LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	306.58	60.87
For Single Layer Of Felt Finish, Add	14.70	
For Work In Restricted Working Space, Add	49.99	
22 07 19 00-0193 LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	370.85	77.40
For Single Layer Of Felt Finish, Add	16.70	
For Work In Restricted Working Space, Add	63.56	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0194 LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	435.14 18.70 77.13	94.26
22 07 19 00-0195 LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	468.27 19.42 85.01	103.57
22 07 19 00-0196 LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	498.02 20.20 91.70	111.49
22 07 19 00-0197 Foamglas Pipe Insulation, Rigid, Closed Cell (22 07 19) Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0198 1" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0199 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.83 5.82	6.41
22 07 19 00-0200 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.44 5.82	6.41
22 07 19 00-0201 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.35 5.91	6.50
22 07 19 00-0202 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.83 5.99	6.59
22 07 19 00-0203 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.53 6.08	6.68
22 07 19 00-0204 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.88 6.25	6.87
22 07 19 00-0205 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.61 6.50	7.15
22 07 19 00-0206 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.37 6.67	7.34
22 07 19 00-0207 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.32 7.18	7.89
22 07 19 00-0208 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.21 8.10	8.90
22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0210 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.10 6.25	7.10
22 07 19 00-0211 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.49 6.25	7.10
22 07 19 00-0212 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.16 6.33	7.19
22 07 19 00-0213 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.71 6.41	7.28
22 07 19 00-0214 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.24 6.50	7.38
22 07 19 00-0215 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.15 6.71	7.63
22 07 19 00-0216 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.27 6.97	7.92
22 07 19 00-0217 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.03 7.18	8.16
22 07 19 00-0218 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.11 7.64	8.68
22 07 19 00-0219 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.65 8.65	9.84
22 07 19 00-0220 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.02 9.65	10.97
22 07 19 00-0221 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	61.23 11.12	12.65
22 07 19 00-0222 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.37 13.82	15.71
22 07 19 00-0223 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.14 15.02	16.53
22 07 19 00-0224 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	89.61 16.79	18.46
22 07 19 00-0225 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.51 19.85	21.84
22 07 19 00-0226 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	114.29 21.98	24.18
22 07 19 00-0227 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	139.15 24.35	26.79
22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.81 6.67	7.34
22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.42 6.67	7.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.28 6.75	7.41
22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.51 6.84	7.53
22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.75 6.92	7.62
22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	34.85 7.18	7.89
22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.44 7.43	8.18
22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	38.76 7.68	8.44
22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.03 8.10	8.91
22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	50.90 9.20	10.12
22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	56.69 10.26	11.29
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	68.25 11.84	13.01
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	84.59 14.71	16.18
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	90.76 16.05	17.67
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	109.05 20.52	22.58
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	117.95 21.54	23.70
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	131.39 24.63	27.09
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	163.51 29.75	32.73
22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	32.79 7.23	7.96
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	33.80 7.23	7.95
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.23 7.35	8.08
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.44 7.40	8.14
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	37.67 7.46	8.21
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.12 7.77	8.53
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.43 8.03	8.83
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.62 8.31	9.14
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	50.50 8.77	9.64
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	59.81 9.97	10.97
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	66.65 11.11	12.22
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	76.20 12.81	14.09
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	94.85 15.92	17.52
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	99.77 17.39	19.12
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	119.56 22.22	24.44
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	129.09 23.33	25.65
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	148.24 26.66	29.33
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	184.34 32.21	35.44
22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	38.45 7.69	8.46
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.06 7.69	8.46
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.11 7.82	8.60
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.90 7.87	8.65
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	41.74 7.94	8.73

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.56 8.26	9.08
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.23 8.54	9.41
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.71 8.84	9.73
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.30 9.32	10.25
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	65.37 10.60	11.66
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.67 11.82	13.00
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	87.36 13.63	15.00
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.70 16.94	18.63
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	110.35 18.49	20.34
22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	133.45 23.63	26.00
22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	142.33 24.82	27.30
22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	166.01 28.37	31.20
22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	202.50 34.27	37.70
22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.37 9.32	10.25
22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.14 9.32	10.25
22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.13 9.39	10.32
22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	49.10 9.45	10.38
22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.27 9.56	10.51
22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.63 9.89	10.89
22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.04 10.24	11.27
22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.13 10.60	11.66
22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.38 11.21	12.33
22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	76.23 12.72	13.99
22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	86.35 14.17	15.58
22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.65 16.35	17.99
22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	122.37 20.33	22.36
22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	128.71 22.19	24.41
22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	156.19 28.37	31.20
22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	170.18 29.78	32.77
22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	193.91 34.06	37.47
22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	237.38 41.13	45.24
22 07 19 00-0304 4" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0305 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.58 11.46	12.61
22 07 19 00-0306 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.58 11.46	12.61
22 07 19 00-0307 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.23 11.66	12.82
22 07 19 00-0308 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	60.69 11.79	12.98
22 07 19 00-0309 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.91 12.16	13.38
22 07 19 00-0310 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.33 12.54	13.78
22 07 19 00-0311 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.13 12.74	14.01
22 07 19 00-0312 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	74.49 13.20	14.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0313 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	81.73 14.72	16.19
22 07 19 00-0314 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	93.24 15.81	17.38
22 07 19 00-0315 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	104.51 17.14	18.85
22 07 19 00-0316 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	120.48 20.37	22.41
22 07 19 00-0317 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	142.35 25.29	27.83
22 07 19 00-0318 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	154.93 27.63	30.38
22 07 19 00-0319 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	186.57 35.33	38.85
22 07 19 00-0320 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	205.15 37.02	40.73
22 07 19 00-0321 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	230.89 42.37	46.60
22 07 19 00-0322 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	290.15 51.19	56.31
22 07 19 00-0323 Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19) Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0324 3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0325 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.21 2.36	3.92
22 07 19 00-0326 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.22 2.36	3.92
22 07 19 00-0327 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.53 2.44	4.07
22 07 19 00-0328 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.86 2.53	4.21
22 07 19 00-0329 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.12 2.57	4.29
22 07 19 00-0330 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.42 2.61	4.35
22 07 19 00-0331 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.54 2.62	4.35
22 07 19 00-0332 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.84 2.63	4.35
22 07 19 00-0333 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.48 2.71	4.48
22 07 19 00-0334 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.78 2.75	4.56
22 07 19 00-0335 1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0336 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.04 2.57	4.29
22 07 19 00-0337 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.13 2.58	4.29
22 07 19 00-0338 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.26 2.61	4.35
22 07 19 00-0339 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.41 2.63	4.38
22 07 19 00-0340 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.79 2.69	4.48
22 07 19 00-0341 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.11 2.73	4.56
22 07 19 00-0342 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.47 2.78	4.62
22 07 19 00-0343 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.89 2.81	4.69
22 07 19 00-0344 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.62 2.90	4.83
22 07 19 00-0345 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.35 2.94	4.90
22 07 19 00-0346 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.02 2.98	4.96
22 07 19 00-0347 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.45 3.02	5.03
22 07 19 00-0348 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0349 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.98 2.78	4.62
22 07 19 00-0350 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.11 2.81	4.69
22 07 19 00-0351 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.64 2.90	4.83

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0352 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.89	4.90
<i>For Work In Restricted Working Space, Add</i>	2.94	
22 07 19 00-0353 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.52	5.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0354 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.12	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0355 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.40	5.13
<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-0356 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.44	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0357 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.93	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0358 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.06	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0359 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.12	5.45
<i>For Work In Restricted Working Space, Add</i>	3.27	
22 07 19 00-0360 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.59	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0361 1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0362 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.24	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0363 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.49	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0364 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.20	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0365 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.44	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0366 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.47	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0367 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.04	5.66
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0368 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.27	5.72
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0369 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.22	5.79
<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0370 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.96	5.94
<i>For Work In Restricted Working Space, Add</i>	3.56	
22 07 19 00-0371 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.57	6.00
<i>For Work In Restricted Working Space, Add</i>	3.60	
22 07 19 00-0372 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)		
Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0373 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0374 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.63	3.92
<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0375 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.76	3.92
<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0376 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.10	4.07
<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0377 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.30	4.13
<i>For Work In Restricted Working Space, Add</i>	2.48	
22 07 19 00-0378 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.52	4.21
<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0379 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.80	4.29
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0380 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.05	4.35
<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0381 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.29	4.35
<i>For Work In Restricted Working Space, Add</i>	2.62	
22 07 19 00-0382 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.50	4.35
<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-0383 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.72	4.42
<i>For Work In Restricted Working Space, Add</i>	2.65	
22 07 19 00-0384 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.04	4.48
<i>For Work In Restricted Working Space, Add</i>	2.69	
22 07 19 00-0385 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.32	4.48
<i>For Work In Restricted Working Space, Add</i>	2.71	
22 07 19 00-0386 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.52	4.56
<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-0387 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.80	4.56
<i>For Work In Restricted Working Space, Add</i>	2.75	
22 07 19 00-0388 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.40	4.62
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0389 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.10	4.69
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0390 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.86	4.72
<i>For Work In Restricted Working Space, Add</i>	2.83	
22 07 19 00-0391 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0392 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.71	4.29
<i>For Work In Restricted Working Space, Add</i>	<i>2.97</i>	
22 07 19 00-0393 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.83	4.29
<i>For Work In Restricted Working Space, Add</i>	<i>2.58</i>	
22 07 19 00-0394 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.97	4.35
<i>For Work In Restricted Working Space, Add</i>	<i>2.61</i>	
22 07 19 00-0395 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.17	4.35
<i>For Work In Restricted Working Space, Add</i>	<i>2.62</i>	
22 07 19 00-0396 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.33	4.35
<i>For Work In Restricted Working Space, Add</i>	<i>2.63</i>	
22 07 19 00-0397 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.72	4.48
<i>For Work In Restricted Working Space, Add</i>	<i>2.69</i>	
22 07 19 00-0398 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.10	4.56
<i>For Work In Restricted Working Space, Add</i>	<i>2.73</i>	
22 07 19 00-0399 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.43	4.62
<i>For Work In Restricted Working Space, Add</i>	<i>2.78</i>	
22 07 19 00-0400 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.76	4.66
<i>For Work In Restricted Working Space, Add</i>	<i>2.79</i>	
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.03	4.69
<i>For Work In Restricted Working Space, Add</i>	<i>2.81</i>	
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.03	4.77
<i>For Work In Restricted Working Space, Add</i>	<i>2.86</i>	
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.63	4.83
<i>For Work In Restricted Working Space, Add</i>	<i>2.90</i>	
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.09	4.87
<i>For Work In Restricted Working Space, Add</i>	<i>2.92</i>	
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.48	4.90
<i>For Work In Restricted Working Space, Add</i>	<i>2.94</i>	
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.76	4.94
<i>For Work In Restricted Working Space, Add</i>	<i>2.96</i>	
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.00	4.96
<i>For Work In Restricted Working Space, Add</i>	<i>2.98</i>	
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.15	5.03
<i>For Work In Restricted Working Space, Add</i>	<i>3.02</i>	
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.43	5.07
<i>For Work In Restricted Working Space, Add</i>	<i>3.04</i>	
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.53	5.11
<i>For Work In Restricted Working Space, Add</i>	<i>3.06</i>	
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.87	5.24
<i>For Work In Restricted Working Space, Add</i>	<i>3.14</i>	
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.35	5.38
<i>For Work In Restricted Working Space, Add</i>	<i>3.23</i>	
22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.10	4.62
<i>For Work In Restricted Working Space, Add</i>	<i>2.78</i>	
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.39	4.69
<i>For Work In Restricted Working Space, Add</i>	<i>2.81</i>	
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.84	4.83
<i>For Work In Restricted Working Space, Add</i>	<i>2.90</i>	
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.10	4.87
<i>For Work In Restricted Working Space, Add</i>	<i>2.92</i>	
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.23	4.90
<i>For Work In Restricted Working Space, Add</i>	<i>2.94</i>	
22 07 19 00-0419 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.87	5.03
<i>For Work In Restricted Working Space, Add</i>	<i>3.02</i>	
22 07 19 00-0420 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.37	5.11
<i>For Work In Restricted Working Space, Add</i>	<i>3.06</i>	
22 07 19 00-0421 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.89	5.17
<i>For Work In Restricted Working Space, Add</i>	<i>3.11</i>	
22 07 19 00-0422 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.02	5.17
<i>For Work In Restricted Working Space, Add</i>	<i>3.11</i>	
22 07 19 00-0423 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.21	5.21
<i>For Work In Restricted Working Space, Add</i>	<i>3.13</i>	
22 07 19 00-0424 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.80	5.24
<i>For Work In Restricted Working Space, Add</i>	<i>3.15</i>	
22 07 19 00-0425 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.13	5.30
<i>For Work In Restricted Working Space, Add</i>	<i>3.19</i>	
22 07 19 00-0426 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.79	5.34
<i>For Work In Restricted Working Space, Add</i>	<i>3.20</i>	
22 07 19 00-0427 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.26	5.38
<i>For Work In Restricted Working Space, Add</i>	<i>3.23</i>	
22 07 19 00-0428 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.97	5.42
<i>For Work In Restricted Working Space, Add</i>	<i>3.25</i>	
22 07 19 00-0429 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.24	5.45
<i>For Work In Restricted Working Space, Add</i>	<i>3.27</i>	
22 07 19 00-0430 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.30	5.51
<i>For Work In Restricted Working Space, Add</i>	<i>3.31</i>	
22 07 19 00-0431 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.15	5.55
<i>For Work In Restricted Working Space, Add</i>	<i>3.33</i>	
22 07 19 00-0432 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.55	5.58
<i>For Work In Restricted Working Space, Add</i>	<i>3.35</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0433 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.06	5.66
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0434 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.88	5.79
<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0435 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0436 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.92	5.09
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0437 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.29	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0438 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.76	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0439 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.13	5.34
<i>For Work In Restricted Working Space, Add</i>	3.20	
22 07 19 00-0440 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.47	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0441 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.07	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0442 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.99	5.66
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0443 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.46	5.66
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0444 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.07	5.72
<i>For Work In Restricted Working Space, Add</i>	3.46	
22 07 19 00-0445 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.29	5.79
<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0446 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.60	5.87
<i>For Work In Restricted Working Space, Add</i>	3.52	
22 07 19 00-0447 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.63	5.94
<i>For Work In Restricted Working Space, Add</i>	3.56	
22 07 19 00-0448 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.90	5.98
<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-0449 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.29	6.00
<i>For Work In Restricted Working Space, Add</i>	3.60	
22 07 19 00-0450 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.97	6.04
<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-0451 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.30	6.07
<i>For Work In Restricted Working Space, Add</i>	3.64	
22 07 19 00-0452 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.77	6.21
<i>For Work In Restricted Working Space, Add</i>	3.72	
22 07 19 00-0453 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.45	6.28
<i>For Work In Restricted Working Space, Add</i>	3.77	
22 07 19 00-0454 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	28.89	6.34
<i>For Work In Restricted Working Space, Add</i>	3.81	
22 07 19 00-0455 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	31.51	6.49
<i>For Work In Restricted Working Space, Add</i>	3.89	
22 07 19 00-0456 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0457 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	19.14	5.71
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0458 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	19.62	5.84
<i>For Work In Restricted Working Space, Add</i>	3.51	
22 07 19 00-0459 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	20.00	5.87
<i>For Work In Restricted Working Space, Add</i>	3.53	
22 07 19 00-0460 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	20.38	5.93
<i>For Work In Restricted Working Space, Add</i>	3.54	
22 07 19 00-0461 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.95	6.06
<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-0462 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	21.88	6.28
<i>For Work In Restricted Working Space, Add</i>	3.76	
22 07 19 00-0463 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.10	6.19
<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0464 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	24.17	6.33
<i>For Work In Restricted Working Space, Add</i>	3.84	
22 07 19 00-0465 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.84	6.49
<i>For Work In Restricted Working Space, Add</i>	3.89	
22 07 19 00-0466 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.87	6.57
<i>For Work In Restricted Working Space, Add</i>	3.93	
22 07 19 00-0467 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	28.78	6.64
<i>For Work In Restricted Working Space, Add</i>	3.97	
22 07 19 00-0468 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	29.69	6.67
<i>For Work In Restricted Working Space, Add</i>	4.00	
22 07 19 00-0469 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	30.58	6.68
<i>For Work In Restricted Working Space, Add</i>	4.02	
22 07 19 00-0470 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	31.63	6.72
<i>For Work In Restricted Working Space, Add</i>	4.04	
22 07 19 00-0471 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.29	6.75
<i>For Work In Restricted Working Space, Add</i>	4.05	
22 07 19 00-0472 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	35.91	7.00
<i>For Work In Restricted Working Space, Add</i>	4.19	
22 07 19 00-0473 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	37.86	7.10
<i>For Work In Restricted Working Space, Add</i>	4.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.49 4.33	7.21
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	47.13 4.46	7.43
22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	27.14 3.78	6.31
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.18 3.86	6.40
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.90 3.88	6.45
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.49 3.89	6.50
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.99 3.97	6.63
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	33.87 4.16	6.94
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.93 4.19	6.78
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.85 4.27	7.01
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	38.69 4.35	7.24
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	39.91 4.39	7.34
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.40 4.43	7.43
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.73 4.46	7.44
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	45.04 4.48	7.45
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	46.66 4.50	7.49
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	48.37 4.51	7.53
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	54.17 4.71	7.88
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	57.54 4.82	8.04
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	58.57 4.92	8.19
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	65.54 5.11	8.52
22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
<small>Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.</small>		
22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.36 2.36	3.92
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.44 2.36	3.92
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.74 2.44	4.07
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.11 2.53	4.21
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.33 2.57	4.29
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.70 2.61	4.35
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.96 2.62	4.35
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.16 2.63	4.48
22 07 19 00-0506 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.04 2.71	4.48
22 07 19 00-0507 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.81 2.75	4.56
22 07 19 00-0508 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.74 2.81	4.69
22 07 19 00-0509 1/2" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0510 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.31 2.57	4.29
22 07 19 00-0511 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.39 2.58	4.29
22 07 19 00-0512 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.56 2.61	4.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0513 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.79	4.35
<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-0514 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.08	4.48
<i>For Work In Restricted Working Space, Add</i>	2.69	
22 07 19 00-0515 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.49	4.56
<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-0516 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.93	4.62
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0517 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.35	4.69
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0518 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.29	4.83
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-0519 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.11	4.90
<i>For Work In Restricted Working Space, Add</i>	2.94	
22 07 19 00-0520 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.65	5.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0521 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0522 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.39	4.62
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0523 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.70	4.69
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0524 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.10	4.83
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-0525 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.68	4.90
<i>For Work In Restricted Working Space, Add</i>	2.94	
22 07 19 00-0526 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.24	5.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0527 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.13	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0528 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.71	5.11
<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-0529 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.37	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0530 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.67	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0531 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.83	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0532 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.05	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0533 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0534 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.19	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0535 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.38	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0536 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.79	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0537 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.59	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0538 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.29	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0539 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.02	5.66
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0540 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.69	5.66
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0541 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	17.15	5.79
<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0542 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.12	5.94
<i>For Work In Restricted Working Space, Add</i>	3.56	
22 07 19 00-0543 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	20.52	6.00
<i>For Work In Restricted Working Space, Add</i>	3.60	
22 07 19 00-0544 Flexible Elastomeric Unicellular Insulation (22 07 19)		
Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0545 3/8" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0546 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	8.35	3.92
<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0547 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	8.70	4.07
<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0548 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.04	4.22
<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0549 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.26	4.29
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0550 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.49	4.35
<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0551 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.72	4.38
<i>For Work In Restricted Working Space, Add</i>	2.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0552 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.14 2.69	4.49
22 07 19 00-0553 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.81 2.71	4.52
22 07 19 00-0554 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.36 2.75	4.59
22 07 19 00-0555 1/2" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0556 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.17 2.53	4.22
22 07 19 00-0557 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.50 2.61	4.35
22 07 19 00-0558 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.66 2.63	4.35
22 07 19 00-0559 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.97 2.69	4.48
22 07 19 00-0560 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.21 2.73	4.56
22 07 19 00-0561 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.53 2.78	4.62
22 07 19 00-0562 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.01 2.81	4.69
22 07 19 00-0563 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.86 2.90	4.83
22 07 19 00-0564 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.39 2.94	4.90
22 07 19 00-0565 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.35 2.98	4.96
22 07 19 00-0566 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.85 3.02	5.03
22 07 19 00-0567 3/4" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0568 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.31 2.75	4.60
22 07 19 00-0569 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.88 2.90	4.83
22 07 19 00-0570 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.27 2.94	4.90
22 07 19 00-0571 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.87 3.02	5.04
22 07 19 00-0572 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.25 3.06	5.11
22 07 19 00-0573 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.08 3.11	5.17
22 07 19 00-0574 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.73 3.13	5.21
22 07 19 00-0575 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	14.81 3.19	5.32
22 07 19 00-0576 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	15.54 3.23	5.38
22 07 19 00-0577 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	16.70 3.27	5.45
22 07 19 00-0578 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	17.28 3.31	5.51
22 07 19 00-0579 1" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0580 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.27 3.06	5.11
22 07 19 00-0581 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.82 3.19	5.32
22 07 19 00-0582 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.47 3.23	5.38
22 07 19 00-0583 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	14.33 3.31	5.51
22 07 19 00-0584 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	15.14 3.39	5.66
22 07 19 00-0585 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	15.68 3.43	5.72
22 07 19 00-0586 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	16.68 3.47	5.79
22 07 19 00-0587 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	19.06 3.56	5.94
22 07 19 00-0588 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	20.73 3.60	6.00
22 07 19 00-0589 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	21.67 3.64	6.07
22 07 19 00-0590 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	23.60 3.72	6.21

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0591			Insulation Foam Rubber <small>(22 07 19)</small>		
22 07 19 00-0592			Covering 4x6 Sheet <small>(22 07 19 00-0591)</small>		
22 07 19 00-0593	SF		1" Thick Foam Rubber Sheet Insulation.....	24.49	9.33
22 07 19 00-0594			Insulation Protective Jacketing <small>(22 07 19)</small>		
			Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0595			Aluminum Insulation Protective Jacketing With Bands <small>(22 07 19 00-0594)</small>		
22 07 19 00-0596			Aluminum Roll, Insulation Protective Jacketing With Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0597	SF		0.006" Aluminum Insulation Jacket With Bands.....	19.58	8.40
22 07 19 00-0598	SF		0.010" Aluminum Insulation Jacket With Bands.....	19.85	8.40
22 07 19 00-0599	SF		0.016" Aluminum Insulation Jacket With Bands.....	20.11	8.40
22 07 19 00-0600	SF		0.020" Aluminum Insulation Jacket With Bands.....	20.35	8.40
22 07 19 00-0601	SF		0.024" Aluminum Insulation Jacket With Bands.....	20.58	8.40
22 07 19 00-0602			16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0603	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing.....	9.91	2.38
			For Stucco Embossed, Add	0.00	
			For Corrugated, Add	0.01	
22 07 19 00-0604	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing.....	10.24	2.44
			For Stucco Embossed, Add	0.00	
			For Corrugated, Add	0.01	
22 07 19 00-0605	LF		1" ID, 0.016" Aluminum Insulation Jacketing.....	10.58	2.51
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.01	
22 07 19 00-0606	LF		1-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	10.93	2.57
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0607	LF		1-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	11.19	2.60
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0608	LF		1-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	11.45	2.64
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0609	LF		2" ID, 0.016" Aluminum Insulation Jacketing.....	11.77	2.70
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0610	LF		2-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	12.11	2.75
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0611	LF		2-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	12.47	2.81
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0612	LF		2-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	12.76	2.86
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0613	LF		3" ID, 0.016" Aluminum Insulation Jacketing.....	13.13	2.92
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.04	
22 07 19 00-0614	LF		3-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	13.51	2.99
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0615	LF		3-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	13.88	3.06
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0616	LF		3-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	14.22	3.11
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0617	LF		4" ID, 0.016" Aluminum Insulation Jacketing.....	14.63	3.18
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0618	LF		4-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	15.05	3.26
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0619	LF		4-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	15.50	3.35
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0620	LF		4-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	15.86	3.41
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0621	LF		5" ID, 0.016" Aluminum Insulation Jacketing.....	16.33	3.50
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0622	LF		5-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	16.83	3.60
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0623	LF		5-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	17.23	3.67
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0624 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.77 0.03 0.07	3.78
22 07 19 00-0625 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.33 0.03 0.07	3.89
22 07 19 00-0626 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.68 0.03 0.07	3.95
22 07 19 00-0627 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.03 0.03 0.07	4.01
22 07 19 00-0628 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.61 0.03 0.08	4.10
22 07 19 00-0629 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.10 0.03 0.08	4.21
22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.48 0.03 0.09	4.27
22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.99 0.04 0.09	4.35
22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.49 0.04 0.10	4.42
22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.15 0.04 0.10	4.53
22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.70 0.04 0.11	4.61
22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.25 0.04 0.11	4.69
22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.80 0.05 0.12	4.78
22 07 19 00-0637 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.55 0.05 0.12	4.91
22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.15 0.05 0.13	5.00
22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.76 0.05 0.13	5.10
22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.58 0.06 0.14	5.25
22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.01 0.06 0.14	5.30
22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.67 0.06 0.16	5.36
22 07 19 00-0643 LF 15" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.17	5.47
22 07 19 00-0644 LF 16" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.21 0.07 0.18	5.53
22 07 19 00-0645 LF 17" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.13 0.08 0.19	5.64
22 07 19 00-0646 LF 18" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.66 0.08 0.20	5.70
22 07 19 00-0647 LF 19" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.74 0.08 0.21	5.84
22 07 19 00-0648 LF 20" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.45 0.09 0.22	5.91
22 07 19 00-0649 LF 21" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.42 0.09 0.23	6.04
22 07 19 00-0650 LF 22" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.13 0.10 0.24	6.11
22 07 19 00-0651 LF 23" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.15 0.10 0.25	6.26

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0652	LF		24" ID, 0.016" Aluminum Insulation Jacketing.....	35.88	6.33
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0653			20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0654	LF		1/2" ID, 0.020" Aluminum Insulation Jacketing.....	10.96	2.63
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0655	LF		3/4" ID, 0.020" Aluminum Insulation Jacketing.....	11.34	2.69
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0656	LF		1" ID, 0.020" Aluminum Insulation Jacketing.....	11.74	2.75
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0657	LF		1-1/4" ID, 0.020" Aluminum Insulation Jacketing	12.15	2.82
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0658	LF		1-1/2" ID, 0.020" Aluminum Insulation Jacketing	12.44	2.86
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0659	LF		1-3/4" ID, 0.020" Aluminum Insulation Jacketing	12.75	2.91
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0660	LF		2" ID, 0.020" Aluminum Insulation Jacketing.....	13.13	2.97
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0661	LF		2-1/4" ID, 0.020" Aluminum Insulation Jacketing	13.51	3.03
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0662	LF		2-1/2" ID, 0.020" Aluminum Insulation Jacketing	13.91	3.09
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0663	LF		2-3/4" ID, 0.020" Aluminum Insulation Jacketing	14.27	3.14
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0664	LF		3" ID, 0.020" Aluminum Insulation Jacketing.....	14.69	3.21
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0665	LF		3-1/4" ID, 0.020" Aluminum Insulation Jacketing	15.12	3.28
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0666	LF		3-1/2" ID, 0.020" Aluminum Insulation Jacketing	15.57	3.36
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0667	LF		3-3/4" ID, 0.020" Aluminum Insulation Jacketing	15.93	3.42
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0668	LF		4" ID, 0.020" Aluminum Insulation Jacketing.....	16.40	3.50
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0669	LF		4-1/4" ID, 0.020" Aluminum Insulation Jacketing	16.89	3.59
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0670	LF		4-1/2" ID, 0.020" Aluminum Insulation Jacketing	17.41	3.68
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0671	LF		4-3/4" ID, 0.020" Aluminum Insulation Jacketing	17.83	3.75
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0672	LF		5" ID, 0.020" Aluminum Insulation Jacketing.....	18.37	3.85
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0673	LF		5-1/4" ID, 0.020" Aluminum Insulation Jacketing	18.93	3.95
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0674	LF		5-1/2" ID, 0.020" Aluminum Insulation Jacketing	19.39	4.04
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0675	LF		5-3/4" ID, 0.020" Aluminum Insulation Jacketing	20.01	4.16
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0676	LF		6" ID, 0.020" Aluminum Insulation Jacketing.....	20.64	4.28
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0677	LF		6-1/4" ID, 0.020" Aluminum Insulation Jacketing	21.03	4.35
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0678	LF		6-1/2" ID, 0.020" Aluminum Insulation Jacketing	21.44	4.41
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0679	LF		7" ID, 0.020" Aluminum Insulation Jacketing.....	22.11	4.52
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.67 0.04 0.10	4.62
22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.11 0.04 0.11	4.70
22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.71 0.05 0.11	4.78
22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.28 0.05 0.12	4.86
22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.06 0.05 0.13	4.98
22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.70 0.05 0.14	5.07
22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.33 0.06 0.14	5.16
22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.98 0.06 0.15	5.25
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.84 0.06 0.16	5.40
22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.16	5.50
22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.24 0.07 0.17	5.61
22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.18 0.07 0.18	5.77
22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.69 0.07 0.18	5.84
22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.49 0.08 0.20	5.90
22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.53 0.08 0.21	6.02
22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.34 0.09 0.23	6.09
22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.41 0.10 0.24	6.22
22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.05 0.10 0.25	6.28
22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.33 0.11 0.27	6.42
22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.19 0.11 0.28	6.49
22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.34 0.12 0.29	6.64
22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.18 0.12 0.31	6.72
22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.39 0.13 0.32	6.88
22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.27 0.13 0.34	6.96
22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.01 0.01 0.01	2.87
22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.44 0.01 0.02	2.93
22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.88 0.01 0.02	3.00

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.33 0.01 0.03	3.08
22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.69 0.01 0.03	3.12
22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.03 0.01 0.03	3.17
22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	14.46 0.02 0.04	3.23
22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.89 0.02 0.04	3.30
22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.35 0.02 0.05	3.37
22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.74 0.02 0.05	3.43
22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	16.22 0.02 0.06	3.50
22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	16.71 0.02 0.06	3.58
22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	17.20 0.03 0.06	3.66
22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	17.63 0.03 0.07	3.73
22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	18.15 0.03 0.07	3.82
22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	18.69 0.03 0.08	3.91
22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	19.28 0.03 0.08	4.01
22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	19.75 0.03 0.08	4.09
22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	20.35 0.04 0.09	4.21
22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	20.96 0.04 0.09	4.32
22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	21.51 0.04 0.10	4.41
22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	22.19 0.04 0.10	4.54
22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	22.88 0.04 0.11	4.67
22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	23.33 0.04 0.11	4.74
22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	23.79 0.05 0.11	4.81
22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	24.54 0.05 0.12	4.92
22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	25.18 0.05 0.13	5.04
22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	25.66 0.05 0.13	5.12
22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	26.36 0.06 0.14	5.21
22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	27.01 0.06 0.15	5.29
22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	27.88 0.06 0.15	5.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.60 0.06 0.16	5.53
22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.34 0.07 0.17	5.62
22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.06 0.07 0.18	5.73
22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.03 0.07 0.19	5.90
22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.83 0.08 0.20	6.01
22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.62 0.08 0.20	6.12
22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.68 0.08 0.21	6.31
22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.25 0.09 0.22	6.37
22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.19 0.09 0.24	6.43
22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.39 0.10 0.25	6.57
22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.33 0.11 0.27	6.63
22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.55 0.11 0.29	6.78
22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.30 0.12 0.30	6.85
22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.78 0.13 0.32	7.00
22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.76 0.13 0.34	7.08
22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.07 0.14 0.35	7.24
22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.06 0.15 0.37	7.33
22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.42 0.15 0.39	7.51
22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.43 0.16 0.40	7.60
22 07 19 00-0755 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0756 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.01 0.02	3.18
22 07 19 00-0757 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.96 0.01 0.02	3.25
22 07 19 00-0758 LF 1" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.48 0.01 0.03	3.33
22 07 19 00-0759 LF 1-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.02 0.01 0.03	3.41
22 07 19 00-0760 LF 1-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.44 0.02 0.04	3.46
22 07 19 00-0761 LF 1-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.87 0.02 0.05	3.51
22 07 19 00-0762 LF 2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.38 0.02 0.05	3.58
22 07 19 00-0763 LF 2-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.90 0.02 0.06	3.66

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0764	LF		2-1/2" ID, 0.032" Aluminum Insulation Jacketing	17.45	3.73
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0765	LF		2-3/4" ID, 0.032" Aluminum Insulation Jacketing	17.92	3.79
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0766	LF		3" ID, 0.032" Aluminum Insulation Jacketing.....	18.50	3.88
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0767	LF		3-1/4" ID, 0.032" Aluminum Insulation Jacketing	19.08	3.97
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0768	LF		3-1/2" ID, 0.032" Aluminum Insulation Jacketing	19.66	4.06
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0769	LF		3-3/4" ID, 0.032" Aluminum Insulation Jacketing	20.16	4.13
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0770	LF		4" ID, 0.032" Aluminum Insulation Jacketing.....	20.78	4.24
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0771	LF		4-1/4" ID, 0.032" Aluminum Insulation Jacketing	21.42	4.34
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0772	LF		4-1/2" ID, 0.032" Aluminum Insulation Jacketing	22.12	4.45
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0773	LF		4-3/4" ID, 0.032" Aluminum Insulation Jacketing	22.68	4.54
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0774	LF		5" ID, 0.032" Aluminum Insulation Jacketing.....	23.38	4.66
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0775	LF		5-1/4" ID, 0.032" Aluminum Insulation Jacketing	24.11	4.79
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0776	LF		5-1/2" ID, 0.032" Aluminum Insulation Jacketing	24.73	4.89
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0777	LF		5-3/4" ID, 0.032" Aluminum Insulation Jacketing	25.54	5.03
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0778	LF		6" ID, 0.032" Aluminum Insulation Jacketing.....	26.34	5.17
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0779	LF		6-1/4" ID, 0.032" Aluminum Insulation Jacketing	26.88	5.25
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0780	LF		6-1/2" ID, 0.032" Aluminum Insulation Jacketing	27.42	5.33
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0781	LF		7" ID, 0.032" Aluminum Insulation Jacketing.....	28.33	5.45
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0782	LF		7-1/4" ID, 0.032" Aluminum Insulation Jacketing	29.07	5.59
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0783	LF		7-1/2" ID, 0.032" Aluminum Insulation Jacketing	29.66	5.68
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0784	LF		8" ID, 0.032" Aluminum Insulation Jacketing.....	30.49	5.77
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0785	LF		8-1/2" ID, 0.032" Aluminum Insulation Jacketing	31.29	5.88
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0786	LF		9" ID, 0.032" Aluminum Insulation Jacketing.....	32.34	6.03
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0787	LF		9-1/2" ID, 0.032" Aluminum Insulation Jacketing	33.22	6.13
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0788	LF		10" ID, 0.032" Aluminum Insulation Jacketing.....	34.10	6.24
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0789	LF		10-1/2" ID, 0.032" Aluminum Insulation Jacketing	34.99	6.35
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0790	LF		11" ID, 0.0106 Aluminum Insulation Jacketing.....	36.15	6.53
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0791	LF		11-1/2" ID, 0.032" Aluminum Insulation Jacketing	37.10	6.65
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.06 0.11 0.27	6.78
22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.31 0.11 0.28	6.98
22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.03 0.12 0.30	7.05
22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.21 0.13 0.32	7.13
22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.69 0.14 0.34	7.27
22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.90 0.14 0.36	7.35
22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.40 0.15 0.38	7.52
22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.32 0.16 0.40	7.60
22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.18 0.17 0.43	7.77
22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.43 0.18 0.45	7.85
22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.02 0.19 0.47	8.03
22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.28 0.20 0.49	8.12
22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.95 0.21 0.52	8.32
22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.21 0.22 0.54	8.42
22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.54 0.01 0.02	3.65
22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.15 0.01 0.03	3.74
22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.78 0.01 0.04	3.82
22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.43 0.02 0.04	3.92
22 07 19 00-0811 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.94 0.02 0.05	3.97
22 07 19 00-0812 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.46 0.02 0.06	4.03
22 07 19 00-0813 LF 2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.06 0.03 0.06	4.12
22 07 19 00-0814 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.68 0.03 0.07	4.21
22 07 19 00-0815 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.34 0.03 0.08	4.30
22 07 19 00-0816 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.91 0.03 0.09	4.37
22 07 19 00-0817 LF 3" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.60 0.04 0.09	4.47
22 07 19 00-0818 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.27 0.04 0.10	4.57
22 07 19 00-0819 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.98 0.04 0.11	4.67

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0820	LF		3-3/4" ID, 0.040" Aluminum Insulation Jacketing	23.58	4.76
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.11	
22 07 19 00-0821	LF		4" ID, 0.040" Aluminum Insulation Jacketing.....	24.31	4.87
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.12	
22 07 19 00-0822	LF		4-1/4" ID, 0.040" Aluminum Insulation Jacketing	25.08	4.99
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.13	
22 07 19 00-0823	LF		4-1/2" ID, 0.040" Aluminum Insulation Jacketing	25.89	5.12
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.14	
22 07 19 00-0824	LF		4-3/4" ID, 0.040" Aluminum Insulation Jacketing	26.57	5.22
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.14	
22 07 19 00-0825	LF		5" ID, 0.040" Aluminum Insulation Jacketing.....	27.39	5.36
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0826	LF		5-1/4" ID, 0.040" Aluminum Insulation Jacketing	28.26	5.50
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.16	
22 07 19 00-0827	LF		5-1/2" ID, 0.040" Aluminum Insulation Jacketing	28.99	5.62
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.16	
22 07 19 00-0828	LF		5-3/4" ID, 0.040" Aluminum Insulation Jacketing	29.95	5.78
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.17	
22 07 19 00-0829	LF		6" ID, 0.040" Aluminum Insulation Jacketing.....	30.91	5.96
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.18	
22 07 19 00-0830	LF		6-1/4" ID, 0.040" Aluminum Insulation Jacketing	31.54	6.05
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.18	
22 07 19 00-0831	LF		6-1/2" ID, 0.040" Aluminum Insulation Jacketing	32.18	6.14
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.19	
22 07 19 00-0832	LF		7" ID, 0.040" Aluminum Insulation Jacketing.....	33.27	6.28
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.20	
22 07 19 00-0833	LF		7-1/4" ID, 0.040" Aluminum Insulation Jacketing	34.15	6.43
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.21	
22 07 19 00-0834	LF		7-1/2" ID, 0.040" Aluminum Insulation Jacketing	34.85	6.53
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.22	
22 07 19 00-0835	LF		8" ID, 0.040" Aluminum Insulation Jacketing.....	35.85	6.65
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.23	
22 07 19 00-0836	LF		8-1/2" ID, 0.040" Aluminum Insulation Jacketing	36.81	6.75
			For Stucco Embossed, Add	0.10	
			For Corrugated, Add	0.25	
22 07 19 00-0837	LF		9" ID, 0.040" Aluminum Insulation Jacketing.....	38.06	6.93
			For Stucco Embossed, Add	0.10	
			For Corrugated, Add	0.26	
22 07 19 00-0838	LF		9-1/2" ID, 0.040" Aluminum Insulation Jacketing	39.14	7.05
			For Stucco Embossed, Add	0.11	
			For Corrugated, Add	0.27	
22 07 19 00-0839	LF		10" ID, 0.040" Aluminum Insulation Jacketing.....	40.18	7.17
			For Stucco Embossed, Add	0.11	
			For Corrugated, Add	0.29	
22 07 19 00-0840	LF		10-1/2" ID, 0.040" Aluminum Insulation Jacketing	41.26	7.30
			For Stucco Embossed, Add	0.12	
			For Corrugated, Add	0.30	
22 07 19 00-0841	LF		11" ID, 0.0106 Aluminum Insulation Jacketing.....	42.62	7.52
			For Stucco Embossed, Add	0.13	
			For Corrugated, Add	0.31	
22 07 19 00-0842	LF		11-1/2" ID, 0.040" Aluminum Insulation Jacketing	43.77	7.66
			For Stucco Embossed, Add	0.13	
			For Corrugated, Add	0.33	
22 07 19 00-0843	LF		12" ID, 0.040" Aluminum Insulation Jacketing.....	44.92	7.81
			For Stucco Embossed, Add	0.14	
			For Corrugated, Add	0.34	
22 07 19 00-0844	LF		12-1/2" ID, 0.040" Aluminum Insulation Jacketing	46.40	8.04
			For Stucco Embossed, Add	0.14	
			For Corrugated, Add	0.36	
22 07 19 00-0845	LF		13" ID, 0.040" Aluminum Insulation Jacketing.....	47.29	8.12
			For Stucco Embossed, Add	0.15	
			For Corrugated, Add	0.37	
22 07 19 00-0846	LF		14" ID, 0.040" Aluminum Insulation Jacketing.....	48.75	8.20
			For Stucco Embossed, Add	0.16	
			For Corrugated, Add	0.40	
22 07 19 00-0847	LF		15" ID, 0.040" Aluminum Insulation Jacketing.....	50.52	8.37
			For Stucco Embossed, Add	0.17	
			For Corrugated, Add	0.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0848 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.00 0.18 0.45	8.46
22 07 19 00-0849 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.84 0.19 0.48	8.64
22 07 19 00-0850 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	54.96 0.20 0.50	8.73
22 07 19 00-0851 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.21 0.21 0.54	8.93
22 07 19 00-0852 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.75 0.23 0.57	9.03
22 07 19 00-0853 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.67 0.24 0.59	9.24
22 07 19 00-0854 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	62.20 0.25 0.62	9.35
22 07 19 00-0855 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	64.22 0.26 0.65	9.57
22 07 19 00-0856 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	65.78 0.27 0.68	9.68

22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0595)

22 07 19 00-0858 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	20.45	3.75
22 07 19 00-0859 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	21.00	3.89
22 07 19 00-0860 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.00	4.04
22 07 19 00-0861 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.26	4.10
22 07 19 00-0862 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.51	4.17
22 07 19 00-0863 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.92	4.27
22 07 19 00-0864 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.93	4.38
22 07 19 00-0865 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.38	4.49
22 07 19 00-0866 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.04	4.57
22 07 19 00-0867 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.59	4.65
22 07 19 00-0868 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.51	4.78
22 07 19 00-0869 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.14	4.86
22 07 19 00-0870 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.50	4.96
22 07 19 00-0871 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.88	5.05
22 07 19 00-0872 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.50	5.15
22 07 19 00-0873 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	33.60	5.25
22 07 19 00-0874 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.34	5.41
22 07 19 00-0875 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.79	5.53
22 07 19 00-0876 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	36.22	5.70
22 07 19 00-0877 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	36.72	5.84
22 07 19 00-0878 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	40.26	6.04
22 07 19 00-0879 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	44.27	6.18
22 07 19 00-0880 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	44.56	6.26
22 07 19 00-0881 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	54.06	6.33
22 07 19 00-0882 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.06	6.41
22 07 19 00-0883 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	65.87	6.57
22 07 19 00-0884 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	66.54	6.73
22 07 19 00-0885 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	56.42	6.82
22 07 19 00-0886 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	56.79	6.91
22 07 19 00-0887 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	57.78	7.00
22 07 19 00-0888 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	58.16	7.10
22 07 19 00-0889 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.02	7.29
22 07 19 00-0890 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.43	7.39
22 07 19 00-0891 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.68	7.62
22 07 19 00-0892 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	91.13	7.73
22 07 19 00-0893 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	112.60	7.96
22 07 19 00-0894 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	117.27	8.21
22 07 19 00-0895 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	125.47	8.34
22 07 19 00-0896 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.32	4.17
22 07 19 00-0897 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.73	4.27
22 07 19 00-0898 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.90	4.38
22 07 19 00-0899 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.35	4.49
22 07 19 00-0900 EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	25.55	4.57
22 07 19 00-0901 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.87	4.65
22 07 19 00-0902 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.51	4.78
22 07 19 00-0903 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.91	4.86
22 07 19 00-0904 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.27	4.96
22 07 19 00-0905 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.65	5.05
22 07 19 00-0906 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.51	5.15
22 07 19 00-0907 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.93	5.25
22 07 19 00-0908 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.06	5.41
22 07 19 00-0909 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.24	5.70



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0910	EA		6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	38.52	6.04
22 07 19 00-0911	EA		7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.09	6.18
22 07 19 00-0912	EA		7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.81	6.33
22 07 19 00-0913	EA		8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	40.12	6.41
22 07 19 00-0914	EA		8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.30	6.57
22 07 19 00-0915	EA		9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.97	6.73
22 07 19 00-0916	EA		9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	52.32	6.82
22 07 19 00-0917	EA		10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	52.69	6.91
22 07 19 00-0918	EA		10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	51.43	7.00
22 07 19 00-0919	EA		11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	51.81	7.10
22 07 19 00-0920	EA		11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.31	7.29
22 07 19 00-0921	EA		12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.72	7.39
22 07 19 00-0922	EA		13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	63.92	7.73
22 07 19 00-0923	EA		14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	72.35	7.96
22 07 19 00-0924	EA		15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	95.26	8.21
22 07 19 00-0925	EA		16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	101.03	8.34
22 07 19 00-0926	EA		17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	99.96	8.47
22 07 19 00-0927	EA		18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	109.83	8.61
22 07 19 00-0928	EA		19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	127.10	8.75
22 07 19 00-0929	EA		20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	124.66	8.90
22 07 19 00-0930	EA		21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	132.36	9.05
22 07 19 00-0931	EA		2-1/2" ID, Aluminum Tee Insulation Jacketing	62.68	5.97
22 07 19 00-0932	EA		2-3/4" ID, Aluminum Tee Insulation Jacketing	63.24	6.11
22 07 19 00-0933	EA		3" ID, Aluminum Tee Insulation Jacketing	68.85	6.26
22 07 19 00-0934	EA		3-1/4" ID, Aluminum Tee Insulation Jacketing	69.46	6.41
22 07 19 00-0935	EA		3-1/2" ID Aluminum Tee Insulation Jacketing	72.20	6.57
22 07 19 00-0936	EA		4" ID, Aluminum Tee Insulation Jacketing	73.37	6.73
22 07 19 00-0937	EA		4-1/4" ID, Aluminum Tee Insulation Jacketing	76.77	6.91
22 07 19 00-0938	EA		4-1/2" ID, Aluminum Tee Insulation Jacketing	77.11	7.10
22 07 19 00-0939	EA		4-3/4" ID, Aluminum Tee Insulation Jacketing	77.90	7.29
22 07 19 00-0940	EA		5" ID, Aluminum Tee Insulation Jacketing	80.55	7.51
22 07 19 00-0941	EA		5-1/4" ID, Aluminum Tee Insulation Jacketing	81.44	7.73
22 07 19 00-0942	EA		5-1/2" ID, Aluminum Tee Insulation Jacketing	84.60	7.96
22 07 19 00-0943	EA		6" ID, Aluminum Tee Insulation Jacketing	85.60	8.21
22 07 19 00-0944	EA		6-1/2" ID, Aluminum Tee Insulation Jacketing	92.99	8.75
22 07 19 00-0945	EA		7" ID, Aluminum Tee Insulation Jacketing	94.20	9.05
22 07 19 00-0946	EA		7-1/2" ID, Aluminum Tee Insulation Jacketing	101.98	9.38
22 07 19 00-0947	EA		8" ID, Aluminum Tee Insulation Jacketing	103.36	9.73
22 07 19 00-0948	EA		8-1/2" ID, Aluminum Tee Insulation Jacketing	106.56	10.10
22 07 19 00-0949	EA		9" ID, Aluminum Tee Insulation Jacketing	108.18	10.50
22 07 19 00-0950	EA		9-1/2" ID, Aluminum Tee Insulation Jacketing	91.98	10.72
22 07 19 00-0951	EA		10" ID, Aluminum Tee Insulation Jacketing	92.87	10.95
22 07 19 00-0952	EA		10-1/2" ID, Aluminum Tee Insulation Jacketing	97.01	11.18
22 07 19 00-0953	EA		11" ID, Aluminum Tee Insulation Jacketing	97.99	11.42
22 07 19 00-0954	EA		11-1/2" ID, Aluminum Tee Insulation Jacketing	101.85	11.67
22 07 19 00-0955	EA		12" ID, Aluminum Tee Insulation Jacketing	102.91	11.94
22 07 19 00-0956	EA		13" ID, Aluminum Tee Insulation Jacketing	106.76	12.21
22 07 19 00-0957	EA		14" ID, Aluminum Tee Insulation Jacketing	110.76	12.51
22 07 19 00-0958	EA		15" ID, Aluminum Tee Insulation Jacketing	116.95	12.81
22 07 19 00-0959	EA		16" ID, Aluminum Tee Insulation Jacketing	119.87	13.13
22 07 19 00-0960	EA		17" ID, Aluminum Tee Insulation Jacketing	131.30	13.47
22 07 19 00-0961	EA		18" ID, Aluminum Tee Insulation Jacketing	135.73	13.82
22 07 19 00-0962	EA		19" ID, Aluminum Tee Insulation Jacketing	145.74	14.20
22 07 19 00-0963	EA		20" ID, Aluminum Tee Insulation Jacketing	149.26	14.59
22 07 19 00-0964	EA		22" ID, Aluminum Tee Insulation Jacketing	175.66	15.01
22 07 19 00-0965	EA		23" ID, Aluminum Tee Insulation Jacketing	180.64	15.45
22 07 19 00-0966	EA		24" ID, Aluminum Tee Insulation Jacketing	189.72	16.94
22 07 19 00-0967			Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)		
22 07 19 00-0968			Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0967)		
22 07 19 00-0969	SF		0.010" Stainless Steel Insulation Jacket With Bands	23.81	9.85
22 07 19 00-0970	SF		0.016" Stainless Steel Insulation Jacket With Bands	29.06	11.82
22 07 19 00-0971			10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)		
22 07 19 00-0972	LF		2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	11.84	2.10
22 07 19 00-0973	LF		2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.31	2.14
22 07 19 00-0974	LF		3" ID, 0.010" Stainless Steel Insulation Jacketing	12.80	2.19
22 07 19 00-0975	LF		3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.30	2.23
22 07 19 00-0976	LF		3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	13.81	2.28
22 07 19 00-0977	LF		3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	14.31	2.33
22 07 19 00-0978	LF		4" ID, 0.010" Stainless Steel Insulation Jacketing	14.82	2.38
22 07 19 00-0979	LF		4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	15.35	2.44
22 07 19 00-0980	LF		4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.88	2.51
22 07 19 00-0981	LF		5" ID, 0.010" Stainless Steel Insulation Jacketing	17.00	2.63
22 07 19 00-0982	LF		5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	18.17	2.77
22 07 19 00-0983	LF		6" ID, 0.010" Stainless Steel Insulation Jacketing	19.39	2.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0984 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.32	3.00
22 07 19 00-0985 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing	21.29	3.09
22 07 19 00-0986 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	22.36	3.20
22 07 19 00-0987 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing	23.21	3.26
22 07 19 00-0988 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	24.07	3.32
22 07 19 00-0989 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing	24.94	3.39
22 07 19 00-0990 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	25.82	3.45
22 07 19 00-0991 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing	26.71	3.52
22 07 19 00-0992 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	27.61	3.60
22 07 19 00-0993 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing	28.52	3.67
22 07 19 00-0994 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing	30.38	3.83
22 07 19 00-0995 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing	32.19	3.98
22 07 19 00-0996 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing	33.65	4.04

22 07 19 00-0997 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)

22 07 19 00-0998 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	16.17	2.80
22 07 19 00-0999 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.84	2.85
22 07 19 00-1000 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing	17.51	2.91
22 07 19 00-1001 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	18.22	2.98
22 07 19 00-1002 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	18.92	3.04
22 07 19 00-1003 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	19.62	3.11
22 07 19 00-1004 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing	20.36	3.18
22 07 19 00-1005 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	21.09	3.25
22 07 19 00-1006 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	21.84	3.33
22 07 19 00-1007 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing	23.40	3.49
22 07 19 00-1008 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	25.02	3.67
22 07 19 00-1009 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing	26.71	3.88
22 07 19 00-1010 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	28.04	3.99
22 07 19 00-1011 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing	29.41	4.10
22 07 19 00-1012 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	30.89	4.26
22 07 19 00-1013 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing	32.08	4.34
22 07 19 00-1014 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	33.30	4.43
22 07 19 00-1015 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing	34.54	4.51
22 07 19 00-1016 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	35.77	4.60
22 07 19 00-1017 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing	37.02	4.69
22 07 19 00-1018 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	38.31	4.79
22 07 19 00-1019 LF 11" ID, 0.016" Stainless Steel Insulation Jacketing	39.59	4.89
22 07 19 00-1020 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing	42.21	5.10
22 07 19 00-1021 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing	44.77	5.29
22 07 19 00-1022 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing	46.86	5.37

22 07 19 00-1023 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)

22 07 19 00-1024 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	31.86	4.17
22 07 19 00-1025 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	32.27	4.27
22 07 19 00-1026 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.39	4.38
22 07 19 00-1027 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.84	4.49
22 07 19 00-1028 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	34.96	4.57
22 07 19 00-1029 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.22	4.65
22 07 19 00-1030 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.48	4.78
22 07 19 00-1031 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.22	4.86
22 07 19 00-1032 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.58	4.96
22 07 19 00-1033 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	46.95	5.15
22 07 19 00-1034 EA 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	60.95	5.41
22 07 19 00-1035 EA 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	65.97	5.70
22 07 19 00-1036 EA 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	83.52	6.04
22 07 19 00-1037 EA 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	84.09	6.18
22 07 19 00-1038 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	94.63	6.33
22 07 19 00-1039 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	95.58	6.57
22 07 19 00-1040 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	97.94	6.57
22 07 19 00-1041 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	135.95	6.73
22 07 19 00-1042 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	134.41	6.82
22 07 19 00-1043 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	134.78	6.91
22 07 19 00-1044 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	156.19	7.00
22 07 19 00-1045 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	150.75	7.10
22 07 19 00-1046 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	168.50	7.39
22 07 19 00-1047 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	223.35	7.73
22 07 19 00-1048 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	225.59	7.96
22 07 19 00-1049 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.33	4.17
22 07 19 00-1050 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.74	4.27
22 07 19 00-1051 EA 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	31.13	4.38
22 07 19 00-1052 EA 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	31.58	4.49
22 07 19 00-1053 EA 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.06	4.57
22 07 19 00-1054 EA 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.38	4.65
22 07 19 00-1055 EA 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.83	4.78
22 07 19 00-1056 EA 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.35	4.86
22 07 19 00-1057 EA 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.71	4.96
22 07 19 00-1058 EA 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	45.09	5.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1059 EA 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	45.90	5.15
22 07 19 00-1060 EA 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	46.97	5.41
22 07 19 00-1061 EA 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	52.87	5.70
22 07 19 00-1062 EA 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	54.18	6.04
22 07 19 00-1063 EA 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	75.53	6.18
22 07 19 00-1064 EA 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	77.17	6.33
22 07 19 00-1065 EA 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	77.48	6.41
22 07 19 00-1066 EA 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	86.94	6.57
22 07 19 00-1067 EA 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	87.61	6.73
22 07 19 00-1068 EA 9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.52	6.82
22 07 19 00-1069 EA 10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	98.89	6.91
22 07 19 00-1070 EA 10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	113.63	7.00
22 07 19 00-1071 EA 11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	114.01	7.10
22 07 19 00-1072 EA 12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	122.57	7.39
22 07 19 00-1073 EA 13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	140.31	7.73
22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)		
22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)		
22 07 19 00-1076 LF 1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.70	1.94
22 07 19 00-1077 LF 2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.30	2.02
22 07 19 00-1078 LF 2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.85	2.10
22 07 19 00-1079 LF 3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.50	2.19
22 07 19 00-1080 LF 3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.12	2.28
22 07 19 00-1081 LF 4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.80	2.38
22 07 19 00-1082 LF 4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.52	2.51
22 07 19 00-1083 LF 5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.25	2.63
22 07 19 00-1084 LF 5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.07	2.77
22 07 19 00-1085 LF 6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.95	2.92
22 07 19 00-1086 LF 6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.55	3.00
22 07 19 00-1087 LF 7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.13	3.09
22 07 19 00-1088 LF 7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.89	3.20
22 07 19 00-1089 LF 8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.36	3.26
22 07 19 00-1090 LF 8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.88	3.32
22 07 19 00-1091 LF 9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.39	3.39
22 07 19 00-1092 LF 9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.93	3.45
22 07 19 00-1093 LF 10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.45	3.52
22 07 19 00-1094 LF 10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.00	3.60
22 07 19 00-1095 LF 11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.56	3.67
22 07 19 00-1096 LF 11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.15	3.75
22 07 19 00-1097 LF 12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.70	3.83
22 07 19 00-1098 LF 12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.34	3.92
22 07 19 00-1099 LF 13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.82	3.98
22 07 19 00-1100 LF 13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.09	3.98
22 07 19 00-1101 LF 14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.60	4.04
22 07 19 00-1102 LF 15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.39	4.10
22 07 19 00-1103 LF 16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.14	4.17
22 07 19 00-1104 LF 17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.94	4.24
22 07 19 00-1105 LF 18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.75	4.31
22 07 19 00-1106 LF 19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.54	4.38
22 07 19 00-1107 LF 20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	28.37	4.45
22 07 19 00-1108 LF 21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.17	4.53
22 07 19 00-1109 LF 22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.02	4.61
22 07 19 00-1110 LF 23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.85	4.69
22 07 19 00-1111 LF 24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.72	4.78
22 07 19 00-1112 LF 25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.62	4.86
22 07 19 00-1113 LF 26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	33.47	4.96
22 07 19 00-1114 LF 27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	34.39	5.05
22 07 19 00-1115 LF 28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.27	5.15
22 07 19 00-1116 LF 29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.23	5.25
22 07 19 00-1117 LF 30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.19	5.36
22 07 19 00-1118 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)		
22 07 19 00-1119 LF 2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.87	2.02
22 07 19 00-1120 LF 2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.57	2.10
22 07 19 00-1121 LF 3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.34	2.19
22 07 19 00-1122 LF 3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.08	2.28
22 07 19 00-1123 LF 4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.87	2.38
22 07 19 00-1124 LF 4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.70	2.51
22 07 19 00-1125 LF 5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.58	2.63
22 07 19 00-1126 LF 5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.52	2.77
22 07 19 00-1127 LF 6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.51	2.92
22 07 19 00-1128 LF 6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.22	3.00
22 07 19 00-1129 LF 7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.96	3.09
22 07 19 00-1130 LF 7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.84	3.20
22 07 19 00-1131 LF 8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.46	3.26
22 07 19 00-1132 LF 8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.09	3.32
22 07 19 00-1133 LF 9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.72	3.39
22 07 19 00-1134 LF 9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.37	3.45



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1135	LF		10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.04	3.52
22 07 19 00-1136	LF		10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.70	3.60
22 07 19 00-1137	LF		11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.39	3.67
22 07 19 00-1138	LF		11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.09	3.75
22 07 19 00-1139	LF		12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.79	3.83
22 07 19 00-1140	LF		12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.55	3.92
22 07 19 00-1141	LF		13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.18	3.98
22 07 19 00-1142	LF		13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.56	3.98
22 07 19 00-1143	LF		14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.18	4.04
22 07 19 00-1144	LF		15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.20	4.10
22 07 19 00-1145	LF		16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.22	4.17
22 07 19 00-1146	LF		17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.25	4.24
22 07 19 00-1147	LF		18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.33	4.31
22 07 19 00-1148	LF		19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.38	4.38
22 07 19 00-1149	LF		20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.45	4.45
22 07 19 00-1150	LF		21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	34.51	4.53
22 07 19 00-1151	LF		22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.59	4.61
22 07 19 00-1152	LF		23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.69	4.69
22 07 19 00-1153	LF		24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	37.79	4.78
22 07 19 00-1154	LF		25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	38.95	4.86
22 07 19 00-1155	LF		26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	40.07	4.96
22 07 19 00-1156	LF		27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	41.21	5.05
22 07 19 00-1157	LF		28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	42.37	5.15
22 07 19 00-1158	LF		29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.55	5.25
22 07 19 00-1159	LF		30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	44.74	5.36
22 07 19 00-1160			Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings <small>(22 07 19 00-1074)</small>		
22 07 19 00-1161	EA		1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.66	3.89
22 07 19 00-1162	EA		2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.75	4.04
22 07 19 00-1163	EA		2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.32	4.10
22 07 19 00-1164	EA		2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.87	4.17
22 07 19 00-1165	EA		2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.55	4.27
22 07 19 00-1166	EA		3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.17	4.38
22 07 19 00-1167	EA		3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.27	4.53
22 07 19 00-1168	EA		3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.24	4.65
22 07 19 00-1169	EA		4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.97	4.78
22 07 19 00-1170	EA		4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.10	5.00
22 07 19 00-1171	EA		5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.29	5.25
22 07 19 00-1172	EA		5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	33.02	5.53
22 07 19 00-1173	EA		6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	41.53	5.84
22 07 19 00-1174	EA		6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	43.30	6.04
22 07 19 00-1175	EA		7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	48.71	6.18
22 07 19 00-1176	EA		7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	50.48	6.33
22 07 19 00-1177	EA		8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	58.64	6.57
22 07 19 00-1178	EA		9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	70.53	6.82
22 07 19 00-1179	EA		10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	76.67	7.10
22 07 19 00-1180	EA		11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	84.93	7.39
22 07 19 00-1181	EA		12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	100.77	7.73
22 07 19 00-1182	EA		14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	111.69	7.96
22 07 19 00-1183	EA		15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	118.64	8.21
22 07 19 00-1184	EA		16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	127.02	8.34
22 07 19 00-1185	EA		17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	137.81	8.47
22 07 19 00-1186	EA		18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	168.51	8.61
22 07 19 00-1187	EA		19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	217.02	8.75
22 07 19 00-1188	EA		20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	269.52	8.90
22 07 19 00-1189	EA		1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.66	3.89
22 07 19 00-1190	EA		2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.75	4.04
22 07 19 00-1191	EA		2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.32	4.10
22 07 19 00-1192	EA		2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.87	4.17
22 07 19 00-1193	EA		2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.55	4.27
22 07 19 00-1194	EA		3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.17	4.38
22 07 19 00-1195	EA		3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.27	4.53
22 07 19 00-1196	EA		3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.24	4.65
22 07 19 00-1197	EA		4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.97	4.78
22 07 19 00-1198	EA		4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.10	5.00
22 07 19 00-1199	EA		5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.29	5.25
22 07 19 00-1200	EA		5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	33.02	5.53
22 07 19 00-1201	EA		6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	41.53	5.84
22 07 19 00-1202	EA		6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	43.30	6.04
22 07 19 00-1203	EA		7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	48.71	6.18
22 07 19 00-1204	EA		7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	50.48	6.33
22 07 19 00-1205	EA		8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	58.64	6.57
22 07 19 00-1206	EA		9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	70.53	6.82
22 07 19 00-1207	EA		10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	76.64	7.10
22 07 19 00-1208	EA		11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	82.79	7.39
22 07 19 00-1209	EA		12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	90.28	7.73
22 07 19 00-1210	EA		14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	99.68	7.96
22 07 19 00-1211	EA		15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	105.64	8.21
22 07 19 00-1212	EA		16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	116.49	8.34
22 07 19 00-1213	EA		17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	127.51	8.47



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1214	EA		18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	148.87	8.61
22 07 19 00-1215	EA		19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	191.08	8.75
22 07 19 00-1216	EA		20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	212.38	8.90
22 07 19 00-1217	EA		1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	25.85	5.47
22 07 19 00-1218	EA		2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.85	5.58
22 07 19 00-1219	EA		2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	27.97	5.77
22 07 19 00-1220	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.21	5.97
22 07 19 00-1221	EA		2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	30.59	6.18
22 07 19 00-1222	EA		3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	31.99	6.41
22 07 19 00-1223	EA		3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.91	6.65
22 07 19 00-1224	EA		3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	35.96	6.91
22 07 19 00-1225	EA		4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	38.62	7.19
22 07 19 00-1226	EA		4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	42.25	7.51
22 07 19 00-1227	EA		5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	46.08	7.84
22 07 19 00-1228	EA		5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	52.92	8.34
22 07 19 00-1229	EA		6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	60.73	8.75
22 07 19 00-1230	EA		6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	67.42	8.90
22 07 19 00-1231	EA		7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	88.27	9.22
22 07 19 00-1232	EA		7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	95.27	9.73
22 07 19 00-1233	EA		8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	108.97	10.10
22 07 19 00-1234	EA		9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	122.87	10.50
22 07 19 00-1235	EA		10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	125.58	10.95
22 07 19 00-1236	EA		11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	135.59	11.18
22 07 19 00-1237	EA		12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	145.64	11.42
22 07 19 00-1238	EA		14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	155.81	11.67
22 07 19 00-1239	EA		15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	165.90	11.94
22 07 19 00-1240	EA		16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	176.13	12.21
22 07 19 00-1241	EA		17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	186.29	12.51
22 07 19 00-1242	EA		18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	201.25	12.81
22 07 19 00-1243	EA		19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	216.18	13.13
22 07 19 00-1244	EA		20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	234.19	13.47
22 07 19 00-1245	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.60	3.75
22 07 19 00-1246	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.60	3.75
22 07 19 00-1247	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	36.57	3.89
22 07 19 00-1248	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	36.57	3.89
22 07 19 00-1249	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.30	4.04
22 07 19 00-1250	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	53.61	4.21
22 07 19 00-1251	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.74	4.38
22 07 19 00-1252	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	65.98	4.57
22 07 19 00-1253	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	72.27	4.78
22 07 19 00-1254	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	87.10	5.25
22 07 19 00-1255	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	120.98	5.84
22 07 19 00-1256	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	132.59	6.57
22 07 19 00-1257	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	164.05	7.00
22 07 19 00-1258	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	226.55	7.73
22 07 19 00-1259	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	228.33	8.08
22 07 19 00-1260	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	299.90	8.34
22 07 19 00-1261	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	401.04	8.61
22 07 19 00-1262	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	29.77	3.75
22 07 19 00-1263	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	29.77	3.75
22 07 19 00-1264	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	34.36	3.89
22 07 19 00-1265	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	34.36	3.89
22 07 19 00-1266	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.68	4.04
22 07 19 00-1267	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	49.57	4.21
22 07 19 00-1268	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	54.31	4.38
22 07 19 00-1269	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	57.10	4.57
22 07 19 00-1270	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	66.39	4.78
22 07 19 00-1271	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	79.82	5.25
22 07 19 00-1272	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	110.26	5.84
22 07 19 00-1273	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	120.84	6.57
22 07 19 00-1274	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	149.10	7.00
22 07 19 00-1275	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	205.16	7.73
22 07 19 00-1276	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	258.99	8.08
22 07 19 00-1277	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	307.95	8.34
22 07 19 00-1278	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	358.56	8.61
22 07 19 00-1279	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	44.22	5.64
22 07 19 00-1280	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	44.22	5.64
22 07 19 00-1281	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	50.65	5.84
22 07 19 00-1282	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	50.65	5.84
22 07 19 00-1283	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	67.21	6.04
22 07 19 00-1284	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	72.91	6.26
22 07 19 00-1285	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	79.85	6.57
22 07 19 00-1286	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	84.07	6.82
22 07 19 00-1287	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	98.12	7.19
22 07 19 00-1288	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	107.75	7.84
22 07 19 00-1289	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	148.03	8.75
22 07 19 00-1290	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	161.40	9.73
22 07 19 00-1291	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	218.91	10.50
22 07 19 00-1292	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	299.95	11.42
22 07 19 00-1293	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	355.99	12.21
22 07 19 00-1294	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	418.44	12.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-1295	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	457.13	12.81
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22 10 Plumbing Piping⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution^(22 10)

22 11 16 Domestic Water Piping^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.40	5.19
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.33	
		<i>For ASTM 120, Deduct</i>	-0.63	
		<i>For Work In Restricted Working Space, Add</i>	5.16	
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	23.35	5.57
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.96	
		<i>For ASTM 120, Deduct</i>	-0.77	
		<i>For Work In Restricted Working Space, Add</i>	5.46	
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	26.21	6.10
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.93	
		<i>For ASTM 120, Deduct</i>	-1.01	
		<i>For Work In Restricted Working Space, Add</i>	5.84	
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	30.32	6.36
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	8.48	
		<i>For ASTM 120, Deduct</i>	-1.45	
		<i>For Work In Restricted Working Space, Add</i>	6.20	
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	32.53	7.53
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	9.25	
		<i>For ASTM 120, Deduct</i>	-1.65	
		<i>For Work In Restricted Working Space, Add</i>	6.47	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	39.01	9.07
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	11.42	
		<i>For ASTM 120, Deduct</i>	-2.17	
		<i>For Work In Restricted Working Space, Add</i>	7.36	
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	55.95	10.76
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	17.99	
		<i>For ASTM 120, Deduct</i>	-4.08	
		<i>For Work In Restricted Working Space, Add</i>	8.62	
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	68.72	14.40
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	22.22	
		<i>For ASTM 120, Deduct</i>	-5.09	
		<i>For Work In Restricted Working Space, Add</i>	10.45	
22 11 16 00-0010	LF	4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	101.37	15.33
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	36.66	
		<i>For ASTM 120, Deduct</i>	-9.83	
		<i>For Work In Restricted Working Space, Add</i>	10.75	
22 11 16 00-0011	LF	5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	181.64	19.59
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	70.92	
		<i>For ASTM 120, Deduct</i>	-20.76	
		<i>For Work In Restricted Working Space, Add</i>	12.98	
22 11 16 00-0012	LF	6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	215.17	23.17
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	84.54	
		<i>For ASTM 120, Deduct</i>	-24.90	
		<i>For Work In Restricted Working Space, Add</i>	14.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0013 Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014 Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015 LF 1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....9.97	9.97	5.19
For Schedule 80 Pipe, Add	1.80	
For ASTM 120, Deduct	-0.32	
For Work In Restricted Working Space, Add	2.36	
22 11 16 00-0016 LF 3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....11.16	11.16	5.57
For Schedule 80 Pipe, Add	2.18	
For ASTM 120, Deduct	-0.42	
For Work In Restricted Working Space, Add	2.51	
22 11 16 00-0017 LF 1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....13.21	13.21	6.10
For Schedule 80 Pipe, Add	2.90	
For ASTM 120, Deduct	-0.62	
For Work In Restricted Working Space, Add	2.72	
22 11 16 00-0018 LF 1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....15.23	15.23	6.36
For Schedule 80 Pipe, Add	3.66	
For ASTM 120, Deduct	-0.84	
For Work In Restricted Working Space, Add	2.88	
22 11 16 00-0019 LF 1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....18.00	18.00	7.53
For Schedule 80 Pipe, Add	4.35	
For ASTM 120, Deduct	-1.01	
For Work In Restricted Working Space, Add	3.38	
22 11 16 00-0020 LF 2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....22.67	22.67	9.07
For Schedule 80 Pipe, Add	5.69	
For ASTM 120, Deduct	-1.35	
For Work In Restricted Working Space, Add	4.10	
22 11 16 00-0021 LF 2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....30.52	30.52	10.76
For Schedule 80 Pipe, Add	8.49	
For ASTM 120, Deduct	-2.15	
For Work In Restricted Working Space, Add	4.86	
22 11 16 00-0022 LF 3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....40.34	40.34	14.40
For Schedule 80 Pipe, Add	11.15	
For ASTM 120, Deduct	-2.81	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0023 LF 4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....49.72	49.72	15.33
For Schedule 80 Pipe, Add	15.10	
For ASTM 120, Deduct	-4.00	
For Work In Restricted Working Space, Add	6.92	
22 11 16 00-0024 LF 5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....65.10	65.10	19.59
For Schedule 80 Pipe, Add	20.10	
For ASTM 120, Deduct	-5.36	
For Work In Restricted Working Space, Add	8.80	
22 11 16 00-0025 LF 6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....81.08	81.08	23.17
For Schedule 80 Pipe, Add	25.73	
For ASTM 120, Deduct	-6.96	
For Work In Restricted Working Space, Add	10.41	
22 11 16 00-0026 LF 8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....92.03	92.03	28.01
For Schedule 80 Pipe, Add	28.24	
For ASTM 120, Deduct	-7.52	
For Work In Restricted Working Space, Add	12.58	
22 11 16 00-0027 Seamless, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028 LF 1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....11.83	11.83	5.19
For Schedule 80 Pipe, Add	2.69	
For ASTM 120, Deduct	-0.60	
For Work In Restricted Working Space, Add	2.36	
22 11 16 00-0029 LF 3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....13.13	13.13	5.57
For Schedule 80 Pipe, Add	3.12	
For ASTM 120, Deduct	-0.71	
For Work In Restricted Working Space, Add	2.51	
22 11 16 00-0030 LF 1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....14.59	14.59	6.10
For Schedule 80 Pipe, Add	3.56	
For ASTM 120, Deduct	-0.83	
For Work In Restricted Working Space, Add	2.72	
22 11 16 00-0031 LF 1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....16.56	16.56	6.36
For Schedule 80 Pipe, Add	4.30	
For ASTM 120, Deduct	-1.04	
For Work In Restricted Working Space, Add	2.88	
22 11 16 00-0032 LF 1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....19.22	19.22	7.53
For Schedule 80 Pipe, Add	4.94	
For ASTM 120, Deduct	-1.19	
For Work In Restricted Working Space, Add	3.38	
22 11 16 00-0033 LF 2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....22.69	22.69	9.07
For Schedule 80 Pipe, Add	5.70	
For ASTM 120, Deduct	-1.36	
For Work In Restricted Working Space, Add	4.10	
22 11 16 00-0034 LF 2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....31.34	31.34	10.76
For Schedule 80 Pipe, Add	8.88	
For ASTM 120, Deduct	-2.27	
For Work In Restricted Working Space, Add	4.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0035 LF 3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	40.11	14.40
<i>For Schedule 80 Pipe, Add</i>	11.04	
<i>For ASTM 120, Deduct</i>	-2.78	
<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0036 LF 4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	49.51	15.33
<i>For Schedule 80 Pipe, Add</i>	15.00	
<i>For ASTM 120, Deduct</i>	-3.97	
<i>For Work In Restricted Working Space, Add</i>	6.92	
22 11 16 00-0037 LF 5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	63.86	19.59
<i>For Schedule 80 Pipe, Add</i>	19.50	
<i>For ASTM 120, Deduct</i>	-5.18	
<i>For Work In Restricted Working Space, Add</i>	8.80	
22 11 16 00-0038 LF 6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	78.86	23.17
<i>For Schedule 80 Pipe, Add</i>	24.67	
<i>For ASTM 120, Deduct</i>	-6.62	
<i>For Work In Restricted Working Space, Add</i>	10.41	
22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040 EA 1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	40.02	23.08
<i>For 300 LB Rating, Add</i>	20.57	
<i>For ASTM 120, Deduct</i>	-0.82	
<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0041 EA 3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	45.39	25.81
<i>For 300 LB Rating, Add</i>	25.03	
<i>For ASTM 120, Deduct</i>	-1.00	
<i>For Work In Restricted Working Space, Add</i>	11.61	
22 11 16 00-0042 EA 1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	55.59	28.78
<i>For 300 LB Rating, Add</i>	44.65	
<i>For ASTM 120, Deduct</i>	-1.86	
<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0043 EA 1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	68.47	32.68
<i>For 300 LB Rating, Add</i>	69.37	
<i>For ASTM 120, Deduct</i>	-2.93	
<i>For Work In Restricted Working Space, Add</i>	14.68	
22 11 16 00-0044 EA 1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	80.69	36.83
<i>For 300 LB Rating, Add</i>	90.04	
<i>For ASTM 120, Deduct</i>	-3.83	
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 11 16 00-0045 EA 2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	111.87	46.81
<i>For 300 LB Rating, Add</i>	146.26	
<i>For ASTM 120, Deduct</i>	-6.27	
<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0046 EA 2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	213.08	69.25
<i>For 300 LB Rating, Add</i>	377.98	
<i>For ASTM 120, Deduct</i>	-16.40	
<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0047 EA 3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	316.76	91.03
<i>For 300 LB Rating, Add</i>	621.07	
<i>For ASTM 120, Deduct</i>	-27.04	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 11 16 00-0048 EA 4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	452.43	89.68
<i>For 300 LB Rating, Add</i>	1,089.07	
<i>For ASTM 120, Deduct</i>	-47.69	
<i>For Work In Restricted Working Space, Add</i>	40.35	
22 11 16 00-0049 EA 5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,513.37	93.60
<i>For 300 LB Rating, Add</i>	4,676.72	
<i>For ASTM 120, Deduct</i>	-205.95	
<i>For Work In Restricted Working Space, Add</i>	42.10	
22 11 16 00-0050 EA 6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,412.51	97.87
<i>For 300 LB Rating, Add</i>	4,312.49	
<i>For ASTM 120, Deduct</i>	-189.87	
<i>For Work In Restricted Working Space, Add</i>	44.02	
22 11 16 00-0051 EA 8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,680.41	102.27
<i>For 300 LB Rating, Add</i>	5,201.31	
<i>For ASTM 120, Deduct</i>	-229.06	
<i>For Work In Restricted Working Space, Add</i>	46.00	
22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0053 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	48.26	24.38
<i>For ASTM 120, Deduct</i>	-1.74	
<i>For Work In Restricted Working Space, Add</i>	11.00	
22 11 16 00-0054 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	55.87	27.36
<i>For ASTM 120, Deduct</i>	-2.24	
<i>For Work In Restricted Working Space, Add</i>	12.29	
22 11 16 00-0055 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	54.71	25.94
<i>For ASTM 120, Deduct</i>	-2.37	
<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0056 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	71.08	30.73
<i>For ASTM 120, Deduct</i>	-3.75	
<i>For Work In Restricted Working Space, Add</i>	13.82	
22 11 16 00-0057 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	73.83	29.18
<i>For ASTM 120, Deduct</i>	-4.50	
<i>For Work In Restricted Working Space, Add</i>	13.14	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0058 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	73.56	27.88
For ASTM 120, Deduct	-4.77	
For Work In Restricted Working Space, Add	12.53	
22 11 16 00-0059 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	91.99	34.75
For ASTM 120, Deduct	-5.99	
For Work In Restricted Working Space, Add	15.62	
22 11 16 00-0060 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	89.14	32.81
For ASTM 120, Deduct	-5.99	
For Work In Restricted Working Space, Add	14.76	
22 11 16 00-0061 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	86.88	31.25
For ASTM 120, Deduct	-5.99	
For Work In Restricted Working Space, Add	14.08	
22 11 16 00-0062 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	109.30	41.75
For ASTM 120, Deduct	-7.00	
For Work In Restricted Working Space, Add	18.79	
22 11 16 00-0063 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	113.00	39.68
For ASTM 120, Deduct	-8.02	
For Work In Restricted Working Space, Add	17.85	
22 11 16 00-0064 EA 2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	112.15	37.74
For ASTM 120, Deduct	-8.33	
For Work In Restricted Working Space, Add	17.00	
22 11 16 00-0065 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	96.50	36.31
For ASTM 120, Deduct	-6.32	
For Work In Restricted Working Space, Add	16.32	
22 11 16 00-0066 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	245.07	57.97
For ASTM 120, Deduct	-23.72	
For Work In Restricted Working Space, Add	26.08	
22 11 16 00-0067 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	255.66	53.04
For ASTM 120, Deduct	-26.43	
For Work In Restricted Working Space, Add	23.84	
22 11 16 00-0068 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	407.56	80.14
For ASTM 120, Deduct	-43.12	
For Work In Restricted Working Space, Add	36.04	
22 11 16 00-0069 EA 3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	352.95	68.85
For ASTM 120, Deduct	-37.45	
For Work In Restricted Working Space, Add	30.99	
22 11 16 00-0070 EA 4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	778.35	85.30
For ASTM 120, Deduct	-97.56	
For Work In Restricted Working Space, Add	38.38	
22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)		
22 11 16 00-0072 EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	40.51	23.08
For 300 LB Rating, Add	22.24	
For ASTM 120, Deduct	-0.89	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0073 EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	47.23	25.81
For 300 LB Rating, Add	31.29	
For ASTM 120, Deduct	-1.28	
For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0074 EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	52.84	28.78
For 300 LB Rating, Add	35.30	
For ASTM 120, Deduct	-1.44	
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0075 EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	66.90	32.68
For 300 LB Rating, Add	64.03	
For ASTM 120, Deduct	-2.70	
For Work In Restricted Working Space, Add	14.68	
22 11 16 00-0076 EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	76.29	36.83
For 300 LB Rating, Add	75.08	
For ASTM 120, Deduct	-3.17	
For Work In Restricted Working Space, Add	16.55	
22 11 16 00-0077 EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	101.33	46.81
For 300 LB Rating, Add	110.42	
For ASTM 120, Deduct	-4.69	
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0078 EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	212.44	69.25
For 300 LB Rating, Add	375.80	
For ASTM 120, Deduct	-16.31	
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0079 EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	294.59	91.03
For 300 LB Rating, Add	545.70	
For ASTM 120, Deduct	-23.71	
For Work In Restricted Working Space, Add	40.95	
22 11 16 00-0080 EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	399.52	89.68
For 300 LB Rating, Add	909.17	
For ASTM 120, Deduct	-39.75	
For Work In Restricted Working Space, Add	40.35	
22 11 16 00-0081 EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,211.28	93.60
For 300 LB Rating, Add	3,649.62	
For ASTM 120, Deduct	-160.64	
For Work In Restricted Working Space, Add	42.10	
22 11 16 00-0082 EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,438.03	97.87
For 300 LB Rating, Add	4,399.26	
For ASTM 120, Deduct	-193.70	
For Work In Restricted Working Space, Add	44.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0083	EA			8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,708.97 5,298.41 -233.35 46.00	102.27
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)						
22 11 16 00-0085	EA			1/2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	49.92 25.37 -1.01 12.97	28.78
22 11 16 00-0086	EA			3/4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	60.93 40.60 -1.66 14.96	33.33
22 11 16 00-0087	EA			1", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	76.82 64.33 -2.68 17.68	39.30
22 11 16 00-0088	EA			1-1/4", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	98.47 100.70 -4.26 21.03	46.81
22 11 16 00-0089	EA			1-1/2", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	118.93 124.94 -5.29 25.10	55.76
22 11 16 00-0090	EA			2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	161.07 201.15 -8.60 31.12	69.25
22 11 16 00-0091	EA			2-1/2", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	274.17 555.56 -24.21 33.83	75.21
22 11 16 00-0092	EA			3", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	325.78 651.74 -28.39 40.95	91.03
22 11 16 00-0093	EA			4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	617.67 1,532.65 -67.17 50.97	113.32
22 11 16 00-0094	EA			5", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,609.28 4,797.74 -211.13 60.52	134.53
22 11 16 00-0095	EA			6", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,827.04 5,441.87 -239.47 69.17	153.78
22 11 16 00-0096	EA			8", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,173.58 6,466.09 -284.54 83.00	182.60
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)						
22 11 16 00-0098	EA			1/2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.81 55.60 -2.34 12.97	28.78
22 11 16 00-0099	EA			3/4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.24 55.25 -2.31 14.96	33.33
22 11 16 00-0100	EA			1", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.54 76.98 -3.24 17.68	39.30
22 11 16 00-0101	EA			1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	103.59 118.11 -5.03 21.03	46.81
22 11 16 00-0102	EA			1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	125.03 145.68 -6.21 25.10	55.76
22 11 16 00-0103	EA			2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	164.14 211.58 -9.06 31.12	69.25

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0104	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	326.44	75.47
			<i>For 300 LB Rating, Add</i>	732.11	
			<i>For ASTM 120, Deduct</i>	-32.00	
			<i>For Work In Restricted Working Space, Add</i>	33.93	
22 11 16 00-0105	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	415.34	92.46
			<i>For 300 LB Rating, Add</i>	949.03	
			<i>For ASTM 120, Deduct</i>	-41.50	
			<i>For Work In Restricted Working Space, Add</i>	41.60	
22 11 16 00-0106	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	971.94	113.32
			<i>For 300 LB Rating, Add</i>	2,737.16	
			<i>For ASTM 120, Deduct</i>	-120.31	
			<i>For Work In Restricted Working Space, Add</i>	50.97	
22 11 16 00-0107	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,154.97	134.53
			<i>For 300 LB Rating, Add</i>	6,653.09	
			<i>For ASTM 120, Deduct</i>	-292.98	
			<i>For Work In Restricted Working Space, Add</i>	60.52	
22 11 16 00-0108	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,340.62	153.78
			<i>For 300 LB Rating, Add</i>	7,188.04	
			<i>For ASTM 120, Deduct</i>	-316.51	
			<i>For Work In Restricted Working Space, Add</i>	69.17	
22 11 16 00-0109	EA		8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,809.32	176.59
			<i>For 300 LB Rating, Add</i>	8,666.12	
			<i>For ASTM 120, Deduct</i>	-381.63	
			<i>For Work In Restricted Working Space, Add</i>	79.54	
22 11 16 00-0110			Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	40.57	23.08
			<i>For 300 LB Rating, Add</i>	22.44	
			<i>For ASTM 120, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0112	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	45.61	25.81
			<i>For 300 LB Rating, Add</i>	25.78	
			<i>For ASTM 120, Deduct</i>	-1.04	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
22 11 16 00-0113	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	54.53	28.78
			<i>For 300 LB Rating, Add</i>	41.05	
			<i>For ASTM 120, Deduct</i>	-1.70	
			<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0114	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	64.88	32.68
			<i>For 300 LB Rating, Add</i>	57.17	
			<i>For ASTM 120, Deduct</i>	-2.39	
			<i>For Work In Restricted Working Space, Add</i>	14.68	
22 11 16 00-0115	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	73.31	36.83
			<i>For 300 LB Rating, Add</i>	64.95	
			<i>For ASTM 120, Deduct</i>	-2.72	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 11 16 00-0116	EA		2", 150 LB, Galvanized Malleable Iron Coupling.....	96.60	46.81
			<i>For 300 LB Rating, Add</i>	94.34	
			<i>For ASTM 120, Deduct</i>	-3.98	
			<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0117	EA		2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	184.89	69.25
			<i>For 300 LB Rating, Add</i>	282.13	
			<i>For ASTM 120, Deduct</i>	-12.17	
			<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0118	EA		3", 150 LB, Galvanized Malleable Iron Coupling.....	244.96	91.03
			<i>For 300 LB Rating, Add</i>	376.95	
			<i>For ASTM 120, Deduct</i>	-16.27	
			<i>For Work In Restricted Working Space, Add</i>	40.95	
22 11 16 00-0119	EA		4", 150 LB, Galvanized Malleable Iron Coupling.....	364.84	89.68
			<i>For 300 LB Rating, Add</i>	791.26	
			<i>For ASTM 120, Deduct</i>	-34.55	
			<i>For Work In Restricted Working Space, Add</i>	40.35	
22 11 16 00-0120	EA		5", 150 LB, Galvanized Malleable Iron Coupling.....	788.95	93.60
			<i>For 300 LB Rating, Add</i>	2,213.69	
			<i>For ASTM 120, Deduct</i>	-97.29	
			<i>For Work In Restricted Working Space, Add</i>	42.10	
22 11 16 00-0121	EA		6", 150 LB, Galvanized Malleable Iron Coupling.....	885.66	97.87
			<i>For 300 LB Rating, Add</i>	2,521.20	
			<i>For ASTM 120, Deduct</i>	-110.84	
			<i>For Work In Restricted Working Space, Add</i>	44.02	
22 11 16 00-0122	EA		8", 150 LB, Galvanized Malleable Iron Coupling.....	1,043.90	102.27
			<i>For 300 LB Rating, Add</i>	3,037.17	
			<i>For ASTM 120, Deduct</i>	-133.59	
			<i>For Work In Restricted Working Space, Add</i>	46.00	
22 11 16 00-0123			Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	41.85	23.08
			<i>For 300 LB Rating, Add</i>	26.79	
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	10.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0125	EA			3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	46.48	25.81
				<i>For 300 LB Rating, Add</i>	28.74	
				<i>For ASTM 120, Deduct</i>	-1.17	
				<i>For Work In Restricted Working Space, Add</i>	11.61	
22 11 16 00-0126	EA			1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	56.17	28.78
				<i>For 300 LB Rating, Add</i>	46.62	
				<i>For ASTM 120, Deduct</i>	-1.94	
				<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0127	EA			1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling	65.67	32.68
				<i>For 300 LB Rating, Add</i>	59.85	
				<i>For ASTM 120, Deduct</i>	-2.51	
				<i>For Work In Restricted Working Space, Add</i>	14.68	
22 11 16 00-0128	EA			1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	76.77	36.83
				<i>For 300 LB Rating, Add</i>	76.72	
				<i>For ASTM 120, Deduct</i>	-3.24	
				<i>For Work In Restricted Working Space, Add</i>	16.55	
22 11 16 00-0129	EA			2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	99.54	46.81
				<i>For 300 LB Rating, Add</i>	104.34	
				<i>For ASTM 120, Deduct</i>	-4.42	
				<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0130	EA			2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	185.92	69.25
				<i>For 300 LB Rating, Add</i>	285.64	
				<i>For ASTM 120, Deduct</i>	-12.33	
				<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0131	EA			3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	241.89	91.03
				<i>For 300 LB Rating, Add</i>	366.52	
				<i>For ASTM 120, Deduct</i>	-15.81	
				<i>For Work In Restricted Working Space, Add</i>	40.95	
22 11 16 00-0132	EA			4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	370.77	89.68
				<i>For 300 LB Rating, Add</i>	811.42	
				<i>For ASTM 120, Deduct</i>	-35.44	
				<i>For Work In Restricted Working Space, Add</i>	40.35	
22 11 16 00-0133	EA			5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	823.09	93.60
				<i>For 300 LB Rating, Add</i>	2,329.77	
				<i>For ASTM 120, Deduct</i>	-102.41	
				<i>For Work In Restricted Working Space, Add</i>	42.10	
22 11 16 00-0134	EA			6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	924.55	97.87
				<i>For 300 LB Rating, Add</i>	2,653.43	
				<i>For ASTM 120, Deduct</i>	-116.67	
				<i>For Work In Restricted Working Space, Add</i>	44.02	
22 11 16 00-0135	EA			8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,091.12	102.27
				<i>For 300 LB Rating, Add</i>	3,197.72	
				<i>For ASTM 120, Deduct</i>	-140.67	
				<i>For Work In Restricted Working Space, Add</i>	46.00	
22 11 16 00-0136				Galvanized Malleable Iron Caps <small>(22 11 16 00-0013)</small>		
22 11 16 00-0137	EA			1/2", 150 LB, Galvanized Malleable Iron Cap	18.45	10.76
				<i>For 300 LB Rating, Add</i>	8.59	
				<i>For ASTM 120, Deduct</i>	-0.34	
				<i>For Work In Restricted Working Space, Add</i>	4.86	
22 11 16 00-0138	EA			3/4", 150 LB, Galvanized Malleable Iron Cap	20.39	11.54
				<i>For 300 LB Rating, Add</i>	11.58	
				<i>For ASTM 120, Deduct</i>	-0.47	
				<i>For Work In Restricted Working Space, Add</i>	5.19	
22 11 16 00-0139	EA			1", 150 LB, Galvanized Malleable Iron Cap	23.79	13.36
				<i>For 300 LB Rating, Add</i>	14.25	
				<i>For ASTM 120, Deduct</i>	-0.58	
				<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0140	EA			1-1/4", 150 LB, Galvanized Malleable Iron Cap	25.98	14.00
				<i>For 300 LB Rating, Add</i>	18.46	
				<i>For ASTM 120, Deduct</i>	-0.76	
				<i>For Work In Restricted Working Space, Add</i>	6.28	
22 11 16 00-0141	EA			1-1/2", 150 LB, Galvanized Malleable Iron Cap	25.66	14.00
				<i>For 300 LB Rating, Add</i>	17.37	
				<i>For ASTM 120, Deduct</i>	-0.71	
				<i>For Work In Restricted Working Space, Add</i>	6.28	
22 11 16 00-0142	EA			2", 150 LB, Galvanized Malleable Iron Cap	38.03	18.54
				<i>For 300 LB Rating, Add</i>	36.15	
				<i>For ASTM 120, Deduct</i>	-1.52	
				<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0143	EA			2-1/2", 150 LB, Galvanized Malleable Iron Cap	57.34	23.08
				<i>For 300 LB Rating, Add</i>	79.46	
				<i>For ASTM 120, Deduct</i>	-3.41	
				<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0144	EA			3", 150 LB, Galvanized Malleable Iron Cap	74.23	27.88
				<i>For 300 LB Rating, Add</i>	112.67	
				<i>For ASTM 120, Deduct</i>	-4.86	
				<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0145	EA			4", 150 LB, Galvanized Malleable Iron Cap	106.68	30.78
				<i>For 300 LB Rating, Add</i>	208.67	
				<i>For ASTM 120, Deduct</i>	-9.08	
				<i>For Work In Restricted Working Space, Add</i>	13.84	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap	258.69	38.50
For 300 LB Rating, Add	687.03	
For ASTM 120, Deduct	-30.16	
For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap	322.07	45.76
For 300 LB Rating, Add	865.65	
For ASTM 120, Deduct	-38.01	
For Work In Restricted Working Space, Add	20.60	
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap	405.04	51.13
For 300 LB Rating, Add	1,121.09	
For ASTM 120, Deduct	-49.26	
For Work In Restricted Working Space, Add	23.00	
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)		
22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union	59.55	28.78
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union	68.63	33.33
For Work In Restricted Working Space, Add	14.96	
22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union	83.51	39.30
For Work In Restricted Working Space, Add	17.68	
22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union	105.61	46.81
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union	126.70	55.76
For Work In Restricted Working Space, Add	25.10	
22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union	153.22	69.25
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union	325.01	102.05
For Work In Restricted Working Space, Add	45.94	
22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union	442.05	134.22
For Work In Restricted Working Space, Add	60.45	
22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union	76.42	28.78
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union	80.04	33.33
For Work In Restricted Working Space, Add	14.96	
22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union	96.33	39.30
For Work In Restricted Working Space, Add	17.68	
22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union	126.73	46.81
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union	148.86	55.76
For Work In Restricted Working Space, Add	25.10	
22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union	195.82	69.25
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union	395.37	102.05
For Work In Restricted Working Space, Add	45.94	
22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union	573.15	134.22
For Work In Restricted Working Space, Add	60.45	
22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union	781.53	132.34
For Work In Restricted Working Space, Add	59.56	
22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union	81.05	28.78
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union	90.89	33.33
For Work In Restricted Working Space, Add	14.96	
22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union	113.35	39.30
For Work In Restricted Working Space, Add	17.68	
22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union	145.97	46.81
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union	175.03	55.76
For Work In Restricted Working Space, Add	25.10	
22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union	213.41	69.25
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0173 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union	459.05	102.05
For Work In Restricted Working Space, Add	45.94	
22 11 16 00-0174 EA 3", 300 LB, Galvanized Malleable Iron Union	718.88	134.22
For Work In Restricted Working Space, Add	60.45	
22 11 16 00-0175 EA 4", 300 LB, Galvanized Malleable Iron Union	1,496.14	132.34
For Work In Restricted Working Space, Add	59.56	
22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)		
Note: ASTM A-53.		
22 11 16 00-0177 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple	20.84	12.31
For Schedule 80 Nipples, Add	2.64	
For ASTM 120, Deduct	-0.35	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0178 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple	20.40	12.31
For Schedule 80 Nipples, Add	2.14	
For ASTM 120, Deduct	-0.28	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0179 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple	20.80	12.31
For Schedule 80 Nipples, Add	2.60	
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	5.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.08 3.57 -0.47 5.99	13.36
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	25.80 4.78 -0.63 6.48	14.40
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.53 5.61 -0.74 6.48	14.40
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.83 7.91 -1.04 8.37	18.54
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.23 23.54 -3.10 10.37	23.08
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	66.58 28.22 -3.71 12.55	27.88
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	83.21 42.28 -5.56 13.84	30.78
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.18 3.03 -0.40 5.56	12.31
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.50 2.26 -0.30 5.56	12.31
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.00 2.83 -0.37 5.56	12.31
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.18 3.03 -0.40 5.56	12.31
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.50 2.26 -0.30 5.56	12.31
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.00 2.83 -0.37 5.56	12.31
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.64 4.21 -0.55 5.99	13.36
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.11 5.13 -0.68 6.48	14.40
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.89 6.02 -0.79 6.48	14.40
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.07 4.05 -0.53 5.56	12.31
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.84 2.64 -0.35 5.56	12.31
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.26 3.12 -0.41 5.56	12.31
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.94 4.55 -0.60 5.99	13.36
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.55 5.63 -0.74 6.48	14.40

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	35.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	8.89	
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	22.07	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.05	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.84	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.64	
			<i>For ASTM 120, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	21.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.12	
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	23.94	13.36
			<i>For Schedule 80 Nipples, Add</i>	4.55	
			<i>For ASTM 120, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	26.55	14.40
			<i>For Schedule 80 Nipples, Add</i>	5.63	
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	35.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	8.89	
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	56.02	23.08
			<i>For Schedule 80 Nipples, Add</i>	24.44	
			<i>For ASTM 120, Deduct</i>	-3.22	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	69.98	27.88
			<i>For Schedule 80 Nipples, Add</i>	32.09	
			<i>For ASTM 120, Deduct</i>	-4.22	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.38	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.26	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.07	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.05	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.75	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.47	
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.48	
			<i>For ASTM 120, Deduct</i>	-1.12	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	37.37	18.54
			<i>For Schedule 80 Nipples, Add</i>	10.81	
			<i>For ASTM 120, Deduct</i>	-1.42	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	59.47	23.08
			<i>For Schedule 80 Nipples, Add</i>	28.37	
			<i>For ASTM 120, Deduct</i>	-3.73	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	74.86	27.88
			<i>For Schedule 80 Nipples, Add</i>	37.65	
			<i>For ASTM 120, Deduct</i>	-4.95	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	21.38	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.26	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple	24.75	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.47	
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.48	
			<i>For ASTM 120, Deduct</i>	-1.12	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple	37.45	18.54
			<i>For Schedule 80 Nipples, Add</i>	10.90	
			<i>For ASTM 120, Deduct</i>	-1.43	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	59.47	23.08
			<i>For Schedule 80 Nipples, Add</i>	28.37	
			<i>For ASTM 120, Deduct</i>	-3.73	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple	74.86	27.88
			<i>For Schedule 80 Nipples, Add</i>	37.65	
			<i>For ASTM 120, Deduct</i>	-4.95	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple	90.47	30.78
			<i>For Schedule 80 Nipples, Add</i>	50.56	
			<i>For ASTM 120, Deduct</i>	-6.65	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.33	12.31
			<i>For Schedule 80 Nipples, Add</i>	6.62	
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.93	
			<i>For ASTM 120, Deduct</i>	-0.52	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.76	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.83	
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	28.89	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.30	
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	30.60	14.40
			<i>For Schedule 80 Nipples, Add</i>	10.25	
			<i>For ASTM 120, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	39.99	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.79	
			<i>For ASTM 120, Deduct</i>	-1.82	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	62.33	23.08
			<i>For Schedule 80 Nipples, Add</i>	31.64	
			<i>For ASTM 120, Deduct</i>	-4.16	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	80.33	27.88
			<i>For Schedule 80 Nipples, Add</i>	43.89	
			<i>For ASTM 120, Deduct</i>	-5.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	95.85	30.78
			<i>For Schedule 80 Nipples, Add</i>	56.69	
			<i>For ASTM 120, Deduct</i>	-7.46	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.33	12.31
			<i>For Schedule 80 Nipples, Add</i>	6.62	
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	21.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.93	
			<i>For ASTM 120, Deduct</i>	-0.52	
			<i>For Work In Restricted Working Space, Add</i>	5.56	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	22.76	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.83	
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	25.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	28.89	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.30	
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	30.60	14.40
			<i>For Schedule 80 Nipples, Add</i>	10.25	
			<i>For ASTM 120, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	39.99	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.79	
			<i>For ASTM 120, Deduct</i>	-1.82	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	62.33	23.08
			<i>For Schedule 80 Nipples, Add</i>	31.64	
			<i>For ASTM 120, Deduct</i>	-4.16	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	80.33	27.88
			<i>For Schedule 80 Nipples, Add</i>	43.89	
			<i>For ASTM 120, Deduct</i>	-5.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	95.85	30.78
			<i>For Schedule 80 Nipples, Add</i>	56.69	
			<i>For ASTM 120, Deduct</i>	-7.46	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	24.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	7.35	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	22.43	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.46	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	23.60	12.31
			<i>For Schedule 80 Nipples, Add</i>	5.79	
			<i>For ASTM 120, Deduct</i>	-0.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	26.63	13.36
			<i>For Schedule 80 Nipples, Add</i>	7.62	
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	30.06	14.40
			<i>For Schedule 80 Nipples, Add</i>	9.63	
			<i>For ASTM 120, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	31.73	14.40
			<i>For Schedule 80 Nipples, Add</i>	11.54	
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	41.95	18.54
			<i>For Schedule 80 Nipples, Add</i>	16.03	
			<i>For ASTM 120, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	65.07	23.08
			<i>For Schedule 80 Nipples, Add</i>	34.76	
			<i>For ASTM 120, Deduct</i>	-4.57	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	82.55	27.88
			<i>For Schedule 80 Nipples, Add</i>	46.42	
			<i>For ASTM 120, Deduct</i>	-6.11	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	101.10	30.78
			<i>For Schedule 80 Nipples, Add</i>	62.68	
			<i>For ASTM 120, Deduct</i>	-8.25	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	44.31	12.31
			<i>For Schedule 80 Nipples, Add</i>	29.40	
			<i>For ASTM 120, Deduct</i>	-3.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	25.42	12.31
			<i>For Schedule 80 Nipples, Add</i>	7.87	
			<i>For ASTM 120, Deduct</i>	-1.04	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	27.33	12.31
			<i>For Schedule 80 Nipples, Add</i>	10.04	
			<i>For ASTM 120, Deduct</i>	-1.32	
			<i>For Work In Restricted Working Space, Add</i>	5.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.12 12.73 -1.68 5.99	13.36
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	35.30 15.61 -2.05 6.48	14.40
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.32 17.91 -2.36 6.48	14.40
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	50.80 26.12 -3.44 8.37	18.54
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.83 44.75 -5.89 10.37	23.08
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	96.69 62.54 -8.23 12.55	27.88
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	111.73 74.80 -9.84 13.84	30.78
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.82 14.02 -1.85 5.56	12.31
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.71 9.34 -1.23 5.56	12.31
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.30 11.15 -1.47 5.56	12.31
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.72 14.56 -1.92 5.99	13.36
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.99 18.67 -2.46 6.48	14.40
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.92 20.87 -2.75 6.48	14.40
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.69 30.55 -4.02 8.37	18.54
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	79.31 50.99 -6.71 10.37	23.08
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	104.41 71.34 -9.39 12.55	27.88
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	122.15 86.67 -11.40 13.84	30.78
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.15 15.54 -2.04 5.56	12.31
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.84 10.62 -1.40 5.56	12.31
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.49 12.51 -1.65 5.56	12.31
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.81 16.94 -2.23 5.99	13.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	41.27	14.40
			<i>For Schedule 80 Nipples, Add</i>	22.41	
			<i>For ASTM 120, Deduct</i>	-2.95	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	42.56	14.40
			<i>For Schedule 80 Nipples, Add</i>	23.88	
			<i>For ASTM 120, Deduct</i>	-3.14	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	58.65	18.54
			<i>For Schedule 80 Nipples, Add</i>	35.07	
			<i>For ASTM 120, Deduct</i>	-4.61	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0288	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	84.64	23.08
			<i>For Schedule 80 Nipples, Add</i>	57.07	
			<i>For ASTM 120, Deduct</i>	-7.51	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0289	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	112.20	27.88
			<i>For Schedule 80 Nipples, Add</i>	80.22	
			<i>For ASTM 120, Deduct</i>	-10.56	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0290	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	132.68	30.78
			<i>For Schedule 80 Nipples, Add</i>	98.68	
			<i>For ASTM 120, Deduct</i>	-12.98	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0291			Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	19.33	9.21
			<i>For 300 LB Rating, Add</i>	19.53	
			<i>For Work In Restricted Working Space, Add</i>	4.15	
22 11 16 00-0293	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.98	10.37
			<i>For 300 LB Rating, Add</i>	19.63	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0294	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	23.32	11.54
			<i>For 300 LB Rating, Add</i>	21.57	
			<i>For Work In Restricted Working Space, Add</i>	5.18	
22 11 16 00-0295	EA		1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	28.85	13.10
			<i>For 300 LB Rating, Add</i>	32.73	
			<i>For Work In Restricted Working Space, Add</i>	5.87	
22 11 16 00-0296	EA		1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	34.57	14.66
			<i>For 300 LB Rating, Add</i>	43.82	
			<i>For Work In Restricted Working Space, Add</i>	6.62	
22 11 16 00-0297	EA		2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	43.94	18.67
			<i>For 300 LB Rating, Add</i>	55.74	
			<i>For Work In Restricted Working Space, Add</i>	8.41	
22 11 16 00-0298	EA		2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	72.51	27.62
			<i>For 300 LB Rating, Add</i>	107.92	
			<i>For Work In Restricted Working Space, Add</i>	12.45	
22 11 16 00-0299	EA		3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	98.61	36.44
			<i>For 300 LB Rating, Add</i>	152.88	
			<i>For Work In Restricted Working Space, Add</i>	16.38	
22 11 16 00-0300	EA		4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	145.14	35.85
			<i>For 300 LB Rating, Add</i>	313.78	
			<i>For Work In Restricted Working Space, Add</i>	16.14	
22 11 16 00-0301	EA		5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	223.72	37.46
			<i>For 300 LB Rating, Add</i>	573.14	
			<i>For Work In Restricted Working Space, Add</i>	16.84	
22 11 16 00-0302	EA		6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	239.86	39.07
			<i>For 300 LB Rating, Add</i>	619.50	
			<i>For Work In Restricted Working Space, Add</i>	17.61	
22 11 16 00-0303			Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0304	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	49.81	24.38
			<i>For Work In Restricted Working Space, Add</i>	11.00	
22 11 16 00-0305	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	54.64	25.94
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0306	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	55.88	27.36
			<i>For Work In Restricted Working Space, Add</i>	12.29	
22 11 16 00-0307	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	63.79	27.88
			<i>For Work In Restricted Working Space, Add</i>	12.53	
22 11 16 00-0308	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	63.85	29.18
			<i>For Work In Restricted Working Space, Add</i>	13.14	
22 11 16 00-0309	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	66.12	30.73
			<i>For Work In Restricted Working Space, Add</i>	13.82	
22 11 16 00-0310	EA		1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	74.01	29.95
			<i>For Work In Restricted Working Space, Add</i>	13.46	
22 11 16 00-0311	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.07	31.25
			<i>For Work In Restricted Working Space, Add</i>	14.08	
22 11 16 00-0312	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	75.47	32.81
			<i>For Work In Restricted Working Space, Add</i>	14.76	
22 11 16 00-0313	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.29	34.75
			<i>For Work In Restricted Working Space, Add</i>	15.62	
22 11 16 00-0314	EA		2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	88.72	34.88
			<i>For Work In Restricted Working Space, Add</i>	15.70	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0315	EA			2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	88.25 16.32	36.31
22 11 16 00-0316	EA			2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	88.65 17.00	37.74
22 11 16 00-0317	EA			2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	91.51 17.85	39.68
22 11 16 00-0318	EA			2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	90.71 18.79	41.75
22 11 16 00-0319	EA			2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	123.87 21.37	47.47
22 11 16 00-0320	EA			2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	126.12 22.04	49.02
22 11 16 00-0321	EA			2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	128.98 22.90	50.84
22 11 16 00-0322	EA			2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	131.14 23.84	53.04
22 11 16 00-0323	EA			2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	132.70 26.08	57.97
22 11 16 00-0324	EA			3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	157.10 26.28	58.35
22 11 16 00-0325	EA			3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	159.35 26.96	59.91
22 11 16 00-0326	EA			3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	162.21 27.82	61.85
22 11 16 00-0327	EA			3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	163.98 28.76	63.93
22 11 16 00-0328	EA			3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	165.07 30.99	68.85
22 11 16 00-0329	EA			3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	185.48 36.04	80.14
22 11 16 00-0330	EA			4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	230.10 25.34	56.26
22 11 16 00-0331	EA			4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	232.10 25.94	57.64
22 11 16 00-0332	EA			4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	234.64 26.70	59.37
22 11 16 00-0333	EA			4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	237.41 27.53	61.22
22 11 16 00-0334	EA			4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	226.89 29.52	65.60
22 11 16 00-0335	EA			4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	259.00 34.01	75.62
22 11 16 00-0336	EA			4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	263.93 38.38	85.30
22 11 16 00-0337	Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small>					
	Note: Excludes fasteners to floor or wall.					
22 11 16 00-0338	EA			1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	76.90	47.39
22 11 16 00-0339	EA			3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	84.12	51.87
22 11 16 00-0340	EA			1", 150 LB, Galvanized Malleable Iron Floor Flange.....	96.11	58.61
22 11 16 00-0341	EA			1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	99.76	60.69
22 11 16 00-0342	EA			1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	108.56	66.01
22 11 16 00-0343	EA			2", 150 LB, Galvanized Malleable Iron Floor Flange.....	115.78	68.85
22 11 16 00-0344	Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small>					
	Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.					
22 11 16 00-0345	EA			3/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	127.00 23.34	51.87
22 11 16 00-0346	EA			1", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	125.99 26.37	58.61
22 11 16 00-0347	EA			1-1/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	111.12 27.30	60.69
22 11 16 00-0348	EA			1-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	143.73 29.70	66.01
22 11 16 00-0349	EA			2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	142.65 30.99	68.85
22 11 16 00-0350	EA			2-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	165.52 35.85	79.75
22 11 16 00-0351	EA			3", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	275.92 45.49	101.15
22 11 16 00-0352	EA			4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	353.68 55.32	123.01
22 11 16 00-0353	EA			5", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	485.28 65.86	146.41
22 11 16 00-0354	EA			6", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	536.23 75.65	168.20
22 11 16 00-0355	EA			8", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	510.29 86.46	192.23
22 11 16 00-0356	Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>					
	Note: For use when connecting pipe to an existing in-place system.					

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0357	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	42.25	
			<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-0358	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	46.48	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0359	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	50.71	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0360	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	54.93	
			<i>For Work In Restricted Working Space, Add</i>	16.48	
22 11 16 00-0361	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	57.74	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0362	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	60.56	
			<i>For Work In Restricted Working Space, Add</i>	18.17	
22 11 16 00-0363	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	63.38	
			<i>For Work In Restricted Working Space, Add</i>	19.01	
22 11 16 00-0364	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	66.19	
			<i>For Work In Restricted Working Space, Add</i>	19.86	
22 11 16 00-0365	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	69.01	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0366	EA		6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	74.64	
			<i>For Work In Restricted Working Space, Add</i>	22.39	
22 11 16 00-0367	EA		8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	80.27	
			<i>For Work In Restricted Working Space, Add</i>	24.08	
22 11 16 00-0368			Copper Pipe And Fittings <small>(22 11 16)</small> Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369			Copper Tube/Pipe <small>(22 11 16 00-0368)</small> Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370			Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371	LF		1/4" Hard Drawn Type L Copper Tube/Pipe.....	5.95	3.17
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.10	
			<i>For Up To 20, Add</i>	0.63	
			<i>For >150, Deduct</i>	-0.12	
			<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0372	LF		3/8" Hard Drawn Type L Copper Tube/Pipe.....	6.71	3.30
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.14	
			<i>For Up To 20, Add</i>	0.72	
			<i>For >150, Deduct</i>	-0.18	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0373	LF		1/2" Hard Drawn Type L Copper Tube/Pipe.....	7.25	3.44
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.17	
			<i>For Up To 20, Add</i>	0.78	
			<i>For >150, Deduct</i>	-0.21	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0374	LF		3/4" Hard Drawn Type L Copper Tube/Pipe.....	8.87	3.65
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.27	
			<i>For Up To 20, Add</i>	0.97	
			<i>For >150, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
22 11 16 00-0375	LF		1" Hard Drawn Type L Copper Tube/Pipe.....	11.06	4.10
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.39	
			<i>For Up To 20, Add</i>	1.23	
			<i>For >150, Deduct</i>	-0.49	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0376	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	15.91	6.09
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.54	
			<i>For Up To 20, Add</i>	1.76	
			<i>For >150, Deduct</i>	-0.68	
			<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0377	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	18.92	6.80
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.70	
			<i>For Up To 20, Add</i>	2.11	
			<i>For >150, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	3.06	
22 11 16 00-0378	LF		2" Hard Drawn Type L Copper Tube/Pipe.....	26.38	8.40
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.10	
			<i>For Up To 20, Add</i>	2.98	
			<i>For >150, Deduct</i>	-1.38	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0379	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe.....	49.57	9.87
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.59	
			<i>For Up To 20, Add</i>	5.46	
			<i>For >150, Deduct</i>	-1.99	
			<i>For Work In Restricted Working Space, Add</i>	8.90	
22 11 16 00-0380	LF		3" Hard Drawn Type L Copper Tube/Pipe.....	61.44	11.63
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.13	
			<i>For Up To 20, Add</i>	6.81	
			<i>For >150, Deduct</i>	-2.66	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
22 11 16 00-0381	LF		4" Hard Drawn Type L Copper Tube/Pipe.....	86.72	13.12
			<i>For Medical/Oxygen Service Tubing, Add</i>	3.79	
			<i>For Up To 20, Add</i>	9.86	
			<i>For >150, Deduct</i>	-4.74	
			<i>For Work In Restricted Working Space, Add</i>	11.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe	128.85	15.07
<i>For Medical/Oxygen Service Tubing, Add</i>	6.69	
<i>For Up To 20, Add</i>	14.98	
<i>For >150, Deduct</i>	-8.37	
<i>For Work In Restricted Working Space, Add</i>	13.56	
22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe	180.09	23.35
<i>For Medical/Oxygen Service Tubing, Add</i>	8.81	
<i>For Up To 20, Add</i>	20.76	
<i>For >150, Deduct</i>	-11.01	
<i>For Work In Restricted Working Space, Add</i>	21.01	
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe	285.30	25.96
<i>For Medical/Oxygen Service Tubing, Add</i>	16.60	
<i>For Up To 20, Add</i>	33.72	
<i>For >150, Deduct</i>	-20.75	
<i>For Work In Restricted Working Space, Add</i>	23.36	
22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe	6.46	3.41
<i>For Medical/Oxygen Service Tubing, Add</i>	0.11	
<i>For Up To 20, Add</i>	0.68	
<i>For >150, Deduct</i>	-0.14	
<i>For Work In Restricted Working Space, Add</i>	1.53	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe	8.26	3.55
<i>For Medical/Oxygen Service Tubing, Add</i>	0.19	
<i>For Up To 20, Add</i>	0.89	
<i>For >150, Deduct</i>	-0.24	
<i>For Work In Restricted Working Space, Add</i>	1.75	
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe	8.53	3.69
<i>For Medical/Oxygen Service Tubing, Add</i>	0.23	
<i>For Up To 20, Add</i>	0.92	
<i>For >150, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.71	
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe	11.72	3.91
<i>For Medical/Oxygen Service Tubing, Add</i>	0.41	
<i>For Up To 20, Add</i>	1.30	
<i>For >150, Deduct</i>	-0.51	
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe	13.82	4.40
<i>For Medical/Oxygen Service Tubing, Add</i>	0.54	
<i>For Up To 20, Add</i>	1.55	
<i>For >150, Deduct</i>	-0.68	
<i>For Work In Restricted Working Space, Add</i>	2.10	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe	18.43	6.55
<i>For Medical/Oxygen Service Tubing, Add</i>	0.68	
<i>For Up To 20, Add</i>	2.06	
<i>For >150, Deduct</i>	-0.85	
<i>For Work In Restricted Working Space, Add</i>	2.99	
22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe	22.05	7.31
<i>For Medical/Oxygen Service Tubing, Add</i>	0.87	
<i>For Up To 20, Add</i>	2.48	
<i>For >150, Deduct</i>	-1.09	
<i>For Work In Restricted Working Space, Add</i>	3.35	
22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe	30.39	9.03
<i>For Medical/Oxygen Service Tubing, Add</i>	1.34	
<i>For Up To 20, Add</i>	3.46	
<i>For >150, Deduct</i>	-1.67	
<i>For Work In Restricted Working Space, Add</i>	4.11	
22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe	54.66	10.60
<i>For Medical/Oxygen Service Tubing, Add</i>	1.99	
<i>For Up To 20, Add</i>	6.09	
<i>For >150, Deduct</i>	-2.49	
<i>For Work In Restricted Working Space, Add</i>	8.93	
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	72.38	12.51
<i>For Medical/Oxygen Service Tubing, Add</i>	2.72	
<i>For Up To 20, Add</i>	8.09	
<i>For >150, Deduct</i>	-3.40	
<i>For Work In Restricted Working Space, Add</i>	11.51	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	104.10	14.10
<i>For Medical/Oxygen Service Tubing, Add</i>	4.85	
<i>For Up To 20, Add</i>	11.93	
<i>For >150, Deduct</i>	-6.06	
<i>For Work In Restricted Working Space, Add</i>	13.04	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe	162.42	16.20
<i>For Medical/Oxygen Service Tubing, Add</i>	8.89	
<i>For Up To 20, Add</i>	19.02	
<i>For >150, Deduct</i>	-11.11	
<i>For Work In Restricted Working Space, Add</i>	15.40	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	242.14	25.10
<i>For Medical/Oxygen Service Tubing, Add</i>	12.75	
<i>For Up To 20, Add</i>	28.20	
<i>For >150, Deduct</i>	-15.94	
<i>For Work In Restricted Working Space, Add</i>	24.82	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0399	LF		8" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	389.66 23.88 46.43 -29.85 27.35	27.91
22 11 16 00-0400			Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0401	LF		3/8" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.65 0.60 -0.14 1.28	2.98
22 11 16 00-0402	LF		1/2" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.96 0.63 -0.15 1.33	3.10
22 11 16 00-0403	LF		3/4" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.20 0.78 -0.25 1.41	3.28
22 11 16 00-0404	LF		1" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9.10 1.01 -0.38 1.58	3.69
22 11 16 00-0405	LF		1-1/4" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	13.69 1.51 -0.56 2.43	5.49
22 11 16 00-0406	LF		1-1/2" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.01 1.89 -0.77 2.79	6.12
22 11 16 00-0407	LF		2" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.67 2.67 -1.21 3.46	7.55
22 11 16 00-0408	LF		2-1/2" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	45.62 5.00 -1.76 8.40	8.88
22 11 16 00-0409	LF		3" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.88 6.07 -2.34 9.44	10.46
22 11 16 00-0410	LF		4" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.56 9.15 -4.39 11.01	11.81
22 11 16 00-0411	LF		5" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	127.51 14.88 -8.51 12.71	13.56
22 11 16 00-0412	LF		6" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	179.37 20.78 -11.37 19.69	21.02
22 11 16 00-0413	LF		8" Hard Drawn Type M Copper Tube/Pipe..... <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	287.71 34.16 -21.55 21.66	23.37
22 11 16 00-0414			Soft Drawn Type L Copper Tube (22 11 16 00-0369)		
22 11 16 00-0415	LF		1/4" Soft Drawn Type L Copper Tube <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6.30 0.67 -0.16 1.43	3.17
22 11 16 00-0416	LF		3/8" Soft Drawn Type L Copper Tube <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.35 0.80 -0.24 1.49	3.30
22 11 16 00-0417	LF		1/2" Soft Drawn Type L Copper Tube <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.38 0.92 -0.32 1.55	3.44
22 11 16 00-0418	LF		5/8" Soft Drawn Type L Copper Tube <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9.46 1.05 -0.41 1.60	3.55
22 11 16 00-0419	LF		3/4" Soft Drawn Type L Copper Tube <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	10.41 1.16 -0.49 1.64	3.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube	12.98	4.10
For Up To 20, Add	1.47	
For >150, Deduct	-0.68	
For Work In Restricted Working Space, Add	1.84	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube	18.13	6.09
For Up To 20, Add	2.04	
For >150, Deduct	-0.90	
For Work In Restricted Working Space, Add	2.74	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube	22.40	6.80
For Up To 20, Add	2.55	
For >150, Deduct	-1.22	
For Work In Restricted Working Space, Add	3.06	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube	31.98	8.40
For Up To 20, Add	3.68	
For >150, Deduct	-1.94	
For Work In Restricted Working Space, Add	3.77	
 22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube	6.45	3.17
For Up To 20, Add	0.69	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	1.43	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube	7.85	3.30
For Up To 20, Add	0.86	
For >150, Deduct	-0.29	
For Work In Restricted Working Space, Add	1.49	
22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube	8.80	3.44
For Up To 20, Add	0.97	
For >150, Deduct	-0.36	
For Work In Restricted Working Space, Add	1.55	
22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube	9.66	3.55
For Up To 20, Add	1.07	
For >150, Deduct	-0.43	
For Work In Restricted Working Space, Add	1.60	
22 11 16 00-0429 LF 3/4" Soft Drawn Type K Copper Tube	12.20	3.65
For Up To 20, Add	1.39	
For >150, Deduct	-0.67	
For Work In Restricted Working Space, Add	1.64	
22 11 16 00-0430 LF 1" Soft Drawn Type K Copper Tube	15.08	4.10
For Up To 20, Add	1.73	
For >150, Deduct	-0.89	
For Work In Restricted Working Space, Add	1.84	
22 11 16 00-0431 LF 1-1/4" Soft Drawn Type K Copper Tube	19.67	6.09
For Up To 20, Add	2.23	
For >150, Deduct	-1.05	
For Work In Restricted Working Space, Add	2.74	
22 11 16 00-0432 LF 1-1/2" Soft Drawn Type K Copper Tube	24.84	6.80
For Up To 20, Add	2.85	
For >150, Deduct	-1.46	
For Work In Restricted Working Space, Add	3.06	
22 11 16 00-0433 LF 2" Soft Drawn Type K Copper Tube	35.34	8.40
For Up To 20, Add	4.10	
For >150, Deduct	-2.28	
For Work In Restricted Working Space, Add	3.77	
22 11 16 00-0434 LF 2-1/2" Soft Drawn Type K Copper Tube	49.22	10.07
For Up To 20, Add	5.78	
For >150, Deduct	-3.41	
For Work In Restricted Working Space, Add	4.53	
22 11 16 00-0435 LF 3" Soft Drawn Type K Copper Tube	65.30	11.88
For Up To 20, Add	7.72	
For >150, Deduct	-4.75	
For Work In Restricted Working Space, Add	5.34	
 22 11 16 00-0436 Copper And Brass Fittings (22 11 16 00-0368)		
Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438 EA 1/4" 90 Degree Copper Elbow	32.26	18.79
For Silver Solder Instead Of 95/5 Solder, Add	4.43	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Street Fitting, Add	1.64	
For Work In Restricted Working Space, Add	8.45	
22 11 16 00-0439 EA 3/8" 90 Degree Copper Elbow	38.12	22.54
For Silver Solder Instead Of 95/5 Solder, Add	5.29	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
For Street Fitting, Add	1.73	
For Work In Restricted Working Space, Add	10.14	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0440	EA	1/2"	90 Degree Copper Elbow	47.88	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.72	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Street Fitting, Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0441	EA	3/4"	90 Degree Copper Elbow	60.89	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Street Fitting, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0442	EA	1"	90 Degree Copper Elbow	76.72	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.74	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.29	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Street Fitting, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0443	EA	1-1/4"	90 Degree Copper Elbow	86.18	49.86
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.20	
			<i>For Street Fitting, Add</i>	4.61	
			<i>For Work In Restricted Working Space, Add</i>	22.40	
22 11 16 00-0444	EA	1-1/2"	90 Degree Copper Elbow	99.72	54.51
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.16	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.25	
			<i>For Street Fitting, Add</i>	7.21	
			<i>For Work In Restricted Working Space, Add</i>	24.51	
22 11 16 00-0445	EA	2"	90 Degree Copper Elbow	124.40	61.12
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.73	
			<i>For Street Fitting, Add</i>	13.14	
			<i>For Work In Restricted Working Space, Add</i>	27.46	
22 11 16 00-0446	EA	2-1/2"	90 Degree Copper Elbow	157.80	62.24
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.23	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.56	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.00	
			<i>For Work In Restricted Working Space, Add</i>	28.01	
22 11 16 00-0447	EA	3"	90 Degree Copper Elbow	202.40	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.27	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.70	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0448	EA	4"	90 Degree Copper Elbow	378.71	105.56
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.76	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.73	
			<i>For Work In Restricted Working Space, Add</i>	47.46	
22 11 16 00-0449	EA	5"	90 Degree Copper Elbow	1,140.34	144.46
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	78.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-67.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	32.48	
			<i>For Work In Restricted Working Space, Add</i>	64.97	
22 11 16 00-0450	EA	6"	90 Degree Copper Elbow	1,546.59	210.21
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	108.84	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-93.09	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	47.27	
			<i>For Work In Restricted Working Space, Add</i>	94.53	
22 11 16 00-0451	EA	8"	90 Degree Copper Elbow	4,976.01	280.23
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	290.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-269.81	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	63.02	
			<i>For Work In Restricted Working Space, Add</i>	126.05	
22 11 16 00-0452			90 Degree Brass Elbows (22 11 16 00-0436)		
22 11 16 00-0453	EA	1/2"	Drop Ear 90 Degree Brass Elbow.....	55.28	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.09	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0454	EA	3/4"	Drop Ear 90 Degree Brass Elbow.....	83.40	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.94	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.06	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0455	EA	1/2"	Flanged Sink 90 Degree Brass Elbow.....	62.52	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.45	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0456	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.96 5.73 -4.04 5.07 10.14	22.54
	22 11 16 00-0457	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.90 7.44 -5.12 6.97 13.94	30.98
	22 11 16 00-0458	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.33 9.49 -6.60 8.66 17.32	38.59
	22 11 16 00-0459	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.97 13.00 -9.55 10.35 20.70	46.06
	22 11 16 00-0460			Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
	22 11 16 00-0461	EA		1/2" Reducing 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.85 7.54 -5.22 6.97 13.94	30.98
	22 11 16 00-0462	EA		3/4" Reducing 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.80 9.06 -6.18 8.66 17.32	38.59
	22 11 16 00-0463	EA		1" Reducing 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	83.81 11.09 -7.64 10.35 20.70	46.06
	22 11 16 00-0464	EA		1-1/4" Reducing 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.34 13.08 -9.35 11.20 22.40	49.86
	22 11 16 00-0465	EA		1-1/2" Reducing 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.22 14.73 -10.65 12.25 24.51	54.51
	22 11 16 00-0466	EA		2" Reducing 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.20 17.06 -12.49 13.73 27.46	61.12
	22 11 16 00-0467			45 Degree Copper Elbows (22 11 16 00-0436)		
	22 11 16 00-0468	EA		1/4" 45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.80 4.61 -3.20 4.23 3.05 8.45	18.79
	22 11 16 00-0469	EA		3/8" 45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.34 5.40 -3.71 5.07 2.62 10.14	22.54
	22 11 16 00-0470	EA		1/2" 45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.05 7.10 -4.78 6.97 1.03 13.94	30.98
	22 11 16 00-0471	EA		3/4" 45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.14 8.88 -5.99 8.66 1.76 17.32	38.59
	22 11 16 00-0472	EA		1" 45 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.99 10.90 -7.45 10.35 4.39 20.70	46.06

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0473 EA 1-1/4" 45 Degree Copper Elbow	89.52	49.86
For Silver Solder Instead Of 95/5 Solder, Add	11.94	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.20	
For Street Fitting, Add	5.95	
For Work In Restricted Working Space, Add	22.40	
22 11 16 00-0474 EA 1-1/2" 45 Degree Copper Elbow	99.95	54.51
For Silver Solder Instead Of 95/5 Solder, Add	13.17	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.08	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.25	
For Street Fitting, Add	7.30	
For Work In Restricted Working Space, Add	24.51	
22 11 16 00-0475 EA 2" 45 Degree Copper Elbow	121.99	61.12
For Silver Solder Instead Of 95/5 Solder, Add	15.25	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.73	
For Work In Restricted Working Space, Add	27.46	
22 11 16 00-0476 EA 2-1/2" 45 Degree Copper Elbow	157.03	62.24
For Silver Solder Instead Of 95/5 Solder, Add	17.19	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.52	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.00	
For Work In Restricted Working Space, Add	28.01	
22 11 16 00-0477 EA 3" 45 Degree Copper Elbow	205.99	74.44
For Silver Solder Instead Of 95/5 Solder, Add	21.45	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.73	
For Work In Restricted Working Space, Add	33.46	
22 11 16 00-0478 EA 4" 45 Degree Copper Elbow	359.63	105.56
For Silver Solder Instead Of 95/5 Solder, Add	33.80	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.73	
For Work In Restricted Working Space, Add	47.46	
22 11 16 00-0479 EA 5" 45 Degree Copper Elbow	996.65	144.46
For Silver Solder Instead Of 95/5 Solder, Add	71.49	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-60.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	32.48	
For Work In Restricted Working Space, Add	64.97	
22 11 16 00-0480 EA 6" 45 Degree Copper Elbow	1,544.49	210.21
For Silver Solder Instead Of 95/5 Solder, Add	108.74	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-92.98	
For Brazed Fittings Instead Of 95/5 Solder, Add	47.27	
For Work In Restricted Working Space, Add	94.53	
22 11 16 00-0481 EA 8" 45 Degree Copper Elbow	4,597.53	280.23
For Silver Solder Instead Of 95/5 Solder, Add	271.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-250.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	63.02	
For Work In Restricted Working Space, Add	126.05	
22 11 16 00-0482 Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483 EA 1/4" Straight Copper Tee	50.83	28.17
For Silver Solder Instead Of 95/5 Solder, Add	6.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.34	
For Work In Restricted Working Space, Add	12.68	
22 11 16 00-0484 EA 3/8" Straight Copper Tee	57.60	33.80
For Silver Solder Instead Of 95/5 Solder, Add	7.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.61	
For Work In Restricted Working Space, Add	15.21	
22 11 16 00-0485 EA 1/2" Straight Copper Tee	72.84	47.04
For Silver Solder Instead Of 95/5 Solder, Add	10.69	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0486 EA 3/4" Straight Copper Tee	93.08	58.31
For Silver Solder Instead Of 95/5 Solder, Add	13.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.10	
For Work In Restricted Working Space, Add	26.20	
22 11 16 00-0487 EA 1" Straight Copper Tee	121.56	69.58
For Silver Solder Instead Of 95/5 Solder, Add	16.50	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.29	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.63	
For Work In Restricted Working Space, Add	31.27	
22 11 16 00-0488 EA 1-1/4" Straight Copper Tee	136.81	75.21
For Silver Solder Instead Of 95/5 Solder, Add	18.11	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.90	
For Work In Restricted Working Space, Add	33.80	
22 11 16 00-0489 EA 1-1/2" Straight Copper Tee	159.05	81.69
For Silver Solder Instead Of 95/5 Solder, Add	20.21	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.08	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.38	
For Work In Restricted Working Space, Add	36.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0490	EA		2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.09 23.61 -16.71 20.70 41.41	92.11
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.92 26.75 -19.75 21.01 42.02	93.36
22 11 16 00-0492	EA		3" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.07 34.06 -25.63 25.29 50.57	112.43
22 11 16 00-0493	EA		4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	660.76 56.64 -44.84 35.40 70.80	157.43
22 11 16 00-0494	EA		5" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,711.38 117.86 -101.71 48.43 96.87	215.39
22 11 16 00-0495	EA		6" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,371.36 165.90 -142.23 71.00 142.00	315.76
22 11 16 00-0496	EA		8" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,951.84 460.61 -429.10 94.53 189.07	420.41
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.27 11.31 -7.79 10.56 21.13	47.04
22 11 16 00-0498 Reducing Copper Tees (22 11 16 00-0436)					
22 11 16 00-0499	EA		3/8" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.70 7.44 -5.19 6.76 13.52	30.00
22 11 16 00-0500	EA		1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.37 10.11 -6.94 9.51 19.01	42.26
22 11 16 00-0501	EA		3/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.80 12.56 -8.47 12.25 24.51	54.51
22 11 16 00-0502	EA		1" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.02 15.76 -10.83 14.79 29.58	65.77
22 11 16 00-0503	EA		1-1/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.52 17.53 -12.18 16.06 32.11	71.41
22 11 16 00-0504	EA		1-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.56 19.62 -13.77 17.54 35.07	78.03
22 11 16 00-0505	EA		2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.23 22.66 -16.11 19.65 39.30	87.32
22 11 16 00-0506	EA		2-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.70 26.52 -19.78 20.23 40.46	89.99

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0507 EA 3" Reducing Copper Tee..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.26 33.67 -25.89 23.34 46.68	103.74
22 11 16 00-0508 EA 4" Reducing Copper Tee..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	626.95 50.54 -40.94 28.79 57.58	127.99
22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510 EA 1/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.99 4.27 -2.86 4.23 8.45	18.79
22 11 16 00-0511 EA 3/8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.89 5.12 -3.43 5.07 10.14	22.54
22 11 16 00-0512 EA 1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.38 7.02 -4.69 6.97 13.94	30.98
22 11 16 00-0513 EA 3/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.57 8.75 -5.87 8.66 17.32	38.59
22 11 16 00-0514 EA 1" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.63 10.53 -7.08 10.35 20.70	46.06
22 11 16 00-0515 EA 1-1/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.04 11.52 -7.78 11.20 22.40	49.86
22 11 16 00-0516 EA 1-1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.14 12.68 -8.59 12.25 24.51	54.51
22 11 16 00-0517 EA 2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.60 14.43 -9.86 13.73 27.46	60.56
22 11 16 00-0518 EA 2-1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.07 14.67 -10.26 13.23 26.45	58.87
22 11 16 00-0519 EA 3" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.66 17.92 -12.60 15.95 31.90	71.32
22 11 16 00-0520 EA 4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.28 25.73 -18.60 21.40 42.79	95.96
22 11 16 00-0521 EA 5" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	375.07 38.20 -28.48 29.18 58.35	175.06
22 11 16 00-0522 EA 6" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	583.68 57.71 -43.45 42.79 85.59	190.23
22 11 16 00-0523 EA 8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,345.89 105.16 -86.23 56.80 113.60	252.22
22 11 16 00-0524 Reducing Copper Couplings (22 11 16 00-0436)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0525	EA		3/8" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.96 4.32 -2.91 4.23 8.45	18.74
22 11 16 00-0526	EA		1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.01 6.11 -4.11 6.02 12.04	26.76
22 11 16 00-0527	EA		3/4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.34 7.98 -5.37 7.82 15.63	34.79
22 11 16 00-0528	EA		1" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.22 9.80 -6.63 9.51 19.01	42.26
22 11 16 00-0529	EA		1-1/4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.97 11.18 -7.59 10.77 21.55	47.89
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.64 12.40 -8.49 11.73 23.45	52.11
22 11 16 00-0531	EA		2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.45 14.03 -9.70 12.99 25.99	57.74
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.69 15.47 -11.03 13.32 26.65	59.26
22 11 16 00-0533	EA		3" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.45 18.02 -12.90 15.37 30.74	68.72
22 11 16 00-0534	EA		4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.07 25.49 -18.75 20.23 40.46	89.99
22 11 16 00-0535	EA		5" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	599.46 48.78 -39.37 28.20 56.41	125.39
22 11 16 00-0536	EA		6" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	889.98 69.79 -57.14 37.93 75.86	168.57
22 11 16 00-0537	EA		8" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,718.92 122.77 -104.36 55.24 110.48	245.65
22 11 16 00-0538			Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539	EA		1/4" Male Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.62 4.95 -3.54 4.23 8.45	18.31
22 11 16 00-0540	EA		3/8" Male Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.00 5.43 -3.74 5.07 10.14	22.54
22 11 16 00-0541	EA		1/2" Male Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.18 6.49 -4.37 6.34 12.68	28.17

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0542 EA 3/4" Male Copper Adapter.....	57.06	35.21
For Silver Solder Instead Of 95/5 Solder, Add	8.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.82	
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0543 EA 1" Male Copper Adapter.....	73.14	40.84
For Silver Solder Instead Of 95/5 Solder, Add	9.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.69	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.08	
For Work In Restricted Working Space, Add	18.17	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter	88.73	46.48
For Silver Solder Instead Of 95/5 Solder, Add	11.48	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter	101.70	53.52
For Silver Solder Instead Of 95/5 Solder, Add	13.11	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.04	
For Work In Restricted Working Space, Add	24.08	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	139.07	68.30
For Silver Solder Instead Of 95/5 Solder, Add	17.24	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.42	
For Work In Restricted Working Space, Add	30.85	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter	247.69	88.73
For Silver Solder Instead Of 95/5 Solder, Add	25.62	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.86	
For Work In Restricted Working Space, Add	39.72	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	329.00	118.33
For Silver Solder Instead Of 95/5 Solder, Add	34.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	26.45	
For Work In Restricted Working Space, Add	52.91	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	493.09	165.99
For Silver Solder Instead Of 95/5 Solder, Add	49.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	37.35	
For Work In Restricted Working Space, Add	74.69	
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551 EA 1/4" Female Copper Adapter	37.40	18.31
For Silver Solder Instead Of 95/5 Solder, Add	4.69	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Work In Restricted Working Space, Add	8.45	
22 11 16 00-0552 EA 3/8" Female Copper Adapter	43.46	22.54
For Silver Solder Instead Of 95/5 Solder, Add	5.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
For Work In Restricted Working Space, Add	10.14	
22 11 16 00-0553 EA 1/2" Female Copper Adapter	46.93	28.17
For Silver Solder Instead Of 95/5 Solder, Add	6.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.34	
For Work In Restricted Working Space, Add	12.68	
22 11 16 00-0554 EA 3/4" Female Copper Adapter	58.50	35.21
For Silver Solder Instead Of 95/5 Solder, Add	8.14	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.82	
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0555 EA 1" Female Copper Adapter	75.16	40.84
For Silver Solder Instead Of 95/5 Solder, Add	9.81	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.08	
For Work In Restricted Working Space, Add	18.17	
22 11 16 00-0556 EA 1-1/4" Female Copper Adapter	91.85	46.48
For Silver Solder Instead Of 95/5 Solder, Add	11.64	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0557 EA 1-1/2" Female Copper Adapter	113.81	53.52
For Silver Solder Instead Of 95/5 Solder, Add	13.72	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.04	
For Work In Restricted Working Space, Add	24.08	
22 11 16 00-0558 EA 2" Female Copper Adapter	148.30	68.30
For Silver Solder Instead Of 95/5 Solder, Add	17.70	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.42	
For Work In Restricted Working Space, Add	30.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0559	EA		2-1/2" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	284.58 26.42 -20.32 18.28 36.57	81.69
22 11 16 00-0560	EA		3" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	450.41 40.16 -31.34 26.45 52.91	118.33
22 11 16 00-0561 Wrot Copper, Solder Union (22 11 16 00-0436)					
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.05 6.23 -4.54 5.07 10.14	22.54
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.80 7.32 -5.28 6.13 12.25	27.18
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.52 8.35 -5.81 7.61 15.21	33.80
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.95 9.57 -6.68 8.66 17.32	38.59
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.31 11.92 -8.47 10.35 20.70	46.06
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.38 13.68 -9.87 11.41 22.82	50.71
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.41 15.87 -11.65 12.68 25.35	56.34
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	210.34 20.66 -15.59 15.21 30.42	67.60
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	408.58 31.58 -26.01 16.73 33.46	74.44
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	926.91 62.17 -54.26 23.73 47.46	105.56
22 11 16 00-0572 Cast Bronze, Solder Union (22 11 16 00-0436)					
22 11 16 00-0573	EA		1/4" Cast Bronze, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.63 6.66 -4.97 5.07 10.14	22.54
22 11 16 00-0574	EA		3/8" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.89 7.73 -5.69 6.13 12.25	27.18
22 11 16 00-0575	EA		1/2" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.77 8.46 -5.92 7.61 15.21	33.80
22 11 16 00-0576	EA		3/4" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.14 9.73 -6.84 8.66 17.32	38.59

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22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0577	EA		1" Cast Bronze, Solder Union	105.84	46.06
			For Silver Solder Instead Of 95/5 Solder, Add	12.19	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.74	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.35	
			For Work In Restricted Working Space, Add	20.70	
22 11 16 00-0578	EA		1-1/4" Cast Bronze, Solder Union	136.49	50.71
			For Silver Solder Instead Of 95/5 Solder, Add	14.43	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.63	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.41	
			For Work In Restricted Working Space, Add	22.82	
22 11 16 00-0579	EA		1-1/2" Cast Bronze, Solder Union	164.17	56.34
			For Silver Solder Instead Of 95/5 Solder, Add	16.66	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.43	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.68	
			For Work In Restricted Working Space, Add	25.35	
22 11 16 00-0580	EA		2" Cast Bronze, Solder Union	237.18	67.60
			For Silver Solder Instead Of 95/5 Solder, Add	22.00	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.93	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.21	
			For Work In Restricted Working Space, Add	30.42	
22 11 16 00-0581	EA		2-1/2" Cast Bronze, Solder Union	408.56	74.44
			For Silver Solder Instead Of 95/5 Solder, Add	31.58	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.00	
			For Brazed Fittings Instead Of 95/5 Solder, Add	16.73	
			For Work In Restricted Working Space, Add	33.46	
22 11 16 00-0582	EA		3" Cast Bronze, Solder Union	926.91	105.56
			For Silver Solder Instead Of 95/5 Solder, Add	62.17	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-54.26	
			For Brazed Fittings Instead Of 95/5 Solder, Add	23.73	
			For Work In Restricted Working Space, Add	47.46	
22 11 16 00-0583			Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)		
22 11 16 00-0584	EA		1/4" Cast Bronze, Solder X Female Threaded Union.....	77.21	22.54
			For Silver Solder Instead Of 95/5 Solder, Add	7.24	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.55	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
			For Work In Restricted Working Space, Add	10.14	
22 11 16 00-0585	EA		3/8" Cast Bronze, Solder X Female Threaded Union.....	85.76	27.18
			For Silver Solder Instead Of 95/5 Solder, Add	8.37	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.33	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.13	
			For Work In Restricted Working Space, Add	12.25	
22 11 16 00-0586	EA		1/2" Cast Bronze, Solder X Female Threaded Union.....	86.39	33.80
			For Silver Solder Instead Of 95/5 Solder, Add	9.39	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.61	
			For Work In Restricted Working Space, Add	15.21	
22 11 16 00-0587	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	106.37	38.59
			For Silver Solder Instead Of 95/5 Solder, Add	11.09	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.21	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.66	
			For Work In Restricted Working Space, Add	17.32	
22 11 16 00-0588	EA		1" Cast Bronze, Solder X Female Threaded Union.....	170.16	46.06
			For Silver Solder Instead Of 95/5 Solder, Add	15.41	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.96	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.35	
			For Work In Restricted Working Space, Add	20.70	
22 11 16 00-0589	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union.....	264.57	50.71
			For Silver Solder Instead Of 95/5 Solder, Add	20.83	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.03	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.41	
			For Work In Restricted Working Space, Add	22.82	
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union.....	323.33	56.34
			For Silver Solder Instead Of 95/5 Solder, Add	24.62	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.39	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.68	
			For Work In Restricted Working Space, Add	25.35	
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union.....	505.66	67.60
			For Silver Solder Instead Of 95/5 Solder, Add	35.42	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.35	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.21	
			For Work In Restricted Working Space, Add	30.42	
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union.....	877.84	74.44
			For Silver Solder Instead Of 95/5 Solder, Add	55.04	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-49.47	
			For Brazed Fittings Instead Of 95/5 Solder, Add	16.73	
			For Work In Restricted Working Space, Add	33.46	
22 11 16 00-0593			Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)		
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	66.87	22.54
			For Silver Solder Instead Of 95/5 Solder, Add	6.72	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.03	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
			For Work In Restricted Working Space, Add	10.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0595	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	79.43	27.18
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.06	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	12.25	
22 11 16 00-0596	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	78.87	33.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.01	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.48	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0597	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	100.00	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0598	EA		1" Cast Bronze, Solder X Male Threaded Union.....	173.08	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.56	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.10	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0599	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	205.15	50.71
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.86	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.06	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	220.10	56.34
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.46	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	25.35	
22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union.....	309.68	67.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.63	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.55	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
			<i>For Work In Restricted Working Space, Add</i>	30.42	
22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	721.87	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-41.67	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0603			Copper Caps <small>(22 11 16 00-0436)</small>		
22 11 16 00-0604	EA		1/4" Copper Cap	10.54	6.19
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.46	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.99	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.39	
			<i>For Work In Restricted Working Space, Add</i>	2.79	
22 11 16 00-0605	EA		3/8" Copper Cap	13.14	7.32
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.21	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.67	
			<i>For Work In Restricted Working Space, Add</i>	3.35	
22 11 16 00-0606	EA		1/2" Copper Cap	16.35	10.14
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.35	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.58	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.30	
			<i>For Work In Restricted Working Space, Add</i>	4.60	
22 11 16 00-0607	EA		3/4" Copper Cap	20.97	12.53
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.95	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.00	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.86	
			<i>For Work In Restricted Working Space, Add</i>	5.72	
22 11 16 00-0608	EA		1" Copper Cap	27.26	15.07
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.64	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.50	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.42	
			<i>For Work In Restricted Working Space, Add</i>	6.83	
22 11 16 00-0609	EA		1-1/4" Copper Cap	30.63	16.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.99	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.76	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.69	
			<i>For Work In Restricted Working Space, Add</i>	7.39	
22 11 16 00-0610	EA		1-1/2" Copper Cap	35.68	17.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.48	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.04	
			<i>For Work In Restricted Working Space, Add</i>	8.09	
22 11 16 00-0611	EA		2" Copper Cap	43.94	18.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.98	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.59	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.17	
			<i>For Work In Restricted Working Space, Add</i>	8.35	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0612	EA		2-1/2" Copper Cap	80.96	21.53
			For Silver Solder Instead Of 95/5 Solder, Add	7.32	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.68	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.90	
			For Work In Restricted Working Space, Add	9.80	
22 11 16 00-0613	EA		3" Copper Cap	110.98	27.62
			For Silver Solder Instead Of 95/5 Solder, Add	9.73	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.64	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.27	
			For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0614	EA		4" Copper Cap	193.80	41.75
			For Silver Solder Instead Of 95/5 Solder, Add	16.02	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.85	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.49	
			For Work In Restricted Working Space, Add	18.98	
22 11 16 00-0615	EA		5" Cast Bronze Cap	1,014.93	64.32
			For Silver Solder Instead Of 95/5 Solder, Add	60.49	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-55.62	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.62	
			For Work In Restricted Working Space, Add	29.24	
22 11 16 00-0616	EA		6" Cast Bronze Cap	1,969.75	93.62
			For Silver Solder Instead Of 95/5 Solder, Add	112.67	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-105.58	
			For Brazed Fittings Instead Of 95/5 Solder, Add	21.27	
			For Work In Restricted Working Space, Add	42.54	
22 11 16 00-0617	EA		8" Cast Bronze Cap	2,509.02	124.75
			For Silver Solder Instead Of 95/5 Solder, Add	144.36	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-134.90	
			For Brazed Fittings Instead Of 95/5 Solder, Add	28.36	
			For Work In Restricted Working Space, Add	56.72	
22 11 16 00-0618			Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619	EA		1/2" Copper Cross	101.65	57.05
			For Silver Solder Instead Of 95/5 Solder, Add	13.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.84	
			For Work In Restricted Working Space, Add	25.68	
22 11 16 00-0620	EA		3/4" Copper Cross	137.55	70.94
			For Silver Solder Instead Of 95/5 Solder, Add	17.51	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.19	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.95	
			For Work In Restricted Working Space, Add	31.90	
22 11 16 00-0621	EA		1" Copper Cross	180.11	84.68
			For Silver Solder Instead Of 95/5 Solder, Add	21.71	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	19.06	
			For Work In Restricted Working Space, Add	38.12	
22 11 16 00-0622	EA		1-1/4" Copper Cross	213.68	91.68
			For Silver Solder Instead Of 95/5 Solder, Add	24.43	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.56	
			For Brazed Fittings Instead Of 95/5 Solder, Add	20.62	
			For Work In Restricted Working Space, Add	41.24	
22 11 16 00-0623	EA		1-1/2" Copper Cross	259.07	100.24
			For Silver Solder Instead Of 95/5 Solder, Add	28.00	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.48	
			For Brazed Fittings Instead Of 95/5 Solder, Add	22.56	
			For Work In Restricted Working Space, Add	45.13	
22 11 16 00-0624	EA		2" Copper Cross	373.82	112.43
			For Silver Solder Instead Of 95/5 Solder, Add	35.55	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	25.29	
			For Work In Restricted Working Space, Add	50.57	
22 11 16 00-0625	EA		2-1/2" Copper Cross	659.84	124.49
			For Silver Solder Instead Of 95/5 Solder, Add	51.67	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.33	
			For Brazed Fittings Instead Of 95/5 Solder, Add	28.01	
			For Work In Restricted Working Space, Add	56.02	
22 11 16 00-0626			Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627	EA		3/8" Cast Bronze Cross	83.66	41.50
			For Silver Solder Instead Of 95/5 Solder, Add	10.41	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.30	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.34	
			For Work In Restricted Working Space, Add	18.67	
22 11 16 00-0628	EA		1/2" Cast Bronze Cross	104.86	57.05
			For Silver Solder Instead Of 95/5 Solder, Add	13.80	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.84	
			For Work In Restricted Working Space, Add	25.68	
22 11 16 00-0629	EA		3/4" Cast Bronze Cross	143.79	70.94
			For Silver Solder Instead Of 95/5 Solder, Add	17.82	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.51	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.95	
			For Work In Restricted Working Space, Add	31.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0630	EA		1" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.71 22.24 -15.89 19.06 38.12	84.68
22 11 16 00-0631	EA		1-1/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.93 25.19 -18.32 20.62 41.24	91.68
22 11 16 00-0632	EA		1-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.80 29.08 -21.56 22.56 45.13	100.24
22 11 16 00-0633	EA		2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	414.86 37.60 -29.17 25.29 50.57	112.43
22 11 16 00-0634	EA		2-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	754.46 56.40 -47.06 28.01 56.02	124.49
22 11 16 00-0635			Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	112.87	38.59
22 11 16 00-0637	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	119.50	38.59
22 11 16 00-0638	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	100.93	38.59
22 11 16 00-0639	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	108.45	38.59
22 11 16 00-0640	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	115.08	38.59
22 11 16 00-0641	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	119.50	38.59
22 11 16 00-0642			Crimped Copper Fittings (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643			Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644	EA		1/2" Crimped Copper 90 Degree Elbow	28.11	16.91
22 11 16 00-0645	EA		3/4" Crimped Copper 90 Degree Elbow	33.54	19.30
22 11 16 00-0646	EA		1" Crimped Copper 90 Degree Elbow	43.86	22.96
22 11 16 00-0647	EA		1-1/4" Crimped Copper 90 Degree Elbow	56.91	25.35
22 11 16 00-0648	EA		1-1/2" Crimped Copper 90 Degree Elbow	78.03	28.17
22 11 16 00-0649	EA		2" Crimped Copper 90 Degree Elbow	100.42	33.80
22 11 16 00-0650	EA		2-1/2" Crimped Copper 90 Degree Elbow	203.54	39.43
22 11 16 00-0651	EA		3" Crimped Copper 90 Degree Elbow	252.09	46.90
22 11 16 00-0652	EA		4" Crimped Copper 90 Degree Elbow	317.71	61.97
22 11 16 00-0653			Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654	EA		1/2" Crimped Copper 45 Degree Elbow	28.56	16.91
22 11 16 00-0655	EA		3/4" Crimped Copper 45 Degree Elbow	32.81	19.30
22 11 16 00-0656	EA		1" Crimped Copper 45 Degree Elbow	47.16	22.96
22 11 16 00-0657	EA		1-1/4" Crimped Copper 45 Degree Elbow	56.18	25.35
22 11 16 00-0658	EA		1-1/2" Crimped Copper 45 Degree Elbow	71.70	28.17
22 11 16 00-0659	EA		2" Crimped Copper 45 Degree Elbow	91.89	33.80
22 11 16 00-0660	EA		2-1/2" Crimped Copper 45 Degree Elbow	154.53	39.43
22 11 16 00-0661	EA		3" Crimped Copper 45 Degree Elbow	206.70	46.90
22 11 16 00-0662	EA		4" Crimped Copper 45 Degree Elbow	282.20	61.97
22 11 16 00-0663			Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664	EA		1/2" Crimped Copper Straight Tee	42.24	25.35
22 11 16 00-0665	EA		3/4" Crimped Copper Straight Tee	57.43	33.38
22 11 16 00-0666	EA		1" Crimped Copper Straight Tee	69.02	37.04
22 11 16 00-0667	EA		1-1/4" Crimped Copper Straight Tee	79.69	38.02
22 11 16 00-0668	EA		1-1/2" Crimped Copper Straight Tee	108.80	43.24
22 11 16 00-0669	EA		2" Crimped Copper Straight Tee	130.44	50.71
22 11 16 00-0670	EA		2-1/2" Crimped Copper Straight Tee	267.13	59.15
22 11 16 00-0671	EA		3" Crimped Copper Straight Tee	328.62	70.43
22 11 16 00-0672	EA		4" Crimped Copper Straight Tee	452.33	92.95
22 11 16 00-0673			Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674	EA		3/4" Crimped Copper Reducing Tee	47.65	24.09
22 11 16 00-0675	EA		1" Crimped Copper Reducing Tee	67.83	31.69
22 11 16 00-0676	EA		1-1/4" Crimped Copper Reducing Tee	73.54	35.21
22 11 16 00-0677	EA		1-1/2" Crimped Copper Reducing Tee	93.29	36.19
22 11 16 00-0678	EA		2" Crimped Copper Reducing Tee	110.99	40.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee.....	280.00	46.48
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee.....	341.06	56.34
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee.....	404.55	75.07
22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling.....	27.83	16.91
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling.....	32.63	19.30
22 11 16 00-0685 EA 1" Crimped Copper Coupling.....	42.11	22.96
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling.....	47.47	25.35
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling.....	59.87	28.17
22 11 16 00-0688 EA 2" Crimped Copper Coupling.....	73.18	33.80
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling.....	131.07	39.43
22 11 16 00-0690 EA 3" Crimped Copper Coupling.....	162.02	46.90
22 11 16 00-0691 EA 4" Crimped Copper Coupling.....	220.12	61.97
22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling.....	35.37	16.06
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling.....	40.40	18.31
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling.....	51.62	21.83
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling.....	63.88	24.09
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling.....	71.32	26.76
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling.....	132.84	31.97
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling.....	164.70	37.60
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling.....	214.45	49.72
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter.....	28.38	16.91
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter.....	34.37	19.30
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter.....	44.59	22.96
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter.....	60.12	25.35
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter.....	73.26	28.17
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter.....	110.41	33.80
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter.....	203.54	39.43
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter.....	252.09	46.90
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter.....	303.23	61.97
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter.....	29.02	16.91
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter.....	34.84	19.30
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter.....	45.51	22.96
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter.....	62.88	25.35
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter.....	78.40	28.17
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter.....	112.06	33.80
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap.....	17.99	8.45
22 11 16 00-0720 EA 3/4" Crimped Copper Cap.....	23.77	9.86
22 11 16 00-0721 EA 1" Crimped Copper Cap.....	30.76	11.26
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap.....	34.70	12.67
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap.....	46.13	14.51
22 11 16 00-0724 EA 2" Crimped Copper Cap.....	54.88	16.91
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap.....	123.99	19.72
22 11 16 00-0726 EA 3" Crimped Copper Cap.....	154.70	23.52
22 11 16 00-0727 EA 4" Crimped Copper Cap.....	205.71	30.98
22 11 16 00-0728 C x F NPT Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union.....	50.10	22.96
22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union.....	62.39	28.31
22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union.....	84.05	33.94
22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union.....	100.88	39.15
22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union.....	123.50	38.31
22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union.....	170.59	55.49
22 11 16 00-0735 C x C Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union.....	44.79	16.91
22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union.....	54.36	19.30
22 11 16 00-0738 EA 1" C x C Bronze Crimped Union.....	75.22	22.96
22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union.....	96.16	25.35
22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union.....	121.22	28.17
22 11 16 00-0741 EA 2" C x C Bronze Crimped Union.....	179.66	33.80



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0742				C x Flange Crimped Bronze Flange (22 11 16 00-0642)		
			EA	2-1/2" C x Flange Crimped Bronze Flange	335.25	39.43
			EA	3" C x Flange Crimped Bronze Flange	367.61	46.90
			EA	4" C x Flange Crimped Bronze Flange	425.63	61.97
22 11 16 00-0746				Field Installed FKM Seals (22 11 16 00-0642)		
				Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
			EA	1/2" Field Installed FKM Seal.....	7.90	
				Note: To be used in conjunction with fittings.		
			EA	3/4" Field Installed FKM Seal.....	9.77	
				Note: To be used in conjunction with fittings.		
			EA	1" Field Installed FKM Seal.....	11.21	
				Note: To be used in conjunction with fittings.		
			EA	1-1/4" Field Installed FKM Seal	12.81	
				Note: To be used in conjunction with fittings.		
			EA	1-1/2" Field Installed FKM Seal	17.15	
				Note: To be used in conjunction with fittings.		
			EA	2" Field Installed FKM Seal.....	19.27	
				Note: To be used in conjunction with fittings.		
			EA	2-1/2" Field Installed FKM Seal	27.36	
				Note: To be used in conjunction with fittings.		
			EA	3" Field Installed FKM Seal.....	31.64	
				Note: To be used in conjunction with fittings.		
			EA	4" Field Installed FKM Seal.....	42.86	
				Note: To be used in conjunction with fittings.		
22 11 16 00-0756				Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)		
			EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	14.09	
			EA	3/4", Cut And Prepare Existing In Place Copper Pipe.....	15.22	
			EA	1", Cut And Prepare Existing In Place Copper Pipe.....	17.12	
			EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe	17.96	
			EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe	19.02	
			EA	2", Cut And Prepare Existing In Place Copper Pipe.....	20.92	
			EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe	22.54	
			EA	3", Cut And Prepare Existing In Place Copper Pipe.....	26.62	
			EA	4", Cut And Prepare Existing In Place Copper Pipe.....	35.91	
			EA	6", Cut And Prepare Existing In Place Copper Pipe.....	51.33	
			EA	8", Cut And Prepare Existing In Place Copper Pipe.....	68.45	
22 11 16 00-0768				Sweat Brass Companion Flanges (22 11 16 00-0368)		
				Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
			EA	1" Sweat Brass Companion Flange	76.74	21.66
			EA	1-1/4" Sweat Brass Companion Flange.....	83.78	23.86
			EA	1-1/2" Sweat Brass Companion Flange.....	119.13	25.94
			EA	2" Sweat Brass Companion Flange	158.92	28.78
			EA	2-1/2" Sweat Brass Companion Flange	200.78	34.62
			EA	3" Sweat Brass Companion Flange	222.18	45.38
			EA	4" Sweat Brass Companion Flange	296.09	54.08
			EA	5" Sweat Brass Companion Flange	547.47	60.58
			EA	6" Sweat Brass Companion Flange	631.84	88.02
			EA	8" Copper Companion Flange	1,454.96	125.56
22 11 16 00-0779				Brass Compression Fittings (22 11 16 00-0368)		
22 11 16 00-0780				Brass Compression Unions (22 11 16 00-0779)		
			EA	1/4" Brass Compression Union.....	24.05	15.22
			EA	3/8" Brass Compression Union	24.39	15.22
			EA	1/2" Brass Compression Union	25.41	15.22
			EA	5/8" Brass Compression Union.....	25.90	15.22
			EA	3/4" Brass Compression Union.....	31.88	15.22
			EA	3/8" x 1/4" Brass Compression Union	24.62	15.22
			EA	1/2" x 3/8" Brass Compression Union	25.50	15.22
			EA	5/8" x 3/8" Brass Compression Union	26.10	15.22
			EA	5/8" x 1/2" Brass Compression Union	27.08	15.22
22 11 16 00-0790				Brass Compression Union Elbows (22 11 16 00-0779)		
			EA	1/4" Brass Compression Union Elbow	25.41	15.22
			EA	3/8" Brass Compression Union Elbow	25.97	15.22
			EA	1/2" Brass Compression Union Elbow	27.19	15.22
			EA	5/8" Brass Compression Union Elbow	29.08	15.22
			EA	3/4" Brass Compression Union Elbow	36.46	15.22
			EA	3/8" x 1/4" Brass Compression Union Elbow	25.97	15.22
			EA	1/2" x 3/8" Brass Compression Union Elbow	27.19	15.22
			EA	5/8" x 3/8" Brass Compression Union Elbow	27.53	15.22
			EA	5/8" x 1/2" Brass Compression Union Elbow	33.08	15.22



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-0800	Brass Compression Union Tees (22 11 16 00-0779)		
22 11 16 00-0801	EA 1/4" Brass Compression Union Tee.....	25.83	15.22
22 11 16 00-0802	EA 3/8" Brass Compression Union Tee.....	26.99	15.22
22 11 16 00-0803	EA 1/2" Brass Compression Union Tee.....	28.20	15.22
22 11 16 00-0804	EA 5/8" Brass Compression Union Tee.....	32.06	15.22
22 11 16 00-0805	EA 3/4" Brass Compression Union Tee.....	45.40	15.22
22 11 16 00-0806	EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	27.80	15.22
22 11 16 00-0807	EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	34.06	15.22
22 11 16 00-0808	EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	33.46	15.22
22 11 16 00-0809	EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	34.16	15.22
22 11 16 00-0810	Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811	EA 1/4" Brass Compression Male Connector.....	23.80	15.22
22 11 16 00-0812	EA 3/8" Brass Compression Male Connector.....	24.25	15.22
22 11 16 00-0813	EA 1/2" Brass Compression Male Connector.....	25.02	15.22
22 11 16 00-0814	EA 5/8" Brass Compression Male Connector.....	26.17	15.22
22 11 16 00-0815	EA 3/4" Brass Compression Male Connector.....	29.14	15.07
22 11 16 00-0816	Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817	EA 1/4" Brass Compression Female Connector.....	24.29	15.22
22 11 16 00-0818	EA 3/8" Brass Compression Female Connector.....	24.87	15.22
22 11 16 00-0819	EA 1/2" Brass Compression Female Connector.....	25.85	15.22
22 11 16 00-0820	EA 5/8" Brass Compression Female Connector.....	26.49	15.22
22 11 16 00-0821	EA 3/4" Brass Compression Female Connector.....	35.41	14.93
22 11 16 00-0822	Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823	Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0824	EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	58.01	33.80
22 11 16 00-0825	EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	65.04	38.59
22 11 16 00-0826	EA 1" Copper x Female Iron Pipe Thread Dielectric Union.....	76.24	42.41
22 11 16 00-0827	EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	90.83	46.68
22 11 16 00-0828	EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	108.31	51.87
22 11 16 00-0829	EA 2" Copper x Female Iron Pipe Thread Dielectric Union.....	136.35	62.24
22 11 16 00-0830	Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0831	EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	62.62	33.80
22 11 16 00-0832	EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	72.63	38.59
22 11 16 00-0833	EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	86.25	42.41
22 11 16 00-0834	EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	104.11	46.68
22 11 16 00-0835	EA 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	124.74	51.87
22 11 16 00-0836	EA 2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	155.62	62.24
22 11 16 00-0837	Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0838	EA 1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	59.70	33.80
22 11 16 00-0839	EA 3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	67.81	38.59
22 11 16 00-0840	EA 1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	76.97	42.41
22 11 16 00-0841	EA 1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	88.26	46.68
22 11 16 00-0842	EA 1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	105.77	51.87
22 11 16 00-0843	EA 2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	134.31	62.24
22 11 16 00-0844	Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0845	EA 2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	334.77	160.02
22 11 16 00-0846	EA 3" Copper x Female Iron Pipe Thread Dielectric Flange.....	419.48	201.51
22 11 16 00-0847	EA 4" Copper x Female Iron Pipe Thread Dielectric Flange.....	588.13	274.26
22 11 16 00-0848	Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0849	EA 2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	336.66	160.02
22 11 16 00-0850	EA 3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	434.59	201.51
22 11 16 00-0851	EA 4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	762.49	274.26
22 11 16 00-0852	Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0853	EA 1/4" x 1/4" Brass Push-Fit Coupling.....	27.68	14.09
	Note: (Sharkbite)		
22 11 16 00-0854	EA 3/8" x 3/8" Brass Push-Fit Coupling.....	33.31	15.02
	Note: (Sharkbite)		
22 11 16 00-0855	EA 1/2" x 1/2" Brass Push-Fit Coupling.....	35.08	16.91
	Note: (Sharkbite)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0856	EA		5/8" x 5/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	39.77	18.03
	22 11 16 00-0857	EA		3/4" x 3/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	40.91	19.25
	22 11 16 00-0858	EA		1" x 1" Brass Push-Fit Coupling..... Note: (Sharkbite)	55.77	23.00
	22 11 16 00-0859	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	34.19	15.96
	22 11 16 00-0860	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	39.15	17.47
	22 11 16 00-0861	EA		1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	56.24	21.13
	22 11 16 00-0862	EA		1/4" x 1/4" Brass Push-Fit Elbow Note: (Sharkbite)	28.62	14.09
	22 11 16 00-0863	EA		3/8" x 3/8" Brass Push-Fit Elbow Note: (Sharkbite)	37.34	15.02
	22 11 16 00-0864	EA		1/2" x 1/2" Brass Push-Fit Elbow Note: (Sharkbite)	35.60	16.91
	22 11 16 00-0865	EA		5/8" x 5/8" Brass Push-Fit Elbow Note: (Sharkbite)	42.11	18.03
	22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Elbow Note: (Sharkbite)	40.24	19.25
	22 11 16 00-0867	EA		1" x 1" Brass Push-Fit Elbow Note: (Sharkbite)	56.29	23.00
	22 11 16 00-0868	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	33.76	15.96
	22 11 16 00-0869	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	37.48	17.47
	22 11 16 00-0870	EA		1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	67.78	21.13
	22 11 16 00-0871	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	43.32	21.13
	22 11 16 00-0872	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	53.06	22.54
	22 11 16 00-0873	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	50.60	25.35
	22 11 16 00-0874	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	62.18	27.04
	22 11 16 00-0875	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	58.73	28.87
	22 11 16 00-0876	EA		1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	78.17	34.50
	22 11 16 00-0877	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	54.86	23.94
	22 11 16 00-0878	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.31	24.41
	22 11 16 00-0879	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	56.62	27.71
	22 11 16 00-0880	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	75.48	32.63
	22 11 16 00-0881	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.40	15.50
	22 11 16 00-0882	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.29	15.96
	22 11 16 00-0883	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.40	16.91
	22 11 16 00-0884	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	37.05	19.25
	22 11 16 00-0885	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	50.35	23.00
	22 11 16 00-0886	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	29.17	15.50
	22 11 16 00-0887	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.29	15.96
	22 11 16 00-0888	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.46	16.91
	22 11 16 00-0889	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	36.76	19.25
	22 11 16 00-0890	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	38.98	18.63
	22 11 16 00-0891	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	46.25	21.13
	22 11 16 00-0892	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	50.95	23.00
	22 11 16 00-0893	EA		1/2" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	43.59	16.91
	22 11 16 00-0894	EA		3/4" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	50.75	19.25
	22 11 16 00-0895	EA		1" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	66.01	23.00
	22 11 16 00-0896	EA		1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	46.19	16.91
	22 11 16 00-0897	EA		3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	55.14	19.25

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0898	EA		1" Brass Push-Fit Check Valve Note: (Sharkbite)	88.85	23.00
22 11 16 00-0899			Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.66 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.42 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.53 <i>For For Brazed Fittings, Add</i> 0.88 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.43 <i>For Work In Restricted Working Space, Add</i> 6.61	26.51	3.94
22 11 16 00-0901	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.96 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.66 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.02 <i>For For Brazed Fittings, Add</i> 1.00 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.77 <i>For Work In Restricted Working Space, Add</i> 7.49	30.51	5.07
22 11 16 00-0902	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.31 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.92 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.29 <i>For For Brazed Fittings, Add</i> 1.05 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.98 <i>For Work In Restricted Working Space, Add</i> 7.85	33.41	6.05
22 11 16 00-0903	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.84 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.29 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.58 <i>For For Brazed Fittings, Add</i> 1.09 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.22 <i>For Work In Restricted Working Space, Add</i> 8.15 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.00	37.21	7.04
22 11 16 00-0904	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.29 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.63 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.96 <i>For For Brazed Fittings, Add</i> 1.16 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.51 <i>For Work In Restricted Working Space, Add</i> 8.70 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.22	41.21	8.03
22 11 16 00-0905	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.47 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.49 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.90 <i>For For Brazed Fittings, Add</i> 1.33 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.24 <i>For Work In Restricted Working Space, Add</i> 10.01 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.80	51.36	10.00
22 11 16 00-0906	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 6.10 <i>For Type M Tubing Instead Of Type L, Deduct</i> -4.64 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 6.71 <i>For For Brazed Fittings, Add</i> 1.43 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.92 <i>For Work In Restricted Working Space, Add</i> 10.73 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.68	62.56	12.06
22 11 16 00-0907	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 7.97 <i>For Type M Tubing Instead Of Type L, Deduct</i> -5.97 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 7.65 <i>For For Brazed Fittings, Add</i> 1.55 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -5.72 <i>For Work In Restricted Working Space, Add</i> 11.63 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -3.68	75.56	14.00



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0908	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 13.59 <i>For Type M Tubing Instead Of Type L, Deduct</i> -9.98 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 10.84 <i>For For Brazed Fittings, Add</i> 2.00 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -8.33 <i>For Work In Restricted Working Space, Add</i> 15.03 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -6.64	116.55	18.54
	22 11 16 00-0909	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 27.87 <i>For Type M Tubing Instead Of Type L, Deduct</i> -19.98 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 16.90 <i>For For Brazed Fittings, Add</i> 2.57 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -13.69 <i>For Work In Restricted Working Space, Add</i> 19.30 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -14.51	209.38	23.08
	22 11 16 00-0910	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 36.73 <i>For Type M Tubing Instead Of Type L, Deduct</i> -26.30 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 21.85 <i>For For Brazed Fittings, Add</i> 3.27 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -17.76 <i>For Work In Restricted Working Space, Add</i> 24.51 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -19.19	273.59	27.88
	22 11 16 00-0911	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 92.87 <i>For Type M Tubing Instead Of Type L, Deduct</i> -65.16 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 40.69 <i>For For Brazed Fittings, Add</i> 4.06 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -35.61 <i>For Work In Restricted Working Space, Add</i> 30.46 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -50.92	610.72	33.33
	22 11 16 00-0912			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
	22 11 16 00-0913			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
	22 11 16 00-0914			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
	22 11 16 00-0915	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.55	7.84	2.07
	22 11 16 00-0916	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.63	9.08	2.18
	22 11 16 00-0917	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.76	11.21	2.34
	22 11 16 00-0918	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.92	13.79	2.56
	22 11 16 00-0919	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 2.12	16.01	2.83
	22 11 16 00-0920	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 2.37	20.28	3.16
	22 11 16 00-0921	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 2.69	27.92	3.59
	22 11 16 00-0922	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 3.19	35.92	4.26
	22 11 16 00-0923	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 3.92	50.17	5.22
	22 11 16 00-0924	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 4.98	88.38	6.64
	22 11 16 00-0925	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 6.53	127.63	8.71
	22 11 16 00-0926			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0913)		
	22 11 16 00-0927	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 7.39	28.80	9.86
	22 11 16 00-0928	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 9.34	37.59	12.44
	22 11 16 00-0929	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 11.71	49.26	15.56
	22 11 16 00-0930	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 14.63	68.45	19.45
	22 11 16 00-0931	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 16.18	76.19	21.53



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	90.16 18.05	21.53
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	146.58 20.54	27.36
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.79 24.28	32.42
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	241.14 29.88	39.81
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	303.99 37.97	50.57
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	600.22 49.80	66.39
22 11 16 00-0938			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	30.88 7.39	9.86
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	40.08 9.34	12.44
22 11 16 00-0941	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	53.30 11.71	15.56
22 11 16 00-0942	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	73.77 14.63	19.45
22 11 16 00-0943	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.66 16.18	21.53
22 11 16 00-0944	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.35 18.05	24.12
22 11 16 00-0945	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	147.97 20.54	27.36
22 11 16 00-0946	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.62 24.28	32.42
22 11 16 00-0947	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.78 29.88	39.81
22 11 16 00-0948	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	351.53 37.97	50.57
22 11 16 00-0949	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	633.90 49.80	66.39
22 11 16 00-0950			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0913)		
22 11 16 00-0951	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	44.53 11.09	14.78
22 11 16 00-0952	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	58.76 14.00	18.67
22 11 16 00-0953	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	73.46 17.58	23.47
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	104.45 21.94	29.31
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	116.80 24.28	32.42
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	143.77 27.08	36.05
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	190.62 30.81	41.11
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	217.04 36.41	48.50
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	262.40 44.82	59.78
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	410.65 56.95	75.99
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	881.14 74.69	99.59
22 11 16 00-0962			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0913)		
22 11 16 00-0963	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	55.80 14.78	19.71
22 11 16 00-0964	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	72.64 18.67	24.90
22 11 16 00-0965	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	90.85 23.42	31.25
22 11 16 00-0966	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	124.49 29.26	39.03
22 11 16 00-0967	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	138.80 32.37	43.18
22 11 16 00-0968	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	166.43 36.10	48.11
22 11 16 00-0969	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	212.66 41.08	54.72
22 11 16 00-0970	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	244.22 48.55	64.71
22 11 16 00-0971	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	296.51 59.75	79.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0972	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	443.31 75.94	101.28
	22 11 16 00-0973	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	876.47 99.59	132.79
22 11 16 00-0974				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0913)</small>		
	22 11 16 00-0975	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	25.32 6.85	9.07
	22 11 16 00-0976	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	35.58 9.22	12.31
	22 11 16 00-0977	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	62.38 12.06	16.08
	22 11 16 00-0978	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	70.66 13.34	17.77
	22 11 16 00-0979	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	84.05 14.90	19.84
	22 11 16 00-0980	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	90.92 16.96	22.57
	22 11 16 00-0981	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	110.80 20.03	26.71
	22 11 16 00-0982	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	152.76 24.66	32.81
	22 11 16 00-0983	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	254.66 31.32	41.75
	22 11 16 00-0984	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	589.07 41.08	54.72
22 11 16 00-0985				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>		
	22 11 16 00-0986	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	32.50 4.86	6.48
	22 11 16 00-0987	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	40.39 6.85	9.07
	22 11 16 00-0988	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	49.56 9.22	12.31
	22 11 16 00-0989	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	61.17 12.06	16.08
	22 11 16 00-0990	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	72.44 13.34	17.77
	22 11 16 00-0991	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	92.95 14.90	19.84
	22 11 16 00-0992	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	149.04 16.96	22.57
	22 11 16 00-0993	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	308.39 20.03	26.71
	22 11 16 00-0994	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	463.00 24.66	32.81
22 11 16 00-0995				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>		
	22 11 16 00-0996	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	22.45 4.86	6.48
	22 11 16 00-0997	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	31.27 6.85	9.07
	22 11 16 00-0998	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	44.94 9.22	12.31
	22 11 16 00-0999	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	61.17 12.06	16.08
	22 11 16 00-1000	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	72.85 13.34	17.77
	22 11 16 00-1001	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	88.03 14.90	19.84
	22 11 16 00-1002	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	129.17 16.96	22.57
	22 11 16 00-1003	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	154.60 20.03	26.71
	22 11 16 00-1004	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	230.69 24.66	32.81
22 11 16 00-1005				Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <small>(22 11 16 00-0913)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	24.82	6.48
<i>For Work In Restricted Working Space, Add</i>	4.86	
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	32.02	9.07
<i>For Work In Restricted Working Space, Add</i>	6.85	
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	45.14	12.31
<i>For Work In Restricted Working Space, Add</i>	9.22	
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	61.87	16.08
<i>For Work In Restricted Working Space, Add</i>	12.06	
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	69.67	17.77
<i>For Work In Restricted Working Space, Add</i>	13.34	
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	85.44	19.84
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	130.67	22.57
<i>For Work In Restricted Working Space, Add</i>	16.96	
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	180.83	26.71
<i>For Work In Restricted Working Space, Add</i>	20.03	
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	275.29	32.81
<i>For Work In Restricted Working Space, Add</i>	24.66	
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	20.10	5.97
<i>For Work In Restricted Working Space, Add</i>	4.43	
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	28.25	8.30
<i>For Work In Restricted Working Space, Add</i>	6.22	
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	37.99	11.15
<i>For Work In Restricted Working Space, Add</i>	8.36	
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	51.65	14.66
<i>For Work In Restricted Working Space, Add</i>	10.97	
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	59.47	16.21
<i>For Work In Restricted Working Space, Add</i>	12.14	
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	67.20	18.03
<i>For Work In Restricted Working Space, Add</i>	13.54	
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	104.27	20.49
<i>For Work In Restricted Working Space, Add</i>	15.41	
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	114.13	24.25
<i>For Work In Restricted Working Space, Add</i>	18.21	
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	144.71	29.83
<i>For Work In Restricted Working Space, Add</i>	22.41	
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	233.06	38.00
<i>For Work In Restricted Working Space, Add</i>	28.48	
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	404.41	49.80
<i>For Work In Restricted Working Space, Add</i>	37.35	
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	40.42	7.13
<i>For Work In Restricted Working Space, Add</i>	5.33	
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	48.65	9.98
<i>For Work In Restricted Working Space, Add</i>	7.47	
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	57.95	13.36
<i>For Work In Restricted Working Space, Add</i>	10.04	
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	101.43	17.51
<i>For Work In Restricted Working Space, Add</i>	13.15	
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	107.14	19.45
<i>For Work In Restricted Working Space, Add</i>	14.55	
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	151.50	21.66
<i>For Work In Restricted Working Space, Add</i>	16.26	
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	263.34	24.64
<i>For Work In Restricted Working Space, Add</i>	18.48	
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	377.76	29.18
<i>For Work In Restricted Working Space, Add</i>	21.86	
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	607.90	35.80
<i>For Work In Restricted Working Space, Add</i>	26.88	
22 11 16 00-1037 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	813.85	45.51
<i>For Work In Restricted Working Space, Add</i>	34.16	
22 11 16 00-1038 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	1,004.44	59.78
<i>For Work In Restricted Working Space, Add</i>	44.82	
22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)		
22 11 16 00-1040 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	17.63	6.10
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 11 16 00-1041 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	23.57	7.65
<i>For Work In Restricted Working Space, Add</i>	3.50	
22 11 16 00-1042 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	35.67	9.60
<i>For Work In Restricted Working Space, Add</i>	4.39	
22 11 16 00-1043 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	41.34	7.26
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 11 16 00-1044 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	43.75	8.04
<i>For Work In Restricted Working Space, Add</i>	6.07	
22 11 16 00-1045 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	60.43	9.07
<i>For Work In Restricted Working Space, Add</i>	6.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	93.84 7.70	10.24
22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	100.08 9.10	12.19
22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	154.97 11.20	14.91
22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	340.15 14.24	18.93
22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	438.06 18.67	24.90
22 11 16 00-1051			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0913)</small>		
22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	32.02 3.54	4.67
22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	38.27 4.98	6.61
22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	46.45 6.69	8.94
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	54.15 8.79	11.67
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	57.84 9.73	12.97
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	69.85 10.82	14.40
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	93.87 12.33	16.47
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	106.04 14.55	19.45
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	132.69 17.93	23.86
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	190.61 22.80	30.34
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	358.19 29.88	39.81
22 11 16 00-1063			Cross-Linked Polyethylene Tubing, ASTM F877 <small>(22 11 16)</small> Note: Aboveground, domestic water usage.		
22 11 16 00-1064			Cross-Linked Polyethylene Tubing <small>(22 11 16 00-1063)</small>		
22 11 16 00-1065	LF		3/8" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.08 1.22	
22 11 16 00-1066	LF		1/2" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.52 1.32	
22 11 16 00-1067	LF		3/4" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	6.81 1.43	
22 11 16 00-1068	LF		1" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	8.55 1.51	
22 11 16 00-1069			Cross-Linked Polyethylene Forged Brass PEX Fittings <small>(22 11 16 00-1063)</small> Note: Aboveground, domestic water usage.		
22 11 16 00-1070			Male Adapters <small>(22 11 16 00-1069)</small>		
22 11 16 00-1071	EA		3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.46 6.34	
22 11 16 00-1072	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.50 6.76	
22 11 16 00-1073	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.14 7.18	
22 11 16 00-1074	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.55 7.61	
22 11 16 00-1075	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.14 7.18	
22 11 16 00-1076	EA		1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	40.86 8.45	
22 11 16 00-1077			Female Adapters <small>(22 11 16 00-1069)</small>		
22 11 16 00-1078	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	29.12 6.76	
22 11 16 00-1079	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.86 7.18	
22 11 16 00-1080	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.27 7.61	
22 11 16 00-1081	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.86 7.18	
22 11 16 00-1082	EA		1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	41.64 8.45	
22 11 16 00-1083			Tube Adapters <small>(22 11 16 00-1069)</small>		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1084	EA		3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing	23.93	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-1085	EA		1/2" Forged Brass Tube Adapter For PEX Tubing.....	25.34	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1086	EA		3/4" Forged Brass Tube Adapter For PEX Tubing.....	30.53	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1087	EA		1" Forged Brass Tube Adapter For PEX Tubing	39.27	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1088			Plugs <small>(22 11 16 00-1069)</small>		
22 11 16 00-1089	EA		3/8" Forged Brass Plug For PEX Tubing.....	12.04	
			<i>For Work In Restricted Working Space, Add</i>	2.96	
22 11 16 00-1090	EA		1/2" Forged Brass Plug For PEX Tubing.....	13.44	
			<i>For Work In Restricted Working Space, Add</i>	3.38	
22 11 16 00-1091	EA		3/4" Forged Brass Plug For PEX Tubing.....	15.47	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-1092	EA		1" Forged Brass Plug For PEX Tubing.....	19.27	
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 11 16 00-1093			Tees <small>(22 11 16 00-1069)</small>		
22 11 16 00-1094	EA		3/8" Forged Brass Tee For PEX Tubing.....	34.14	
			<i>For Work In Restricted Working Space, Add</i>	8.87	
22 11 16 00-1095	EA		1/2" Forged Brass Tee For PEX Tubing.....	38.36	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-1096	EA		3/4" Forged Brass Tee For PEX Tubing.....	45.69	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-1097	EA		1" Forged Brass Tee For PEX Tubing.....	58.69	
			<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-1098	EA		1/2" Forged Brass Reducing Tee For PEX Tubing	36.95	
			<i>For Work In Restricted Working Space, Add</i>	9.72	
22 11 16 00-1099	EA		3/4" Forged Brass Reducing Tee For PEX Tubing	42.88	
			<i>For Work In Restricted Working Space, Add</i>	10.56	
22 11 16 00-1100	EA		1" Forged Brass Reducing Tee For PEX Tubing	53.21	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-1101			Couplings <small>(22 11 16 00-1069)</small>		
22 11 16 00-1102	EA		3/8" Forged Brass Coupling For PEX Tubing.....	22.06	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 11 16 00-1103	EA		1/2" Forged Brass Coupling For PEX Tubing.....	25.03	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1104	EA		3/4" Forged Brass Coupling For PEX Tubing.....	28.62	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1105	EA		1" Forged Brass Coupling For PEX Tubing.....	35.06	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1106	EA		3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing.....	27.21	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 16 00-1107	EA		1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing.....	33.65	
			<i>For Work In Restricted Working Space, Add</i>	8.03	
22 11 16 00-1108			Fitting Reducers <small>(22 11 16 00-1069)</small>		
22 11 16 00-1109	EA		3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing	24.40	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-1110	EA		1/2" Forged Brass Fitting Reducer For PEX Tubing	25.81	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1111	EA		3/4" Forged Brass Fitting Reducer For PEX Tubing	31.46	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1112	EA		1" Forged Brass Fitting Reducer For PEX Tubing	44.60	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1113			90 Degree Elbows <small>(22 11 16 00-1069)</small>		
22 11 16 00-1114	EA		3/8" Forged Brass 90 Degree Elbow For PEX Tubing	23.46	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 11 16 00-1115	EA		1/2" Forged Brass 90 Degree Elbow For PEX Tubing	26.28	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1116	EA		3/4" Forged Brass 90 Degree Elbow For PEX Tubing	31.46	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1117	EA		3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing	30.05	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 16 00-1118	EA		1/2" Drop 90 Degree Elbow For PEX Tubing.....	36.01	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1119	EA		3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing.....	40.22	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1120	EA		3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing.....	38.81	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 19			Domestic Water Piping Specialties <small>(22 11)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0001 Rubber Hose And Clamps <small>(22 11 19)</small>		
22 11 19 00-0002 General Purpose Hose <small>(22 11 19 00-0001)</small>		
<small>Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.</small>		
22 11 19 00-0003 LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.28	2.80
22 11 19 00-0004 LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	8.28	2.80
22 11 19 00-0005 LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.65	2.80
22 11 19 00-0006 LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.71	2.80
22 11 19 00-0007 LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	12.42	4.21
22 11 19 00-0008 LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	18.81	4.21
22 11 19 00-0009 LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	20.54	5.61
22 11 19 00-0010 LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	36.29	5.61
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly <small>(22 11 19 00-0001)</small>		
<small>Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.</small>		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	46.49	5.61
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	54.53	5.61
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	76.51	6.89
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	106.49	9.32
22 11 19 00-0016 Chemical Resistant Rubber Hoses <small>(22 11 19 00-0001)</small>		
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,268.47	316.33
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,685.05	316.33
22 11 19 00-0019 Water Pump Hose <small>(22 11 19 00-0001)</small>		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose.....	447.80	85.68
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose.....	469.19	85.68
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling <small>(22 11 19 00-0001)</small>		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	32.60	11.78
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	34.72	12.63
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	37.11	13.46
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	42.91	15.14
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling.....	50.71	18.51
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling.....	60.38	22.16
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling.....	78.40	29.16
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling.....	98.42	36.46
22 11 19 00-0031 Worm-Drive Hose Clamp <small>(22 11 19 00-0001)</small>		
22 11 19 00-0032 EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....	14.41	4.21
22 11 19 00-0033 EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	15.25	4.21
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	16.16	4.21
22 11 19 00-0035 EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....	17.20	4.21
22 11 19 00-0036 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	18.41	4.21
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	19.90	5.61
22 11 19 00-0038 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	21.49	5.61
22 11 19 00-0039 Trap Primer And Accessories <small>(22 11 19)</small>		
22 11 19 00-0040 Trap Primer <small>(22 11 19 00-0039)</small>		
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	283.96	21.13
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	175.10	14.09
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	169.94	14.09
22 11 19 00-0044 Trap Primer Distribution Unit <small>(22 11 19 00-0039)</small>		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U).....	160.44	28.17
<small>Note: Can be used for two, three or four drains.</small>		
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4).....	174.31	28.17
<small>Note: Can be used for two, three or four drains.</small>		
22 11 19 00-0047 Trap Primer Manifold <small>(22 11 19 00-0039)</small>		
22 11 19 00-0048 EA Two Outlet Manifold.....	229.82	37.88
22 11 19 00-0049 EA Four Outlet Manifold.....	341.85	43.10
22 11 19 00-0050 EA Six Outlet Manifold.....	450.23	45.64
22 11 19 00-0051 EA Eight Outlet Manifold.....	564.74	53.52
22 11 19 00-0052 Sewage Air Release Valves <small>(22 11 19)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0053 Cast Iron, Sewage Air Release Valves <small>(22 11 19 00-0052)</small> Note: Stainless steel float.		
22 11 19 00-0054 EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	873.30	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0055 EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,084.49	85.94
For Back Flush Attachment, Add	650.00	
22 11 19 00-0056 EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,374.93	108.49
For Back Flush Attachment, Add	650.00	
22 11 19 00-0057 Cast Iron, Sewage Air Vacuum Valves <small>(22 11 19 00-0052)</small> Note: Stainless steel float.		
22 11 19 00-0058 EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401).....	891.64	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0059 EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402).....	1,721.71	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0060 EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403).....	2,079.66	85.94
For Back Flush Attachment, Add	650.00	
22 11 19 00-0061 EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	3,069.46	108.49
22 11 19 00-0062 Cast Iron, Sewage Combination Air Valves <small>(22 11 19 00-0052)</small> Note: Stainless steel float.		
22 11 19 00-0063 EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	1,873.05	51.43
22 11 19 00-0064 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,572.41	51.43
22 11 19 00-0065 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	3,024.37	85.94
22 11 19 00-0066 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	3,700.04	108.49
22 11 19 00-0067 Brass, Anti Siphon Vacuum Breakers <small>(22 11 19)</small> Note: Watts 288A		
22 11 19 00-0068 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	114.35	35.21
22 11 19 00-0069 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	130.68	39.43
22 11 19 00-0070 EA 1" Brass, Anti Siphon Vacuum Breaker.....	248.95	45.07
22 11 19 00-0071 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	385.76	52.11
22 11 19 00-0072 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	460.03	57.74
22 11 19 00-0073 EA 2" Brass, Anti Siphon Vacuum Breaker.....	665.25	70.43
22 11 19 00-0074 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,694.29	88.03
22 11 19 00-0075 Anti Siphon Pressure Vacuum Breakers <small>(22 11 19)</small> Note: Watts 800M4QT		
22 11 19 00-0076 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	300.37	35.21
22 11 19 00-0077 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	266.92	39.43
22 11 19 00-0078 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	375.48	45.07
22 11 19 00-0079 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	664.13	52.11
22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	807.41	57.74
22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	820.85	70.43
22 11 19 00-0082 Bellows Type Water Hammer Arrestors <small>(22 11 19)</small>		
22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	267.29	16.84
22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	516.13	20.38
22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	751.78	20.38
22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,823.38	20.38
22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	2,052.91	20.38
22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	2,513.33	20.38
22 11 19 00-0089 Piston Type Water Hammer Arrestors <small>(22 11 19)</small>		
22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors <small>(22 11 19 00-0089)</small>		
22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	161.00	9.39
22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	306.11	10.83
22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	453.03	11.74
22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	1,108.49	15.15
22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,350.25	18.78
22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,536.05	20.38



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0097		Wall Hydrants <small>(22 11 19)</small> Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0098		Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0099	EA	6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	780.00	35.21
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0100	EA	12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	826.10	42.26
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0101	EA	18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	854.95	50.85
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0102		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0103	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	812.28	59.15
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0104		Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0105	EA	3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	449.95	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0106	EA	4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0107	EA	6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0108	EA	8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0109	EA	10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	569.83	88.03
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0110	EA	12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	569.83	88.03
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0111	EA	18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	637.52	88.03
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0112		Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0097)</small> Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0113	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	402.66	35.21
22 11 19 00-0114	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	436.59	35.21
22 11 19 00-0115	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	441.21	35.21
22 11 19 00-0116	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	492.10	35.21
22 11 19 00-0117	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	686.74	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0118	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)	706.79	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0119	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	706.79	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0120	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)	754.60	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0121		Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		
22 11 19 00-0122		Dryer Vent Kit <small>(22 11 19 00-0121)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0123	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	97.94	18.31
22 11 19 00-0124		Washer Boxes And Dryer Vents <small>(22 11 19 00-0121)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0125	EA	2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	347.91	28.17
22 11 19 00-0126		Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0127	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	174.76	28.17
22 11 19 00-0128	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	214.53	28.17
22 11 19 00-0129	EA	Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	236.43	28.17
22 11 19 00-0130		Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0131		Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0132	EA	1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	483.55	34.09
22 11 19 00-0133	EA	1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	147.78	34.09
22 11 19 00-0134	EA	1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	281.62	34.09
22 11 19 00-0135	EA	3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	326.21	45.93
22 11 19 00-0136		Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small>		
		Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0137	EA	3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,294.59	49.17
22 11 19 00-0138	EA	3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,455.39	60.56
22 11 19 00-0139	EA	1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	1,748.66	70.45
22 11 19 00-0140	EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,259.38	74.04
22 11 19 00-0141	EA	2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,031.90	96.06
22 11 19 00-0142		High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small>		
		Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0143	EA	3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	3,279.05	75.73
22 11 19 00-0144	EA	1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	4,263.36	88.05
22 11 19 00-0145	EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130)	4,967.81	92.55
22 11 19 00-0146	EA	2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	5,511.10	120.07
22 11 19 00-0147		Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0130)</small>		
		Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0148	EA	3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	945.02	49.17
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149	EA	1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,113.77	60.55
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150	EA	1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,367.11	70.45
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151	EA	1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,666.24	74.06
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0152	EA	2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	2,469.37	96.06
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0153		Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0130)</small>		
		Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0154	EA	3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,155.11	70.43
22 11 19 00-0155	EA	1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,351.39	88.73
22 11 19 00-0156	EA	1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,697.42	107.04
22 11 19 00-0157	EA	1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,075.22	125.35
22 11 19 00-0158	EA	2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,834.97	164.79
22 11 19 00-0159	EA	2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,691.36	187.90
22 11 19 00-0160		Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0130)</small>		
22 11 19 00-0161	EA	2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	4,368.52	96.08
22 11 19 00-0162		Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0163		Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0162)</small>		
22 11 19 00-0164		Threaded Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0165		Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0164)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0166	EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	387.69	37.74
		For Work In Restricted Working Space, Add	28.31	
		For Owner Furnished Material, Deduct	-293.33	
22 11 19 00-0167	EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	464.94	53.52
		For Work In Restricted Working Space, Add	40.14	
		For Owner Furnished Material, Deduct	-331.14	
22 11 19 00-0168	EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	539.09	65.35
		For Work In Restricted Working Space, Add	49.01	
		For Owner Furnished Material, Deduct	-375.71	
22 11 19 00-0169	EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	742.12	76.06
		For Work In Restricted Working Space, Add	57.04	
		For Owner Furnished Material, Deduct	-551.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0170	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	912.91	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-696.01	
22 11 19 00-0171	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,062.00	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-780.32	
22 11 19 00-0172			Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer		
			<small>(22 11 19 00-0164)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0173	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	471.63	37.74
			<i>For Work In Restricted Working Space, Add</i>	28.31	
			<i>For Owner Furnished Material, Deduct</i>	-377.27	
22 11 19 00-0174	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	587.88	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-454.08	
22 11 19 00-0175	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	689.81	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-526.43	
22 11 19 00-0176	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	956.86	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-766.72	
22 11 19 00-0177	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,165.83	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-948.93	
22 11 19 00-0178	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,411.19	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,129.51	
22 11 19 00-0179			Flanged Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0180			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0181	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	4,968.17	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-4,553.21	
22 11 19 00-0182	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	5,460.25	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,999.90	
22 11 19 00-0183			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0184	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	5,430.98	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-5,016.02	
22 11 19 00-0185	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	6,231.59	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-5,771.24	
22 11 19 00-0186			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0187	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	5,001.54	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-4,586.60	
22 11 19 00-0188	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	3,860.42	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,400.06	
22 11 19 00-0189	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,034.20	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-5,342.97	
22 11 19 00-0190	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	9,186.98	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-7,895.86	
22 11 19 00-0191	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	20,713.74	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.10	
			<i>For Owner Furnished Material, Deduct</i>	-18,776.74	
22 11 19 00-0192	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	26,555.34	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-24,249.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0193 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	7,011.56	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-6,320.39	
22 11 19 00-0195 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	11,643.20	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-10,352.08	
22 11 19 00-0196 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	30,745.65	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-28,440.06	
22 11 19 00-0197 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0198 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	5,304.32	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-4,889.38	
22 11 19 00-0199 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	5,829.80	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-5,369.45	
22 11 19 00-0200 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,388.73	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,697.56	
22 11 19 00-0201 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	10,694.57	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-9,403.45	
22 11 19 00-0202 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	21,965.45	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-20,028.76	
22 11 19 00-0203 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	28,170.81	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-25,865.22	
22 11 19 00-0204 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0205 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,212.60	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-2,797.66	
22 11 19 00-0206 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,537.94	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-3,077.59	
22 11 19 00-0207 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,048.69	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-3,357.52	
22 11 19 00-0208 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	6,541.07	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-5,249.95	
22 11 19 00-0209 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	12,316.29	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-10,379.60	
22 11 19 00-0210 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	13,412.50	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-11,106.91	
22 11 19 00-0211 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0212 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,205.27	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-3,790.33	
22 11 19 00-0213 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,530.61	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,070.26	
22 11 19 00-0214 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	5,707.48	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,016.31	
22 11 19 00-0215 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	9,317.96	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-8,026.84	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0216	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	16,431.91	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-14,495.22	
22 11 19 00-0217	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	19,554.04	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-17,248.45	
22 11 19 00-0218			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0219	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,015.16	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-2,600.22	
22 11 19 00-0220	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,349.48	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-2,889.13	
22 11 19 00-0221	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,869.09	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-3,177.92	
22 11 19 00-0222	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	6,399.99	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,108.87	
22 11 19 00-0223	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	12,180.33	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-10,243.64	
22 11 19 00-0224	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	13,792.12	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-11,486.53	
22 11 19 00-0225			N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0226	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,924.60	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-3,509.66	
22 11 19 00-0227	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,249.94	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,789.59	
22 11 19 00-0228	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,427.15	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-4,735.98	
22 11 19 00-0229	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	9,019.38	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-7,728.26	
22 11 19 00-0230	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	15,979.99	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-14,043.30	
22 11 19 00-0231	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	19,100.79	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-16,795.20	
22 11 19 00-0232			Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0233	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,482.11	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-3,067.17	
22 11 19 00-0234	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,807.45	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,347.10	
22 11 19 00-0235	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,318.20	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-3,627.03	
22 11 19 00-0236	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	6,817.37	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,526.25	
22 11 19 00-0237	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	12,592.59	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-10,655.90	
22 11 19 00-0238			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0179)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0239	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....	4,474.78	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-4,059.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0240 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	4,800.12	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-4,339.77	
22 11 19 00-0241 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,976.98	518.70
<i>For Work In Restricted Working Space, Add</i>	207.35	
<i>For Owner Furnished Material, Deduct</i>	-5,285.81	
22 11 19 00-0242 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	9,594.32	714.73
<i>For Work In Restricted Working Space, Add</i>	387.34	
<i>For Owner Furnished Material, Deduct</i>	-8,303.20	
22 11 19 00-0243 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	12,592.59	1,072.10
<i>For Work In Restricted Working Space, Add</i>	581.01	
<i>For Owner Furnished Material, Deduct</i>	-10,655.90	
22 11 19 00-0244 Grooved Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0244)</small>		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0246 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	3,015.16	165.99
<i>For Work In Restricted Working Space, Add</i>	124.48	
<i>For Owner Furnished Material, Deduct</i>	-2,600.22	
22 11 19 00-0247 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	3,349.48	184.14
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-2,889.13	
22 11 19 00-0248 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0244)</small>		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0249 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	3,924.60	165.99
<i>For Work In Restricted Working Space, Add</i>	124.48	
<i>For Owner Furnished Material, Deduct</i>	-3,509.66	
22 11 19 00-0250 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	4,249.94	184.14
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-3,789.59	
22 11 19 00-0251 Reduced Pressure Zone Backflow Preventer Assemblies <small>(22 11 19 00-0162)</small>		
22 11 19 00-0252 Threaded Reduced Pressure Zone Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0253 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0254 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	422.86	32.67
<i>For Work In Restricted Working Space, Add</i>	24.51	
<i>For Owner Furnished Material, Deduct</i>	-341.17	
22 11 19 00-0255 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	447.87	36.05
<i>For Work In Restricted Working Space, Add</i>	27.04	
<i>For Owner Furnished Material, Deduct</i>	-357.73	
22 11 19 00-0256 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	518.13	37.74
<i>For Work In Restricted Working Space, Add</i>	28.31	
<i>For Owner Furnished Material, Deduct</i>	-423.77	
22 11 19 00-0257 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	698.18	53.52
<i>For Work In Restricted Working Space, Add</i>	40.14	
<i>For Owner Furnished Material, Deduct</i>	-564.38	
22 11 19 00-0258 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	829.90	65.35
<i>For Work In Restricted Working Space, Add</i>	49.01	
<i>For Owner Furnished Material, Deduct</i>	-666.52	
22 11 19 00-0259 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,235.71	76.06
<i>For Work In Restricted Working Space, Add</i>	57.04	
<i>For Owner Furnished Material, Deduct</i>	-1,045.57	
22 11 19 00-0260 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,311.65	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-1,094.75	
22 11 19 00-0261 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,580.77	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-1,299.09	
22 11 19 00-0262 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0263 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	464.16	32.67
<i>For Work In Restricted Working Space, Add</i>	24.51	
<i>For Owner Furnished Material, Deduct</i>	-382.47	
22 11 19 00-0264 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)	491.40	36.05
<i>For Work In Restricted Working Space, Add</i>	27.04	
<i>For Owner Furnished Material, Deduct</i>	-401.26	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0265	EA			1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	577.78	53.52
				<i>For Work In Restricted Working Space, Add</i>	28.31	
				<i>For Owner Furnished Material, Deduct</i>	-483.42	
22 11 19 00-0266	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	791.93	53.52
				<i>For Work In Restricted Working Space, Add</i>	40.14	
				<i>For Owner Furnished Material, Deduct</i>	-658.13	
22 11 19 00-0267	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	947.11	65.35
				<i>For Work In Restricted Working Space, Add</i>	49.01	
				<i>For Owner Furnished Material, Deduct</i>	-783.73	
22 11 19 00-0268	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,395.56	76.06
				<i>For Work In Restricted Working Space, Add</i>	57.04	
				<i>For Owner Furnished Material, Deduct</i>	-1,205.42	
22 11 19 00-0269	EA			1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,537.24	87.32
				<i>For Work In Restricted Working Space, Add</i>	65.07	
				<i>For Owner Furnished Material, Deduct</i>	-1,320.34	
22 11 19 00-0270	EA			2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,857.54	112.67
				<i>For Work In Restricted Working Space, Add</i>	84.50	
				<i>For Owner Furnished Material, Deduct</i>	-1,575.86	
22 11 19 00-0271				Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0272	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	698.18	53.52
				<i>For Work In Restricted Working Space, Add</i>	40.14	
				<i>For Owner Furnished Material, Deduct</i>	-564.38	
22 11 19 00-0273	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	829.90	65.35
				<i>For Work In Restricted Working Space, Add</i>	49.01	
				<i>For Owner Furnished Material, Deduct</i>	-666.52	
22 11 19 00-0274	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,235.71	76.06
				<i>For Work In Restricted Working Space, Add</i>	57.04	
				<i>For Owner Furnished Material, Deduct</i>	-1,045.57	
22 11 19 00-0275	EA			1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,311.65	87.32
				<i>For Work In Restricted Working Space, Add</i>	65.07	
				<i>For Owner Furnished Material, Deduct</i>	-1,094.75	
22 11 19 00-0276	EA			2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,580.77	112.67
				<i>For Work In Restricted Working Space, Add</i>	84.50	
				<i>For Owner Furnished Material, Deduct</i>	-1,299.09	
22 11 19 00-0277				Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0278	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	791.93	53.52
				<i>For Work In Restricted Working Space, Add</i>	40.14	
				<i>For Owner Furnished Material, Deduct</i>	-658.13	
22 11 19 00-0279	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	947.11	65.35
				<i>For Work In Restricted Working Space, Add</i>	49.01	
				<i>For Owner Furnished Material, Deduct</i>	-783.73	
22 11 19 00-0280	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,395.56	76.06
				<i>For Work In Restricted Working Space, Add</i>	57.04	
				<i>For Owner Furnished Material, Deduct</i>	-1,205.42	
22 11 19 00-0281	EA			1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,537.24	87.32
				<i>For Work In Restricted Working Space, Add</i>	65.07	
				<i>For Owner Furnished Material, Deduct</i>	-1,320.34	
22 11 19 00-0282	EA			2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,857.54	112.67
				<i>For Work In Restricted Working Space, Add</i>	84.50	
				<i>For Owner Furnished Material, Deduct</i>	-1,575.86	
22 11 19 00-0283				Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0284	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,394.45	53.52
				<i>For Work In Restricted Working Space, Add</i>	40.14	
				<i>For Owner Furnished Material, Deduct</i>	-1,260.65	
22 11 19 00-0285	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,652.17	65.35
				<i>For Work In Restricted Working Space, Add</i>	49.01	
				<i>For Owner Furnished Material, Deduct</i>	-1,488.79	
22 11 19 00-0286	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	2,522.55	76.06
				<i>For Work In Restricted Working Space, Add</i>	57.04	
				<i>For Owner Furnished Material, Deduct</i>	-2,332.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0287 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	2,730.76	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-2,513.86	
22 11 19 00-0288 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	3,177.56	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-2,895.88	
22 11 19 00-0289 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0290 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	1,863.05	53.52
<i>For Work In Restricted Working Space, Add</i>	40.14	
<i>For Owner Furnished Material, Deduct</i>	-1,729.25	
22 11 19 00-0291 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	2,216.07	65.35
<i>For Work In Restricted Working Space, Add</i>	49.01	
<i>For Owner Furnished Material, Deduct</i>	-2,052.69	
22 11 19 00-0292 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	3,359.58	76.06
<i>For Work In Restricted Working Space, Add</i>	57.04	
<i>For Owner Furnished Material, Deduct</i>	-3,169.44	
22 11 19 00-0293 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	3,672.85	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-3,455.95	
22 11 19 00-0294 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	4,370.50	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-4,088.82	
22 11 19 00-0295 Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0296 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0297 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	4,580.20	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-4,165.24	
22 11 19 00-0298 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	5,158.62	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-4,698.27	
22 11 19 00-0299 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0300 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	5,434.43	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-5,019.47	
22 11 19 00-0301 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	6,151.00	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,690.65	
22 11 19 00-0302 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0303 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	4,907.16	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-4,492.20	
22 11 19 00-0304 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	5,702.01	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,241.66	
22 11 19 00-0305 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0306 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	5,434.43	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-5,019.47	
22 11 19 00-0307 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	6,151.00	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,690.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0308			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 00-0295)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0309	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	6,018.12	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-5,603.16	
22 11 19 00-0310	EA		3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	6,958.03	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-6,497.68	
22 11 19 00-0311			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0312	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	7,770.31	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,355.37	
22 11 19 00-0313	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	8,824.23	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,363.87	
22 11 19 00-0314	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,146.93	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-10,455.70	
22 11 19 00-0315	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	16,999.48	714.73
			<i>For Work In Restricted Working Space, Add</i>	542.31	
			<i>For Owner Furnished Material, Deduct</i>	-15,191.79	
22 11 19 00-0316	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	28,117.72	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	813.46	
			<i>For Owner Furnished Material, Deduct</i>	-25,406.18	
22 11 19 00-0317	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	35,955.51	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-33,649.92	
22 11 19 00-0318			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0319	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	8,363.20	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,948.26	
22 11 19 00-0320	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	9,448.20	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,987.85	
22 11 19 00-0321	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	12,103.56	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-11,412.39	
22 11 19 00-0322	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	18,283.64	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-16,992.52	
22 11 19 00-0323	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	29,566.06	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-27,629.37	
22 11 19 00-0324	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	40,037.26	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-37,731.67	
22 11 19 00-0325			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0326	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	8,258.44	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,843.50	
22 11 19 00-0327	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	9,383.74	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,923.38	
22 11 19 00-0328	EA		4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	11,842.29	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-11,151.06	
22 11 19 00-0329	EA		6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	17,496.57	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-16,205.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0330 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	29,037.41	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-27,100.72	
22 11 19 00-0331 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	38,197.58	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-35,891.99	
22 11 19 00-0332 Double Check Detector Assemblies (22 11 19 00-0162)		
22 11 19 00-0333 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0332)		
22 11 19 00-0334 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0335 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,243.16	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-5,782.81	
22 11 19 00-0336 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,608.16	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,916.99	
22 11 19 00-0337 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,974.54	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-7,683.42	
22 11 19 00-0338 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	15,824.91	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-13,888.22	
22 11 19 00-0339 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	21,286.10	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-18,980.51	
22 11 19 00-0340 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0341 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,699.07	311.22
For Work In Restricted Working Space, Add	124.49	
For Owner Furnished Material, Deduct	-4,284.11	
22 11 19 00-0342 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,024.10	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,563.75	
22 11 19 00-0343 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,541.46	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-4,850.29	
22 11 19 00-0344 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	7,589.18	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-6,298.06	
22 11 19 00-0345 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	13,320.99	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-11,384.30	
22 11 19 00-0346 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	15,714.77	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-13,409.18	
22 11 19 00-0347 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0348 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,968.63	311.22
For Work In Restricted Working Space, Add	124.49	
For Owner Furnished Material, Deduct	-4,553.67	
22 11 19 00-0349 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,293.66	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,833.31	
22 11 19 00-0350 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,810.97	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,119.80	
22 11 19 00-0351 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,865.48	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-6,574.36	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0352	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,989.49 581.01 -11,052.80	1,072.10
22 11 19 00-0353			Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0332)</small>		
22 11 19 00-0354			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0353)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0355	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,613.96 124.49	311.22
22 11 19 00-0356	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,939.02 138.11	350.13
22 11 19 00-0357	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	5,456.39 207.35	518.70
22 11 19 00-0358	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	7,504.10 387.34	714.73
22 11 19 00-0359	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	13,235.97 581.01	1,072.10
22 11 19 00-0360	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	15,629.64 691.68	1,268.07
22 11 19 00-0361			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0353)</small> Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0362	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	4,883.50 124.49	311.22
22 11 19 00-0363	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	5,208.53 138.11	350.13
22 11 19 00-0364	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	5,725.90 207.35	518.70
22 11 19 00-0365	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	7,780.34 387.34	714.73
22 11 19 00-0366	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	13,512.27 581.01	1,072.10
22 11 19 00-0367			Flanged Double Check Detector Assemblies <small>(22 11 19 00-0332)</small>		
22 11 19 00-0368			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0367)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		
22 11 19 00-0369	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,459.95 124.49 -4,044.99	311.22
22 11 19 00-0370	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,384.44 138.11 -4,924.09	350.13
22 11 19 00-0371	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,033.34 207.35 -5,342.17	518.70
22 11 19 00-0372	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,684.96 387.34 -6,393.84	714.73
22 11 19 00-0373	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,494.20 581.01 -11,557.51	1,072.10
22 11 19 00-0374	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	18,100.69 691.68 -15,795.10	1,268.07
22 11 19 00-0375	EA		12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	24,065.32 830.01 -21,298.62	1,521.68
22 11 19 00-0376			Backflow Preventer Accessories <small>(22 11 19 00-0162)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0377 Air Gap <small>(22 11 19 00-0376)</small>		
22 11 19 00-0378 EA Up To 1" Diameter Air Gap For Backflow Preventer	113.27	17.61
22 11 19 00-0379 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	139.04	21.13
22 11 19 00-0380 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	253.33	28.17
22 11 19 00-0381 EA 4" To 6" Diameter Air Gap For Backflow Preventer	496.78	49.30
22 11 19 00-0382 EA 8" To 10" Diameter Air Gap For Backflow Preventer	539.03	70.43
22 11 19 00-0383 Brass Test Cocks <small>(22 11 19 00-0376)</small>		
22 11 19 00-0384 EA 1/8" Or 1/4" Brass Test Cock.....	46.03	7.04
22 11 19 00-0385 Backflow Valve Enclosures <small>(22 11 19 00-0162)</small>		
22 11 19 00-0386 Flip-Top, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0387 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	863.06	126.76
For Heated Enclosure, Add	97.77	
22 11 19 00-0388 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,045.44	126.76
For Heated Enclosure, Add	125.13	
22 11 19 00-0389 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,301.45	116.71
For Heated Enclosure, Add	166.04	
22 11 19 00-0390 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,371.04	155.61
For Heated Enclosure, Add	166.75	
22 11 19 00-0391 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,432.89	155.61
For Heated Enclosure, Add	176.03	
22 11 19 00-0392 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,673.95	155.61
For Heated Enclosure, Add	212.19	
22 11 19 00-0393 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,680.29	155.61
For Heated Enclosure, Add	213.14	
22 11 19 00-0394 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,091.03	155.61
For Heated Enclosure, Add	274.75	
22 11 19 00-0395 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,748.58	233.41
For Heated Enclosure, Add	653.93	
22 11 19 00-0396 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,821.31	233.41
For Heated Enclosure, Add	964.84	
22 11 19 00-0397 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,488.28	233.41
For Heated Enclosure, Add	914.89	
22 11 19 00-0398 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,807.54	272.32
For Heated Enclosure, Add	1,103.05	
22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0400 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	452.81	33.80
For Heated Enclosure, Add	79.29	
22 11 19 00-0401 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	620.91	33.80
For Heated Enclosure, Add	112.91	
22 11 19 00-0402 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	771.85	31.12
For Heated Enclosure, Add	144.00	
22 11 19 00-0403 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,155.64	31.12
For Heated Enclosure, Add	220.75	
22 11 19 00-0404 EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,977.20	58.35
For Heated Enclosure, Add	575.99	
22 11 19 00-0405 EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,050.83	58.35
For Heated Enclosure, Add	790.71	
22 11 19 00-0406 EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,710.77	58.35
For Heated Enclosure, Add	522.70	
22 11 19 00-0407 EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,062.84	58.35
For Heated Enclosure, Add	593.12	
22 11 19 00-0408 EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,770.82	58.35
For Heated Enclosure, Add	934.71	
22 11 19 00-0409 Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0410 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,150.69	253.52
For Heated Enclosure, Add	859.22	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0411 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,764.42	253.52
For Heated Enclosure, Add	951.28	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0412 EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,823.11	233.41
For Heated Enclosure, Add	665.11	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0413 EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	5,276.67	233.41
For Heated Enclosure, Add	733.15	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0414	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,162.81 846.62 663.22 1,186.81	311.22
22 11 19 00-0415	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,889.14 955.57 663.22 1,186.81	311.22
22 11 19 00-0416	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,889.14 955.57 663.22 1,186.81	311.22
22 11 19 00-0417	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,593.27 1,061.19 663.22 1,186.81	311.22
22 11 19 00-0418	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,723.71 790.48 663.22 1,186.81	272.32
22 11 19 00-0419	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,697.25 926.78 663.22 1,186.81	311.22
22 11 19 00-0420	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,796.26 1,091.63 663.22 1,186.81	311.22
22 11 19 00-0421	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,551.83 1,200.11 663.22 1,186.81	330.67
22 11 19 00-0422	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,781.68 1,227.46 663.22 1,186.81	359.15
22 11 19 00-0423	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,724.00 1,363.53 663.22 1,186.81	380.28
22 11 19 00-0424	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,036.91 1,418.01 663.22 1,186.81	350.13
22 11 19 00-0425	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,320.50 1,020.27 663.22 1,186.81	311.22
22 11 19 00-0426	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,791.50 1,090.92 663.22 1,186.81	311.22
22 11 19 00-0427	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,803.99 1,237.93 663.22 1,186.81	330.67
22 11 19 00-0428	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,641.13 1,508.64 663.22 1,186.81	350.13
22 11 19 00-0429	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,310.58 1,309.06 663.22 1,186.81	155.61
22 11 19 00-0430	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,158.82 1,581.43 663.22 1,186.81	155.61
22 11 19 00-0431	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,795.66 1,526.96 663.22 1,186.81	233.41
22 11 19 00-0432	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,514.56 1,775.06 663.22 1,186.81	233.41
22 11 19 00-0433	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,554.40 1,635.90 663.22 1,186.81	233.41
22 11 19 00-0434	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,488.98 1,916.37 663.22 1,186.81	272.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0435 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,553.82 1,916.37 663.22 1,186.81	233.41
22 11 19 00-0436 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	16,052.97 2,281.51 663.22 1,186.81	233.41
22 11 19 00-0437 Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0438 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0437)		
22 11 19 00-0439 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	70.87	14.09
22 11 19 00-0440 EA 3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	82.69	15.50
22 11 19 00-0441 EA 3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	26.42	10.56
22 11 19 00-0442 Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0437)		
22 11 19 00-0443 EA 3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	224.24	43.10
22 11 19 00-0444 Antisiphon Freezeless Wall Faucet (22 11 19 00-0437)		
22 11 19 00-0445 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet	181.48	35.21
22 11 19 00-0446 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet	196.16	39.01
22 11 19 00-0447 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet	207.31	41.26
22 11 19 00-0448 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet	218.45	44.23
22 11 19 00-0449 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet	229.73	46.90
22 11 19 00-0450 Escutcheons (22 11 19)		
22 11 19 00-0451 Brass Escutcheons (22 11 19 00-0450)		
22 11 19 00-0452 Shallow Brass Escutcheons (22 11 19 00-0451)		
22 11 19 00-0453 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	13.61	3.52
22 11 19 00-0454 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	14.48	3.52
22 11 19 00-0455 Deep Bell Brass Escutcheons (22 11 19 00-0451)		
22 11 19 00-0456 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	15.62	3.94
22 11 19 00-0457 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	15.65	3.94
22 11 19 00-0458 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0451)		
22 11 19 00-0459 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.68	3.52
22 11 19 00-0460 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.93	3.52
22 11 19 00-0461 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.30	3.52
22 11 19 00-0462 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.65	3.52
22 11 19 00-0463 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.10	4.22
22 11 19 00-0464 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.41	4.22
22 11 19 00-0465 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	29.48	4.65
22 11 19 00-0466 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.86	4.93
22 11 19 00-0467 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	43.98	5.63
22 11 19 00-0468 Plastic Escutcheons (22 11 19 00-0450)		
22 11 19 00-0469 Split-Ring White Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0470 EA 3/8" IPS, Split-Ring White Plastic Escutcheon	8.03	3.50
22 11 19 00-0471 EA 1/2" IPS, Split-Ring White Plastic Escutcheon	8.03	3.50
22 11 19 00-0472 EA 3/4" IPS, Split-Ring White Plastic Escutcheon	9.20	3.92
22 11 19 00-0473 EA 1" IPS, Split-Ring White Plastic Escutcheon	9.99	4.21
22 11 19 00-0474 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	10.78	4.63
22 11 19 00-0475 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.55	4.91
22 11 19 00-0476 EA 2" IPS, Split-Ring White Plastic Escutcheon	13.07	5.61
22 11 19 00-0477 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	15.90	6.03
22 11 19 00-0478 EA 3" IPS, Split-Ring White Plastic Escutcheon	18.74	6.31
22 11 19 00-0479 EA 4" IPS, Split-Ring White Plastic Escutcheon	22.25	7.02
22 11 19 00-0480 Chrome Plate Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0481 EA 1/2" IPS, Chrome Plate Plastic Escutcheon	9.78	3.50
22 11 19 00-0482 EA 3/4" IPS, Chrome Plate Plastic Escutcheon	10.69	3.92
22 11 19 00-0483 EA 1" IPS, Chrome Plate Plastic Escutcheon	11.92	4.21
22 11 19 00-0484 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	13.14	4.63
22 11 19 00-0485 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	13.92	4.91
22 11 19 00-0486 EA 2" IPS, Chrome Plate Plastic Escutcheon	17.11	5.61
22 11 19 00-0487 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	23.18	6.03
22 11 19 00-0488 EA 3" IPS, Chrome Plate Plastic Escutcheon	24.12	6.31
22 11 19 00-0489 EA 4" IPS, Chrome Plate Plastic Escutcheon	25.95	7.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST				
22 11 19 00-0490			Stainless Steel Escutcheons (22 11 19 00-0490)						
22 11 19 00-0491			Shallow Stainless Steel Escutcheons (22 11 19 00-0490)						
		EA	3/8" IPS, Shallow Stainless Steel Escutcheon.....	17.58	3.52				
		EA	1/2" IPS, Shallow Stainless Steel Escutcheon.....	17.58	3.52				
		EA	3/4" IPS, Shallow Stainless Steel Escutcheon.....	23.98	3.94				
22 11 19 00-0495			Chrome Plated Steel Escutcheons (22 11 19 00-0490)						
22 11 19 00-0496			Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.79	3.50				
		EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.48	3.92				
		EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.32	4.21				
		EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.02	4.63				
		EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.73	4.91				
		EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.36	5.61				
		EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	18.20	6.03				
		EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.33	6.31				
		EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	23.60	6.73				
		EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	21.09	7.02				
		EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	26.97	7.71				
		EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	31.36	8.41				
22 11 19 00-0509			Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.09	3.50				
		EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.09	3.50				
		EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.94	3.92				
		EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.68	4.21				
		EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	15.46	4.63				
		EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.39	4.91				
		EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	19.39	5.61				
		EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	22.22	6.03				
		EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	26.99	6.31				
		EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	32.96	6.73				
		EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	33.50	7.02				
		EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	54.66	7.71				
		EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	57.13	8.41				
22 11 19 00-0523			Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.47	3.94				
		EA	1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.34	3.94				
		EA	3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.08	3.94				
		EA	1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.05	4.22				
		EA	1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.91	4.65				
		EA	1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	11.99	4.93				
22 11 19 00-0530			Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.58	3.52				
		EA	1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.58	3.52				
		EA	3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.70	3.52				
		EA	1" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.30	4.22				
		EA	1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.06	4.65				
		EA	1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	11.13	4.93				
		EA	2" IPS, Shallow Chrome Plated Steel Escutcheon.....	12.62	5.63				
22 11 19 00-0538			Keyed, Recessed Valve Boxes (22 11 19)						
		EA	8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	241.55	42.07				
		EA	8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	264.04	42.07				
		EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	297.77	42.07				
		EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	303.33	56.09				
		EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	337.07	56.09				
		EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	347.19	56.09				
		EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	277.53	42.07				
		EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	327.01	42.07				
		EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	370.87	42.07				
		EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	366.31	56.09				
		EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	410.16	56.09				
		EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	427.03	56.09				
22 11 23			Domestic Water Pumps (22 11)						
22 11 23 13			Domestic Water Packaged Booster Pumps (22 11 23)						
			Note: Includes motor starter and controls.						



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0001	Simplex Domestic Water Packaged Booster Pumps And Tank ^(22 11 23 13)	
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,035.58	414.96
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,544.84	557.61
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,130.41	700.24
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,677.82	842.89
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank	14,064.77	985.53
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	15,642.54	1,128.18
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank	16,762.36	1,270.82
22 11 23 13-0009	Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)	
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	30,031.82	1,678.34
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	36,035.38	1,783.25
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	42,063.27	1,888.15
22 11 23 13-0013	Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)	
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	39,288.61	1,783.25
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	48,725.71	1,888.15
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	60,419.91	2,097.94
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	76,343.80	2,307.73
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	92,267.67	2,517.52
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	107,432.03	2,832.21
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	122,596.40	3,146.91
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	137,760.75	3,461.59
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	153,187.36	3,881.18
22 11 23 13-0023	Variable Speed Duplex Domestic Water Pressure Booster Skid ^(22 11 23 13)	
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0024 EA 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1)	34,730.92	1,746.31
22 11 23 13-0025 EA 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2)	36,289.72	1,746.31
22 11 23 13-0026 EA 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3)	38,517.04	1,746.31
22 11 23 13-0027 EA 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4)	41,727.72	1,746.31
22 11 23 13-0028 EA 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5)	39,471.98	1,855.46
22 11 23 13-0029 EA 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6)	42,274.76	1,855.46
22 11 23 13-0030 EA 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7)	46,081.20	1,855.46
22 11 23 13-0031 EA 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8)	49,175.08	1,855.46
22 11 23 13-0032 EA 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9)	43,104.45	1,964.60
22 11 23 13-0033 EA 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10)	45,871.68	1,964.60
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11)	52,059.46	1,964.60
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12)	62,444.64	1,964.60
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13)	45,482.41	1,964.60
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14)	51,126.89	1,964.60
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15)	63,551.54	1,964.60
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16)	63,192.73	1,964.60
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17)	75,305.00	2,182.89
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18)	52,033.13	2,182.89
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19)	63,347.49	2,182.89
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20)	62,990.37	2,182.89
22 11 23 13-0044 EA 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21)	75,860.14	2,182.89
22 11 23 13-0045 EA 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22)	91,602.08	2,182.89
22 11 23 13-0046 EA 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1)	43,721.48	1,746.31



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 23 13-0047

Variable Speed Triplex Domestic Water Pressure Booster Skid (22 11 23 13)

Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.

22 11 23 13-0048	EA	60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	43,721.48	1,746.31
22 11 23 13-0049	EA	120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	48,829.45	1,746.31
22 11 23 13-0050	EA	60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	53,236.72	1,746.31
22 11 23 13-0051	EA	180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	49,102.31	1,855.46
22 11 23 13-0052	EA	180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	53,479.11	1,855.46
22 11 23 13-0053	EA	240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	50,124.58	1,855.46
22 11 23 13-0054	EA	240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	53,887.00	1,855.46
22 11 23 13-0055	EA	240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	59,060.98	1,855.46
22 11 23 13-0056	EA	240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	63,349.77	1,855.46
22 11 23 13-0057	EA	300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	50,644.53	1,964.60
22 11 23 13-0058	EA	300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	54,406.96	1,964.60
22 11 23 13-0059	EA	300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	59,579.24	1,964.60
22 11 23 13-0060	EA	300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	63,868.03	1,964.60
22 11 23 13-0061	EA	360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	54,875.78	1,964.60
22 11 23 13-0062	EA	360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	58,489.27	1,964.60
22 11 23 13-0063	EA	360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	67,417.21	1,964.60
22 11 23 13-0064	EA	360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	81,986.25	1,964.60
22 11 23 13-0065	EA	480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	56,159.44	2,182.89
22 11 23 13-0066	EA	480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	59,774.62	2,182.89
22 11 23 13-0067	EA	480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	68,702.56	2,182.89
22 11 23 13-0068	EA	480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	83,269.91	2,182.89
22 11 23 13-0069	EA	540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	59,189.02	2,182.89
22 11 23 13-0070	EA	540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	67,302.86	2,182.89
22 11 23 13-0071	EA	540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	84,928.56	2,182.89
22 11 23 13-0072	EA	540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	86,636.29	2,182.89
22 11 23 13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27).....	107,096.92	2,182.89
22 11 23 13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28).....	67,143.55	2,619.47
22 11 23 13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29).....	80,516.00	2,619.47
22 11 23 13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30).....	85,586.73	2,619.47
22 11 23 13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31).....	102,980.55	2,619.47
22 11 23 13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32).....	127,320.39	2,619.47

22 11 23 23

Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001

Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B).....	1,145.29	233.41
22 11 23 23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	1,173.69	233.41
22 11 23 23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....	1,226.36	237.95
22 11 23 23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	1,346.80	247.68
22 11 23 23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	2,353.74	256.87
22 11 23 23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	2,505.27	256.87
22 11 23 23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	3,711.79	282.82
22 11 23 23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....	3,875.72	310.71
22 11 23 23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	4,681.31	341.85
22 11 23 23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	4,793.27	376.23
22 11 23 23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,242.49	413.20

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	7,468.56	454.72
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	8,588.41	476.77
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)					
Note: ODP motor.					
22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,189.76	233.41
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	1,939.61	233.41
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,948.98	237.95
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,983.05	243.14
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,992.11	247.68
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,031.08	256.87
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	2,472.71	282.82
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	3,183.03	341.85
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S)	3,358.51	376.23
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	3,911.64	413.20
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,246.31	454.72
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,116.43	476.77
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,514.09	500.77
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,931.49	550.46
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,516.57	583.80
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,218.47	648.66
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,746.21	778.53
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	11,129.70	908.52
22 12 Facility Potable-Water Storage Tanks (22 10)					
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)					
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)					
22 12 19 00-0002	EA		5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	35,844.69	8,902.97
22 12 19 00-0003	EA		10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	40,439.47	8,902.97
22 12 19 00-0004	EA		20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	72,405.00	13,739.18
22 12 19 00-0005	EA		35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	93,472.03	17,805.94
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)					
22 12 19 00-0007	EA		5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	42,651.76	8,902.97
22 12 19 00-0008	EA		10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	58,648.39	8,902.97
22 12 19 00-0009	EA		20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	87,553.88	13,739.18
22 12 19 00-0010	EA		35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	125,388.94	17,805.94
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)					
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)					
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)					
22 12 23 13-0002	EA		80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A)	2,428.80	518.70
22 12 23 13-0003	EA		119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,012.47	648.37
22 12 23 13-0004	EA		140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A)	5,264.59	713.21
22 12 23 13-0005	EA		200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A)	5,815.53	778.05
22 12 23 13-0006	EA		250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A)	11,122.53	842.89
22 12 23 13-0007	EA		350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A)	9,694.83	907.72
22 12 23 13-0008	EA		400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A)	16,284.12	972.56
22 12 23 13-0009	EA		500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A)	15,092.64	1,037.40
22 12 23 13-0010	EA		750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A)	16,380.77	1,102.24
22 12 23 13-0011	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A)	19,428.11	1,167.07
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)					
22 12 23 13-0013	EA		80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,124.21	518.70
22 12 23 13-0014	EA		120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,870.36	648.37
22 12 23 13-0015	EA		140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	4,780.17	713.21
22 12 23 13-0016	EA		200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	5,845.51	778.05
22 12 23 13-0017	EA		200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	5,036.18	778.05
22 12 23 13-0018	EA		250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	7,568.41	842.89
22 12 23 13-0019	EA		325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	8,188.31	907.72
22 12 23 13-0020	EA		350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	7,820.64	907.72
22 12 23 13-0021	EA		350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	7,184.64	907.72
22 12 23 13-0022	EA		400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	9,666.10	972.56
22 12 23 13-0023	EA		500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	10,475.12	1,037.40
22 12 23 13-0024	EA		750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A)	12,099.12	1,102.24



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 12 23 13-0025	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	22,151.40	1,167.07
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22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)

22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)

Note: Excludes excavation and backfill.

22 12 23 26-0002	EA		100 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	713.02 782.41	291.77
22 12 23 26-0003	EA		150 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	834.71 782.41	340.40
22 12 23 26-0004	EA		200 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	984.82 879.05	389.02
22 12 23 26-0005	EA		300 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Saddle Assembly, Add</i>	1,186.09 1,256.13	437.65
22 12 23 26-0006	EA		335 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Two Tie Down Bands, Add</i>	1,408.19 459.69	486.29
22 12 23 26-0007	EA		535 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Two Tie Down Bands, Add</i>	1,743.93 486.22	596.09
22 12 23 26-0008	EA		1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Three Tie Down Bands, Add</i>	2,553.38 814.59	695.44
22 12 23 26-0009	EA		1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Three Tie Down Bands, Add</i>	3,627.24 820.27	794.79
22 12 23 26-0010	EA		1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	4,500.60 1,108.86	894.14
22 12 23 26-0011	EA		2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	5,257.33 1,495.41	993.48
22 12 23 26-0012	EA		2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	7,425.90 1,919.86	1,092.84
22 12 23 26-0013	EA		3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	8,581.60 2,063.87	1,192.19
22 12 23 26-0014	EA		4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Four Tie Down Bands, Add</i>	12,293.10 2,313.99	1,589.59
22 12 23 26-0015	EA		5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank <i>For Five Tie Down Bands, Add</i>	15,775.68 3,584.11	1,589.59

22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)

22 12 23 26-0017	EA		100 Gallon Vertical Non-Pressurized Polyethylene Tank	804.80	389.02
22 12 23 26-0018	EA		160 Gallon Vertical Non-Pressurized Polyethylene Tank	949.02	413.34
22 12 23 26-0019	EA		210 Gallon Vertical Non-Pressurized Polyethylene Tank	1,036.39	437.65
22 12 23 26-0020	EA		300 Gallon Vertical Non-Pressurized Polyethylene Tank	1,239.55	486.29
22 12 23 26-0021	EA		405 Gallon Vertical Non-Pressurized Polyethylene Tank	1,424.18	583.54
22 12 23 26-0022	EA		500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,678.91	680.80
22 12 23 26-0023	EA		800 Gallon Vertical Non-Pressurized Polyethylene Tank	2,204.20	794.79
22 12 23 26-0024	EA		1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,844.31	993.48
22 12 23 26-0025	EA		2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,783.82	1,192.19
22 12 23 26-0026	EA		3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	4,901.44	1,390.89
22 12 23 26-0027	EA		4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	7,085.85	1,589.59
22 12 23 26-0028	EA		5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	9,493.87	1,788.28
22 12 23 26-0029	EA		6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	10,751.71	1,986.98
22 12 23 26-0030	EA		7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	11,846.59	2,185.68
22 12 23 26-0031	EA		8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	13,612.25	2,384.37
22 12 23 26-0032	EA		9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	15,345.69	2,583.07
22 12 23 26-0033	EA		10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	18,879.26	2,781.77
22 12 23 26-0034	EA		12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	22,668.28	3,179.17

22 13 Facility Sanitary Sewerage (22 10)

22 13 13 Facility Sanitary Sewers (22 13)

22 13 13 00-0001 Fixture Rough-In (22 13 13)

Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.

22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0003	EA		Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,150.05	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.					
22 13 13 00-0004	EA		Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,480.74	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.					
22 13 13 00-0005	EA		Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,054.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0006 EA Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	674.84	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0007 EA Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	794.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0008 EA Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,024.49	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0009 EA Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,081.09	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0010 EA Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	654.93	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0011 EA Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,054.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0012 EA Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,091.51	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0013 EA Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,026.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0014 EA Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,150.05	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0015 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,797.66	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0016 EA Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,113.55	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0017 Double Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small>		
Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0018 EA Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,479.27	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0019 EA Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,984.68	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,278.90	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	797.52	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,086.90	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,148.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	757.68	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,291.85	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,144.96	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,112.58	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,479.27	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.		
22 13 13 00-0029 Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small>		
Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0030 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	739.03	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	992.34	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	640.09	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.		
22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	399.41	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	543.48	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	574.30	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	411.26	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet	645.28	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	572.47	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	556.90	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 13 00-0040	EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	729.93	
	22 13 13 00-0041	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small> Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
	22 13 13 00-0042	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	626.75	
	22 13 13 00-0043	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	627.97	
	22 13 13 00-0044	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	606.35	
	22 13 13 00-0045	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	353.79	
	22 13 13 00-0046	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	413.58	
	22 13 13 00-0047	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	578.46	
	22 13 13 00-0048	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	573.29	
	22 13 13 00-0049	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	353.88	
	22 13 13 00-0050	EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	606.35	
	22 13 13 00-0051	EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	652.88	
	22 13 13 00-0052	EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	596.02	
	22 13 13 00-0053	EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	626.60	
	22 13 13 00-0054	EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	961.48	
	22 13 13 00-0055	EA Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	601.65	
	22 13 13 00-0056	Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 00-0001)</small> Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
	22 13 13 00-0057	EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	739.42	
	22 13 13 00-0058	EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	816.72	
	22 13 13 00-0059	EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	645.16	
	22 13 13 00-0060	EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	379.83	
	22 13 13 00-0061	EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	582.98	
	22 13 13 00-0062	EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	604.81	
	22 13 13 00-0063	EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	375.69	
	22 13 13 00-0064	EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	656.69	
	22 13 13 00-0065	EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	664.23	
	22 13 13 00-0066	EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	635.29	
	22 13 13 00-0067	EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	739.42	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0068			Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069	EA		Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....369.18 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	369.18	
22 13 13 00-0070	EA		Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....407.73 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	407.73	
22 13 13 00-0071	EA		Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....322.96 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	322.96	
22 13 13 00-0072	EA		Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....189.98 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	189.98	
22 13 13 00-0073	EA		Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....291.46 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	291.46	
22 13 13 00-0074	EA		Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....302.09 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	302.09	
22 13 13 00-0075	EA		Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....187.83 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	187.83	
22 13 13 00-0076	EA		Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....328.23 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	328.23	
22 13 13 00-0077	EA		Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....332.16 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	332.16	
22 13 13 00-0078	EA		Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....318.21 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	318.21	
22 13 13 00-0079	EA		Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....360.58 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	360.58	
22 13 16			Sanitary Waste and Vent Piping <small>(22 13)</small>		
22 13 16 00-0001			Cast Iron Soil Pipe Assemblies <small>(22 13 16)</small>		
22 13 16 00-0002			Underground Bell And Spigot Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003	LF		2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....37.76 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	37.76	8.17
			<i>For Work In Restricted Working Space, Add</i> .....5.99	5.99	
22 13 16 00-0004	LF		3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....53.72 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	53.72	12.31
			<i>For Work In Restricted Working Space, Add</i> .....8.13	8.13	
22 13 16 00-0005	LF		4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....69.65 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	69.65	15.69
			<i>For Work In Restricted Working Space, Add</i> .....10.46	10.46	
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....78.59 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	78.59	17.98
			<i>For Work In Restricted Working Space, Add</i> .....10.12	10.12	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....92.09 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	92.09	19.59
			<i>For Work In Restricted Working Space, Add</i> .....11.24	11.24	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....145.97 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	145.97	28.15
			<i>For Work In Restricted Working Space, Add</i> .....15.94	15.94	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....212.42 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	212.42	28.15
			<i>For Work In Restricted Working Space, Add</i> .....18.05	18.05	
22 13 16 00-0010			Aboveground No Hub Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....34.40 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	34.40	7.78
			<i>For Work In Restricted Working Space, Add</i> .....6.83	6.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	36.53 7.34	8.30
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	46.44 9.00	12.06
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	55.53 10.77	15.69
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	69.47 11.97	17.64
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	78.32 13.04	19.25
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	122.08 18.17	27.92
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	169.44 21.12	31.72
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.59 5.98 0.62 3.71	8.17
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.92 8.57 0.93 5.56	12.31
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.11 11.14 1.18 7.07	15.69
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.34 15.72 1.35 8.07	17.98
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.94 19.15 1.47 8.80	19.59
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.15 29.79 2.11 12.67	28.15
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.59 49.59 2.38 14.26	31.72
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.87 72.04 3.17 19.01	42.29
22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	326.70 105.28 3.80 22.81	50.72
22 13 16 00-0030			Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031			Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.04 22.49 2.79 16.73	37.21
22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	200.49 45.64 3.50 21.03	46.81

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep.....	267.09	62.24
For Extra Heavy Fittings, Add	60.83	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep.....	406.67	76.08
For Extra Heavy Fittings, Add	102.42	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep.....	801.16	99.07
For Extra Heavy Fittings, Add	228.43	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep.....	1,094.37	121.88
For Extra Heavy Fittings, Add	319.06	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep.....	1,676.34	170.11
For Extra Heavy Fittings, Add	497.45	
For Above Ground Cast Iron Pipe Installation, Add	12.75	
For Work In Restricted Working Space, Add	76.52	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep.....	3,104.02	236.87
For Extra Heavy Fittings, Add	962.11	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.54	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep.....	103.07	37.21
For Extra Heavy Fittings, Add	16.56	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep.....	172.01	46.81
For Extra Heavy Fittings, Add	35.67	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep.....	235.07	62.24
For Extra Heavy Fittings, Add	49.62	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep.....	342.08	64.67
For Extra Heavy Fittings, Add	85.81	
For Above Ground Cast Iron Pipe Installation, Add	4.85	
For Work In Restricted Working Space, Add	29.08	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep.....	412.78	76.08
For Extra Heavy Fittings, Add	104.56	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep.....	678.44	99.07
For Extra Heavy Fittings, Add	185.48	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep.....	989.65	121.88
For Extra Heavy Fittings, Add	282.41	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep.....	1,637.29	170.11
For Extra Heavy Fittings, Add	483.78	
For Above Ground Cast Iron Pipe Installation, Add	12.75	
For Work In Restricted Working Space, Add	76.52	
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend.....	93.43	37.08
For Extra Heavy Fittings, Add	13.22	
For Above Ground Cast Iron Pipe Installation, Add	2.78	
For Work In Restricted Working Space, Add	16.70	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend.....	138.13	41.75
For Extra Heavy Fittings, Add	26.42	
For Above Ground Cast Iron Pipe Installation, Add	3.13	
For Work In Restricted Working Space, Add	18.80	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend.....	196.69	55.63
For Extra Heavy Fittings, Add	39.66	
For Above Ground Cast Iron Pipe Installation, Add	4.17	
For Work In Restricted Working Space, Add	25.01	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend.....	238.72	57.75
For Extra Heavy Fittings, Add	53.27	
For Above Ground Cast Iron Pipe Installation, Add	4.33	
For Work In Restricted Working Space, Add	25.96	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend.....	287.11	69.16
For Extra Heavy Fittings, Add	64.17	
For Above Ground Cast Iron Pipe Installation, Add	5.19	
For Work In Restricted Working Space, Add	31.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0055	EA			8" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	591.67 159.23 6.84 41.02	91.23
22 13 16 00-0056	EA			10" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	869.84 246.35 8.30 49.79	110.71
22 13 16 00-0057	EA			12" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,145.04 332.18 9.80 58.79	130.67
22 13 16 00-0058	EA			15" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,911.29 910.82 15.45 92.69	206.11
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)						
22 13 16 00-0060	EA			2" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.93 10.56 2.79 16.73	37.21
22 13 16 00-0061	EA			3" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.32 21.78 3.50 21.03	46.81
22 13 16 00-0062	EA			4" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.72 33.05 4.66 27.99	62.24
22 13 16 00-0063	EA			5" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.38 41.67 5.42 32.50	72.28
22 13 16 00-0064	EA			6" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.65 49.62 6.04 36.26	80.58
22 13 16 00-0065	EA			8" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	518.61 124.16 8.19 49.16	109.29
22 13 16 00-0066	EA			10" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	723.26 182.37 10.11 60.66	134.83
22 13 16 00-0067	EA			12" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,163.70 315.56 13.10 78.63	174.86
22 13 16 00-0068	EA			15" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,215.21 667.19 15.45 92.69	206.11
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)						
22 13 16 00-0070	EA			2" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.70 10.15 6.23 37.41	83.12
22 13 16 00-0071	EA			3" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.85 19.02 6.83 40.95	91.03
22 13 16 00-0072	EA			4" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.14 25.31 8.94 53.65	119.30
22 13 16 00-0073	EA			5" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	307.05 42.18 9.33 55.96	124.39
22 13 16 00-0074	EA			6" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	384.36 57.15 11.05 66.32	147.44
22 13 16 00-0075	EA			8" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	699.61 140.13 14.96 89.77	199.57

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	974.90	226.41
For Extra Heavy Fittings, Add	222.43	
For Above Ground Cast Iron Pipe Installation, Add	16.97	
For Work In Restricted Working Space, Add	101.82	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,435.56	275.60
For Extra Heavy Fittings, Add	357.83	
For Above Ground Cast Iron Pipe Installation, Add	20.66	
For Work In Restricted Working Space, Add	123.96	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	2,214.21	309.22
For Extra Heavy Fittings, Add	612.72	
For Above Ground Cast Iron Pipe Installation, Add	23.18	
For Work In Restricted Working Space, Add	139.07	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	234.65	86.88
For Extra Heavy Fittings, Add	36.52	
For Above Ground Cast Iron Pipe Installation, Add	6.52	
For Work In Restricted Working Space, Add	39.09	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	285.91	107.37
For Extra Heavy Fittings, Add	43.70	
For Above Ground Cast Iron Pipe Installation, Add	8.05	
For Work In Restricted Working Space, Add	48.32	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye	317.15	110.09
For Extra Heavy Fittings, Add	53.20	
For Above Ground Cast Iron Pipe Installation, Add	8.26	
For Work In Restricted Working Space, Add	49.55	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye	451.30	132.11
For Extra Heavy Fittings, Add	88.67	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.39	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye	462.91	134.53
For Extra Heavy Fittings, Add	91.41	
For Above Ground Cast Iron Pipe Installation, Add	10.09	
For Work In Restricted Working Space, Add	60.52	
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye	484.81	143.53
For Extra Heavy Fittings, Add	94.37	
For Above Ground Cast Iron Pipe Installation, Add	10.76	
For Work In Restricted Working Space, Add	64.56	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye	710.47	160.49
For Extra Heavy Fittings, Add	164.45	
For Above Ground Cast Iron Pipe Installation, Add	12.03	
For Work In Restricted Working Space, Add	72.18	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye	742.20	163.57
For Extra Heavy Fittings, Add	173.95	
For Above Ground Cast Iron Pipe Installation, Add	12.26	
For Work In Restricted Working Space, Add	73.56	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye	760.49	171.30
For Extra Heavy Fittings, Add	176.27	
For Above Ground Cast Iron Pipe Installation, Add	12.84	
For Work In Restricted Working Space, Add	77.06	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye	897.34	190.55
For Extra Heavy Fittings, Add	214.06	
For Above Ground Cast Iron Pipe Installation, Add	14.29	
For Work In Restricted Working Space, Add	85.72	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,100.67	178.54
For Extra Heavy Fittings, Add	291.54	
For Above Ground Cast Iron Pipe Installation, Add	13.39	
For Work In Restricted Working Space, Add	80.31	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,145.05	186.39
For Extra Heavy Fittings, Add	302.94	
For Above Ground Cast Iron Pipe Installation, Add	13.98	
For Work In Restricted Working Space, Add	83.85	
22 13 16 00-0092 EA 10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,252.91	206.11
For Extra Heavy Fittings, Add	330.38	
For Above Ground Cast Iron Pipe Installation, Add	15.45	
For Work In Restricted Working Space, Add	92.69	
22 13 16 00-0093 EA 10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,651.05	218.58
For Extra Heavy Fittings, Add	463.17	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0094 EA 12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,698.70	218.58
For Extra Heavy Fittings, Add	479.85	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0095 EA 12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,768.97	236.87
For Extra Heavy Fittings, Add	494.84	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.54	
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,074.22	248.63
For Extra Heavy Fittings, Add	595.54	
For Above Ground Cast Iron Pipe Installation, Add	18.63	
For Work In Restricted Working Space, Add	111.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,516.62 746.48 19.19 115.15	256.00
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,142.55 1,323.23 18.10 108.57	241.38
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,324.38 1,376.43 19.59 117.52	261.22
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,413.60 1,401.76 20.43 122.57	272.51
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,516.67 1,433.01 21.12 126.71	281.77
22 13 16 00-0102	EA		15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,631.78 1,464.67 22.35 134.10	298.17
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>					
22 13 16 00-0104	EA		2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.13 14.50 6.23 37.41	83.12
22 13 16 00-0105	EA		3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.51 21.70 8.83 40.95	91.03
22 13 16 00-0106	EA		4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.47 29.98 8.94 53.65	119.30
22 13 16 00-0107	EA		5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	350.77 54.32 9.78 58.67	130.49
22 13 16 00-0108	EA		6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	439.13 68.78 12.13 72.79	161.85
22 13 16 00-0109	EA		8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	800.52 167.43 16.11 96.65	214.89
22 13 16 00-0110	EA		10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,152.21 255.44 21.12 126.71	281.77
22 13 16 00-0111	EA		12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,543.20 350.05 27.15 162.92	362.20
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>					
22 13 16 00-0113	EA		3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.80 16.28 6.52 39.09	86.88
22 13 16 00-0114	EA		4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.47 29.90 8.05 48.32	107.37
22 13 16 00-0115	EA		4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	265.10 34.98 8.26 49.55	110.09
22 13 16 00-0116	EA		6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	376.65 62.54 9.90 59.39	132.11
22 13 16 00-0117	EA		6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	392.05 66.61 10.09 60.52	134.53

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0118	EA		6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	415.66	143.53
			<i>For Extra Heavy Fittings, Add</i>	70.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
22 13 16 00-0119	EA		8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	571.82	160.49
			<i>For Extra Heavy Fittings, Add</i>	115.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.03	
			<i>For Work In Restricted Working Space, Add</i>	72.18	
22 13 16 00-0120	EA		8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	588.07	171.30
			<i>For Extra Heavy Fittings, Add</i>	115.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	77.06	
22 13 16 00-0121	EA		8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	740.43	190.55
			<i>For Extra Heavy Fittings, Add</i>	159.15	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.29	
			<i>For Work In Restricted Working Space, Add</i>	85.72	
22 13 16 00-0122			Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123	EA		2" Bell And Spigot Cast Iron Double Wye	263.66	99.46
			<i>For Extra Heavy Fittings, Add</i>	40.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.45	
			<i>For Work In Restricted Working Space, Add</i>	44.72	
22 13 16 00-0124	EA		3" Bell And Spigot Cast Iron Double Wye	380.34	125.39
			<i>For Extra Heavy Fittings, Add</i>	67.34	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.40	
			<i>For Work In Restricted Working Space, Add</i>	56.38	
22 13 16 00-0125	EA		4" Bell And Spigot Cast Iron Double Wye	514.10	158.59
			<i>For Extra Heavy Fittings, Add</i>	96.69	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.89	
			<i>For Work In Restricted Working Space, Add</i>	71.36	
22 13 16 00-0126	EA		6" Bell And Spigot Cast Iron Double Wye	952.45	226.52
			<i>For Extra Heavy Fittings, Add</i>	214.49	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	101.89	
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye	1,896.04	269.77
			<i>For Extra Heavy Fittings, Add</i>	522.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.22	
			<i>For Work In Restricted Working Space, Add</i>	121.32	
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye	2,507.54	301.85
			<i>For Extra Heavy Fittings, Add</i>	719.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	22.63	
			<i>For Work In Restricted Working Space, Add</i>	135.77	
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye	1,752.82	362.20
			<i>For Extra Heavy Fittings, Add</i>	423.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	27.15	
			<i>For Work In Restricted Working Space, Add</i>	162.92	
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye	4,883.39	380.14
			<i>For Extra Heavy Fittings, Add</i>	1,509.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	28.51	
			<i>For Work In Restricted Working Space, Add</i>	171.07	
22 13 16 00-0131			Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	244.00	117.62
			<i>For Extra Heavy Fittings, Add</i>	23.67	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.82	
			<i>For Work In Restricted Working Space, Add</i>	52.91	
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	283.26	135.12
			<i>For Extra Heavy Fittings, Add</i>	28.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.13	
			<i>For Work In Restricted Working Space, Add</i>	60.79	
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	306.01	141.73
			<i>For Extra Heavy Fittings, Add</i>	32.70	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.63	
			<i>For Work In Restricted Working Space, Add</i>	63.77	
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	374.99	157.13
			<i>For Extra Heavy Fittings, Add</i>	48.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.78	
			<i>For Work In Restricted Working Space, Add</i>	70.66	
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	397.25	163.12
			<i>For Extra Heavy Fittings, Add</i>	53.45	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	73.36	
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	456.31	177.88
			<i>For Extra Heavy Fittings, Add</i>	66.37	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.33	
			<i>For Work In Restricted Working Space, Add</i>	80.00	
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	732.65	207.89
			<i>For Extra Heavy Fittings, Add</i>	147.37	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.58	
			<i>For Work In Restricted Working Space, Add</i>	93.47	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0139	EA			8" x 6" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	799.82 150.82 18.45 110.68	246.01
22 13 16 00-0140	EA			10" x 4" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	780.58 156.50 16.67 100.04	222.37
22 13 16 00-0141	EA			10" x 6" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	909.91 181.36 19.59 117.52	261.22
22 13 16 00-0142	EA			10" x 8" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,117.85 241.83 21.35 128.08	284.74
22 13 16 00-0143	EA			12" x 6" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,141.83 246.79 21.84 131.02	291.28
22 13 16 00-0144	EA			12" x 8" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,454.53 342.78 23.76 142.55	316.93
22 13 16 00-0145				Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0146	EA			2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	222.59 25.74 7.45 44.72	99.46
22 13 16 00-0147	EA			3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	299.63 35.05 9.98 59.85	133.05
22 13 16 00-0148	EA			4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	390.27 49.32 12.47 74.81	166.37
22 13 16 00-0149	EA			6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	816.38 152.88 18.98 113.87	253.16
22 13 16 00-0150				Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151	EA			3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	295.04 40.68 8.94 53.65	119.30
22 13 16 00-0152	EA			4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	349.05 51.25 10.13 60.79	135.12
22 13 16 00-0153	EA			4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.64 58.17 11.27 67.64	150.43
22 13 16 00-0154	EA			6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	749.46 163.21 14.16 84.94	188.83
22 13 16 00-0155				Bell And Spigot Cast Iron Sanitary Tees <small>(22 13 16 00-0030)</small>		
22 13 16 00-0156	EA			2" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	182.10 20.06 6.24 37.44	83.25
22 13 16 00-0157	EA			3" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.47 24.49 6.83 40.95	91.03
22 13 16 00-0158	EA			4" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	326.52 55.73 8.36 50.18	111.52
22 13 16 00-0159	EA			5" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	456.07 99.22 8.63 51.77	115.05

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0160	EA		6" Bell And Spigot Cast Iron Sanitary Tee	547.10	137.99
			<i>For Extra Heavy Fittings, Add</i>	119.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	62.07	
22 13 16 00-0161	EA		8" Bell And Spigot Cast Iron Sanitary Tee	1,169.10	182.35
			<i>For Extra Heavy Fittings, Add</i>	313.50	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.67	
			<i>For Work In Restricted Working Space, Add</i>	82.02	
22 13 16 00-0162	EA		10" Bell And Spigot Cast Iron Sanitary Tee	1,752.10	222.37
			<i>For Extra Heavy Fittings, Add</i>	496.53	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.67	
			<i>For Work In Restricted Working Space, Add</i>	100.04	
22 13 16 00-0163	EA		12" Bell And Spigot Cast Iron Sanitary Tee	2,607.77	261.22
			<i>For Extra Heavy Fittings, Add</i>	775.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.59	
			<i>For Work In Restricted Working Space, Add</i>	117.52	
22 13 16 00-0164			Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165	EA		3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	240.08	86.88
			<i>For Extra Heavy Fittings, Add</i>	38.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.52	
			<i>For Work In Restricted Working Space, Add</i>	39.09	
22 13 16 00-0166	EA		4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	284.05	101.79
			<i>For Extra Heavy Fittings, Add</i>	46.02	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.63	
			<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0167	EA		4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	296.72	101.79
			<i>For Extra Heavy Fittings, Add</i>	50.46	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.63	
			<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0168	EA		6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	434.41	132.11
			<i>For Extra Heavy Fittings, Add</i>	82.75	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.90	
			<i>For Work In Restricted Working Space, Add</i>	59.39	
22 13 16 00-0169	EA		6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	452.05	134.53
			<i>For Extra Heavy Fittings, Add</i>	87.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.09	
			<i>For Work In Restricted Working Space, Add</i>	60.52	
22 13 16 00-0170	EA		6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	490.23	143.53
			<i>For Extra Heavy Fittings, Add</i>	96.26	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
22 13 16 00-0171	EA		8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	832.27	171.30
			<i>For Extra Heavy Fittings, Add</i>	201.40	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	77.06	
22 13 16 00-0172	EA		8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee	1,042.70	190.55
			<i>For Extra Heavy Fittings, Add</i>	264.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.29	
			<i>For Work In Restricted Working Space, Add</i>	85.72	
22 13 16 00-0173			Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174	EA		2" Bell And Spigot Cast Iron Vent Tee	158.17	83.12
			<i>For Extra Heavy Fittings, Add</i>	11.72	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	37.41	
22 13 16 00-0175	EA		3" Bell And Spigot Cast Iron Vent Tee	194.77	91.03
			<i>For Extra Heavy Fittings, Add</i>	20.39	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
			<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0176	EA		4" Bell And Spigot Cast Iron Vent Tee	257.77	119.30
			<i>For Extra Heavy Fittings, Add</i>	27.63	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0177	EA		5" Bell And Spigot Cast Iron Vent Tee	313.38	130.49
			<i>For Extra Heavy Fittings, Add</i>	41.23	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.78	
			<i>For Work In Restricted Working Space, Add</i>	58.67	
22 13 16 00-0178	EA		6" Bell And Spigot Cast Iron Vent Tee	394.38	161.85
			<i>For Extra Heavy Fittings, Add</i>	53.12	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.13	
			<i>For Work In Restricted Working Space, Add</i>	72.79	
22 13 16 00-0179	EA		8" Bell And Spigot Cast Iron Vent Tee	675.30	214.89
			<i>For Extra Heavy Fittings, Add</i>	123.60	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.11	
			<i>For Work In Restricted Working Space, Add</i>	96.65	
22 13 16 00-0180			Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Tee	162.09	83.12
			<i>For Extra Heavy Fittings, Add</i>	13.09	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	37.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee	178.78	91.03
<i>For Extra Heavy Fittings, Add</i>	14.80	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee	230.93	119.30
<i>For Extra Heavy Fittings, Add</i>	18.24	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross	164.56	83.12
<i>For Extra Heavy Fittings, Add</i>	13.95	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
<i>For Work In Restricted Working Space, Add</i>	37.41	
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross	183.49	91.03
<i>For Extra Heavy Fittings, Add</i>	16.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross	242.76	119.30
<i>For Extra Heavy Fittings, Add</i>	22.38	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer	91.26	46.81
<i>For Extra Heavy Fittings, Add</i>	7.41	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.50	
<i>For Work In Restricted Working Space, Add</i>	21.03	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer	114.77	61.72
<i>For Extra Heavy Fittings, Add</i>	7.75	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.63	
<i>For Work In Restricted Working Space, Add</i>	27.79	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer	122.06	62.24
<i>For Extra Heavy Fittings, Add</i>	10.07	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.66	
<i>For Work In Restricted Working Space, Add</i>	27.99	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer	146.60	69.86
<i>For Extra Heavy Fittings, Add</i>	14.63	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.24	
<i>For Work In Restricted Working Space, Add</i>	31.44	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer	153.16	70.79
<i>For Extra Heavy Fittings, Add</i>	16.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.31	
<i>For Work In Restricted Working Space, Add</i>	31.85	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer	158.02	72.28
<i>For Extra Heavy Fittings, Add</i>	17.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.42	
<i>For Work In Restricted Working Space, Add</i>	32.50	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer	203.41	74.47
<i>For Extra Heavy Fittings, Add</i>	32.11	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.58	
<i>For Work In Restricted Working Space, Add</i>	33.50	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer	231.44	92.54
<i>For Extra Heavy Fittings, Add</i>	32.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.94	
<i>For Work In Restricted Working Space, Add</i>	41.62	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer	237.53	94.91
<i>For Extra Heavy Fittings, Add</i>	33.31	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.12	
<i>For Work In Restricted Working Space, Add</i>	42.71	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer	245.42	99.07
<i>For Extra Heavy Fittings, Add</i>	33.93	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.42	
<i>For Work In Restricted Working Space, Add</i>	44.55	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer	305.46	111.19
<i>For Extra Heavy Fittings, Add</i>	48.56	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.34	
<i>For Work In Restricted Working Space, Add</i>	50.02	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer	322.02	116.78
<i>For Extra Heavy Fittings, Add</i>	51.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.76	
<i>For Work In Restricted Working Space, Add</i>	52.55	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer	342.90	121.88
<i>For Extra Heavy Fittings, Add</i>	56.05	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.14	
<i>For Work In Restricted Working Space, Add</i>	54.83	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	424.48	132.10
<i>For Extra Heavy Fittings, Add</i>	79.27	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.90	
<i>For Work In Restricted Working Space, Add</i>	59.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer	474.02	154.55
For Extra Heavy Fittings, Add	84.78	
For Above Ground Cast Iron Pipe Installation, Add	11.59	
For Work In Restricted Working Space, Add	69.54	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer	513.39	176.05
For Extra Heavy Fittings, Add	87.29	
For Above Ground Cast Iron Pipe Installation, Add	13.20	
For Work In Restricted Working Space, Add	79.19	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer	563.25	202.77
For Extra Heavy Fittings, Add	90.73	
For Above Ground Cast Iron Pipe Installation, Add	15.20	
For Work In Restricted Working Space, Add	91.20	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer	730.99	202.77
For Extra Heavy Fittings, Add	149.44	
For Above Ground Cast Iron Pipe Installation, Add	15.20	
For Work In Restricted Working Space, Add	91.20	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer	778.02	218.58
For Extra Heavy Fittings, Add	157.61	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer	810.38	230.45
For Extra Heavy Fittings, Add	162.68	
For Above Ground Cast Iron Pipe Installation, Add	17.28	
For Work In Restricted Working Space, Add	103.67	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer	854.17	246.01
For Extra Heavy Fittings, Add	169.84	
For Above Ground Cast Iron Pipe Installation, Add	18.45	
For Work In Restricted Working Space, Add	110.68	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap.....	91.96	37.21
For Extra Heavy Fittings, Add	12.67	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap.....	122.75	46.81
For Extra Heavy Fittings, Add	18.43	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap.....	167.06	62.24
For Extra Heavy Fittings, Add	25.82	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap.....	255.07	64.67
For Extra Heavy Fittings, Add	55.35	
For Above Ground Cast Iron Pipe Installation, Add	4.85	
For Work In Restricted Working Space, Add	29.08	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap.....	341.80	76.08
For Extra Heavy Fittings, Add	79.72	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap.....	756.48	99.07
For Extra Heavy Fittings, Add	212.80	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap.....	839.61	121.88
For Extra Heavy Fittings, Add	229.90	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap	105.71	37.21
For Extra Heavy Fittings, Add	17.48	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap	149.77	46.81
For Extra Heavy Fittings, Add	27.89	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap	217.30	62.24
For Extra Heavy Fittings, Add	43.40	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap	345.91	72.28
For Extra Heavy Fittings, Add	83.16	
For Above Ground Cast Iron Pipe Installation, Add	5.42	
For Work In Restricted Working Space, Add	32.50	
22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap	367.32	80.58
For Extra Heavy Fittings, Add	86.26	
For Above Ground Cast Iron Pipe Installation, Add	6.04	
For Work In Restricted Working Space, Add	36.26	
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	244.60 6.83 40.95	89.86
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.97 8.94 53.65	118.13
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.07 9.49 56.93	125.54
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	845.87 10.76 64.56	142.26
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,760.66 12.84 77.06	169.39
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,989.46 14.29 85.72	189.00
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.23 9.40 56.38	124.10
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	427.30 11.89 71.36	156.64
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	943.92 13.33 80.00	175.80
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,095.31 16.12 96.74	212.80
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,975.04 15.58 93.47	205.39
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,265.86 18.45 110.68	243.88
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,340.76 21.35 128.08	281.42
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,003.48 24.65 147.87	325.37
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,668.86 28.52 171.13	376.33
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.81 2.78 16.69	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.63 3.13 18.75	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.91 4.19 25.12	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.41 4.86 29.18	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	440.06 5.88 35.25	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	826.84 7.42 44.54	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.50 0.78 4.65	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.91 0.85 5.07	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.13 1.06 6.34	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.35 1.27 7.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.80 1.69 10.14	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.43 1.97 11.83	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.48 2.32 13.94	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.52 2.68 16.06	
22 13 16 00-0257 Joint Material <small>(22 13 16 00-0019)</small> Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	5.38	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	12.54	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	19.74	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	30.28	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	45.81	
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings <small>(22 13 16)</small> Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe <small>(22 13 16 00-0268)</small> Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.42 0.58 3.50	7.78
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.60 0.63 3.76	8.30
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.93 0.91 5.44	12.06
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.26 1.18 7.07	15.69
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.11 1.32 7.94	17.64
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.66 1.44 8.65	19.25
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.75 2.09 12.53	27.92
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.52 2.38 14.26	31.72
22 13 16 00-0278 No Hub Cast Iron Fittings <small>(22 13 16 00-0268)</small>		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps <small>(22 13 16 00-0278)</small>		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.52 2.76 16.55	36.83
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.98 2.76 16.55	36.83
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.82 3.16 18.98	42.14
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.77 4.18 25.10	55.76
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.88 4.36 26.17	58.21
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.31 5.21 31.24	69.40
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.08 6.79 40.73	90.52



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0287	No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288	EA 3" x 2" No Hub Cast Iron Reducing Long Sweep.....	106.22	42.14
	<i>For Below Ground Installation, Add</i>	3.16	
	<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0289	EA 4" x 3" No Hub Cast Iron Reducing Long Sweep.....	155.75	55.76
	<i>For Below Ground Installation, Add</i>	4.18	
	<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0290	No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291	EA 2" No Hub Cast Iron Short Sweep.....	70.07	36.83
	<i>For Below Ground Installation, Add</i>	2.76	
	<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0292	EA 3" No Hub Cast Iron Short Sweep.....	83.73	42.14
	<i>For Below Ground Installation, Add</i>	3.16	
	<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0293	EA 4" No Hub Cast Iron Short Sweep.....	117.15	55.76
	<i>For Below Ground Installation, Add</i>	4.18	
	<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0294	EA 5" No Hub Cast Iron Short Sweep.....	152.49	58.21
	<i>For Below Ground Installation, Add</i>	4.36	
	<i>For Work In Restricted Working Space, Add</i>	26.17	
22 13 16 00-0295	EA 6" No Hub Cast Iron Short Sweep.....	170.84	69.40
	<i>For Below Ground Installation, Add</i>	5.21	
	<i>For Work In Restricted Working Space, Add</i>	31.24	
22 13 16 00-0296	EA 8" No Hub Cast Iron Short Sweep.....	315.46	90.52
	<i>For Below Ground Installation, Add</i>	6.79	
	<i>For Work In Restricted Working Space, Add</i>	40.73	
22 13 16 00-0297	EA 10" No Hub Cast Iron Short Sweep.....	506.14	126.75
	<i>For Below Ground Installation, Add</i>	9.50	
	<i>For Work In Restricted Working Space, Add</i>	57.02	
22 13 16 00-0298	No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299	EA 1-1/2" No Hub Cast Iron 1/4 Bend.....	64.48	35.27
	<i>For Below Ground Installation, Add</i>	2.65	
	<i>For Work In Restricted Working Space, Add</i>	15.88	
22 13 16 00-0300	EA 2" No Hub Cast Iron 1/4 Bend.....	67.39	36.83
	<i>For Below Ground Installation, Add</i>	2.76	
	<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0301	EA 3" No Hub Cast Iron 1/4 Bend.....	79.37	42.14
	<i>For Below Ground Installation, Add</i>	3.16	
	<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0302	EA 4" No Hub Cast Iron 1/4 Bend.....	107.52	55.76
	<i>For Below Ground Installation, Add</i>	4.18	
	<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0303	EA 5" No Hub Cast Iron 1/4 Bend.....	140.54	58.21
	<i>For Below Ground Installation, Add</i>	4.36	
	<i>For Work In Restricted Working Space, Add</i>	26.17	
22 13 16 00-0304	EA 6" No Hub Cast Iron 1/4 Bend.....	163.19	69.40
	<i>For Below Ground Installation, Add</i>	5.21	
	<i>For Work In Restricted Working Space, Add</i>	31.24	
22 13 16 00-0305	EA 8" No Hub Cast Iron 1/4 Bend.....	293.16	90.52
	<i>For Below Ground Installation, Add</i>	6.79	
	<i>For Work In Restricted Working Space, Add</i>	40.73	
22 13 16 00-0306	No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307	EA 1-1/2" No Hub Cast Iron 1/8 Bend.....	62.00	35.27
	<i>For Below Ground Installation, Add</i>	2.65	
	<i>For Work In Restricted Working Space, Add</i>	15.88	
22 13 16 00-0308	EA 2" No Hub Cast Iron 1/8 Bend.....	64.45	36.83
	<i>For Below Ground Installation, Add</i>	2.76	
	<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0309	EA 3" No Hub Cast Iron 1/8 Bend.....	76.48	42.14
	<i>For Below Ground Installation, Add</i>	3.16	
	<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0310	EA 4" No Hub Cast Iron 1/8 Bend.....	101.04	55.76
	<i>For Below Ground Installation, Add</i>	4.18	
	<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0311	EA 6" No Hub Cast Iron 1/8 Bend.....	163.17	82.35
	<i>For Below Ground Installation, Add</i>	6.18	
	<i>For Work In Restricted Working Space, Add</i>	37.05	
22 13 16 00-0312	EA 8" No Hub Cast Iron 1/8 Bend.....	267.68	108.15
	<i>For Below Ground Installation, Add</i>	8.11	
	<i>For Work In Restricted Working Space, Add</i>	48.63	
22 13 16 00-0313	EA 10" No Hub Cast Iron 1/8 Bend.....	398.65	133.05
	<i>For Below Ground Installation, Add</i>	9.98	
	<i>For Work In Restricted Working Space, Add</i>	59.85	
22 13 16 00-0314	No Hub Cast Iron Wyes (22 13 16 00-0278)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.23 4.16 24.94	55.50
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.07 5.64 33.83	75.21
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.79 6.18 37.05	82.35
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.27 8.11 48.63	108.15
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.16 8.49 50.97	113.32
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.50 10.09 60.52	134.53
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	489.48 13.58 81.46	181.16
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	773.60 15.08 90.51	201.23
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.20 5.38 32.29	71.84
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.08 6.18 37.05	82.35
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.99 6.83 40.95	91.03
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.80 7.58 45.50	101.15
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.69 8.58 51.51	114.47
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.72 8.97 53.80	119.66
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.36 10.48 62.88	139.83
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	338.34 10.68 64.07	142.43
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	388.76 11.73 70.40	156.57
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	576.45 12.50 75.03	166.79
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	609.16 13.39 80.31	178.54
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	695.87 14.29 85.75	190.66
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.08 4.84 29.03	64.58
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.73 5.64 33.83	75.21
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.76 6.18 37.05	82.35
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.31 8.11 48.63	108.15
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	375.77 12.47 74.81	166.37
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	637.17 16.00 96.01	213.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	751.01 19.34 116.06	258.05
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.54 5.64 33.83	75.21
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	143.56 6.18 37.05	82.35
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.96 6.83 40.95	91.03
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.62 7.58 45.50	101.15
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.13 8.58 51.51	114.47
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.95 8.97 53.80	119.66
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.44 10.48 62.88	139.83
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	379.63 10.68 64.07	142.43
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	483.14 11.73 70.40	156.57
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.94 7.01 42.06	93.49
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.58 8.53 51.19	113.86
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.91 9.33 55.97	124.49
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.90 12.71 76.25	169.58
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	748.39 17.28 103.67	230.45
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.27 7.77 46.59	103.61
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.20 8.94 53.66	119.30
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.51 9.75 58.50	130.06
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.77 11.21 67.25	149.52
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.28 8.42 50.52	112.30
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.34 9.33 55.97	124.49
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	364.94 12.35 74.10	164.82
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	519.10 19.07 114.42	254.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	191.14	96.61
<i>For Below Ground Installation, Add</i>	7.24	
<i>For Work In Restricted Working Space, Add</i>	43.47	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	221.71	112.30
<i>For Below Ground Installation, Add</i>	8.42	
<i>For Work In Restricted Working Space, Add</i>	50.52	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	261.40	122.67
<i>For Below Ground Installation, Add</i>	9.20	
<i>For Work In Restricted Working Space, Add</i>	55.18	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	96.86	54.34
<i>For Below Ground Installation, Add</i>	4.08	
<i>For Work In Restricted Working Space, Add</i>	24.47	
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee.....	129.88	75.21
<i>For Below Ground Installation, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee.....	143.97	82.35
<i>For Below Ground Installation, Add</i>	6.18	
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee.....	194.12	108.15
<i>For Below Ground Installation, Add</i>	8.11	
<i>For Work In Restricted Working Space, Add</i>	48.63	
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee.....	249.02	113.32
<i>For Below Ground Installation, Add</i>	8.49	
<i>For Work In Restricted Working Space, Add</i>	50.97	
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee.....	293.89	134.53
<i>For Below Ground Installation, Add</i>	10.09	
<i>For Work In Restricted Working Space, Add</i>	60.52	
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee.....	540.69	181.16
<i>For Below Ground Installation, Add</i>	13.58	
<i>For Work In Restricted Working Space, Add</i>	81.46	
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	109.08	61.34
<i>For Below Ground Installation, Add</i>	4.60	
<i>For Work In Restricted Working Space, Add</i>	27.59	
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	126.62	71.84
<i>For Below Ground Installation, Add</i>	5.38	
<i>For Work In Restricted Working Space, Add</i>	32.29	
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	131.76	75.21
<i>For Below Ground Installation, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	151.36	75.21
<i>For Below Ground Installation, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	176.93	101.79
<i>For Below Ground Installation, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	181.69	101.79
<i>For Below Ground Installation, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	217.98	107.67
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.42	
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	224.62	107.67
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.42	
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	225.43	107.67
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.42	
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	234.03	112.17
<i>For Below Ground Installation, Add</i>	8.41	
<i>For Work In Restricted Working Space, Add</i>	50.44	
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee.....	429.56	152.77
<i>For Below Ground Installation, Add</i>	11.45	
<i>For Work In Restricted Working Space, Add</i>	68.70	
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	72.35	36.83
<i>For Below Ground Installation, Add</i>	2.76	
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	83.88	42.14
<i>For Below Ground Installation, Add</i>	3.16	
<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	104.74	55.76
<i>For Below Ground Installation, Add</i>	4.18	
<i>For Work In Restricted Working Space, Add</i>	25.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee 69.36		36.83
			<i>For Below Ground Installation, Add</i> 2.76		
			<i>For Work In Restricted Working Space, Add</i> 16.55		
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee 86.06		42.14
			<i>For Below Ground Installation, Add</i> 3.16		
			<i>For Work In Restricted Working Space, Add</i> 18.98		
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee 123.73		55.76
			<i>For Below Ground Installation, Add</i> 4.18		
			<i>For Work In Restricted Working Space, Add</i> 25.10		
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee 201.67		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee 276.53		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee 352.63		164.30
			<i>For Below Ground Installation, Add</i> 12.32		
			<i>For Work In Restricted Working Space, Add</i> 73.91		
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)					
22 13 16 00-0407	EA		2" No Hub Cast Iron Cleanout Plug 61.21		36.83
			<i>For Below Ground Installation, Add</i> 2.76		
			<i>For Work In Restricted Working Space, Add</i> 16.55		
22 13 16 00-0408	EA		3" No Hub Cast Iron Cleanout Plug 72.73		42.14
			<i>For Below Ground Installation, Add</i> 3.16		
			<i>For Work In Restricted Working Space, Add</i> 18.98		
22 13 16 00-0409	EA		4" No Hub Cast Iron Cleanout Plug 101.64		55.76
			<i>For Below Ground Installation, Add</i> 4.18		
			<i>For Work In Restricted Working Space, Add</i> 25.10		
22 13 16 00-0410	EA		6" No Hub Cast Iron Cleanout Plug 157.09		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0411	EA		8" No Hub Cast Iron Cleanout Plug 208.25		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0413	EA		1-1/2" No Hub Cast Iron Sanitary Cross 129.65		72.62
			<i>For Below Ground Installation, Add</i> 5.45		
			<i>For Work In Restricted Working Space, Add</i> 32.69		
22 13 16 00-0414	EA		2" No Hub Cast Iron Sanitary Cross 138.60		75.21
			<i>For Below Ground Installation, Add</i> 5.64		
			<i>For Work In Restricted Working Space, Add</i> 33.83		
22 13 16 00-0415	EA		3" No Hub Cast Iron Sanitary Cross 164.18		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0416	EA		4" No Hub Cast Iron Sanitary Cross 238.55		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0418	EA		3" x 2" No Hub Cast Iron Sanitary Cross 181.43		96.61
			<i>For Below Ground Installation, Add</i> 7.24		
			<i>For Work In Restricted Working Space, Add</i> 43.46		
22 13 16 00-0419	EA		4" x 2" No Hub Cast Iron Sanitary Cross 200.80		99.46
			<i>For Below Ground Installation, Add</i> 7.46		
			<i>For Work In Restricted Working Space, Add</i> 44.74		
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross 218.01		103.87
			<i>For Below Ground Installation, Add</i> 7.78		
			<i>For Work In Restricted Working Space, Add</i> 46.69		
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)					
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer 121.42		75.21
			<i>For Below Ground Installation, Add</i> 5.64		
			<i>For Work In Restricted Working Space, Add</i> 33.83		
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer 165.78		101.79
			<i>For Below Ground Installation, Add</i> 7.63		
			<i>For Work In Restricted Working Space, Add</i> 45.77		
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer 166.19		101.79
			<i>For Below Ground Installation, Add</i> 7.63		
			<i>For Work In Restricted Working Space, Add</i> 45.77		
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer 180.79		107.67
			<i>For Below Ground Installation, Add</i> 8.07		
			<i>For Work In Restricted Working Space, Add</i> 48.42		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer	183.48	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer	184.54	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer	212.82	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer	213.22	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer	214.44	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer	298.06	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer	301.15	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer	306.12	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer	311.29	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer	311.89	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer	363.13	178.31
For Below Ground Installation, Add	13.36	
For Work In Restricted Working Space, Add	80.18	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer	386.56	186.14
For Below Ground Installation, Add	13.96	
For Work In Restricted Working Space, Add	83.75	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer	431.60	202.07
For Below Ground Installation, Add	15.15	
For Work In Restricted Working Space, Add	90.88	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug	57.89	35.27
For Below Ground Installation, Add	2.65	
For Work In Restricted Working Space, Add	15.88	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug	59.94	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug	71.72	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug	95.01	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug	109.85	59.95
For Below Ground Installation, Add	4.44	
For Work In Restricted Working Space, Add	26.63	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug	125.40	69.40
For Below Ground Installation, Add	5.21	
For Work In Restricted Working Space, Add	31.24	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug	202.89	90.52
For Below Ground Installation, Add	6.79	
For Work In Restricted Working Space, Add	40.73	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug	242.72	97.53
For Below Ground Installation, Add	7.31	
For Work In Restricted Working Space, Add	43.86	
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap	72.76	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap	103.33	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap	153.27	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap	247.20	58.68
For Below Ground Installation, Add	4.40	
For Work In Restricted Working Space, Add	26.38	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap	264.33	69.97
For Below Ground Installation, Add	5.25	
For Work In Restricted Working Space, Add	31.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0455	EA	2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.04 3.50 21.03	46.81
	22 13 16 00-0456	EA	3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.21 4.66 27.99	62.24
	22 13 16 00-0457	EA	4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.59 6.16 36.96	82.21
22 13 16 00-0458 No Hub Cast Iron Closet Flanges <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0459	EA	4" No Hub Cast Iron Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.52 4.18 25.10	55.76
	22 13 16 00-0460	EA	4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.31 4.18 25.10	55.76
22 13 16 00-0461 No Hub Cast Iron Closet Bends <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0462	EA	4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.73 4.18 25.10	55.76
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0464	EA	1-1/4" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.19 3.50 21.03	46.81
	22 13 16 00-0465	EA	1-1/2" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.85 3.50 21.03	46.81
22 13 16 00-0466 No Hub Couplings <small>(22 13 16 00-0278)</small>					
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).					
	22 13 16 00-0467	EA	1-1/2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	13.58 1.77 3.67	
	22 13 16 00-0468	EA	2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	13.58 1.77 3.67	
	22 13 16 00-0469	EA	3" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	16.12 2.10 4.35	
	22 13 16 00-0470	EA	4" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	19.14 2.49 5.17	
	22 13 16 00-0471	EA	5" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	44.25 5.75 11.95	
	22 13 16 00-0472	EA	6" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	48.63 6.32 13.13	
	22 13 16 00-0473	EA	8" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	91.61 11.91 24.73	
	22 13 16 00-0474	EA	10" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	126.20 16.41 34.07	
	22 13 16 00-0475	EA	2" x 1-1/2" No Hub Reducing Coupling.....	16.12	
	22 13 16 00-0476	EA	3" x 2" No Hub Reducing Coupling.....	25.00	
	22 13 16 00-0477	EA	4" x 2" No Hub Reducing Coupling.....	34.88	
	22 13 16 00-0478	EA	4" x 3" No Hub Reducing Coupling.....	29.72	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>					
Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.					
	22 13 16 00-0480	EA	1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	33.37	
	22 13 16 00-0481	EA	2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	34.45	
	22 13 16 00-0482	EA	3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	36.17	
	22 13 16 00-0483	EA	4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	42.20	
	22 13 16 00-0484	EA	5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	79.66	
	22 13 16 00-0485	EA	6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	109.38	
	22 13 16 00-0486	EA	8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	191.63	
	22 13 16 00-0487	EA	10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	292.82	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0488	Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489	EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	12.67	3.80
22 13 16 00-0490	EA Cut And Prepare 2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	15.50	4.65
22 13 16 00-0491	EA Cut And Prepare 3" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	16.91	5.07
22 13 16 00-0492	EA Cut And Prepare 4" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	21.13	6.34
22 13 16 00-0493	EA Cut And Prepare 6" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	25.35	7.61
22 13 16 00-0494	EA Cut And Prepare 8" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	33.80	10.14
22 13 16 00-0495	EA Cut And Prepare 10" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	39.44	11.83
22 13 16 00-0496	Copper Drain-Waste-Vent (DWV) Pipe (22 13 16) See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497	LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	16.60	6.09
22 13 16 00-0498	LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	19.58	6.80
22 13 16 00-0499	LF 2" Hard Drawn DWV Copper Tube/Pipe	25.02	8.40
22 13 16 00-0500	LF 3" Hard Drawn DWV Copper Tube/Pipe	56.54	11.63
22 13 16 00-0501	LF 4" Hard Drawn DWV Copper Tube/Pipe	75.77	13.12
22 13 16 00-0502	LF 5" Hard Drawn DWV Copper Tube/Pipe	137.87	15.07
22 13 16 00-0503	LF 6" Hard Drawn DWV Copper Tube/Pipe	198.56	23.35
22 13 16 00-0504	Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation. See CSI section 33 31 11 00-0002 for underground installation.		
22 13 16 00-0505	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0504) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	26.70	5.44
22 13 16 00-0507	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	29.83	6.48
22 13 16 00-0508	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	40.51	9.34
22 13 16 00-0509	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	48.18	10.11
22 13 16 00-0510	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	70.00	12.97
22 13 16 00-0511	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	88.45	17.24
22 13 16 00-0512	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	121.90	23.08
22 13 16 00-0513	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: Excludes fittings or hangers.		
22 13 16 00-0514	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0515	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	9.81	5.44
22 13 16 00-0516	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	11.95	6.48
22 13 16 00-0517	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	18.42	9.34
22 13 16 00-0518	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	21.45	10.11
22 13 16 00-0519	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	28.48	11.52
22 13 16 00-0520	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	40.09	15.33
22 13 16 00-0521	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	56.84	20.52



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0522	Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0513)</small>			
	Note: Excludes fittings or hangers.			
22 13 16 00-0523	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	9.30 2.43		5.44
22 13 16 00-0524	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.34 2.92		6.48
22 13 16 00-0525	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	17.27 4.18		9.34
22 13 16 00-0526	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.92 4.54		10.11
22 13 16 00-0527	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	25.63 5.18		11.52
22 13 16 00-0528	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	36.09 6.92		15.33
22 13 16 00-0529	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	52.49 9.22		20.52
22 13 16 00-0530	Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>			
22 13 16 00-0531	Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0530)</small>			
22 13 16 00-0532	EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	36.36 9.73		21.66
22 13 16 00-0533	EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	46.50 12.45		27.62
22 13 16 00-0534	EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	71.28 16.73		37.08
22 13 16 00-0535	EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	97.78 19.45		43.18
22 13 16 00-0536	EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	284.73 25.29		56.15
22 13 16 00-0537	EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	456.80 34.04		75.61
22 13 16 00-0538	EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	603.94 45.38		100.76
22 13 16 00-0539	Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0530)</small>			
22 13 16 00-0540	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	47.41 9.73		21.66
22 13 16 00-0541	EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	52.86 12.45		27.62
22 13 16 00-0542	EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	87.64 16.73		37.08
22 13 16 00-0543	EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	127.77 19.45		43.18
22 13 16 00-0544	EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	226.80 25.29		56.15
22 13 16 00-0545	EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	380.68 34.04		75.61
22 13 16 00-0546	EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	602.58 45.38		100.76
22 13 16 00-0547	Polyvinyl Chloride (PVC) DWV 1/8 Bends <small>(22 13 16 00-0530)</small>			
22 13 16 00-0548	EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	37.27 9.73		21.66
22 13 16 00-0549	EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	46.42 12.45		27.62
22 13 16 00-0550	EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	69.92 16.73		37.08
22 13 16 00-0551	EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	91.12 19.45		43.18
22 13 16 00-0552	EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	267.77 25.29		56.15
22 13 16 00-0553	EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	417.37 34.04		75.61
22 13 16 00-0554	EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	487.97 45.38		100.76
22 13 16 00-0555	Polyvinyl Chloride (PVC) DWV Sanitary Tees <small>(22 13 16 00-0530)</small>			
22 13 16 00-0556	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	55.67 14.59		32.42
22 13 16 00-0557	EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	72.31 18.67		41.50
22 13 16 00-0558	EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	110.45 25.09		55.76
22 13 16 00-0559	EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	148.37 29.18		64.84



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0560	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	423.73 37.93	84.16
22 13 16 00-0561	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	554.53 51.06	113.33
22 13 16 00-0562			Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0563	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	65.89 15.95	35.40
22 13 16 00-0564	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	75.28 17.31	38.38
22 13 16 00-0565	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	67.78 17.31	38.38
22 13 16 00-0566	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	92.49 21.59	47.98
22 13 16 00-0567	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	96.05 22.95	50.97
22 13 16 00-0568	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	108.61 24.32	53.94
22 13 16 00-0569	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	154.88 25.68	57.05
22 13 16 00-0570	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	186.92 27.82	61.72
22 13 16 00-0571	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	404.23 35.01	77.68
22 13 16 00-0572	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,146.72 43.77	97.12
22 13 16 00-0573	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,188.71 46.68	103.61
22 13 16 00-0574			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0575	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	86.04 19.45	43.18
22 13 16 00-0576	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	114.04 24.90	55.24
22 13 16 00-0577	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	198.60 33.46	74.31
22 13 16 00-0578	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	269.68 38.90	86.36
22 13 16 00-0579			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0580	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	101.98 22.17	49.28
22 13 16 00-0581	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	154.10 26.45	58.74
22 13 16 00-0582	EA		3" x 2" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	175.36 29.18	64.84
22 13 16 00-0583	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	278.33 31.90	70.81
22 13 16 00-0584	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	297.32 36.18	80.27
22 13 16 00-0585			Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0530)</small>		
22 13 16 00-0586	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	44.84 11.09	24.64
22 13 16 00-0587	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	69.23 13.23	29.31
22 13 16 00-0588	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	69.68 14.59	32.42
22 13 16 00-0589	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	94.82 15.95	35.40
22 13 16 00-0590	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	103.84 18.09	40.20
22 13 16 00-0591	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	289.99 21.01	46.68
22 13 16 00-0592	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	251.22 22.37	49.67
22 13 16 00-0593	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	573.91 26.75	59.39
22 13 16 00-0594	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	497.72 29.66	65.88
22 13 16 00-0595	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	660.65 35.34	78.45
22 13 16 00-0596	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	539.63 39.71	88.18
22 13 16 00-0597			Polyvinyl Chloride (PVC) DWV P-Traps <small>(22 13 16 00-0530)</small>		
22 13 16 00-0598	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	62.41 14.59	32.42



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22 13 16 00-0599	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	81.02 18.67	41.50
22 13 16 00-0600	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	177.16 25.09	55.76
22 13 16 00-0601	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	319.96 29.18	64.84
22 13 16 00-0602	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	520.19 37.93	84.16
22 13 16 00-0603			Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)		
22 13 16 00-0604	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	91.27 19.45	43.18
22 13 16 00-0605	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	78.78 18.09	40.20
22 13 16 00-0606			Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)		
22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	62.72 14.59	32.42
22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	76.40 18.67	41.50
22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	115.67 25.09	55.76
22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	156.93 29.18	64.84
22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	391.63 37.93	84.16
22 13 16 00-0612	EA		8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	493.54 51.06	113.33
22 13 16 00-0613	EA		10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	651.22 68.08	151.07
22 13 16 00-0614			Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)		
22 13 16 00-0615	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	78.31 15.95	35.40
22 13 16 00-0616	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	82.62 17.31	38.38
22 13 16 00-0617	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	111.11 21.59	47.98
22 13 16 00-0618	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	101.27 22.95	50.97
22 13 16 00-0619	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	143.19 24.32	53.94
22 13 16 00-0620	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	133.52 25.68	57.05
22 13 16 00-0621	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	148.68 27.82	61.72
22 13 16 00-0622	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	352.74 33.65	74.69
22 13 16 00-0623	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	424.40 35.01	77.68
22 13 16 00-0624	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	423.03 43.77	97.12
22 13 16 00-0625	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	518.23 46.68	103.61
22 13 16 00-0626	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	495.94 55.11	122.29
22 13 16 00-0627	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	598.52 58.03	128.77
22 13 16 00-0628	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	687.27 62.40	138.49
22 13 16 00-0629			Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)		
22 13 16 00-0630	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	94.83 19.45	43.18
22 13 16 00-0631	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	121.53 24.90	55.24
22 13 16 00-0632	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	211.10 33.46	74.31
22 13 16 00-0633	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	331.55 38.90	86.36
22 13 16 00-0634	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	625.77 50.57	112.30
22 13 16 00-0635	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	742.93 68.08	151.20
22 13 16 00-0636	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,124.78 90.77	201.51
22 13 16 00-0637			Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0638	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	109.12 22.17	49.28
22 13 16 00-0639	EA		3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	175.55 26.45	58.74
22 13 16 00-0640	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	171.39 29.18	64.84
22 13 16 00-0641	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	227.35 31.90	70.81
22 13 16 00-0642	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	280.45 36.18	80.27
22 13 16 00-0643	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	411.67 44.74	99.33
22 13 16 00-0644	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	484.02 53.49	118.78
22 13 16 00-0645	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	599.68 59.33	131.75
22 13 16 00-0646	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	637.62 64.84	143.94
22 13 16 00-0647	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	802.63 70.67	156.90
22 13 16 00-0648	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	959.34 79.42	176.36
22 13 16 00-0649			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0650	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.50 14.59	32.42
22 13 16 00-0651	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	90.11 18.67	41.50
22 13 16 00-0652	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	156.86 25.09	55.76
22 13 16 00-0653	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	249.31 29.18	64.84
22 13 16 00-0654			Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0655	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.41 17.31	38.38
22 13 16 00-0656	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	172.22 21.59	47.98
22 13 16 00-0657	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	139.16 22.95	50.97
22 13 16 00-0658	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	224.97 25.68	57.05
22 13 16 00-0659	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	243.69 27.82	61.72
22 13 16 00-0660			Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0661	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	101.64 19.45	43.18
22 13 16 00-0662	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	122.29 24.90	55.24
22 13 16 00-0663	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	179.82 33.46	74.31
22 13 16 00-0664	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	489.51 38.90	86.36
22 13 16 00-0665	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,474.96 50.57	112.30
22 13 16 00-0666			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0667	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	194.33 22.17	49.28
22 13 16 00-0668	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	301.27 29.18	64.84
22 13 16 00-0669	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	486.54 31.90	70.81
22 13 16 00-0670	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	453.35 36.18	80.27
22 13 16 00-0671	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,002.59 44.74	99.33
22 13 16 00-0672			Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0673	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	129.27 18.67	41.50
22 13 16 00-0674	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	211.69 25.09	55.76



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0675	EA			4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	320.00 29.18	64.84
22 13 16 00-0676	EA			6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	773.65 37.93	84.16
22 13 16 00-0677	EA			8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	976.02 51.06	113.33
22 13 16 00-0678	EA			10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,295.78 68.08	151.07
22 13 16 00-0679				Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0680	EA			1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	44.01 9.73	21.66
22 13 16 00-0681	EA			2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	60.20 12.45	27.62
22 13 16 00-0682	EA			3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	84.54 16.73	37.08
22 13 16 00-0683	EA			4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	132.46 19.45	43.18
22 13 16 00-0684	EA			6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	269.89 25.29	56.15
22 13 16 00-0685	EA			8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	566.03 34.04	75.61
22 13 16 00-0686	EA			10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	1,012.13 45.36	100.76
22 13 16 00-0687				Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0530)</small>		
22 13 16 00-0688	EA			1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	35.85 9.73	21.66
22 13 16 00-0689	EA			2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	45.36 12.45	27.62
22 13 16 00-0690	EA			3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	65.63 16.73	37.08
22 13 16 00-0691	EA			4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	81.06 19.45	43.18
22 13 16 00-0692	EA			6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	173.81 25.29	56.15
22 13 16 00-0693	EA			8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	372.06 34.04	75.61
22 13 16 00-0694	EA			10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	552.02 45.39	100.76
22 13 16 00-0695				Polyvinyl Chloride (PVC) Male Adapters <small>(22 13 16 00-0530)</small>		
22 13 16 00-0696	EA			1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	19.69 4.86	10.76
22 13 16 00-0697	EA			2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	29.29 6.22	13.87
22 13 16 00-0698	EA			3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	51.59 8.36	18.54
22 13 16 00-0699	EA			4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	86.75 9.73	21.66
22 13 16 00-0700				Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small>		
				Note: In place piping.		
22 13 16 00-0701	EA			1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	9.50	
22 13 16 00-0702	EA			2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	10.46	
22 13 16 00-0703	EA			3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	13.30	
22 13 16 00-0704	EA			4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	17.96	
22 13 16 00-0705	EA			6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	25.66	
22 13 16 00-0706	EA			8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	34.22	
22 13 16 00-0707	EA			10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	41.84	
22 13 16 00-0708				Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
				Note: Aboveground installation.		
22 13 16 00-0709				Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0708)</small>		
				Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0710	LF			1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>	28.47 7.46	5.44
22 13 16 00-0711	LF			2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>	31.59 8.26	6.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0712 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	41.55 10.26	9.34
22 13 16 00-0713 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	47.20 11.40	10.11
22 13 16 00-0714 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	72.72 15.16	12.97
22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0708)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	10.10 2.43	5.44
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.40 2.92	6.48
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.47 4.18	9.34
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	23.04 4.54	10.11
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	33.39 5.18	11.52
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0708)</small>		
22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	40.89 9.73	21.66
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	53.59 12.45	27.62
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	93.05 16.73	37.08
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	137.91 19.45	43.18
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	357.02 25.29	56.15
22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.61 9.73	21.66
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	65.04 12.45	27.62
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	121.49 16.73	37.08
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	194.48 19.45	43.18
22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	42.48 9.73	21.66
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.48 12.45	27.62
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	87.22 16.73	37.08
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	127.15 19.45	43.18
22 13 16 00-0738 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	368.38 25.29	56.15
22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0740 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	63.06 14.59	32.42
22 13 16 00-0741 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	83.93 18.67	41.50
22 13 16 00-0742 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	138.90 25.09	55.76
22 13 16 00-0743 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	203.44 29.18	64.84
22 13 16 00-0744 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	701.97 37.93	84.16



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0745				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0746	EA			2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 76.18		35.40
				<i>For Work In Restricted Working Space, Add</i> 15.95		
22 13 16 00-0747	EA			2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 90.02		38.38
				<i>For Work In Restricted Working Space, Add</i> 17.31		
22 13 16 00-0748	EA			2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 78.50		38.38
				<i>For Work In Restricted Working Space, Add</i> 17.31		
22 13 16 00-0749	EA			3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 114.18		47.98
				<i>For Work In Restricted Working Space, Add</i> 21.59		
22 13 16 00-0750	EA			3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 119.11		50.97
				<i>For Work In Restricted Working Space, Add</i> 22.95		
22 13 16 00-0751	EA			4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 234.09		53.94
				<i>For Work In Restricted Working Space, Add</i> 24.32		
22 13 16 00-0752	EA			4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 228.44		57.05
				<i>For Work In Restricted Working Space, Add</i> 25.68		
22 13 16 00-0753	EA			4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 260.24		61.72
				<i>For Work In Restricted Working Space, Add</i> 27.82		
22 13 16 00-0754	EA			6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 760.20		77.68
				<i>For Work In Restricted Working Space, Add</i> 35.01		
22 13 16 00-0755				Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0756	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 108.67		43.18
				<i>For Work In Restricted Working Space, Add</i> 19.45		
22 13 16 00-0757	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 146.94		55.24
				<i>For Work In Restricted Working Space, Add</i> 24.90		
22 13 16 00-0758	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 291.16		74.31
				<i>For Work In Restricted Working Space, Add</i> 33.46		
22 13 16 00-0759	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 417.58		86.36
				<i>For Work In Restricted Working Space, Add</i> 38.90		
22 13 16 00-0760				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0761	EA			2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 123.62		49.28
				<i>For Work In Restricted Working Space, Add</i> 22.17		
22 13 16 00-0762	EA			3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 179.73		58.74
				<i>For Work In Restricted Working Space, Add</i> 26.45		
22 13 16 00-0763	EA			3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 205.59		64.84
				<i>For Work In Restricted Working Space, Add</i> 29.18		
22 13 16 00-0764	EA			4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 333.11		62.94
				<i>For Work In Restricted Working Space, Add</i> 28.36		
22 13 16 00-0765	EA			4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 352.38		71.36
				<i>For Work In Restricted Working Space, Add</i> 32.16		
22 13 16 00-0766				Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0767	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 77.68		32.42
				<i>For Work In Restricted Working Space, Add</i> 14.59		
22 13 16 00-0768	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 92.07		41.50
				<i>For Work In Restricted Working Space, Add</i> 18.67		
22 13 16 00-0769	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 149.65		55.76
				<i>For Work In Restricted Working Space, Add</i> 25.09		
22 13 16 00-0770	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 220.24		64.84
				<i>For Work In Restricted Working Space, Add</i> 29.18		
22 13 16 00-0771	EA			6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 577.70		84.16
				<i>For Work In Restricted Working Space, Add</i> 37.93		
22 13 16 00-0772				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0773	EA			2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes 105.00		35.40
				<i>For Work In Restricted Working Space, Add</i> 15.95		
22 13 16 00-0774	EA			2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 109.01		38.38
				<i>For Work In Restricted Working Space, Add</i> 17.31		
22 13 16 00-0775	EA			3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 127.81		50.97
				<i>For Work In Restricted Working Space, Add</i> 22.95		
22 13 16 00-0776	EA			4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 184.40		57.05
				<i>For Work In Restricted Working Space, Add</i> 25.68		
22 13 16 00-0777	EA			4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 208.16		61.72
				<i>For Work In Restricted Working Space, Add</i> 27.82		
22 13 16 00-0778	EA			6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 489.55		77.68
				<i>For Work In Restricted Working Space, Add</i> 35.01		
22 13 16 00-0779				Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0780	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 126.62		43.18
				<i>For Work In Restricted Working Space, Add</i> 19.45		
22 13 16 00-0781	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 162.46		55.24
				<i>For Work In Restricted Working Space, Add</i> 24.90		
22 13 16 00-0782	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 316.97		74.31
				<i>For Work In Restricted Working Space, Add</i> 33.46		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0783 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	545.85 38.90	86.36
22 13 16 00-0784 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0721)		
22 13 16 00-0785 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	146.49 22.17	49.28
22 13 16 00-0786 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	233.10 26.45	58.74
22 13 16 00-0787 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	249.79 29.18	64.84
22 13 16 00-0788 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	355.85 31.90	70.81
22 13 16 00-0789 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	450.19 36.18	80.27
22 13 16 00-0790 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0791 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	95.03 14.59	32.42
22 13 16 00-0792 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	122.54 18.67	41.50
22 13 16 00-0793 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	183.00 25.09	55.76
22 13 16 00-0794 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	281.51 25.94	57.64
22 13 16 00-0795 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0796 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	106.54 17.31	38.38
22 13 16 00-0797 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	187.61 21.59	47.98
22 13 16 00-0798 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	148.77 22.95	50.97
22 13 16 00-0799 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	246.55 25.68	57.05
22 13 16 00-0800 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	267.02 27.82	61.72
22 13 16 00-0801 Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0802 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	192.16 24.90	55.24
22 13 16 00-0803 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	363.32 33.46	74.31
22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0805 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	161.77 22.17	49.28
22 13 16 00-0806 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	344.76 29.18	64.84
22 13 16 00-0807 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0721)		
22 13 16 00-0808 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	103.21 14.59	32.42
22 13 16 00-0809 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	130.72 18.67	41.50
22 13 16 00-0810 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	201.27 25.09	55.76
22 13 16 00-0811 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	317.14 29.18	64.84
22 13 16 00-0812 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0721)		
22 13 16 00-0813 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	51.13 9.73	21.66
22 13 16 00-0814 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	71.70 12.45	27.62
22 13 16 00-0815 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	102.16 16.73	37.08
22 13 16 00-0816 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	174.08 19.45	43.18



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0817 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	384.20 25.29	56.15
22 13 16 00-0818 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0721)		
22 13 16 00-0819 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.87 9.73	21.66
22 13 16 00-0820 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	48.30 12.45	27.62
22 13 16 00-0821 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	74.26 16.73	37.08
22 13 16 00-0822 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	95.33 19.45	43.18
22 13 16 00-0823 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	235.02 25.29	56.15
22 13 16 00-0824 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0721)		
22 13 16 00-0825 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	53.31 11.09	24.64
22 13 16 00-0826 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	95.92 13.23	29.31
22 13 16 00-0827 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	92.09 14.59	32.42
22 13 16 00-0828 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	138.89 15.95	35.40
22 13 16 00-0829 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	149.99 18.09	40.20
22 13 16 00-0830 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0721)		
22 13 16 00-0831 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	80.32 14.59	32.42
22 13 16 00-0832 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	113.54 18.67	41.50
22 13 16 00-0833 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	318.61 25.09	55.76
22 13 16 00-0834 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	578.66 29.18	64.84
22 13 16 00-0835 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0721)		
22 13 16 00-0836 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	109.09 19.45	43.18
22 13 16 00-0837 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	101.81 18.09	40.20
22 13 16 00-0838 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0721)		
22 13 16 00-0839 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	24.44 4.86	10.76
22 13 16 00-0840 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.33 6.22	13.87
22 13 16 00-0841 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	70.37 8.36	18.54
22 13 16 00-0842 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	126.42 9.73	21.66
22 13 16 00-0843 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0721)		
22 13 16 00-0844 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.76 11.09	24.64
22 13 16 00-0845 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	80.77 13.23	29.31
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	71.94 14.59	32.42
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	137.71 15.95	35.40
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	109.29 18.09	40.20
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	258.39 19.88	44.15
22 13 16 00-0850 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling..... <i>For Work In Restricted Working Space, Add</i>	89.21 9.73	21.66
22 13 16 00-0852 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	102.08 12.45	27.62
22 13 16 00-0853 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	120.13 16.73	37.08



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0854	EA		4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	132.99 19.45	43.18
22 13 16 00-0855			Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe <small>(22 13 16 00-0708)</small> Note: In place piping.		
22 13 16 00-0856	EA		1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	9.50	
22 13 16 00-0857	EA		2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.46	
22 13 16 00-0858	EA		3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	13.30	
22 13 16 00-0859	EA		4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	17.96	
22 13 16 00-0860	EA		6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	25.66	
22 13 16 00-0861			Elastomeric Flexible Pipe Couplings <small>(22 13 16)</small>		
22 13 16 00-0862			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0863	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125) <i>For Work In Restricted Working Space, Add</i>	17.44 3.38	5.63
22 13 16 00-0864	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) <i>For Work In Restricted Working Space, Add</i>	18.81 3.59	5.98
22 13 16 00-0865	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)..... <i>For Work In Restricted Working Space, Add</i>	19.77 3.80	6.34
22 13 16 00-0866	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)..... <i>For Work In Restricted Working Space, Add</i>	22.97 4.01	6.69
22 13 16 00-0867	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)..... <i>For Work In Restricted Working Space, Add</i>	26.10 4.23	7.04
22 13 16 00-0868	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)..... <i>For Work In Restricted Working Space, Add</i>	33.61 4.44	7.39
22 13 16 00-0869	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)..... <i>For Work In Restricted Working Space, Add</i>	41.18 4.65	7.74
22 13 16 00-0870	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)..... <i>For Work In Restricted Working Space, Add</i>	56.41 5.07	8.45
22 13 16 00-0871	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)..... <i>For Work In Restricted Working Space, Add</i>	74.63 5.92	9.86
22 13 16 00-0872			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0873	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) <i>For Work In Restricted Working Space, Add</i>	18.57 3.59	5.98
22 13 16 00-0874	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) <i>For Work In Restricted Working Space, Add</i>	20.17 3.80	6.34
22 13 16 00-0875	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) <i>For Work In Restricted Working Space, Add</i>	24.95 4.01	6.69
22 13 16 00-0876	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) <i>For Work In Restricted Working Space, Add</i>	22.25 4.01	6.69
22 13 16 00-0877	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) <i>For Work In Restricted Working Space, Add</i>	30.97 4.23	7.04
22 13 16 00-0878	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) <i>For Work In Restricted Working Space, Add</i>	29.59 4.23	7.04
22 13 16 00-0879	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) <i>For Work In Restricted Working Space, Add</i>	27.02 4.23	7.04
22 13 16 00-0880	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) <i>For Work In Restricted Working Space, Add</i>	39.64 4.44	7.39
22 13 16 00-0881	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) <i>For Work In Restricted Working Space, Add</i>	35.71 4.44	7.39
22 13 16 00-0882	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) <i>For Work In Restricted Working Space, Add</i>	49.29 4.65	7.74
22 13 16 00-0883	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) <i>For Work In Restricted Working Space, Add</i>	43.42 4.65	7.74
22 13 16 00-0884	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) <i>For Work In Restricted Working Space, Add</i>	45.05 4.65	7.74
22 13 16 00-0885	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) <i>For Work In Restricted Working Space, Add</i>	88.62 8.45	14.09
22 13 16 00-0886	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) <i>For Work In Restricted Working Space, Add</i>	72.33 8.45	14.09
22 13 16 00-0887	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) <i>For Work In Restricted Working Space, Add</i>	91.83 9.51	15.85
22 13 16 00-0888			Elastomeric Flexible Pipe Caps (Fernco QC) <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0889	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	62.89	38.02
22 13 16 00-0890	EA		2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	67.53	40.42
22 13 16 00-0891	EA		3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	78.28	46.34
22 13 16 00-0892	EA		4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	103.26	61.26
22 13 16 00-0893	EA		5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	123.83	73.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0894 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	142.54	84.51
22 13 16 00-0895 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	192.45	107.04
22 13 16 00-0896 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	238.83	119.71
22 13 16 00-0897 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	305.92	133.10
22 13 16 00-0898 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0899 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	103.22	29.18
22 13 16 00-0900 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	109.71	32.42
22 13 16 00-0901 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	161.21	42.14
22 13 16 00-0902 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	188.61	48.63
22 13 16 00-0903 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	219.19	55.11
22 13 16 00-0904 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	353.95	61.59
22 13 16 00-0905 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0906 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	199.41	29.18
22 13 16 00-0907 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	205.90	32.42
22 13 16 00-0908 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	246.44	42.14
22 13 16 00-0909 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	306.42	48.63
22 13 16 00-0910 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	413.43	55.11
22 13 16 00-0911 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	426.40	61.59
22 13 16 00-0912 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0913 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	367.74	29.18
22 13 16 00-0914 EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....	374.23	32.42
22 13 16 00-0915 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	432.35	42.14
22 13 16 00-0916 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	487.22	48.63
22 13 16 00-0917 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	567.86	55.11
22 13 16 00-0918 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	621.12	61.59
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	774.99	139.40
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	853.07	156.26
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	842.04	172.86
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	877.64	190.75
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	785.84	156.26
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	819.17	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0008	EA		Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	854.77	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0009	EA		Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet	1,256.92	156.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0010	EA		Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet	1,290.25	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0011	EA		Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet	1,325.85	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0012	EA		Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,188.31	156.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0013	EA		Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,221.46	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0014	EA		Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,257.24	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0015	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,297.93	156.13
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0016	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,331.23	172.86
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,367.01	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,002.27	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	2,035.57	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	2,071.35	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,908.51	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,941.81	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0023 EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,977.59	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0024 Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	916.04	156.13
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	949.70	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	985.12	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	984.64	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,018.30	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,053.72	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,286.50	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,320.16	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,355.58	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	865.73	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	899.39	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	934.81	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	952.62	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	986.28	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,021.70	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,197.31	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,230.97	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,266.39	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top	2,996.38	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top	3,031.80	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top	3,741.88	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top	3,777.30	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	3,652.69	172.99
<i>For Chained Grate, Add</i>	48.50	
<i>For No-Hub Side Outlet, Add</i>	76.00	
<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	3,688.11	190.75
<i>For Chained Grate, Add</i>	48.50	
<i>For No-Hub Side Outlet, Add</i>	76.00	
<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,304.79	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,338.45	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,373.87	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,659.25	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,692.91	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,728.33	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,741.57	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,775.23	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,810.65	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,379.59	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,413.25	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,448.67	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,231.61	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,265.27	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,300.69	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,533.47	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,567.13	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,602.55	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,615.80	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,649.46	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,684.88	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	2,134.90	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	2,168.56	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	2,203.98	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0073			Funnel Type Floor Drains <small>(22 13 19 13)</small>		
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,227.89	139.40
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,261.34	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,294.64	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,330.42	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	1,775.87	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	1,809.17	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	1,844.95	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,686.69	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,719.99	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	1,755.77	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0084			Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>		
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	2,535.82	139.40
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	2,569.39	156.13
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	2,602.69	172.86
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap	2,638.47	190.75
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap..... <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,675.38 33.50 30.50 247.00	209.17
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,743.19 29.50 31.00 77.50 273.75	156.13
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,776.85 29.50 31.00 77.50 273.75	172.99
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,812.27 29.50 31.00 77.50 273.75	190.75
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,849.18 29.50 31.00 77.50 273.75	209.17
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,711.84 29.50 31.00 77.50 273.75	156.13
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,745.50 29.50 31.00 77.50 273.75	172.99
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,780.92 29.50 31.00 77.50 273.75	190.75
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,817.83 29.50 31.00 77.50 273.75	209.17
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,564.82 29.50 31.00 77.50 273.75	156.13
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,598.48 29.50 31.00 77.50 273.75	172.99
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,633.90 29.50 31.00 77.50 273.75	190.75
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,670.81 29.50 31.00 77.50 273.75	209.17
22 13 19 13-0102			Other Drains <small>(22 13 19 13)</small>		
22 13 19 13-0103			Shower Drains <small>(22 13 19 13-0102)</small>		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer Note: Includes two 2-5/8" screws.	48.41	14.09
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer Note: Includes two 2-5/8" screws.	53.18	14.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0106 EA 4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	113.72	28.17
Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107 EA 4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	141.14	28.17
Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108 Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109 EA 9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,236.92	139.40
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0110 EA 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,270.49	156.13
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0111 EA 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,303.79	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0112 Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113 EA Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	278.00	94.02
22 13 19 13-0114 EA Lever Drain, 2" Drain, 3" Sink Opening.....	297.45	103.74
22 13 19 13-0115 EA Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	278.00	94.02
22 13 19 13-0116 EA Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	297.45	103.74
22 13 19 13-0117 EA Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	278.00	94.02
22 13 19 13-0118 EA Twist Drain, 2" Drain, 3" Sink Opening.....	297.45	103.74
22 13 19 13-0119 EA Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	278.00	94.02
22 13 19 13-0120 EA Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	297.45	103.74
22 13 19 13-0121 EA Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	366.87	103.74
22 13 19 13-0122 Floor Receptor (22 13 19 13)		
22 13 19 13-0123 9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	1,510.81	156.26
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection.....	1,544.63	173.11
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection.....	1,579.68	190.75
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0127 Square Top Floor Receptors (22 13 19 13-0122)		
Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top.....	1,760.72	139.40
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,794.32	156.26
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,827.47	172.86
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,863.25	190.75
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
22 13 19 13-0132 Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	100.12	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	83.20	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	89.96	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	106.89	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	96.74	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	134.23	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	147.86	16.21
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	181.69	16.21
Note: Prevents emission of sewer gases.		
22 13 19 26 Grease Removal Devices (22 13 19)		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,131.29	97.26
Note: Josam 60102H.		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,352.91	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,316.34	218.83
Note: Josam 60103H.		
<i>For Flange And Clamp Device, Add</i>	406.05	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,432.27	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,841.16	243.14
Note: Josam 60104H.		
<i>For Flange And Clamp Device, Add</i>	422.26	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,565.06	
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,213.35	267.46
Note: Josam 60105H.		
<i>For Flange And Clamp Device, Add</i>	438.47	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,692.42	
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,475.00	291.77
Note: Josam 60106H.		
<i>For Flange And Clamp Device, Add</i>	485.07	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,765.05	
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,032.24	340.40
Note: Josam 60107H.		
<i>For Flange And Clamp Device, Add</i>	528.69	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,946.16	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,933.35	389.02
Note: Josam 60108H.		
<i>For Flange And Clamp Device, Add</i>	602.07	
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,080.23	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	7,601.14	437.65
Note: Josam 60109H.		
<i>For Flange And Clamp Device, Add</i>	835.77	
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	8,576.95	511.61
Note: Josam 60110H.		
<i>For Flange And Clamp Device, Add</i>	949.08	
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	10,646.49	818.58
Note: Josam 60213A.		
<i>For Flange And Clamp Device, Add</i>	1,313.72	
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	15,225.82	1,023.23
Note: Josam 60214A.		
<i>For Flange And Clamp Device, Add</i>	1,579.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	17,772.96	1,227.88
<i>For Flange And Clamp Device, Add</i>	2,028.82	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A.,	23,037.68	1,432.52
<i>For Flange And Clamp Device, Add</i>	2,403.02	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	29,731.06	1,637.16
<i>For Flange And Clamp Device, Add</i>	2,812.73	
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0001)</small> Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,139.67	267.46
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,037.51	340.40
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	6,590.68	389.02
22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	2,743.00	97.26
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,352.91	
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	3,221.62	218.83
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,432.27	
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	3,445.85	243.14
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,565.06	
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	4,193.48	267.46
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,692.42	
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	5,042.86	291.77
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,765.05	
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	5,229.92	340.40
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,946.16	
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	5,970.21	389.02
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,080.23	
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	6,979.64	340.40
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	6,026.41	267.46
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	6,986.87	291.77
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	6,037.37	340.40
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small> Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor.....	6,730.99	446.78
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor.....	7,708.75	446.78
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor.....	8,748.88	510.77
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor.....	9,939.47	721.34
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor.....	11,172.54	970.50
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor.....	16,778.67	1,276.86
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor.....	21,487.47	2,093.86
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,499.88	370.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,038.31	440.14
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,314.77	541.55
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,944.23	586.61
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,509.13	640.13
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	12,479.92	704.21
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	20,795.91	810.47
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	22,780.58	997.20
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	27,912.61	1,080.85
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	38,976.16	1,296.75
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	44,922.46	1,394.01
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	56,553.50	1,662.44
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	68,029.27	1,362.24
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	80,591.24	1,620.95
 22 13 19 33 Backwater Valves (22 13 19)		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	356.53	37.21
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	370.79	46.81
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	531.72	62.24
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	1,373.86	80.58
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,683.95	106.05
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	4,779.58	130.84
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	5,425.71	169.69
 22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	897.56	88.73
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,346.55	107.63
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,670.36	138.76
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,292.39	146.41
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,156.25	173.49
 22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,329.69	140.44
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,399.19	186.73
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,445.83	216.84
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,483.52	241.74
 22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	136.30	46.81
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	166.30	62.24
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	431.99	80.58
 22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	313.50	93.62
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	417.43	124.49
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	683.49	161.16
Note: Includes valve body, flapper assembly and collar.		
 22 13 19 36 Air-Admittance Valves (22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	212.43	18.16
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	252.77	18.16
 22 13 23 Sanitary Waste Interceptors (22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	1,094.11	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	1,095.40	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,514.84	183.63
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,514.84	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,609.80	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	348.20	62.81
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	356.23	66.90
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers (22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	191.53	85.68
22 13 29 Sanitary Sewerage Pumps (22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DEMING Series 4500) (22 13 29 13)		
Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,624.02	1,555.58
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,839.94	1,555.58
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,055.86	1,555.58
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,261.81	1,555.58
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,221.95	1,555.58
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,304.99	1,555.58
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,363.12	1,555.58
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,761.74	1,555.58
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,152.05	1,555.58
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,749.98	1,555.58
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,347.90	1,555.58
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,974.94	2,070.14
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,638.06	1,555.58
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,638.06	1,555.58
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,781.93	1,555.58
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,898.32	1,555.58
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,094.16	1,555.58
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,043.83	2,070.14
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,542.10	2,070.14
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	607.85	51.87
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	673.31	58.35
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	931.75	77.81



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0038	EA			40" Steel Sump Covers, Square Or Round.....	1,334.36	90.78
22 13 29 13-0039	EA			42" Steel Sump Covers, Square Or Round.....	1,427.73	94.02
22 13 29 13-0040	EA			48" Steel Sump Covers, Square Or Round.....	1,524.32	97.26
22 13 29 13-0041	EA			54" Steel Sump Covers, Square Or Round.....	1,936.03	116.71
22 13 29 13-0042	EA			60" Steel Sump Covers, Square Or Round.....	2,599.35	129.67
22 13 29 13-0043	EA			72" Steel Sump Covers, Square Or Round.....	3,295.92	162.10
22 13 29 13-0044	EA			84" Steel Sump Covers, Square Or Round.....	4,167.48	178.30

22 13 29 16 Submersible Sewerage Pumps (22 13 29)

22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)

22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)

Note: Includes 25' cord.

22 13 29 16-0003	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,122.53	94.36
22 13 29 16-0004	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,188.84	94.36
22 13 29 16-0005	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,168.44	94.36
22 13 29 16-0006	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,266.21	94.36
22 13 29 16-0007	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,266.21	94.36
22 13 29 16-0008	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,362.15	117.95
22 13 29 16-0009	EA			1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,448.87	117.95
22 13 29 16-0010	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,459.92	117.95

22 13 29 16-0011 Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)

Note: Includes 20' cord.

22 13 29 16-0012	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,141.23	94.36
22 13 29 16-0013	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,236.45	94.36
22 13 29 16-0014	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,191.39	94.36
22 13 29 16-0015	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,283.22	94.36
22 13 29 16-0016	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,365.68	94.36
22 13 29 16-0017	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,309.44	117.95
22 13 29 16-0018	EA			1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,408.06	117.95
22 13 29 16-0019	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,407.21	117.95
22 13 29 16-0020	EA			1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,679.68	190.14
22 13 29 16-0021	EA			1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,763.00	190.14
22 13 29 16-0022	EA			1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,777.46	190.14
22 13 29 16-0023	EA			2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,840.08	232.39
22 13 29 16-0024	EA			2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,935.30	232.39
22 13 29 16-0025	EA			2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,937.85	232.39

22 13 29 16-0026 Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)

Note: Includes 20' cord.

22 13 29 16-0027	EA			1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,331.68	94.36
22 13 29 16-0028	EA			1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,493.22	94.36
22 13 29 16-0029	EA			1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	1,490.53	117.95
22 13 29 16-0030	EA			1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	1,588.30	117.95
22 13 29 16-0031	EA			1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,874.38	190.14
22 13 29 16-0032	EA			1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,972.15	190.14
22 13 29 16-0033	EA			2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,035.62	232.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,133.40	232.39
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller <small>(22 13 29 16)</small>		
Note: Includes 25' of cord with pump.		
22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,166.63	117.95
22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,401.77	172.42
22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,674.39	210.73
22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,876.91	255.43
22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,362.15	300.13
22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,880.47	344.83
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof <small>(22 13 29 16)</small>		
Note: Includes 25' of cord with pump.		
22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,596.72	422.67
22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,186.82	422.67
22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,186.82	422.67
22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,957.06	563.55
22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,547.17	563.55
22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,547.17	563.55
22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,401.95	704.44
22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,992.05	704.44
22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,992.05	704.44
22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,767.40	845.34
22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,357.51	845.34
22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,357.51	845.34
22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,514.59	986.23
22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,104.69	986.23
22 13 29 16-0057 EA 5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,104.69	986.23
22 13 29 16-0058 EA 7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,861.27	1,127.12
22 13 29 16-0059 EA 7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,861.27	1,127.12
22 13 29 16-0060 Submersible Sewage Pump Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0061 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	573.22	102.62
Note: Includes alarm horn, warning light and alarm float switch.		
22 13 29 16-0062 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	589.46	102.62
Note: Includes alarm horn, warning light, and alarm float switch.		
22 13 29 16-0063 EA Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,111.96	136.83
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.		
22 13 29 16-0064 EA Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,527.86	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0065 EA Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,407.37	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0066 EA Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,560.51	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0067 EA Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	5,657.51	171.03
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0068 EA Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,786.31	171.03
Note: Includes alarm horn and warning light. Control float switches not included.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0069	EA		Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps .....1,247.79	1,247.79	171.03
			Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0070	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps .....1,361.52	1,361.52	171.03
			Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0071	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps .....1,311.97	1,311.97	171.03
			Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0072	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps .....1,414.46	1,414.46	171.03
			Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0073	EA		Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps .....2,329.87	2,329.87	171.03
			Note: Includes alarm horn and warning light. Float switches not included..		
22 13 29 16-0074	EA		Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure .....462.57	462.57	68.41
			Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075	EA		Variable Level (Clamp Type) Float Switch With 15' Cord .....104.15	104.15	34.21
			Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076	EA		Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only .....119.92	119.92	34.21
22 13 29 16-0077	EA		Variable Level (Adjustable Weight Type) Float Switch With 25' Cord .....125.99	125.99	34.21
			Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078	EA		Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only .....131.60	131.60	34.21
22 13 29 16-0079	EA		Float Switch Tree With (3) 15' Floats .....324.47	324.47	34.21
			Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080	EA		Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only .....366.35	366.35	34.21
22 13 29 16-0081	EA		Float Switch Tree And (4) Floats With 15' Cords .....358.27	358.27	34.21
			Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082	EA		Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only .....413.87	413.87	34.21
22 13 29 16-0083	EA		Float Switch Tree .....185.16	185.16	34.21
			Note: Tree only.		
22 13 29 16-0084	EA		Adjustable Weight For Float Switch .....55.62	55.62	17.10
22 13 29 16-0085	EA		Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge .....918.27	918.27	102.62
			Note: Lifting equipment not included.		
22 13 29 16-0086	EA		Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge .....1,421.28	1,421.28	136.83
			Note: Lifting equipment not included.		
22 13 29 16-0087	EA		Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge .....1,850.54	1,850.54	171.03
			Note: Lifting equipment not included.		
22 13 29 16-0088	EA		Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge .....1,967.37	1,967.37	102.62
22 13 29 16-0089	EA		Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge .....2,749.98	2,749.98	102.62
22 13 29 16-0090	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System .....294.01	294.01	68.41
22 13 29 16-0091	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems .....491.32	491.32	85.52
22 13 29 16-0092	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems .....505.25	505.25	102.62
22 13 29 16-0093	EA		12' Stainless Steel Lifting Cable .....145.31	145.31	34.21
22 13 29 16-0094	EA		Disconnect Fitting For 2" Horizontal Discharge .....261.94	261.94	34.21
			Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001		Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002		High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA	18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....118.91	118.91	
22 13 29 33-0004	EA	18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....147.44	147.44	
22 13 29 33-0005	EA	24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....292.89	292.89	
22 13 29 33-0006	EA	24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....398.63	398.63	
22 13 29 33-0007	EA	30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....504.37	504.37	
22 13 29 33-0008	EA	36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....582.53	582.53	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....332.43	332.43	
22 13 29 33-0011	EA	24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....656.75	656.75	
22 13 29 33-0012	EA	30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....1,165.40	1,165.40	
22 13 29 33-0013	EA	36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....1,561.61	1,561.61	
22 13 29 33-0014	EA	36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....1,797.02	1,797.02	
22 13 29 33-0015	EA	36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub .....1,898.09	1,898.09	
22 13 29 33-0016	EA	36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub .....2,226.20	2,226.20	
22 13 29 33-0017	EA	48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....2,583.49	2,583.49	

22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)
See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0002			Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001) Note: Dome free area is 124 square inches.		
22 14 26 13-0003	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	958.92 518.00 130.00 448.80 147.00 357.00	216.17
22 14 26 13-0004	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,066.98 518.00 130.00 448.80 147.00 357.00	259.35
22 14 26 13-0005	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,175.04 518.00 130.00 448.80 147.00 357.00	324.19
22 14 26 13-0006	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,563.37 518.00 130.00 448.80 147.00 357.00	389.02
22 14 26 13-0007	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,617.40 518.00 130.00 448.80 147.00 357.00	432.21
22 14 26 13-0008	EA		15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,885.15 518.00 130.00 448.80 147.00 357.00	453.86
22 14 26 13-0009	EA		15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,482.21 518.00 130.00 448.80 147.00 357.00	470.07
22 14 26 13-0010			Cast Iron Roof Drains With Expansion Joint (22 14 26 13-0001) Note: With polypropylene dome. Dome free area is 124 square inches.		
22 14 26 13-0011	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,451.58 518.00 130.00 147.00 357.00	216.17
22 14 26 13-0012	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,594.05 518.00 130.00 147.00 357.00	259.35
22 14 26 13-0013	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,769.13 518.00 130.00 147.00 357.00	324.19
22 14 26 13-0014	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,427.33 518.00 130.00 147.00 357.00	389.02
22 14 26 13-0015	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,606.34 518.00 130.00 147.00 357.00	432.21
22 14 26 13-0016			Cast Iron Roof Drains With Flat Bronze Promenade Top (22 14 26 13-0001)		
22 14 26 13-0017	EA		14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,936.24 197.00 130.00 147.00 357.00	216.17



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0018 EA 14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top.....	2,044.30	259.35
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0019 EA 14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top.....	2,152.36	324.19
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0020 EA 14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top.....	2,526.21	389.02
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0021 EA 14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top.....	2,580.24	432.21
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate (22 14 26 13-0001)		
22 14 26 13-0023 EA Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate.....	1,226.23	86.49
For Vandal Proof Grate, Add	33.00	
For Galvanized Cast Iron Parts, Add	128.00	
22 14 26 13-0024 EA Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate.....	1,269.45	108.02
For Vandal Proof Grate, Add	33.00	
For Galvanized Cast Iron Parts, Add	128.00	
22 14 26 13-0025 EA Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate.....	1,289.10	117.88
For Vandal Proof Grate, Add	33.00	
For Galvanized Cast Iron Parts, Add	128.00	
For Galvanized Iron Parts, Add	258.00	
22 14 26 13-0026 EA Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate.....	1,809.22	156.26
For Vandal Proof Grate, Add	33.00	
For Galvanized Iron Parts, Add	258.00	
22 14 26 13-0027 EA Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate.....	1,878.15	190.75
For Vandal Proof Grate, Add	33.00	
For Galvanized Iron Parts, Add	258.00	
22 14 26 13-0028 Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001)		
Note: Grate free area is 27 square inches.		
22 14 26 13-0029 EA 9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top.....	1,042.17	216.17
For Galvanized Iron Parts, Add	144.00	
For Deck Clamp Assembly, Add	80.40	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	93.60	
22 14 26 13-0030 EA 9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top.....	1,150.23	259.35
For Galvanized Iron Parts, Add	144.00	
For Deck Clamp Assembly, Add	80.40	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	93.60	
22 14 26 13-0031 EA 9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top.....	1,258.29	324.19
For Galvanized Iron Parts, Add	144.00	
For Deck Clamp Assembly, Add	80.40	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	93.60	
22 14 26 13-0032 Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)		
22 14 26 13-0033 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome	1,114.56	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0034 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome	1,222.62	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0035 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome	1,330.68	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0036 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome	1,719.01	389.02
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0037 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome	1,773.04	432.21
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0038 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome.....	2,040.80	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0039 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome.....	2,637.86	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)		
22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)		
22 14 26 13-0042 EA 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	1,141.71	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0043 EA 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	1,249.77	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0044 EA 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	1,357.83	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0045 EA 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,800.19	431.82
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0046 EA 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	2,068.20	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome.....	2,665.01	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)		
22 14 26 13-0049 Copolymer Retrofit Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome	853.97	259.35
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome	974.10	324.19
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome	1,184.45	389.02
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome	1,286.74	431.82
22 14 26 13-0054 Copolymer Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	962.55	259.35
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	1,077.85	324.19
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	1,295.44	389.02
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	1,363.95	431.82
22 14 26 13-0059 Aluminum Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	858.80	259.35
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	978.92	324.19
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	1,189.28	389.02
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	1,252.96	431.82
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	749.13	162.10
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	749.13	162.10
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	946.97	162.10



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16 Facility Area Drains (22 14 26)		
22 14 26 16-0001 Area Drain (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,743.19	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,776.85	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,812.27	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,849.18	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0006 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,711.84	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0007 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,745.50	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0008 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,780.92	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0009 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,817.83	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0010 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,564.82	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0011 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,598.48	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0012 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,633.90	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0013 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,670.81	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0014 EA 16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,469.05	156.13
For Ductile Iron Grate, Add	123.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0015 EA 16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,502.71	172.99
For Ductile Iron Grate, Add	123.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	258.50	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0016	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,538.13	190.75
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0017	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,575.04	209.17
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0018	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,702.03	156.13
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0019	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,735.69	172.99
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0020	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,771.11	190.75
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0021	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,808.02	209.17
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0022	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,187.78	156.13
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0023	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,221.44	172.99
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0024	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,256.86	190.75
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0025	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,293.77	209.17
			For Ductile Iron Grate, Add	123.50	
			For Primer Tap, Add	36.00	
			For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0026	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,256.77	156.13
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0027	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,290.43	172.99
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0028	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,325.85	190.75
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0029	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	785.69	156.13
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0030	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	819.35	172.99
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0031	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	854.77	190.75
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0032	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,188.16	156.13
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0033	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,221.82	172.99
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0034	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,257.24	190.75
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	



Plumbing	22
Plumbing Piping	22 10
Facility Storm Drainage	22 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0035	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,664.77	156.13
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0036	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,698.43	172.99
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0037	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,733.85	190.75
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0038	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,404.74	156.13
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0039	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,438.40	172.99
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,473.82	190.75
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,445.24	156.13
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,478.90	172.99
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,514.32	190.75
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	307.50	

22 14 26 19 Facility Trench Drains (22 14 26)

22 14 26 19-0001			Trench Drain (22 14 26 19) Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,082.80	156.13
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	
22 14 26 19-0003	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,116.46	172.99
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	
22 14 26 19-0004	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,151.88	190.75
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	
22 14 26 19-0005	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	684.88	156.13
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	
22 14 26 19-0006	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	718.54	172.99
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	
22 14 26 19-0007	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	753.96	190.75
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	
22 14 26 19-0008	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,028.58	156.13
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	66.00	
			For Galvanized Cast Iron Parts, Add	98.25	

22 Plumbing

22 10 Plumbing Piping

22 14 Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0009	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,062.24	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0010	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,097.66	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0011	EA		6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	925.99	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0012	EA		6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	528.07	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0013	EA		6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	871.77	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0014	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,678.37	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,712.03	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0016	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,747.45	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,186.00	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,219.66	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,255.08	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,611.03	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0021 EA 12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,644.69	172.99
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
<i>For Sediment Bucket, Add</i>	116.00	
<i>For Galvanized Sediment Bucket, Add</i>	188.50	
<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0022 EA 12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,680.11	190.75
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
<i>For Sediment Bucket, Add</i>	116.00	
<i>For Galvanized Sediment Bucket, Add</i>	188.50	
<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0023 EA 12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,416.00	156.13
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
<i>For Sediment Bucket, Add</i>	116.00	
<i>For Galvanized Sediment Bucket, Add</i>	188.50	
<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0024 EA 12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,449.66	172.99
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
<i>For Sediment Bucket, Add</i>	116.00	
<i>For Galvanized Sediment Bucket, Add</i>	188.50	
<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0025 EA 12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,485.08	190.75
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
<i>For Sediment Bucket, Add</i>	116.00	
<i>For Galvanized Sediment Bucket, Add</i>	188.50	
<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0026 EA 12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,521.54	77.81
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0027 EA 12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,029.17	77.81
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0028 EA 12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,454.20	77.81
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0029 EA 12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,259.17	77.81
<i>For Vandal Proof Screws, Add</i>	48.50	
<i>For Ductile Iron Grate, Add</i>	181.50	
<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	

22 14 29 Sump Pumps (22 14)

See CSI section 22 11 16 00-0000 for pipe extensions into well.

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)

22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002 EA 1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	5,505.82	376.23
<i>For Explosion Proof Motor, Add</i>	250.06	
22 14 29 13-0003 EA 1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	5,868.32	455.36
<i>For Explosion Proof Motor, Add</i>	277.99	
22 14 29 13-0004 EA 2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	6,722.05	540.99
<i>For Explosion Proof Motor, Add</i>	359.13	
22 14 29 13-0005 EA 3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	7,243.02	665.53
<i>For Explosion Proof Motor, Add</i>	407.01	
22 14 29 13-0006 EA 5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	7,665.64	721.32
<i>For Explosion Proof Motor, Add</i>	594.55	
22 14 29 13-0007 EA 10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	9,098.71	865.32
<i>For Explosion Proof Motor, Add</i>	674.36	
22 14 29 13-0008 EA 15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	10,546.26	896.24
<i>For Explosion Proof Motor, Add</i>	1,105.31	
22 14 29 13-0009 EA 20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	12,509.70	996.78
<i>For Explosion Proof Motor, Add</i>	1,467.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 13-0010	EA		30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	13,563.46 1,902.04	1,162.50
22 14 29 13-0011	EA		50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	18,104.03 2,477.98	1,395.49
22 14 29 13-0012	EA		60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	24,835.28 3,927.79	1,549.99
22 14 29 13-0013			Extra Column Assemblies <small>(22 14 29 13)</small>		
22 14 29 13-0014	EA		1-1/2" Diameter x 5' Long Extra Column Assembly	815.72	
22 14 29 13-0015	EA		2" Diameter x 5' Long Extra Column Assembly	892.59	
22 14 29 13-0016	EA		2-1/2" Diameter x 5' Long Extra Column Assembly	976.70	
22 14 29 13-0017	EA		3" Diameter x 5' Long Extra Column Assembly	1,172.72	
22 14 29 13-0018	EA		4" Diameter x 5' Long Extra Column Assembly	1,310.79	
22 14 29 13-0019	EA		5" Diameter x 5' Long Extra Column Assembly	1,334.66	
22 14 29 13-0020	EA		6" Diameter x 5' Long Extra Column Assembly	1,498.29	
22 14 29 13-0021	EA		8" Diameter x 5' Long Extra Column Assembly	1,639.48	
22 14 29 13-0022			Support Plate <small>(22 14 29 13)</small>		
22 14 29 13-0023	EA		24" Steel Support Plate, Round Or Square	607.85	51.87
22 14 29 13-0024	EA		30" Steel Support Plate, Round Or Square	673.31	58.35
22 14 29 13-0025	EA		36" Steel Support Plate, Round Or Square	931.75	77.81
22 14 29 13-0026	EA		40" Steel Support Plate, Round Or Square	1,334.36	90.78
22 14 29 13-0027	EA		42" Steel Support Plate, Round Or Square	1,427.73	94.02
22 14 29 13-0028	EA		48" Steel Support Plate, Round Or Square	1,524.19	97.26
22 14 29 13-0029	EA		54" Steel Support Plate, Round Or Square	1,936.03	116.71
22 14 29 13-0030	EA		60" Steel Support Plate, Round Or Square	2,599.35	129.67
22 14 29 13-0031	EA		72" Steel Support Plate, Round Or Square	3,463.33	162.10
22 14 29 13-0032	EA		84" Steel Support Plate, Round Or Square	4,167.48	178.30
22 14 29 16			Submersible Sump Pumps <small>(22 14 29)</small>		
22 14 29 16-0001			Submersible Sump Pump With Vortex Impeller <small>(22 14 29 16)</small>		
22 14 29 16-0002			Submersible Sump Pump With Cast Iron Vortex Impeller <small>(22 14 29 16-0001)</small>		
22 14 29 16-0003	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	459.21	84.51
22 14 29 16-0004	EA		1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	497.89	84.51
22 14 29 16-0005	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	730.42	89.43
22 14 29 16-0006	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	791.62	89.43
22 14 29 16-0007			Submersible Sump Pump With Bronze Vortex Impeller <small>(22 14 29 16-0001)</small>		
Note: Includes 20' of cord with pump.					
22 14 29 16-0008	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,157.11	89.43
22 14 29 16-0009	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,249.33	89.43
22 14 29 16-0010	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,318.29	98.59
22 14 29 16-0011	EA		1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,416.89	98.59
22 14 29 16-0012	EA		1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,471.89	112.67
22 14 29 16-0013	EA		1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,568.78	112.67
22 14 29 16-0014	EA		2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,593.67	133.80
22 14 29 16-0015	EA		2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,677.82	133.80
22 14 29 16-0016			Submersible Sump Pump With Semi-Open Impeller <small>(22 14 29 16)</small>		
Note: Includes 20' of cord with pump.					
22 14 29 16-0017	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	974.24	84.51
22 14 29 16-0018	EA		1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,002.73	84.51
22 14 29 16-0019	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,233.19	89.43
22 14 29 16-0020	EA		1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,253.21	89.43
22 14 29 16-0021	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,488.27	94.36
22 14 29 16-0022	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,488.27	94.36
22 14 29 16-0023	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,573.20	98.59



Plumbing	22
Plumbing Piping	22 10
Facility Storm Drainage	22 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,573.20	98.59
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,795.63	112.67
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,795.63	112.67
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,089.13	133.80
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,054.48	133.80
22 14 29 19 Sump-Pump Basins and Pits (22 14 29)		
See CSI section 22 13 29 33-0000 for basins and pits.		
22 15 General Service Compressed-Air Systems (22 10)		
22 15 13 General Service Compressed-Air Piping (22 15)		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	63.14	19.72
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	69.84	23.94
22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	734.41	112.34
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	827.95	115.47
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,037.97	118.59
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,200.54	124.82
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,336.51	140.43
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,485.61	159.78
22 15 13 00-0012 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,091.93	202.84
22 15 13 00-0013 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,358.27	237.17
22 15 13 00-0014 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,561.05	253.39
22 15 13 00-0015 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,786.78	280.85
22 15 13 00-0016 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,136.06	312.06
22 15 13 00-0017 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,488.26	343.27
22 15 13 00-0018 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,682.68	380.71
22 15 13 00-0019 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,272.74	405.68
22 15 13 00-0020 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,107.77	421.28
22 15 13 00-0021 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,996.68	436.89
22 15 13 00-0022 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	6,644.73	452.49
22 15 13 00-0023 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	7,221.15	468.09
22 15 13 00-0024 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	8,056.80	499.30
22 15 13 00-0025 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	9,439.36	624.12
22 15 13 00-0026 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	11,914.08	748.94
22 15 13 00-0027 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	13,296.66	873.77
22 15 13 00-0028 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	15,627.22	998.60
22 15 13 00-0029 Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0030 EA 0-60 SCFM Oil/Water Separator.....	648.69	45.09
22 15 13 00-0031 EA 85 SCFM Oil/Water Separator.....	865.81	52.83
22 15 13 00-0032 EA 190 SCFM Oil/Water Separator.....	1,010.94	59.88
22 15 13 00-0033 EA 245 SCFM Oil/Water Separator.....	1,266.53	70.45
22 15 13 00-0034 EA 320 SCFM Oil/Water Separator.....	1,505.86	84.53
22 15 13 00-0035 EA 700 SCFM Oil/Water Separator.....	3,038.92	176.11
22 15 13 00-0036 Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0037 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	128.78	37.44
22 15 13 00-0038 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	178.49	49.93
22 15 13 00-0039 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	291.99	62.41
22 15 13 00-0040 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	374.79	93.62
22 15 13 00-0041 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	511.63	109.22
22 15 13 00-0042 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	542.83	124.82
22 15 13 00-0043 Combination Air System; Filter Regulator Lubricator (22 15 13)		
22 15 13 00-0044 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	472.23	112.34
22 15 13 00-0045 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	590.81	149.79
22 15 13 00-0046 Heatless Desiccant Air Dryers (22 15 13)		
22 15 13 00-0047 EA 5 SCFM Heatless Desiccant Air Dryer.....	2,471.17	112.34
22 15 13 00-0048 EA 10 SCFM Heatless Desiccant Air Dryer.....	2,965.45	124.82
22 15 13 00-0049 EA 15 SCFM Heatless Desiccant Air Dryer.....	3,000.62	137.31
22 15 13 00-0050 EA 20 SCFM Heatless Desiccant Air Dryer.....	3,426.94	156.03
22 15 13 00-0051 EA 30 SCFM Heatless Desiccant Air Dryer.....	4,705.22	187.23

22	Plumbing
22 10	Plumbing Piping
22 15	General Service Compressed-Air Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0052 EA 50 SCFM Heatless Desiccant Air Dryer	4,682.96	249.64
22 15 13 00-0053 EA 85 SCFM Heatless Desiccant Air Dryer	6,277.09	312.06
22 15 13 00-0054 EA 100 SCFM Heatless Desiccant Air Dryer	6,685.58	374.48
22 15 13 00-0055 EA 125 SCFM Heatless Desiccant Air Dryer	7,658.50	436.89
22 15 13 00-0056 EA 175 SCFM Heatless Desiccant Air Dryer	8,792.91	499.30
22 15 13 00-0057 EA 200 SCFM Heatless Desiccant Air Dryer	9,463.08	561.71
22 15 13 00-0058 EA 300 SCFM Heatless Desiccant Air Dryer	11,536.29	624.12
22 15 13 00-0059 EA 400 SCFM Heatless Desiccant Air Dryer	12,846.05	748.94
22 15 13 00-0060 EA 500 SCFM Heatless Desiccant Air Dryer	14,851.88	873.77
22 15 13 00-0061 EA 600 SCFM Heatless Desiccant Air Dryer	17,131.48	998.60
22 15 13 00-0062 Air Cooled Aftercoolers (22 15 13)		
22 15 13 00-0063 EA 20 SCFM Air-Cooled Aftercooler	651.17	78.01
22 15 13 00-0064 EA 35 SCFM Air-Cooled Aftercooler	873.11	93.62
22 15 13 00-0065 EA 43 SCFM Air-Cooled Aftercooler	962.56	109.22
22 15 13 00-0066 EA 70 SCFM Air-Cooled Aftercooler	1,171.41	124.82
22 15 13 00-0067 EA 125 SCFM Air-Cooled Aftercooler	1,613.26	140.43
22 15 13 00-0068 EA 185 SCFM Air-Cooled Aftercooler	1,810.49	156.03
22 15 13 00-0069 EA 260 SCFM Air-Cooled Aftercooler	3,441.82	187.23
22 15 13 00-0070 EA 365 SCFM Air-Cooled Aftercooler	3,610.82	218.44
22 15 13 00-0071 EA 560 SCFM Air-Cooled Aftercooler	3,778.66	249.64
22 15 13 00-0072 EA 650 SCFM Air-Cooled Aftercooler	4,424.72	280.85
22 15 13 00-0073 EA 750 SCFM Air-Cooled Aftercooler	4,840.11	312.06
22 15 13 00-0074 EA 900 SCFM Air-Cooled Aftercooler	5,542.08	343.27
22 15 13 00-0075 EA 1,100 SCFM Air-Cooled Aftercooler	7,078.17	374.48
22 15 13 00-0076 EA 1,460 SCFM Air-Cooled Aftercooler	8,083.61	405.68
22 15 13 00-0077 EA 1,800 SCFM Air-Cooled Aftercooler	8,357.18	436.89
22 15 13 00-0078 EA 2,500 SCFM Air-Cooled Aftercooler	8,961.31	468.09
22 15 13 00-0079 Compressed Air Coalescing Filters (22 15 13)		
22 15 13 00-0080 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0081 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	237.20	45.79
22 15 13 00-0082 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	277.97	45.79
22 15 13 00-0083 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating	305.17	52.83
22 15 13 00-0084 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	351.24	60.58
22 15 13 00-0085 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	407.62	66.92
22 15 13 00-0086 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating	464.90	81.01
22 15 13 00-0087 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating	545.32	88.05
22 15 13 00-0088 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating	607.43	105.67
22 15 13 00-0089 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	782.71	140.89
22 15 13 00-0090 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	893.66	158.50
22 15 13 00-0091 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0092 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating	283.81	45.79
22 15 13 00-0093 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating	309.52	52.83
22 15 13 00-0094 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating	355.32	60.58
22 15 13 00-0095 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating	415.77	59.88
22 15 13 00-0096 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	474.22	81.01
22 15 13 00-0097 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	535.79	88.05
22 15 13 00-0098 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating	617.91	105.67
22 15 13 00-0099 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	800.19	140.89
22 15 13 00-0100 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	916.95	158.50
22 15 13 00-0101 Compressed Air Storage Tanks (22 15 13)		
22 15 13 00-0102 Horizontal Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0103 EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME	403.59	99.86
22 15 13 00-0104 EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME	603.10	109.22
22 15 13 00-0105 EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME	638.37	114.84
22 15 13 00-0106 EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME	723.49	124.82
22 15 13 00-0107 EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME	948.38	168.51
22 15 13 00-0108 EA 80 Gallon Horizontal Compressed Air Storage Tank, ASME	1,133.44	187.23
22 15 13 00-0109 EA 120 Gallon Horizontal Compressed Air Storage Tank, ASME	1,656.01	218.44
22 15 13 00-0110 EA 200 Gallon Horizontal Compressed Air Storage Tank, ASME	2,415.61	249.64
22 15 13 00-0111 EA 240 Gallon Horizontal Compressed Air Storage Tank, ASME	2,683.87	265.25
22 15 13 00-0112 EA 325 Gallon Horizontal Compressed Air Storage Tank, ASME	3,807.23	280.85
22 15 13 00-0113 EA 400 Gallon Horizontal Compressed Air Storage Tank, ASME	4,986.04	327.67
22 15 13 00-0114 EA 660 Gallon Horizontal Compressed Air Storage Tank, ASME	7,114.95	390.08
22 15 13 00-0115 Vertical Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0116 EA 10 Gallon Vertical Compressed Air Storage Tank, ASME	560.34	99.86
22 15 13 00-0117 EA 15 Gallon Vertical Compressed Air Storage Tank, ASME	591.08	109.22
22 15 13 00-0118 EA 20 Gallon Vertical Compressed Air Storage Tank, ASME	638.37	114.84
22 15 13 00-0119 EA 30 Gallon Vertical Compressed Air Storage Tank, ASME	747.29	124.82
22 15 13 00-0120 EA 60 Gallon Vertical Compressed Air Storage Tank, ASME	1,019.78	168.51



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0121	EA		80 Gallon Vertical Compressed Air Storage Tank, ASME	1,167.83	187.23
22 15 13 00-0122	EA		120 Gallon Vertical Compressed Air Storage Tank, ASME	1,581.24	218.44
22 15 13 00-0123	EA		200 Gallon Vertical Compressed Air Storage Tank, ASME	2,261.51	249.64
22 15 13 00-0124	EA		240 Gallon Vertical Compressed Air Storage Tank, ASME	2,487.44	265.25
22 15 13 00-0125	EA		325 Gallon Vertical Compressed Air Storage Tank, ASME	3,326.43	280.85
22 15 13 00-0126	EA		400 Gallon Vertical Compressed Air Storage Tank, ASME	4,239.84	327.67
22 15 13 00-0127	EA		500 Gallon Vertical Compressed Air Storage Tank, ASME	5,480.26	358.87
22 15 13 00-0128	EA		660 Gallon Vertical Compressed Air Storage Tank, ASME	8,973.27	405.68

22 15 19 General Service Packaged Air Compressors and Receivers (22 15)

Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

22 15 19 13 General Service Packaged Reciprocating Air Compressors (22 15 19)

22 15 19 13-0001 Single Stage Compressor (22 15 19 13)

Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.

22 15 19 13-0002	EA	1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	2,871.10	442.88
22 15 19 13-0003	EA	3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,016.97	511.15
22 15 19 13-0004	EA	1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,449.98	603.65
22 15 19 13-0005	EA	2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,922.80	666.07
22 15 19 13-0006	EA	3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	4,758.91	703.51
22 15 19 13-0007	EA	3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,076.47	728.48
22 15 19 13-0008	EA	5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,705.78	832.57
22 15 19 13-0009	EA	5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	6,116.27	882.51
22 15 19 13-0010	EA	7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	7,317.15	999.09

22 15 19 13-0011 Two Stage Compressor (22 15 19 13)

Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.

22 15 19 13-0012	EA	1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure	5,465.38	778.40
22 15 19 13-0013	EA	2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure	5,895.72	915.83
22 15 19 13-0014	EA	3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure	6,177.41	999.09
22 15 19 13-0015	EA	5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure	7,121.64	1,332.12
22 15 19 13-0016	EA	5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure	7,640.80	1,332.12
22 15 19 13-0017	EA	7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure	8,286.93	1,665.16
22 15 19 13-0018	EA	7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure	8,757.80	1,665.16
22 15 19 13-0019	EA	10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure	11,209.85	2,059.60
22 15 19 13-0020	EA	10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure	12,056.76	2,122.01
22 15 19 13-0021	EA	15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure	13,017.18	2,480.00
22 15 19 13-0022	EA	20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure	19,293.54	2,807.30
22 15 19 13-0023	EA	25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure	20,780.97	3,172.15
22 15 19 13-0024	EA	30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure	23,151.30	3,505.94
22 15 19 13-0025	EA	30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure	25,195.91	3,842.34

22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)

22 15 19 19-0001 Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)

Note: Oil flooded.

22 15 19 19-0002	EA	3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	9,268.00	1,124.30
22 15 19 19-0003	EA	5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	10,423.16	1,499.06
22 15 19 19-0004	EA	7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	13,348.30	1,879.47
22 15 19 19-0005	EA	10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	15,528.97	2,395.12
22 15 19 19-0006	EA	15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	17,775.53	2,817.79
22 15 19 19-0007	EA	20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	21,495.10	3,170.01
22 15 19 19-0008	EA	25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	23,579.92	3,522.24
22 15 19 19-0009	EA	30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	28,246.08	3,944.90
22 15 19 19-0010	EA	40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	31,013.38	4,226.69
22 15 19 19-0011	EA	50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	34,751.96	4,554.96
22 15 19 19-0012	EA	60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	44,848.42	4,931.14
22 15 19 19-0013	EA	75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	49,680.29	5,212.91
22 15 19 19-0014	EA	100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	78,885.48	5,635.59
22 15 19 19-0015	EA	125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	98,120.10	6,093.47
22 15 19 19-0016	EA	150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	113,812.77	6,558.41
22 15 19 19-0017	EA	220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	147,601.70	7,044.48
22 15 19 19-0018	EA	250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	167,540.90	7,495.33

22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver (22 15 19 19)

Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

22 15 19 19-0020	EA	5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	11,599.12	1,499.06
22 15 19 19-0021	EA	5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	12,294.55	1,499.06

22 Plumbing**22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	13,901.26	1,879.47
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	14,661.89	1,879.47
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	15,833.22	2,395.12
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	16,637.31	2,395.12
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,026.66	2,817.79
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,895.95	2,817.79
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	30,651.65	3,170.01
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	33,062.44	3,522.24
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	35,255.95	3,944.90

22 30 Plumbing Equipment ⁽²²⁾**22 31 Domestic Water Softeners** ^(22 30)**22 31 16 Commercial Domestic Water Softeners** ^(22 31)22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) ^(22 31 16)22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0001)22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11)	4,352.80	356.61
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11)	4,549.86	372.81
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11)	4,906.23	389.02
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11)	5,632.58	405.24
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11)	5,999.57	421.45

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11)	6,469.34	389.02
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11)	6,802.70	405.24
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11)	7,171.46	421.45
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11)	8,499.69	437.65
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11)	9,436.69	453.86
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11)	11,460.63	470.07

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11)	9,758.98	405.24
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11)	10,115.35	421.45
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11)	11,447.12	437.65
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11)	12,384.12	453.86
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11)	14,517.81	470.07
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11)	19,101.49	486.29
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11)	22,322.10	502.49



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Softeners	22 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11).....	23,411.45	470.07
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11).....	27,026.81	486.29
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11).....	30,204.93	502.49
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11).....	37,989.18	518.70
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11).....	42,050.64	534.91
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21).....	15,997.13	607.85
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21).....	16,706.06	632.16
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21).....	19,001.10	656.48
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21).....	20,761.55	680.80
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21).....	25,299.47	705.10
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21).....	33,445.14	729.42
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21).....	39,328.43	753.74
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21).....	42,938.05	705.10
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21).....	49,299.32	729.42
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21).....	55,379.11	753.74
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21).....	70,402.12	778.05
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21).....	78,581.41	802.37
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small> 22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21).....	5,746.77	534.91
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21).....	6,124.66	559.23
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21).....	6,670.72	583.54
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21).....	7,972.68	607.85
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	8,803.75	632.16
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21).....	11,083.90	583.54
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21).....	11,684.85	607.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	12,569.03	632.16
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	14,363.10	656.48
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	16,183.74	680.80
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	20,210.06	705.10

22 32 Domestic Water Filtration Equipment (22 30)

22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)

22 32 16 00-0001 Commercial Water Filters Housings (22 32 16)

22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)

22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1)	2,272.39	228.94
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1)	2,323.54	246.56
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2)	2,473.82	264.17
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3)	2,733.85	281.78
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4)	2,820.42	299.39
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4)	3,397.33	317.00
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3)	9,284.93	334.61
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4)	10,784.13	352.23
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3)	13,655.27	369.83
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4)	15,136.77	387.45

22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)

22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50)	12.27	2.82
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20)	12.27	2.82
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10)	12.27	2.82
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5)	10.50	2.82
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1)	12.71	2.82
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50)	12.71	2.82
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20)	13.60	2.82
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5)	16.69	2.82
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1)	13.60	2.82
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50)	15.81	2.82
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20)	15.81	2.82
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5)	15.81	2.82
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1)	17.14	2.82
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50)	22.00	2.82
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20)	20.23	2.82
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5)	20.23	2.82
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1)	22.00	2.82

22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50)	20.68	2.82
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20)	20.68	2.82
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5)	21.12	2.82
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1)	22.45	2.82
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB)	33.07	2.82
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50)	31.74	2.82
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20)	31.74	2.82
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5)	31.74	2.82
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1)	41.48	2.82
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB)	58.29	2.82
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50)	49.00	2.82
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20)	67.59	2.82
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5)	70.24	2.82
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1)	79.09	2.82

22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Filtration Equipment	22 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	1,804.33	211.34
22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)		
22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	557.06	2.82
22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	116.71	2.82
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	115.83	2.82
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	115.83	2.82
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	132.64	2.82
22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	306.57	2.82
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	287.98	2.82
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	313.65	2.82
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	328.70	2.82
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	349.94	2.82
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	379.15	2.82
22 33 Electric Domestic Water Heaters (22 30)		
22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)		
22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	383.13	70.43
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	538.36	70.43
22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	520.72	105.63
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	712.64	140.84
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	1,211.58	246.48
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	1,784.72	281.68
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	983.00	140.84
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	1,361.68	211.27
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	1,548.47	281.68
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	1,597.11	281.68
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	1,643.06	281.68
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	1,710.62	281.68
22 33 30 Residential, Electric Domestic Water Heaters (22 33)		
22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)		
22 33 30 13-0001 Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 13)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002 EA 2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	800.33	221.83
22 33 30 13-0003 EA 10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	947.40	235.92
22 33 30 13-0004 EA 20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,087.45	246.48
22 33 30 16 Residential, Storage Electric Domestic Water Heaters (22 33 30)		
22 33 30 16-0001 Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		

22 Plumbing**22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater.....	1,145.57	246.48
22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater.....	1,098.55	253.52
22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater.....	1,091.83	260.56
22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater.....	1,192.89	264.09
22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater.....	1,624.30	271.12
22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater.....	1,660.28	281.68
22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater.....	2,135.71	299.29
22 33 30 16-0009 Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,212.31	246.48
22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,172.88	253.52
22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,234.53	260.56
22 33 30 16-0013 High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) (22 33 30 16)		
Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,250.84	253.52
22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,350.47	260.56
22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,613.82	271.12
22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,741.96	281.68
22 33 30 16-0018 Water Heater Accessories (22 33 30 16)		
22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters.....	90.67	14.09
22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	104.62	14.09
22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	190.77	14.09
22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters.....	251.40	14.09
22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	67.49	10.56
22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	73.07	10.56
22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	76.80	10.56
22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	89.83	10.56
22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	39.47	10.56
22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	42.45	10.56
22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	46.64	10.56
22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	52.02	10.56
22 33 33 Light-Commercial Electric Domestic Water Heaters (22 33)		
22 33 33 00-0001 Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) (22 33 33)		
Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	4,905.91	246.48
22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	5,091.72	246.48
22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	5,293.02	246.48
22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	5,363.44	281.68
22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	5,595.71	281.68
22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	5,967.33	281.68
22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	6,215.08	281.68
22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	6,416.38	281.68
22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	6,633.16	281.68
22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	5,827.97	281.68
22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	6,044.75	281.68
22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	6,292.50	281.68
22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	6,493.80	281.68
22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	6,710.58	281.68
22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	8,305.47	281.68
22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	6,386.89	352.11
22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	6,588.19	352.11
22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	6,835.94	352.11
22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	7,052.72	352.11
22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24).....	8,663.09	352.11
22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30).....	9,406.34	352.11
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36).....	10,134.10	352.11
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9).....	7,394.86	422.53
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12).....	7,596.16	422.53
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15).....	7,797.46	422.53
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18).....	8,014.24	422.53
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24).....	9,671.06	422.53
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30).....	10,414.31	422.53
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36).....	11,142.08	422.53
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45).....	12,458.25	422.53
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54).....	13,046.65	422.53
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60).....	15,090.58	422.53
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75).....	17,722.92	422.53
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90).....	22,151.45	422.53
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9).....	8,388.83	563.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	8,621.10	563.37
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	8,837.88	563.37
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	9,023.69	563.37
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	10,665.03	563.37
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	11,408.28	563.37
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	12,120.56	563.37
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	13,467.70	563.37
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	14,040.62	563.37
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	16,100.04	563.37
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	18,747.86	563.37
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	23,160.90	563.37
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	9,381.31	633.79
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	9,598.09	633.79
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	9,783.91	633.79
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	11,440.73	633.79
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	12,106.56	633.79
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	12,880.78	633.79
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	14,227.91	633.79
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	14,816.32	633.79
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	16,751.86	633.79
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	19,508.08	633.79
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	23,921.12	633.79
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	10,544.12	704.21
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	10,791.87	704.21
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	12,402.24	704.21
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	13,145.49	704.21
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	13,873.25	704.21
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	15,189.42	704.21
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	15,793.31	704.21
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	17,821.76	704.21
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	20,454.10	704.21
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	24,898.11	704.21
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	11,383.25	845.06
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	11,600.03	845.06
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	13,210.40	845.06
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	13,922.68	845.06
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	14,681.41	845.06
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	15,997.58	845.06
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	16,555.02	845.06
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	18,645.41	845.06
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	21,293.23	845.06
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	25,690.79	845.06
22 33 33 00-0079	Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) <small>(22 33 33)</small>	
	Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.	
22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,452.90	246.48
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,550.45	246.48
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,693.65	281.68
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	2,808.52	281.68
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	3,259.05	352.11
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	3,632.17	422.53
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	4,423.22	633.79
22 33 33 00-0087	Water Heater Accessories <small>(22 33 33)</small>	
22 33 33 00-0088 EA Up To 80 Gallon Water Heater Strap	45.26	
	Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts	
22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap	64.79	
	Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts	
22 33 33 00-0090	Removal And Reinstallation Of Water Heater <small>(22 33 33)</small>	
	Note: Includes storage and cleaning.	
22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon	469.48	
22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon	1,408.43	
22 34	Fuel-Fired Domestic Water Heaters <small>(22 30)</small>	
22 34 13	Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34)</small>	
22 34 13 00-0001	Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13)</small>	
22 34 13 00-0002	Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0001)</small>	
	Note: Includes vent connection. Excludes vent.	
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	1,546.64	281.68
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	1,656.70	285.20
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN)	1,801.89	292.25

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN).....	2,068.67	299.29
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN).....	2,471.11	316.89
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN).....	2,517.93	316.89
22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN).....	1,649.65	281.68
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN).....	2,471.11	316.89
22 34 30 Residential Gas Domestic Water Heaters (22 34)		
22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30)		
22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30).....	1,211.07	271.12
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40).....	1,199.88	278.16
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50).....	1,521.66	285.20
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65).....	1,632.43	292.25
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75).....	1,765.36	299.29
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100).....	2,500.75	316.89
22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30)		
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40).....	2,024.33	278.16
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50).....	2,279.74	285.20
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75).....	2,896.20	292.25
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30)		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40).....	1,861.34	278.16
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50).....	1,934.89	285.20
22 34 36 Commercial Gas Domestic Water Heaters (22 34)		
22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters (22 34 36)		
22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 13) Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120).....	5,489.87	422.53
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154).....	5,888.14	492.95
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180).....	7,254.49	563.37
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199).....	6,325.56	563.37
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200).....	7,216.55	563.37
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A).....	9,536.40	619.71
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250).....	7,047.27	633.79
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A).....	10,291.84	697.17
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251).....	7,150.22	633.79
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....	9,838.39	697.17
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275).....	7,971.14	774.64
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....	10,822.32	852.10
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305).....	8,902.57	774.64
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....	10,883.59	852.10
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365).....	8,675.80	845.06
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....	12,006.71	929.57
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400).....	10,869.50	845.06
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....	14,114.67	929.57
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500).....	14,049.73	915.48
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151).....	7,040.12	492.95
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A).....	8,413.28	542.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201)	7,352.53	563.37
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A)	8,776.55	619.71
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	1,929.71	352.11
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	2,089.03	352.11
22 34 36 13-0027 Removal And Reinstallation Of Water Heater <small>(22 34 36 13)</small> Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	640.19	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon	1,692.82	
22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) <small>(22 34 36 19)</small> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	4,521.68	422.53
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120)	6,347.76	422.53
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154)	7,726.43	492.95
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180)	8,075.61	563.37
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199)	8,112.38	563.37
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200)	8,283.96	563.37
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	9,695.72	619.71
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250)	9,147.88	633.79
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	11,198.76	697.17
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275)	9,662.42	774.64
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	11,778.25	852.10
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310)	9,858.51	774.64
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	11,900.81	852.10
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366)	11,041.08	845.06
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	12,938.13	929.57
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400)	13,259.35	845.06
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	15,266.70	929.57
22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) <small>(22 34 36 19)</small> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80)	3,565.74	422.53
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100)	4,693.26	422.53
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120)	5,624.68	422.53
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	8,013.25	464.78
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)	8,216.65	492.95
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	10,312.90	542.25
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)	8,382.00	563.37
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	10,663.92	619.71
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)	9,674.87	633.79
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	11,725.75	697.17
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	15,307.86	852.10
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	16,112.33	929.57
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	18,497.78	1,007.02

22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters (22 34 36)

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 23-0001 Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) <small>(22 34 36 23)</small> Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.		
22 34 36 23-0002 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	77,442.85	1,746.31
22 34 36 23-0003 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	93,542.28	1,855.46
22 34 36 23-0004 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	113,553.07	1,964.60
22 34 36 23-0005 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	135,647.34	2,073.74
22 34 36 23-0006 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	142,184.14	2,182.89
22 34 36 23-0007 Gas Fired Volume Water Heater (Laars Mighty Therm) <small>(22 34 36 23)</small>		
22 34 36 23-0008 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	10,064.34	1,037.87
22 34 36 23-0009 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	10,939.88	1,167.60
22 34 36 23-0010 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	12,704.49	1,427.07
22 34 36 23-0011 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	18,254.71	1,556.81
22 34 36 23-0012 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	20,129.35	1,816.27
22 34 36 23-0013 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	23,024.54	2,075.74
22 34 36 23-0014 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	25,456.00	2,335.21
22 34 36 23-0015 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	30,336.50	2,594.68
22 34 36 23-0016 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	31,494.69	2,724.40
22 34 36 23-0017 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	33,753.00	2,854.14
22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0002 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	41,159.61	1,971.95
22 34 36 26-0003 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	58,106.06	2,179.52
22 34 36 26-0004 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	63,046.41	2,283.31
22 34 36 26-0005 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	68,287.10	2,490.88
22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0007 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	36,512.49	1,971.95
22 34 36 26-0008 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	40,336.84	2,179.52
22 34 36 26-0009 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	44,091.86	2,283.31
22 34 36 26-0010 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	47,905.54	2,490.88
22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0012 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	9,399.18	934.08
22 34 36 26-0013 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	10,341.06	1,037.87
22 34 36 26-0014 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	12,146.61	1,245.44
22 34 36 26-0015 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	17,104.72	1,297.34
22 34 36 26-0016 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	18,851.64	1,556.81
22 34 36 26-0017 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	23,246.44	1,868.17
22 34 36 26-0018 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	26,416.79	1,971.95
22 34 36 26-0019 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	29,277.94	2,127.64
22 34 36 26-0020 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	31,954.27	2,231.42
22 34 36 26-0021 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	34,289.38	2,283.31
22 34 36 26-0022 Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0023 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	30,662.24	1,556.81
22 34 36 26-0024 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	33,765.09	1,868.17
22 34 36 26-0025 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	45,138.56	2,127.64
22 34 36 26-0026 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	46,503.39	2,231.42
22 34 36 26-0027 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	48,678.56	2,283.31
22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0029 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	38,892.02	1,868.17
22 34 36 26-0030 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	47,040.06	2,127.64
22 34 36 26-0031 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	49,920.75	2,283.31
22 34 46 Oil-Fired Domestic Water Heaters <small>(22 34)</small>		



Plumbing	22	22
Plumbing Equipment	22 30	
Fuel-Fired Domestic Water Heaters	22 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)

22 34 46 11-0001	Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)		
	Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0002	EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E)	1,906.35	216.90
22 34 46 11-0003	EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E)	1,882.39	216.90
22 34 46 11-0004	EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES)	1,959.37	216.90
22 34 46 11-0005	EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E)	2,065.18	222.53
22 34 46 11-0006	EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES)	2,594.87	228.16
22 34 46 11-0007	EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E)	2,214.23	228.16

22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)

	Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0009	EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E)	3,081.74	338.02
22 34 46 11-0010	EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E)	3,582.89	338.02
22 34 46 11-0011	EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E)	3,602.17	338.02
22 34 46 11-0012	EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E)	5,166.01	450.69
22 34 46 11-0013	EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E)	7,052.80	563.37
22 34 46 11-0014	EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E)	8,822.83	619.71

22 35 Domestic Water Heat Exchangers (22 30)

22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)

22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)

22 35 23 13-0001	Steam Driven Water Heaters (22 35 23 13)		
22 35 23 13-0002	Constant Flow (22 35 23 13-0001)		
22 35 23 13-0003	EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	7,088.76	704.21
22 35 23 13-0004	EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	8,849.46	862.94
22 35 23 13-0005	EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	11,345.62	1,128.58
22 35 23 13-0006	EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	15,364.20	1,571.95
22 35 23 13-0007	EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	22,741.00	2,588.98
22 35 23 13-0008	EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	24,813.11	2,934.18
22 35 23 13-0009	EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	32,440.23	3,385.58
22 35 23 13-0010	EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	39,013.96	4,001.21
22 35 23 13-0011	Variable Flow (22 35 23 13-0001)		
22 35 23 13-0012	EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	10,760.41	1,373.22
22 35 23 13-0013	EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	12,226.99	1,676.74
22 35 23 13-0014	EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	15,604.84	2,168.13
22 35 23 13-0015	EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	20,511.76	3,025.02
22 35 23 13-0016	EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	30,751.44	5,059.08
22 35 23 13-0017	EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	37,272.14	5,571.33
22 35 23 13-0018	EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	43,192.80	6,520.47
22 35 23 13-0019	EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	54,574.65	7,790.02

22 40 Plumbing Fixtures (22)

Note: The following Energy Policy Act Flow Rates Requirements superseded flow rates standards listed in section. Plumbing fixtures and trim should not exceed the maximum flow rates set forth in The Energy Policy Act 92. lavatory faucets - 2.5 gal/min, lavatory replacement aerators - 2.5 gal/min, kitchen faucets - 2.5 gal/min, kitchen replacement aerators - 2.5 gal/min, metering faucets - 0.25 gal/cycle, gravity tank-type toilets - 1.6 gal/flush, flushometer tank toilets - 1.6 gal/flush, electromechanical hydraulic toilets - 1.6 gal/flush, blowdown toilets - 3.5 gal/flush, urinals - 1.0 gal/flush.

22 41 Residential Plumbing Fixtures (22 40)

22 41 39 Residential Faucets, Supplies, and Trim (22 41)

22 41 39 00-0001	Residential Kitchen Faucets (22 41 39)		
22 41 39 00-0002	EA Chrome Single Handle Kitchen Faucet (Delta 100LF-WF)	177.96	64.84
22 41 39 00-0003	EA Chrome Single Handle Kitchen Faucet With Spray (Delta 400LF-WF)	198.79	64.84
22 41 39 00-0004	EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Delta 300LF-WF)	198.79	64.84
22 41 39 00-0005	EA Chrome Two Handle Kitchen Faucet, Three Hole Installation 8"Center (Delta 2102LF-LHP+H215)	193.04	64.84
22 41 39 00-0006	EA Chrome Two Handle Kitchen Faucet With Spray, Three Hole Installation, 8" Center (Delta 2402LF-LHP+H215)	204.23	64.84
22 41 39 00-0007	Residential Lavatory Faucets (22 41 39)		
22 41 39 00-0008	EA Chrome, Single Acrylic Handle, Bath Faucet (Delta 502-DST)	154.10	46.68
	For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0009	EA Chrome, Single Lever Handle, Lavatory Faucet (Delta 500-WF)	154.10	46.68
	For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0010	EA Chrome, Two Handle, Bath Faucet With Acrylic Handles (Delta 2502LF)	119.84	46.68
	For Faucet With Brass Pop-Up, Add	16.50	
	For Faucet With Plastic Pop-Up, Add	14.00	

22 Plumbing**22 40 Plumbing Fixtures****22 41 Residential Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 41 39 00-0011			Residential Bath And Shower Faucets (22 41 39)		
22 41 39 00-0012	EA		Single Lever Handle, Chrome Shower Only, Pressure Balanced/Anti-Scald Valve (American Standard T675.501) 197.53 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 25.00	197.53	56.28
22 41 39 00-0013	EA		Single Lever Handle, Chrome Bath And Shower, Pressure Balanced/Anti-Scald Valve (American Standard T675.502) 226.03 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 25.00	226.03	56.28
22 41 39 00-0014	EA		Two-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3275) 185.11 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 75.00 <i>For Faucet With Lever Handles, Add</i> 8.10	185.11	56.28
22 41 39 00-0015	EA		Three-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3375) 200.46 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 75.00 <i>For Faucet With Lever Handles, Add</i> 8.10	200.46	56.28
22 41 39 00-0016	EA		Hand Shower With Hose And 25" Slide Bar (American Standard 1662.602) 212.90	212.90	35.21
22 41 39 00-0017	EA		Wall Mount, Hand Shower With Hose (Delta 55011) 182.38	182.38	35.21
22 41 39 00-0018	EA		Wall Mount, Hand Shower Unit With Hose (Delta Faucet 62001 DS) 275.91	275.91	35.21
22 41 39 00-0019			Residential Laundry Faucets (22 41 39)		
22 41 39 00-0020	EA		Stream Straightener Nozzle Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2123LF) 136.03	136.03	41.41
22 41 39 00-0021			Residential Laundry/Wash Basin Faucets (22 41 39)		
22 41 39 00-0022	EA		Hose Thread Spout Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF) 136.89	136.89	41.41
22 41 39 00-0023	EA		Hose Thread Spout With Vacuum Breaker Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF+RP12503) 185.76	185.76	45.64
22 41 39 00-0024			Other Residential Faucets (22 41 39)		
22 41 39 00-0025	EA		Sillcock, Compact, Brass, IPS Or Copper To Hose 41.86	41.86	10.56
22 42			Commercial Plumbing Fixtures (22 42)		
Note: Prices are for commercial grade unless otherwise indicated. Includes final connection and all associated trim (seat, supply stop and line, wax seal, valve). Excludes rough-in within the wall and carrier.					
22 42 13			Commercial Water Closets, Urinals, and Bidets (22 42)		
22 42 13 13			Commercial Water Closets (22 42 13)		
22 42 13 13-0001			Vitreous China Water Closets (22 42 13 13) Note: With a 2" ball pass.		
22 42 13 13-0002			Floor Mounted Elongated Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0003	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Madera™) 741.55	741.55	134.86
22 42 13 13-0004	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Colorado) 734.98	734.98	134.86
22 42 13 13-0005	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Priolo®) 868.60	868.60	134.86
22 42 13 13-0006	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Yorkville™) 1,100.08	1,100.08	134.86
22 42 13 13-0007	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Cadet™) 992.74	992.74	134.86
22 42 13 13-0008	EA		1 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Compact Cadet™) 932.13	932.13	134.86
22 42 13 13-0009	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet With Concealed Trapway (American Standard Cadet® 3 FloWise® RIGHT HEIGHT®) 936.30	936.30	134.86
22 42 13 13-0010	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Kohler® Wellcome™) 732.25	732.25	134.86
22 42 13 13-0011	EA		1.28 GPF Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Toto® CT705E) 779.03	779.03	134.86
22 42 13 13-0012			Wall Hung Elongated Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0013	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard A'wall®) 865.44	865.44	165.99
22 42 13 13-0014	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard A'wall® ADA Retrofit) 1,050.25	1,050.25	165.99
22 42 13 13-0015	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Glenwall™) 1,301.44	1,301.44	165.99
22 42 13 13-0016	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Kingston™) 868.48	868.48	165.99
22 42 13 13-0017	EA		Flush Valve Type, Blow Out, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Stratton™) 1,267.27	1,267.27	165.99
22 42 13 13-0018	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT708E Or CT708EV) 949.99	949.99	165.99
22 42 13 13-0019	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn Z5615-BWL) 823.12	823.12	165.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0020 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Sloan ST-2459).....	859.88	165.99
22 42 13 13-0021 Floor Mounted Elongated Handicapped Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0022 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Madera™ ADA).....	750.76	134.86
22 42 13 13-0023 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Colorado Right Height®).....	766.83	134.86
22 42 13 13-0024 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Right Width™ Right Height®).....	837.66	134.86
22 42 13 13-0025 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Huron).....	925.28	134.86
22 42 13 13-0026 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Priolo® ADA).....	921.63	134.86
22 42 13 13-0027 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Back Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Yorkville™ ADA).....	1,201.29	134.86
22 42 13 13-0028 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Cadet Right Height™ ADA).....	1,026.05	134.86
22 42 13 13-0029 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT705ELN).....	822.91	134.86
22 42 13 13-0030 EA 2 Piece Tank Type, High Efficiency Water Closet Floor Mounted, Elongated, (Sterling 402077) With Open-Front Seat (Kohler K-4650).....	913.25	134.86
22 42 13 13-0031 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler Highline™ ADA K-3519).....	1,048.05	134.86
22 42 13 13-0032 EA 2 Piece Tank Type, Dual-Flush 1.1 And 1.6 GPF, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Vortens Vienna ELX-DF 3113-3436).....	835.38	134.86
22 42 13 13-0033 EA 2 Piece Tank Type, High Efficiency Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Niagara Stealth™).....	815.68	134.86
22 42 13 13-0034 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn HET Z5667-BWL).....	786.05	134.86
22 42 13 13-0035 Floor Mounted, 10" High Bowl, Children's Height Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0036 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Elongated Vitreous China Water Closet (Kohler® Primary™).....	831.97	134.86
22 42 13 13-0037 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	758.78	134.86
22 42 13 13-0038 EA 2 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	872.71	134.86
22 42 13 13-0039 Floor Mounted Round Bowl Vitreous China Water Closets (22 42 13 13-0001)		
22 42 13 13-0040 EA 2 Piece Tank Type, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Toto® CST715) With SoftClose® Seat (Toto® SS113).....	813.51	134.86
22 42 13 13-0041 EA 2 Piece Tank Type, Dual Flush, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Vortens 3208-3412).....	822.39	134.86
22 42 13 13-0042 Stainless Steel Water Closets (22 42 13 13)		
22 42 13 13-0043 EA Wall Hung Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2105-T-1-HS).....	3,879.78	291.77
22 42 13 13-0044 EA Floor Mounted Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2120-T-3-HS).....	4,084.07	291.77
22 42 13 13-0045 Water Closet Carriers (22 42 13 13)		
22 42 13 13-0046 Pipe Grip Adaptor Type, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, plated hardware and adjustable feet. Excludes waste piping and fittings.		
22 42 13 13-0047 EA Pipe Grip Adaptor Type, Water Closet Carrier.....	601.29	68.47
22 42 13 13-0048 No-Hub, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0049 EA Vertical Close With Offset, No-Hub, Single Water Closet Carrier.....	908.47	68.47
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-75.38	
For Positioning Frame, Add	50.88	
For Supply Pipe Support, Add	52.01	
For Vandal Proof Trim, Add	64.14	
For Auxiliary Inlet, Add	220.41	
For Special Duty 500 LB Carrier, Add	357.80	
22 42 13 13-0050 EA Vertical Close On Stack, No-Hub, Single Water Closet Carrier.....	908.47	68.47
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-75.38	
For Positioning Frame, Add	50.88	
For Supply Pipe Support, Add	52.01	
For Vandal Proof Trim, Add	64.14	
For Auxiliary Inlet, Add	220.41	
For Special Duty 500 LB Carrier, Add	357.80	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0051	EA		Horizontal Adjustable, No-Hub, Single Water Closet Carrier	988.35	68.47
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-75.38	
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Horizontal No Hub Cast Long Barrel, Add</i>	222.16	
			<i>For Carrier For Wide Chase Installations, Add</i>	299.66	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	357.81	
22 42 13 13-0052	EA		Vertical Adjustable On Stack, No-Hub, Single Water Closet Carrier.....	1,090.74	68.47
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-75.38	
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For 4" Branch, Add</i>	171.53	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Carrier For Wide Chase Installations, Add</i>	299.66	
			<i>For Double 4" Branches, Add</i>	344.17	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	357.81	
22 42 13 13-0053	EA		Vertical Close With Offset, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,504.16	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Special Duty 500 LB Carrier, Add</i>	715.60	
22 42 13 13-0054	EA		Vertical Close On Stack, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,544.67	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Special Duty 500 LB Carrier, Add</i>	715.60	
22 42 13 13-0055	EA		Vertical Adjustable On Stack, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,867.59	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For 4" Branch, Add</i>	181.25	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Double 4" Branches, Add</i>	363.62	
			<i>For Carrier For Wide Chase Installations, Add</i>	657.67	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	715.62	
22 42 13 13-0056	EA		Horizontal Adjustable, No-Hub, Double Water Closet (Back To Back) Carrier	1,761.83	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Horizontal No Hub Cast Long Barrel, Add</i>	231.88	
			<i>For Carrier For Wide Chase Installations, Add</i>	657.67	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	715.62	
22 42 13 13-0057			Hub And Spigot, Water Closet Carriers <small>(22 42 13 13-0045)</small>		
			Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0058	EA		Vertical Close With Offset, Hub And Spigot, Single Water Closet Carrier.....	908.47	68.47
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For Hanger Type Closet Adapter, Add</i>	160.90	
			<i>For Auxiliary Inlet, Add</i>	220.41	
22 42 13 13-0059	EA		Vertical Close On Stack, Hub And Spigot, Single Water Closet Carrier.....	908.47	68.47
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Special Duty 500 LB Carrier, Add</i>	357.80	
22 42 13 13-0060	EA		Vertical Adjustable On Stack, Hub And Spigot, Single Water Closet Carrier	1,128.99	68.47
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-75.38	
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For 4" Branch, Add</i>	171.53	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Carrier For Wide Chase Installations, Add</i>	299.66	
			<i>For Double 4" Branches, Add</i>	344.17	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	357.81	
22 42 13 13-0061	EA		Vertical Close With Offset, Hub And Spigot, Double Water Closet (Back To Back) Carrier.....	1,504.16	100.49
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Hanger Type Closet Adapter, Add</i>	321.80	



Plumbing	22	22
Plumbing Fixtures	22 40	
Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0062 EA Vertical Adjustable On Stack, Hub And Spigot, Double Water Closet (Back To Back) Carrier 1,905.85 100.49 For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct -150.76 For Positioning Frame, Add 111.48 For Supply Pipe Support, Add 113.74 For Vandal Proof Trim, Add 128.28 For 4" Branch, Add 181.25 For Auxiliary Inlet, Add 239.86 For Double 4" Branches, Add 363.62 For Carrier For Wide Chase Installations, Add 657.67 For Special Duty 1,000 LB Carrier, Add 715.62		
22 42 13 13-0063 Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Water Closet Carriers <small>(22 42 13 13-0045)</small> Note: Includes coated cast iron construction, plastic fitting adaptor with extension and plated hardware.		
22 42 13 13-0064 EA Vertical On Stack, Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Single Water Closet Carrier 711.56 68.47 For Positioning Frame, Add 50.88 For Supply Pipe Support, Add 52.01 For Vandal Proof Trim, Add 64.14 For Hanger Type Closet Adapter, Add 160.90		
22 42 13 13-0065 Institutional Water Closet Carriers <small>(22 42 13 13-0045)</small> Note: Includes coated cast iron construction, ABS extension with integral test cap, buttress feet, plated hardware and neoprene fixture gasket.		
22 42 13 13-0066 EA Vertical On Stack, No-Hub, 90 Degree Institutional, Double Waste Fitting With Vent And Carrier, Water Closet Carrier 2,427.94 100.49 For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct -150.76 For Positioning Frame, Add 111.48 For Supply Pipe Support, Add 113.74 For Vandal Proof Trim, Add 128.28 For Auxiliary Inlet, Add 239.86		
22 42 13 13-0067 Removal And Reinstallation Of Fixtures And Trim <small>(22 42 13 13)</small> Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 13-0068 EA Removal And Reinstallation Of Wall Hung Water Closet With Tank 592.28 22 42 13 13-0069 EA Removal And Reinstallation Of Wall Hung Water Closet With Flush Valve 592.28 22 42 13 13-0070 EA Removal And Reinstallation Of Floor Mount Water Closet With Tank 455.39 22 42 13 13-0071 EA Removal And Reinstallation Of Floor Mount Water Closet With Flush Valve 455.39		
22 42 13 16 Commercial Urinals <small>(22 42 13)</small>		
22 42 13 16-0001 Vitreous China Urinals <small>(22 42 13 16)</small> Note: Excludes flush valve unless indicated otherwise.		
22 42 13 16-0002 Wall Hung Urinals <small>(22 42 13 16-0001)</small>		
22 42 13 16-0003 EA Wall Hung Washout, Vitreous China Urinal (American Standard Maybrook™) 680.91 138.76 22 42 13 16-0004 EA Wall Hung, Washout, Vitreous China Urinal With Top Spud (American Standard Washbrook®) 800.87 138.76 22 42 13 16-0005 EA Wall Hung, Washout, Vitreous China Urinal With Back Spud (American Standard Washbrook®) 825.96 138.76 22 42 13 16-0006 EA Wall Hung, Blowout, Vitreous China Urinal (American Standard Lynbrook™) 862.81 138.76 22 42 13 16-0007 EA Wall Hung Siphon Jet, Vitreous China Urinal (American Standard Trimbrook™) 798.92 138.76 22 42 13 16-0008 EA Wall Hung, Siphon Jet, Vitreous China Urinal (American Standard Allbrook™) 697.77 138.76 22 42 13 16-0009 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT447E Or UT447EV) 816.54 138.76 22 42 13 16-0010 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT104E Or UT104EV) 719.59 138.76 22 42 13 16-0011 EA Wall Hung, Washout, Vitreous China Urinal (Zurn Z5798) 766.70 138.76 22 42 13 16-0012 EA 0.125 To 0.5 GPF, HEU, Wall Hung, Washout, Vitreous China Urinal (Sloan SU-1009-A) 712.66 138.76 22 42 13 16-0013 EA 1.0 GPF, HEU, Wall Hung, Washout, Vitreous China Urinal (Sloan SU-1006-A) 710.60 138.76		
22 42 13 16-0014 Floor Mounted Urinals <small>(22 42 13 16-0001)</small>		
22 42 13 16-0015 EA Washout, Floor Mounted, Vitreous China Urinal (American Standard Stallbrook™) 1,046.09 175.06 22 42 13 16-0016 EA Washout, Floor Mounted, Vitreous China Urinal (Kohler® Branham™) 1,168.46 175.06 22 42 13 16-0017 EA Floor Mounted Urinal Seam Cover For 21" Centers (Kohler® K-4931) 310.92 32.42 22 42 13 16-0018 EA Floor Mounted Urinal Seam Cover For 24" Centers (Kohler® K-4932) 350.99 32.42		
22 42 13 16-0019 Waterfree Urinals <small>(22 42 13 16-0001)</small>		
22 42 13 16-0020 EA Waterfree, Wall Hung, Vitreous China Urinal (American Standard Large FloWise® Flush-Free) 684.74 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -41.10 22 42 13 16-0021 EA Waterfree, Wall Hung, Vitreous China Urinal (SLOAN WES-1000) 1,084.35 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -86.66 22 42 13 16-0022 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-2000) 949.35 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -71.27 22 42 13 16-0023 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-4000) 754.04 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -49.00 22 42 13 16-0024 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-5000) 754.04 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -49.00		

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 16-0025 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-7000)	907.48	97.26
For Colored Fixtures, Add	66.90	
For >1, Deduct	-66.50	
22 42 13 16-0026 EA Waterfree, Wall Hung, Stainless Steel Urinal (Falcon F-9000)	1,317.74	97.26
For >1, Deduct	-113.26	
22 42 13 16-0027 Stainless Steel Urinals (22 42 13 16)		
22 42 13 16-0028 EA Wall Hung Urinal, Stainless Steel, Blowout Jet (Acorn 2160-T-1).....	3,994.70	291.77
22 42 13 16-0029 EA 5' Wall Hung Trough Urinal, Stainless Steel With Strainer And Washdown Pipe (Elkay EU6014C).....	5,173.56	356.61
22 42 13 16-0030 Urinal Carriers (22 42 13 16)		
22 42 13 16-0031 Floor Mounted, Urinal Carriers (22 42 13 16-0030)		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 13 16-0032 EA Floor Mounted Hanger Plate Type, Single Urinal Carrier.....	518.36	49.28
For Up To 4" Extension Sleeves And Hardware, Add	23.63	
22 42 13 16-0033 EA Floor Mounted Bearing Plate Type, Single Urinal Carrier	561.12	49.28
For Up To 4" Extension Sleeves And Hardware, Add	23.63	
22 42 13 16-0034 Wall Mounted, Urinal Carriers (22 42 13 16-0030)		
Note: Includes wall plate and adjustable supporting rods.		
22 42 13 16-0035 EA Wall Mounted Hanger Plate Type, Single Urinal Carrier	251.69	49.28
For Up To 6-1/2" Extension Sleeves And Hardware, Add	23.63	
22 42 13 16-0036 Removal And Reinstallation Of Fixtures And Trim (22 42 13 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 16-0037 EA Removal And Reinstallation Of Wall Hung Urinal With Flush Valve.....	590.75	
22 42 16 Commercial Lavatories and Sinks (22 42)		
22 42 16 13 Commercial Lavatories (22 42 16)		
22 42 16 13-0001 Lavatories (22 42 16 13)		
Note: Includes trap, drain and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 13-0002 Wall Hung Lavatories (22 42 16 13-0001)		
22 42 16 13-0003 EA 19" x 17" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	619.43	86.88
22 42 16 13-0004 EA 20" x 18" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	645.02	86.88
22 42 16 13-0005 EA 22" x 19" Porcelain Enameled Cast Iron Wall Hung Lavatory (Kohler® Hampton™)	788.34	86.88
22 42 16 13-0006 EA 18" x 16" Vitreous China Wall Hung Lavatory (American Standard Penlyn™).....	572.77	86.88
22 42 16 13-0007 EA 19" x 17" Vitreous China Wall Hung Lavatory (American Standard Declyn™).....	501.28	86.88
22 42 16 13-0008 EA 20" x 18" Vitreous China Wall Hung Lavatory (Kohler® Soho®)	619.01	86.88
22 42 16 13-0009 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Roxalyn™).....	584.81	86.88
22 42 16 13-0010 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Lucerne™).....	522.35	86.88
22 42 16 13-0011 EA 27" x 20" Wheelchair Accessible, Vitreous China Wall Hung Lavatory (American Standard Wheel Chair Users)	719.52	86.88
22 42 16 13-0012 Countertop Lavatories (22 42 16 13-0001)		
22 42 16 13-0013 EA 20" x 18" Oval Vitreous China Countertop Lavatory (Kohler® Pennington®)	585.36	105.03
22 42 16 13-0014 EA 21" x 18" Vitreous China Countertop Lavatory (American Standard Cadet™ Oval)	594.97	105.03
22 42 16 13-0015 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Farmington™).....	621.90	105.03
22 42 16 13-0016 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Ellington™).....	650.42	105.03
22 42 16 13-0017 EA 24" x 18" Enameled Cast Iron Countertop Lavatory (Kohler® Thoreau®).....	819.33	113.46
22 42 16 13-0018 Undercounter Lavatories (22 42 16 13-0001)		
22 42 16 13-0019 EA 15" x 12" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	583.58	105.03
22 42 16 13-0020 EA 17" x 14" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	553.24	105.03
22 42 16 13-0021 EA 19" x 16" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	553.24	105.03
22 42 16 13-0022 EA 21" x 17" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	590.19	105.03
22 42 16 13-0023 EA 15" x 12" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	566.82	105.03
22 42 16 13-0024 EA 17" x 14" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	561.23	105.03
22 42 16 13-0025 EA 19" x 15" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	566.92	105.03
22 42 16 13-0026 EA 18" x 12" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®)	692.54	105.03
22 42 16 13-0027 EA 21" x 14" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®)	692.54	105.03
22 42 16 13-0028 Pedestal Lavatories (22 42 16 13-0001)		
22 42 16 13-0029 EA 19" x 24" x 35" High Vitreous China Pedestal Sink (American Standard Cadet™).....	736.27	249.62
22 42 16 13-0030 Cultured Marble Vanity Tops (22 42 16 13-0001)		
Note: Includes predrilled holes for faucet.		
22 42 16 13-0031 EA 25" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	374.25	97.26
22 42 16 13-0032 EA 31" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	418.54	103.74
22 42 16 13-0033 EA 37" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	494.58	110.22
22 42 16 13-0034 EA 49" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	655.17	116.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0035 EA 25" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	397.33	97.26
22 42 16 13-0036 EA 31" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	425.04	103.74
22 42 16 13-0037 EA 37" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	532.97	110.22
22 42 16 13-0038 EA 43" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	576.43	113.46
22 42 16 13-0039 EA 49" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	638.94	116.71
22 42 16 13-0040 Quartz Vanity Tops (22 42 16 13-0001) Note: Includes predrilled holes for faucet.		
22 42 16 13-0041 EA 25" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	731.48	97.26
22 42 16 13-0042 EA 31" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	764.50	103.74
22 42 16 13-0043 EA 37" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	872.90	110.22
22 42 16 13-0044 EA 43" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	880.75	113.46
22 42 16 13-0045 EA 49" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	956.57	116.71
22 42 16 13-0046 EA 61" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks	1,259.70	123.19
22 42 16 13-0047 EA 73" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks	1,476.94	129.66
22 42 16 13-0048 EA 22" End Splash For Quartz Vanity Tops	40.59	
22 42 16 13-0049 Solid Surface Vanity Tops (22 42 16 13-0001) Note: Includes predrilled holes for faucet.		
22 42 16 13-0050 EA 25" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	623.40	97.26
22 42 16 13-0051 EA 31" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	696.41	103.74
22 42 16 13-0052 EA 37" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	778.68	110.22
22 42 16 13-0053 EA 43" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	852.15	113.46
22 42 16 13-0054 EA 49" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	919.50	116.71
22 42 16 13-0055 EA 55" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	1,007.63	119.95
22 42 16 13-0056 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	1,115.27	123.19
22 42 16 13-0057 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks	1,141.52	123.19
22 42 16 13-0058 EA 73" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks	1,229.94	129.66
22 42 16 13-0059 EA 22" End Splash For Solid Surface Vanity Tops	59.02	
22 42 16 13-0060 Stainless Steel Lavatories (22 42 16 13-0001)		
22 42 16 13-0061 EA 18" x 15" Wall Mounted Lavatory, Stainless Steel (Acorn 1950-1)	2,010.66	226.94
22 42 16 13-0062 Solid Surface Multi-Station Lavatory Systems (22 42 16 13-0001) Note: ADA compliant. Includes integral faucets.		
22 42 16 13-0063 EA 2 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-2)	5,597.99	169.06
<i>For Integral Liquid Soap Dispenser, Add</i>	171.00	
<i>For Integral Photovoltaic Power Panels, Add</i>	563.00	
22 42 16 13-0064 EA 3 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-3)	8,180.31	169.06
<i>For Integral Liquid Soap Dispenser, Add</i>	171.00	
<i>For Integral Photovoltaic Power Panels, Add</i>	657.00	
22 42 16 13-0065 EA 12" Length, Solid Surface Countertop Extension (Bradley MG-EXT-12)	394.23	56.35
22 42 16 13-0066 EA 18" Length, Solid Surface Countertop Extension (Bradley MG-EXT-18)	483.25	56.35
22 42 16 13-0067 EA 36" Length, Solid Surface Countertop Extension (Bradley MG-EXT-36)	936.60	56.35
22 42 16 13-0068 Lavatory Carriers (22 42 16 13)		
22 42 16 13-0069 Floor Mounted, Lavatory Carriers (22 42 16 13-0068)		
22 42 16 13-0070 Floor Mounted Plate Type, Lavatory Carriers (22 42 16 13-0069) Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 16 13-0071 EA Floor Mounted Hanger Plate Type, Single Lavatory Carrier	518.36	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	23.63	
<i>For Valve Plate For Attaching To Upright, Add</i>	87.04	
<i>For Corner Carrier, Add</i>	169.61	
22 42 16 13-0072 EA Floor Mounted Bearing Plate Type, Single Lavatory Carrier	561.12	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	23.63	
<i>For Valve Plate For Attaching To Upright, Add</i>	87.04	
22 42 16 13-0073 EA Floor Mounted Hanger Plate Type, Double Lavatory (Back To Back) Carrier	636.50	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	47.25	
<i>For Valve Plate For Attaching To Upright, Add</i>	174.10	
22 42 16 13-0074 EA Floor Mounted Bearing Plate Type, Double Lavatory (Back To Back) Carrier	723.14	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	47.25	
<i>For Valve Plate For Attaching To Upright, Add</i>	174.10	
22 42 16 13-0075 Floor Mounted, Lavatory Carriers With Arms (22 42 16 13-0069) Note: Includes leveling and securing screws, structural uprights and welded feet.		
22 42 16 13-0076 EA Floor Mounted, Single Lavatory Carrier With Concealed Arms	662.43	58.35
<i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i>	23.63	
<i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i>	32.63	
<i>For Valve Plate For Attaching To Upright, Add</i>	89.64	
<i>For 2" Chrome Plated Escutcheons, Add</i>	79.89	
<i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	145.15	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0077	EA		Floor Mounted, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Heavy Duty Carrier, Add</i>	869.47 23.63 64.14 89.64 82.13	58.35
22 42 16 13-0078	EA		Floor Mounted, Double Lavatory (Back To Back) Carrier With Concealed Arms <i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i> <i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	868.34 47.25 65.27 179.28 159.77 290.29	58.35
22 42 16 13-0079	EA		Floor Mounted, Double Lavatory (Back To Back) Carrier With Exposed Acid Resistant White Coated Arms <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Heavy Duty Carrier, Add</i>	1,264.41 47.25 128.28 179.28 164.27	58.35
22 42 16 13-0080			Wall Mounted, Lavatory Carriers (22 42 16 13-0068)		
22 42 16 13-0081			Wall Mounted Plate Type, Lavatory Carriers (22 42 16 13-0080) Note: Includes wall plate and adjustable supporting rods.		
22 42 16 13-0082	EA		Wall Mounted Hanger Plate Type, Single Lavatory Carrier <i>For Double Plate Carrier, Add</i>	251.69 69.81	49.28
22 42 16 13-0083			Wall Mounted Plate Type, Lavatory Carriers With Arms (22 42 16 13-0080) Note: Includes wall plate and leveling and securing screws.		
22 42 16 13-0084	EA		Wall Mounted Fixed Steel Plate Type, Single Lavatory Carrier With Concealed Arms <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i>	400.27 23.63 79.89	58.35
22 42 16 13-0085	EA		Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Concealed Arms <i>For Movable Mounting Brackets, Deduct</i> <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	463.28 -60.76 23.63 79.89 145.15	58.35
22 42 16 13-0086	EA		Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i>	657.94 23.63 64.14	58.35
22 42 16 13-0087			Removal And Reinstallation Of Lavatory And Trim (22 42 16 13) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 13-0088	EA		Removal And Reinstallation Of Wall Hung Lavatory With Faucet	381.40	
22 42 16 16			Commercial Sinks (22 42 16)		
22 42 16 16-0001			Sinks (22 42 16 16) Note: Includes drain, trap and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 16-0002			Kitchen Sinks (22 42 16 16-0001)		
22 42 16 16-0003	EA		25" x 22" x 8-3/4" Enameled Cast Iron Kitchen Sink, Single Bowl (Kohler® Mayfield®)	776.39	121.89
22 42 16 16-0004	EA		22" x 33" x 9-5/8" Enameled Cast Iron Kitchen Sink, Double Bowl (Kohler® Brookfield®)	981.44	138.76
22 42 16 16-0005	EA		15" x 17" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1517)	853.04	119.30
			<i>For 18 Gauge, Add</i>	183.38	
22 42 16 16-0006	EA		17" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1722)	869.49	119.30
			<i>For 18 Gauge, Add</i>	191.60	
22 42 16 16-0007	EA		22" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2222)	906.51	119.30
			<i>For 18 Gauge, Add</i>	210.11	
22 42 16 16-0008	EA		25" x 22" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2522)	946.74	121.89
			<i>For 18 Gauge, Add</i>	222.45	
22 42 16 16-0009	EA		31" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR3122)	1,158.03	138.76
			<i>For 18 Gauge, Add</i>	303.35	
22 42 16 16-0010	EA		33" x 21" x 7-1/2" Stainless Steel Kitchen Sink, Double Bowl, 20 Gauge (Elkay PSR3321)	1,178.09	138.76
			<i>For 18 Gauge, Add</i>	313.14	
22 42 16 16-0011	EA		33" x 22" x 8" Stainless Steel Kitchen Sink, Double Bowl, 18 Gauge (Elkay LR3322)	1,440.66	138.76
22 42 16 16-0012	EA		15" x 17" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR151710)	1,119.72	119.30
22 42 16 16-0013	EA		17" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR172210)	1,138.23	119.30
22 42 16 16-0014	EA		22" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR222210)	1,184.85	119.30
22 42 16 16-0015	EA		25" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR252210)	1,254.56	121.89
22 42 16 16-0016	EA		31" x 22" x 11-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR312210)	1,493.27	138.76
22 42 16 16-0017			Undermount Kitchen Sinks (22 42 16 16-0001)		
22 42 16 16-0018	EA		21" x 15" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU2115) With Strainer (Elkay LK99)	1,020.95	119.30
22 42 16 16-0019	EA		21" x 15" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU211510) With Strainer (Elkay LK99)	1,018.94	119.30
22 42 16 16-0020	EA		21" x 15" x 7-1/2" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH2115) With Strainer (Elkay LK99)	1,027.80	119.30
22 42 16 16-0021	EA		21" x 15" x 10" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH211510) With Strainer (Elkay LK99)	1,074.42	119.30



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0022 EA 21" x 15-3/4" x 4-3/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHAD2115) With Strainer (Elkay LK99).....	1,044.94	119.30
Note: Available in 4-1/2", 5, or 5-1/2" depths.		
22 42 16 16-0023 EA 25" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF2520) With Strainer (Elkay LK99).....	1,164.42	119.30
22 42 16 16-0024 EA 32" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF3320) With Strainer (Elkay LK99).....	1,343.06	119.30
22 42 16 16-0025 EA 21" x 18" x 5-1/2" Deep, Single Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. US-ADA-1821-A).....	872.39	119.30
22 42 16 16-0026 EA 32" x 18" x 5-1/2" Deep, Two Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. UD-ADA-1832-A).....	1,072.97	119.30
22 42 16 16-0027 Multi-Station Wash Sink, Wall Mounted (22 42 16 16-0001)		
Note: Includes concealed wall hanger, soap dish(s), strainer, supply lines and P-Trap. Excludes faucets.		
22 42 16 16-0028 EA 36" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,007.97	210.72
Note: Excludes faucets.		
22 42 16 16-0029 EA 48" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,617.81	226.94
Note: Excludes faucets.		
22 42 16 16-0030 EA 60" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,988.14	243.14
Note: Excludes faucets.		
22 42 16 16-0031 EA 48" Wide, 2 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	1,953.87	162.10
Note: Excludes faucets.		
22 42 16 16-0032 EA 62" Wide, 3 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,165.45	178.30
Note: Excludes faucets.		
22 42 16 16-0033 EA 80" Wide, 4 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,373.33	194.51
Note: Excludes faucets.		
22 42 16 16-0034 EA 102" Wide, 5 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,637.58	218.83
Note: Excludes faucets.		
22 42 16 16-0035 EA 27" Diameter, 2 Person, Stainless Steel, Sensor Operated Compact Wash Fountain.....	2,477.91	356.61
Note: Includes sensor operated spray heads.		
22 42 16 16-0036 Utility Or Laundry Sinks (22 42 16 16-0001)		
22 42 16 16-0037 EA 23" x 21" Molded Stone Single Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FL-1).....	731.60	138.76
22 42 16 16-0038 EA 40" x 24" Molded Stone Double Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FLTD-II).....	824.83	138.76
22 42 16 16-0039 EA 22" x 17" Molded Stone Single Laundry Sink, Drop-In (Fiat Products DL1).....	729.61	138.76
22 42 16 16-0040 EA 24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210).....	1,059.12	138.76
22 42 16 16-0041 EA 48" x 21" Enameled Cast Iron Double Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2220).....	1,464.69	155.61
22 42 16 16-0042 Refinish Sink/Lavatory (22 42 16 16-0001)		
22 42 16 16-0043 EA Refinish Sink/Lavatory.....	291.76	
22 42 16 16-0044 Service Sinks (22 42 16 16-0001)		
22 42 16 16-0045 EA 22" x 18" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Lakewell™).....	1,037.54	208.78
22 42 16 16-0046 EA 24" x 20" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Akron™).....	1,088.40	208.78
22 42 16 16-0047 EA 28" x 28" Enameled Cast Iron Floor Type Corner Service Sink With Removable Vinyl Coated Rim Guard (American Standard Florwell™).....	1,383.01	276.21
22 42 16 16-0048 EA 12" x 12" x 10" Cast Iron Floor Sink With Dome Strainer And Full Grate (Zum FD2377-PO3-F).....	616.04	194.51
22 42 16 16-0049 EA 24" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB2424).....	697.23	194.51
22 42 16 16-0050 EA 36" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB3624).....	779.60	233.41
22 42 16 16-0051 EA 24" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2424-010).....	676.51	194.51
22 42 16 16-0052 EA 36" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2436-010).....	774.21	233.41
22 42 16 16-0053 EA 24" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-24).....	919.11	194.51
22 42 16 16-0054 EA 36" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-3624).....	1,130.43	233.41
22 42 16 16-0055 Stainless Steel Sink And Drainboard (22 42 16 16-0001)		
22 42 16 16-0056 EA Stainless Steel Sink With One 24" x 24" x 14" Depth Compartment And Drainboard, 14 Gauge Stainless Steel With Tubular Adjustable Legs (Advance Tabco 94-41-24-24L).....	3,081.47	324.19
22 42 16 16-0057 Soapstone Sinks (22 42 16 16-0001)		
22 42 16 16-0058 EA 26-1/2" x 18-1/2" x 7-3/4" Single Bowl Soapstone Sink.....	1,141.66	119.30
22 42 16 16-0059 SF Soapstone Sink Backsplash.....	166.04	
22 42 16 16-0060 EA 30" x 18-1/2" x 10" Single Bowl Soapstone Sink.....	1,439.18	138.76
22 42 16 16-0061 EA 36" x 18-1/2" x 10" Double Bowl Soapstone Sink.....	1,662.88	138.76
22 42 16 16-0062 Sink Carriers (22 42 16 16)		
22 42 16 16-0063 Floor Mounted, Sink Carriers (22 42 16 16-0062)		
Note: With support plates, adjustable coupling with 4" piping connection, mounting studs, structural uprights, welded feet and chrome plated trim.		

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0064 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling.....	737.77	49.28
For Vandal Proof Trim, Add	64.14	
For Valve Plate For Attaching To Upright, Add	87.04	
22 42 16 16-0065 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling And 4" x 2" Waste Fitting.....	1,123.70	49.28
For Vandal Proof Trim, Add	64.14	
For Auxiliary Vent, Add	193.95	
22 42 16 16-0066 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With Exposed Acid Resistant White Coated Arms.....	1,398.26	49.28
For Up To 4" Extension Sleeves And Hardware, Add	48.38	
For Vandal Proof Trim, Add	64.14	
22 42 16 16-0067 Removal And Reinstallation Of Sink And Trim (22 42 16 16) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 16-0068 EA Removal And Reinstallation Of Wall Hung Service Sink With Faucet.....	522.89	
22 42 19 Commercial Bathtubs (22 42)		
22 42 19 00-0001 Recessed Alcove Bathtubs (22 42 19)		
22 42 19 00-0002 Porcelain Enameled Cast Iron, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0003 EA 54" x 30-1/4" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Seaforth™).....	1,549.69	360.50
22 42 19 00-0004 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Mendota®).....	1,349.43	360.50
22 42 19 00-0005 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®).....	1,554.71	360.50
22 42 19 00-0006 EA 66" x 32" x 17", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Bellwether®).....	1,957.48	360.50
22 42 19 00-0007 Porcelain Enameled Steel, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0008 EA 60" x 30" x 14-1/4", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Salem®).....	770.88	360.50
22 42 19 00-0009 EA 60" x 30" x 16-5/8", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Solar®).....	785.22	360.50
22 42 19 00-0010 Porcelain Finished Metal Alloy, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0011 EA 60" x 32" x 17-3/4", Porcelain Finished Metal Alloy, Recessed Alcove Bathtub (American Standard Cambridge™).....	1,067.54	360.50
22 42 19 00-0012 Acrylic, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0013 EA 60" x 32" x 19", Acrylic, Recessed Alcove Bathtub (Kohler® Archer®).....	1,094.66	360.50
22 42 19 00-0014 EA 60" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,268.04	360.50
22 42 19 00-0015 EA 66" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,290.43	360.50
22 42 19 00-0016 EA 72" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,276.67	360.50
22 42 19 00-0017 EA 72" x 42" x 21", Acrylic, Recessed Alcove Bathtub (Kohler® Windward®).....	1,326.18	360.50
22 42 19 00-0018 Bathtub Refinishing (22 42 19 00-0001)		
22 42 19 00-0019 EA Refinish Porcelain Finished Bathtub With Acrylic Urethane Enamel.....	683.21	
22 42 19 00-0020 Tub And Shower Combinations (22 42 19)		
22 42 19 00-0021 Acrylic Tub And Shower Combination (22 42 19 00-0020)		
22 42 19 00-0022 EA 1 Piece, 60" x 32" x 72" Acrylic Tub And Shower (Delta 226032).....	1,162.61	121.72
For 2 Piece Enclosure, Deduct	-256.94	
22 42 19 00-0023 Fiberglass Tub And Shower Combination (22 42 19 00-0020)		
22 42 19 00-0024 EA 1 Piece 60" x 32" x 72" Fiberglass Tub And Shower (Aquatic 2603-SG).....	882.94	121.72
22 42 19 00-0025 EA 2 Piece 60" x 30" x 72" Fiberglass Tub And Shower (Aquatic 2603-2P).....	688.60	81.14
22 42 19 00-0026 EA 4 Piece 60" x 32" x 75-1/2" Fiberglass Tub And Shower (Aquatic 26030-4P).....	1,391.18	183.71
22 42 19 00-0027 EA 3 Piece Tub/Shower Surrounds, 32" x 72" Side Walls, 48" x 72" Back, (Swanstone SK-324872).....	2,884.67	344.59
For 2 Piece Enclosure, Deduct	-603.04	
22 42 23 Commercial Showers (22 42)		
22 42 23 00-0001 Shower Enclosures (22 42 23) Note: Includes precast concrete receptors. Excludes plumbing hook-up and door or curtain.		
22 42 23 00-0002 Powder Coated Or Baked Enamel Steel Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0003 EA 32" x 32" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,529.99	209.15
22 42 23 00-0004 EA 36" x 36" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,529.99	209.15
22 42 23 00-0005 EA 40" x 40" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	2,241.47	209.15
22 42 23 00-0006 EA 40" x 48" x 82" Handicapped, Baked Enamel Steel Shower Enclosure (General Partitions).....	2,452.68	209.15
22 42 23 00-0007 Solid Plastic Core High Density Polymer (HDP) Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0008 EA 32" x 32" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,430.45	209.15
22 42 23 00-0009 EA 36" x 36" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,430.45	209.15
22 42 23 00-0010 EA 40" x 40" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	3,430.96	209.15
22 42 23 00-0011 EA 40" x 48" x 82" Handicapped, Solid Plastic Shower Enclosure (General Partitions).....	3,820.05	209.15



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 42 23 00-0012 Composite Fiberglass Shower Enclosure, 4 Piece Knock-Down (22 42 23 00-0001)		
			EA	32" x 32" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3232CS)	1,304.36	209.15
			EA	36" x 36" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3636CS)	1,337.24	209.15
			EA	34" x 48" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 4834CS)	1,370.12	209.15
			EA	30" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6030CSL)	1,435.87	209.15
			EA	34" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6034CS)	1,523.00	209.15
				22 42 23 00-0018 1 Piece Shower Units (22 42 23)		
			EA	1 Piece, 32" x 32" x 73" Fiberglass Shower With Drain (Swanstone FS03232).....	1,097.78	121.72
			EA	1 Piece, 36" x 36" x 73" Fiberglass Shower With Drain (Swanstone FS03636).....	1,218.36	121.72
				22 42 23 00-0021 Personnel Type Shower Receptors (22 42 23)		
				22 42 23 00-0022 Acrylic Shower Receptors (22 42 23 00-0021)		
			EA	36" x 36" Acrylic Shower Receptor	516.23	52.82
			EA	42" x 42" Acrylic Shower Receptor	544.61	52.82
			EA	48" x 48" Acrylic Shower Receptor	601.26	52.82
			EA	60" x 60" Acrylic Shower Receptor	730.93	63.38
			EA	48" x 32" Acrylic Shower Receptor	517.57	52.82
			EA	48" x 36" Acrylic Shower Receptor	554.88	52.82
			EA	48" x 42" Acrylic Shower Receptor	624.29	52.82
			EA	60" x 30" Acrylic Shower Receptor	898.95	111.34
			EA	60" x 32" Acrylic Shower Receptor	695.62	63.38
			EA	60" x 36" Acrylic Shower Receptor	700.42	63.38
			EA	60" x 42" Acrylic Shower Receptor	704.83	63.38
			EA	60" x 48" Acrylic Shower Receptor	773.80	63.38
			EA	36" x 36" Acrylic Corner Shower Receptor	743.65	52.82
			EA	42" x 42" Acrylic Corner Shower Receptor	850.73	52.82
			EA	47-1/2" x 47-1/2" Acrylic Corner Shower Receptor	1,271.33	105.77
				22 42 23 00-0038 Molded Stone Shower Receptors (22 42 23 00-0021)		
			EA	32" x 32" Molded Stone Shower Receptor (Fiat 32WV)	351.26	52.82
			EA	34" x 34" Molded Stone Shower Receptor (Fiat 34WV)	367.26	52.82
			EA	36" x 36" Molded Stone Shower Receptor (Fiat 36WV)	369.04	52.82
			EA	42" x 42" Molded Stone Shower Receptor (Fiat 4242WV)	448.20	52.82
			EA	42" x 34" Molded Stone Shower Receptor (Fiat 42WV)	400.17	52.82
			EA	48" x 32" Molded Stone Shower Receptor (Fiat 4832WV)	422.41	52.82
			EA	48" x 34" Molded Stone Shower Receptor (Fiat 48WV)	425.07	52.82
			EA	54" x 34" Molded Stone Shower Receptor (Fiat 54WV)	493.20	63.38
			EA	60" x 34" Molded Stone Shower Receptor (Fiat 60WV)	510.10	63.38
			EA	36" x 36" Molded Stone Corner Shower Receptor (Fiat 36WVC).....	404.62	52.82
			EA	38" x 38" Molded Stone Corner Shower Receptor (Fiat 38WVC).....	414.40	52.82
				22 42 23 00-0050 Precast Terrazzo Shower Receptors (22 42 23 00-0021)		
			EA	30" x 30" Precast Terrazzo Shower Receptor.....	641.19	52.82
			EA	32" x 32" Precast Terrazzo Shower Receptor.....	665.20	52.82
			EA	34" x 34" Precast Terrazzo Shower Receptor.....	687.44	52.82
			EA	36" x 36" Precast Terrazzo Shower Receptor.....	690.11	52.82
			EA	40" x 40" Precast Terrazzo Shower Receptor.....	753.25	52.82
			EA	42" x 42" Precast Terrazzo Shower Receptor.....	785.27	52.82
			EA	48" x 48" Precast Terrazzo Shower Receptor.....	1,094.77	52.82
			EA	36" x 32" Precast Terrazzo Shower Receptor.....	682.10	52.82
			EA	42" x 32" Precast Terrazzo Shower Receptor.....	694.85	52.82
			EA	42" x 34" Precast Terrazzo Shower Receptor.....	717.68	52.82
			EA	42" x 36" Precast Terrazzo Shower Receptor.....	746.14	52.82
			EA	32" x 48" Precast Terrazzo Shower Receptor.....	748.80	52.82
			EA	48" x 34" Precast Terrazzo Shower Receptor.....	785.27	52.82
			EA	54" x 32" Precast Terrazzo Shower Receptor.....	821.73	52.82
			EA	60" x 30" Precast Terrazzo Shower Receptor.....	1,107.43	63.38
			EA	60" x 32" Precast Terrazzo Shower Receptor.....	1,208.34	63.38
			EA	60" x 34" Precast Terrazzo Shower Receptor.....	1,213.29	63.38
			EA	60" x 36" Precast Terrazzo Shower Receptor.....	1,218.22	63.38
			EA	32" x 32" Precast Terrazzo Corner Shower Receptor.....	693.66	52.82
			EA	34" x 34" Precast Terrazzo Corner Shower Receptor.....	694.85	52.82
			EA	36" x 36" Precast Terrazzo Corner Shower Receptor.....	697.22	52.82
			EA	40" x 40" Precast Terrazzo Corner Shower Receptor.....	831.52	52.82
			EA	36" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor	1,494.10	52.82
			EA	60" x 30", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor	1,665.39	63.38
			EA	60" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor	1,734.76	63.38
				22 42 23 00-0076 Shower Receptors Accessories (22 42 23 00-0021)		
			SF	Polyvinyl Chloride (PVC) Shower Pan Liner	4.54	

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 23 00-0078			Removal And Reinstallation Of Fixtures And Trim (22 42 23)		
			Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 23 00-0079	EA		Removal And Reinstallation Of Shower Head	63.38	
22 42 33			Wash Fountains (22 42)		
22 42 33 00-0001			Circular Wash Fountain, Deep Bowl (22 42 33)		
			Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0002	EA		36" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2705F-A-LSD)	8,063.78	197.24
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0003	EA		36" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2805F-A-LSD)	4,865.53	197.24
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0004	EA		36" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3105AIRLSDE)	8,329.94	197.24
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0005	EA		54" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2708F-A-LSD)	10,255.49	225.41
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0006	EA		54" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2808F-A-LSD)	5,612.17	225.41
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0007	EA		54" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3108AIRLSDE)	9,972.72	225.41
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0008			Semi-Circular Wash Fountain, Deep Bowl (22 42 33)		
			Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0009	EA		36" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2703F-A-LSD)	7,032.89	169.06
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0010	EA		36" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2803F-A-LSD)	4,434.04	169.06
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0011	EA		36" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3103AIRLSDE)	6,330.07	169.06
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0012	EA		54" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2704F-A-LSD)	8,621.17	197.24
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0013	EA		54" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2804F-A-LSD)	5,345.41	197.24
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0014	EA		54" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3104AIRLSDE)	7,527.30	197.24
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 39			Commercial Faucets, Supplies, and Trim (22 42)		
22 42 39 00-0001			Kitchen Faucets (22 42 39)		
22 42 39 00-0002	EA		Top Cast Kitchen Faucet, Single Handle, Chrome Finish (Delta 140-DST)	188.60	64.84
22 42 39 00-0003	EA		Top Cast Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 440-DST)	207.69	64.84
22 42 39 00-0004	EA		Top Cast Kitchen Faucet, Single Handle, Stainless Steel Finish (Delta 140-SS-DST)	188.82	64.84
22 42 39 00-0005	EA		Top Cast Kitchen Faucet With Spray, Single Handle, Stainless Steel Finish (Delta 440-SS-DST)	208.02	64.84
22 42 39 00-0006	EA		Top Cast Kitchen Faucet, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2102LF-LHP+H24)	178.51	64.84
22 42 39 00-0007	EA		Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2402LF-LHP+H24)	191.96	64.84
22 42 39 00-0008	EA		Top Cast Kitchen Faucet, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21987LF)	237.29	64.84
22 42 39 00-0009	EA		Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21996LF)	180.40	64.84
22 42 39 00-0010	EA		Bottom Mount Kitchen Faucet, Single Handle, Chrome Finish (Delta 101LF-WF)	175.31	64.84
22 42 39 00-0011	EA		Bottom Mount Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 175LF-WF)	200.20	64.84
22 42 39 00-0012	EA		Bottom Mount Kitchen Faucet, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2274-LHP+H24)	315.50	64.84
22 42 39 00-0013	EA		Bottom Mount Kitchen Faucet With Spray, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2276-LHP+H24)	342.24	64.84
22 42 39 00-0014	EA		Deck Mount Sink Faucet, 8" Center Set, Lever Handles (Chicago Faucet 1100 ABCP)	328.19	70.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0015 EA Deck Mount Sink Faucet, 8" Center Set, 4" Wristblade Handles (Chicago Faucet 1100-GN2AE3-317CP)	326.88	70.43
22 42 39 00-0016 EA Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 802-317CP).....	254.95	70.43
22 42 39 00-0017 EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041CR).....	528.84	64.84
22 42 39 00-0018 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041NK).....	658.56	64.84
22 42 39 00-0019 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041RB)	701.80	64.84
22 42 39 00-0020 EA Chrome Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041CR).....	528.84	64.84
22 42 39 00-0021 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041NK).....	658.56	64.84
22 42 39 00-0022 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041RB).....	701.80	64.84
22 42 39 00-0023 Lavatory Faucets (22 42 39)		
22 42 39 00-0024 EA Single Handle Centerset Lavatory Faucet, Polished Chrome Finish (Delta Lahara 538-MPU-DST)	209.32	46.68
22 42 39 00-0025 EA 4" Centerset Lavatory Faucet With Chrome Lever Handle (Delta 501LF-WF).....	154.10	46.68
22 42 39 00-0026 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2523LF-MPU)	184.31	46.68
22 42 39 00-0027 EA 4" Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2529LF-HDM)	199.37	46.68
22 42 39 00-0028 EA Classic Style Widespread Lavatory Faucet With Chrome Lever Handles (Delta 3530LF-MPU).....	238.28	46.68
22 42 39 00-0029 EA Widespread Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 3579LF-WFHDF)	272.84	46.68
22 42 39 00-0030 EA Self Closing/Metered Faucet, Brass, Single Hole, Push Handle (Delta 86T104)	177.81	46.68
22 42 39 00-0031 EA Self Closing/Metered Faucet, Double Hole, Push Handles (American Standard 1340.225.002).....	255.60	46.68
22 42 39 00-0032 EA Single Inlet, Push Handle Metering Faucet, ADA (Chicago Faucet 333-665).....	192.26	46.68
22 42 39 00-0033 EA 3" Reach, 4-Arm Handle Single Basin Faucet (T&S Brass 0710)	196.05	46.68
22 42 39 00-0034 EA 3" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0712)	230.75	46.68
22 42 39 00-0035 EA 4" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0805)	226.65	46.68
22 42 39 00-0036 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Zurn Z81104)	190.45	46.68
22 42 39 00-0037 Bath And Shower Faucets (22 42 39)		
22 42 39 00-0038 Bath And Shower Faucets With Valve Body (22 42 39 00-0037)		
22 42 39 00-0039 EA Single Lever Handle Chrome Tub Filler, Pressure-Balance (American Standard T480 500)	201.92	56.28
22 42 39 00-0040 EA Single Lever Handle, Chrome Shower Only, Pressure-Balance (American Standard T480.501).....	230.41	56.28
22 42 39 00-0041 EA Single Lever Handle, Chrome Shower And Tub Filler, Pressure-Balance (American Standard T480.502).....	248.68	56.28
22 42 39 00-0042 EA Two Lever Handle, Chrome Tub Filler (American Standard Colony Soft 3275.505).....	189.50	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	<i>45.75</i>	
22 42 39 00-0043 EA Two Lever Handle, Chrome Shower Only (American Standard Colony Soft 3275.501)	196.80	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	<i>45.75</i>	
22 42 39 00-0044 EA Two Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3275.502)	217.99	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	<i>45.75</i>	
22 42 39 00-0045 EA Three Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3375.502).....	242.10	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	<i>45.75</i>	
22 42 39 00-0046 Shower Valves And Trim (22 42 39)		
<i>See CSI section 22 41 39 00-0011 for residential shower valves and heads.</i>		
22 42 39 00-0047 EA Senior Institutional Shower Head (Symmons® 4-150).....	197.35	56.28
22 42 39 00-0048 EA Universal Institutional Shower Head (Symmons® 4-151)	306.14	56.28
22 42 39 00-0049 EA Fre-Flo Institutional Shower Head (Symmons® 4-295)	225.99	56.28
22 42 39 00-0050 EA Fre-Flo Institutional Shower Head With Short Arm (Symmons® 4-385)	179.09	56.28
22 42 39 00-0051 EA Wall Mounted Shower Valve And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-300-B30-V-X)	675.50	84.29
22 42 39 00-0052 EA Wall Mounted Shower Valve, Tub Faucet, And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-400-B30-V-X).....	577.09	97.26
22 42 39 00-0053 EA Wall Mounted Shower Valve, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-500-B30-V-X)	735.85	97.26
22 42 39 00-0054 EA Wall Mounted Shower Valve, Tub Faucet, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-600-B30-V-X).....	1,009.25	103.74
22 42 39 00-0055 EA Removable Hand Held Shower With Hose Wall Hook And Inline Vacuum Breaker (Powers 141-318 with 141-319).....	350.77	87.53
22 42 39 00-0056 EA Concealed Thermostatic/Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 2502-600CP)	685.17	87.53
22 42 39 00-0057 EA Concealed Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 1762-ISCP).....	500.96	87.53
22 42 39 00-0058 EA Stainless Steel Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-801S/1-802S).....	918.69	87.53
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	<i>106.44</i>	
<i>For Recessed Soap Dish, Add</i>	<i>108.12</i>	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	<i>165.51</i>	
<i>For Pressure Balance And Metering Combination, Add</i>	<i>291.63</i>	
22 42 39 00-0059 EA Stainless Steel Corner Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-807).....	1,077.23	87.53
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	<i>106.44</i>	
<i>For Recessed Soap Dish, Add</i>	<i>108.12</i>	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	<i>165.51</i>	
<i>For Pressure Balance And Metering Combination, Add</i>	<i>291.63</i>	
22 42 39 00-0060 EA Stainless Steel Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S).....	758.87	87.53
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	<i>19.32</i>	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	<i>78.39</i>	
<i>For Pressure Balance And Metering Combination, Add</i>	<i>291.63</i>	
22 42 39 00-0061 EA Stainless Steel Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-911RS)	1,105.10	87.53
<i>For Pressure Balance And Metering Combination, Add</i>	<i>291.63</i>	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0062	EA		Stainless Steel Double Outlet Institutional Shower System With Thru-Ceiling Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-902S-FS)	1,179.74	87.53
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0063	EA		Stainless Steel Institutional Triple Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-931).....	2,109.33	87.53
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	227.79	
22 42 39 00-0064	EA		Stainless Steel Institutional Double Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-921)	1,852.63	87.53
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0065	EA		Stainless Steel Tub And Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-941-231).....	969.53	87.53
22 42 39 00-0066	EA		Stainless Steel Double Outlet Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Hand Spray, Hose, Wall Hooks, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-912RS-FS).....	1,445.75	87.53
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0067	EA		Stainless Steel Single Supply Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-60).....	968.33	87.53
22 42 39 00-0068	EA		Stainless Steel Single Supply Single Outlet Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-22-FS)	965.70	87.53
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
22 42 39 00-0069	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower System (Symmons SafetyMix 1-100-X-3/4).....	707.55	77.81
22 42 39 00-0070	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower Valve (Symmons SafetyMix 4-500)	540.23	56.28
22 42 39 00-0071			Service Sink Faucets (22 42 39)		
22 42 39 00-0072	EA		4-5/8" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (Kohler® Kinlock™)	426.87	107.95
22 42 39 00-0073	EA		3" Spout, Wall Mount, Service Sink Faucet With Lever Handles (American Standard 8340.235).....	325.03	107.95
22 42 39 00-0074	EA		3" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (American Standard 8340.243)	344.75	107.95
22 42 39 00-0075	EA		6" Spout With Vacuum Breaker And Top Brace, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8344.012)	354.98	107.95
22 42 39 00-0076	EA		7-1/4" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.101).....	470.23	151.33
22 42 39 00-0077	EA		7-1/4" Spout With Vacuum Break And Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.110)	528.95	172.47
22 42 39 00-0078	EA		11" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8345.115).....	593.24	172.47
22 42 39 00-0079	EA		Wall Mount Service Sink Faucet With Atmospheric Vacuum Breaker Spout, Lever Handles (Chicago Faucet 305-VBRCF)	352.83	107.95
22 42 39 00-0080	EA		8" Spout Wall Mount Service Sink, Wrist Blade Handles (Chicago 445-L8ABCP).....	536.04	172.47
22 42 39 00-0081	EA		44" Flexible Stainless Steel Hose With Insulated Handle, 23" Riser, Pre-Rinse Faucet (Chicago Faucet 923-XKAB)	690.26	172.47
22 42 39 00-0082			Laboratory Faucets And Fittings (22 42 39)		
22 42 39 00-0083	EA		Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 927)	174.51	45.91
22 42 39 00-0084	EA		Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 929)	279.12	64.84
22 42 39 00-0085	EA		Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet With Vacuum Breaker (Chicago Faucet 930).....	349.43	64.84
22 42 39 00-0086	EA		Cold Wall Mount, Gooseneck Spout With Aerator, Laboratory Faucet (Chicago Faucet 933)	228.15	60.55
22 42 39 00-0087	EA		6" Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940)	312.72	86.36
22 42 39 00-0088	EA		6" Spout With Aerator And Vacuum Breaker, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940-VBE7-CP)	404.39	86.36
22 42 39 00-0089	EA		Dual Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 946)	320.73	64.84
22 42 39 00-0090	EA		Gooseneck Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 942)	329.38	86.36
22 42 39 00-0091	EA		Single Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 350-CP).....	211.35	49.86
22 42 39 00-0092	EA		Dual Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 50-CP)	297.95	70.43
22 42 39 00-0093	EA		4" Center Set, Deck Mount, Lavatory Faucet With Blade Handles (Chicago Faucet 802)	239.86	70.43
22 42 39 00-0094	EA		4" Center Set, Deck Mount, Gooseneck Sink Faucet With Blade Handles (Chicago Faucet 895-317CP).....	282.97	70.43
22 42 39 00-0095	EA		Gas Ball Valve, Removable Nozzle, With Index Button (Chicago Faucet 909-AGVCP)	89.68	43.31
22 42 39 00-0096	EA		Dual Service Lab Fitting, Two Gas And One Water Outlet (Chicago Faucet 1332-CP).....	436.47	77.81
22 42 39 00-0097	EA		Dual Service Lab Fitting With Wristblade Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-317CP).....	547.22	77.81
22 42 39 00-0098	EA		Dual Service Lab Fitting With Metal Cross Handle, Inline Vacuum Breaker, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7-204CP)	648.12	77.81
22 42 39 00-0099	EA		Dual Service Lab Fitting With Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7CP)	578.83	77.81
22 42 39 00-0100	EA		Dual Service Lab Fitting With Chemical Resistant Coating And Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7SAM)	679.87	77.81
22 42 39 00-0101	EA		Single, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-131WSA).....	149.13	42.80
22 42 39 00-0102	EA		90 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132AWSA)	205.09	51.35
22 42 39 00-0103	EA		180 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132SWSA)	205.09	51.35
22 42 39 00-0104	EA		Three Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-133WSA)	261.05	59.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0105 EA Four Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-134WSA).....	317.00	68.47
22 42 39 00-0106 Gooseneck Faucets With Independent Eyewash (22 42 39)		
22 42 39 00-0107 EA Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA).....	765.97	48.63
22 42 39 00-0108 EA Single Lever Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-SL).....	826.19	45.38
22 42 39 00-0109 EA 8" Stem, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8).....	1,060.85	48.63
22 42 39 00-0110 EA Serrated Tip With Vacuum Breaker, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-ST).....	1,118.89	48.63
22 42 39 00-0111 EA Thermostatic Mixing Valve Kit For The SEF-1800 (Speakman SEF-TW).....	1,343.99	32.42
22 42 39 00-0112 EA Foot Pedal Activation, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-FP).....	1,643.89	81.05
22 42 39 00-0113 EA Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-TW).....	2,277.14	81.05
22 42 39 00-0114 EA 8" Stem, Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8TW).....	2,351.02	81.05
22 42 39 00-0115 EA Adjustable Aerated Outlet Heads, Gooseneck Faucet Mounted Eyewash (WaterSaver EW101).....	275.72	49.30
22 42 39 00-0116 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW200).....	300.14	49.30
22 42 39 00-0117 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW201).....	321.46	49.30
22 42 39 00-0118 EA 6 Gallon Capacity, Tempering Valve (WaterSaver AP3600).....	1,293.84	32.42
22 42 39 00-0119 Bubblers And Glass Fillers (22 42 39)		
22 42 39 00-0120 EA Self-Closing Bubbler Faucet, Metering Handle (Chicago Faucet 748-665CP).....	285.57	45.91
22 42 39 00-0121 EA Wall Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 313-CP).....	267.04	60.55
22 42 39 00-0122 EA 7" Overall Outlet Height, Deck Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 709-CP).....	282.07	45.91
22 42 39 00-0123 EA Wall Mount, Push Button Single Glass Filler (Chicago Faucet 324-CP).....	198.11	65.77
22 42 39 00-0124 EA Deck Mount, Lever Handle Drinking Faucet (Haws 5054LF).....	331.83	49.86
22 42 39 00-0125 EA Push Button Bubbler, 1/2" OD (Haws 5017LF).....	335.84	49.86
22 42 39 00-0126 EA Push Button Bubbler, 3/8" NPT (Haws 5010-6427).....	285.07	49.86
22 42 39 00-0127 Automatic Electronic Sensor Faucets (22 42 39)		
22 42 39 00-0128 EA Electronic Lavatory Faucet (American Standard 6055.205.002).....	537.63	108.15
<i>For Faucet With Temperature Control, Add</i>	40.00	
22 42 39 00-0129 EA Electronic Lavatory Gooseneck Faucet (American Standard 6055.105.002).....	542.02	108.15
<i>For Faucet With Temperature Control, Add</i>	40.00	
22 42 39 00-0130 EA Electronic Gooseneck Faucet (Chicago Faucet 116.103.AB.1).....	709.12	117.46
22 42 39 00-0131 EA Electronic Lavatory Faucet (Chicago Faucet 116.112.AB.1).....	729.96	108.15
22 42 39 00-0132 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880).....	1,056.25	117.46
22 42 39 00-0133 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880-BDT).....	1,303.27	117.46
22 42 39 00-0134 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-35187).....	1,222.27	117.46
22 42 39 00-0135 EA Solar Powered, Electronic Lavatory Faucet With Integral Mixing Valve (Sloan Solis EAF-275-ISM).....	869.98	108.15
22 42 39 00-0136 EA Deck Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1100).....	888.40	108.15
22 42 39 00-0137 EA Wall Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1101).....	935.77	108.15
22 42 39 00-0138 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC1102).....	817.35	108.15
22 42 39 00-0139 EA Deck Mount, DC Power, Electronic Lavatory Faucet (T&S Brass EC2100).....	935.77	108.15
22 42 39 00-0140 EA Deck Mount, DC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC2102).....	823.95	108.15
22 42 39 00-0141 EA Deck Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3100).....	823.95	108.15
22 42 39 00-0142 EA Wall Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3101).....	921.33	108.15
22 42 39 00-0143 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3102).....	789.06	108.15
22 42 39 00-0144 EA 4" Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3103).....	759.18	108.15
22 42 39 00-0145 EA Self-Generating EcoPower System, Single Supply Sensor Faucet, Standard Spout (Toto "Eco-Power" TEL3GKCN-60).....	1,027.87	108.15
22 42 39 00-0146 Singles (22 42 39)		
22 42 39 00-0147 EA Stainless Steel Single Deck Faucet With 6" Swivel/Rigid Gooseneck Spout And Lever Handles (Fisher 58130).....	211.18	47.59
22 42 39 00-0148 Other Trim (22 42 39)		
22 42 39 00-0149 EA Faucet Aerator, Male Thread 13/16" Male, 2 GPM (Delta RP330).....	19.52	7.04
22 42 39 00-0150 EA 1-1/2" Pop-up Tailpiece (Chicago Faucet 226-ACP).....	123.74	21.13
22 42 39 00-0151 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Angle Stop (SharkBite 23036).....	38.50	13.61
22 42 39 00-0152 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Straight Stop (SharkBite 23037).....	38.50	13.61
22 42 39 00-0153 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Dual Angle Stop (SharkBite 25558).....	48.78	13.61
22 42 39 00-0154 PR 16" Long, 3/8" OD x 1/2" IPS, Stainless Steel Braided Sink Supply Line (Pair).....	38.27	14.96
22 42 39 00-0155 EA 12" Long, 3/8" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	23.39	8.80
22 42 39 00-0156 EA 12" Long, 1/2" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	23.85	8.80
22 42 39 00-0157 Removal And Reinstallation Of Fixtures And Trim (22 42 39)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 39 00-0158 EA Removal And Reinstallation Of Faucet.....	112.67	
22 42 43 Flushometers (22 42)		
22 42 43 00-0001 Water Closet Flush Valves (22 42 43)		
22 42 43 00-0002 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-115XL).....	291.87	44.22

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 43 00-0003 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-113-1.6).....	283.66	44.22
22 42 43 00-0004 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-110 Or 111).....	325.42	44.22
22 42 43 00-0005 EA Back Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-140).....	447.91	44.22
22 42 43 00-0006 EA Top Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-142).....	494.99	44.22
22 42 43 00-0007 EA Exposed Infrared Water Closet Flush Valve (Sloan Royal 115-1.6 ES-S).....	881.52	44.22
22 42 43 00-0008 EA Concealed Infrared Water Closet Flush Valve, Back Spud (Sloan Royal-140 ES-S).....	889.94	44.22
22 42 43 00-0009 EA Concealed Infrared Water Closet Flush Valve, Top Spud (Sloan Royal-153-1.6-ES-S).....	937.43	44.22
22 42 43 00-0010 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8113).....	873.67	44.22
22 42 43 00-0011 EA Dual Flush Water Closet Flush Valve (Sloan Uppercut WES-115).....	399.87	44.22
Note: "Green". 1.6 Gallons or 1.1 Gallons per flush. Includes instructional placards on proper operation.		
22 42 43 00-0012 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8110).....	609.54	44.22
22 42 43 00-0013 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima EBV-89A).....	388.24	44.22
22 42 43 00-0014 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40118X).....	385.00	44.22
22 42 43 00-0015 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima Smooth EBV-200A).....	380.91	38.90
22 42 43 00-0016 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40180X).....	412.90	38.90
22 42 43 00-0017 EA 1.28 GPF, Exposed Infrared Water Closet Flush Valve (Toto EcoPower TET1LN).....	893.79	44.22
22 42 43 00-0018 EA Exposed Infrared Water Closet Flush Valve (1-1/2" V.B.) 1.28 GPF (Toto EcoPower TET1LN32).....	976.55	44.22
22 42 43 00-0019 EA 1.28 GPF, Back Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN31 Or TET3LN31).....	1,241.69	44.22
22 42 43 00-0020 EA 1.28 GPF, Top Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN32 Or TET3LN32).....	1,241.69	44.22
22 42 43 00-0021 EA Exposed Infrared Water Closet Flush Valve (Zurn ZEMS6000AV-HET-IS).....	811.70	44.22
22 42 43 00-0022 EA Exposed Infrared Water Closet Flush Valve (Zurn ZTS6200EV).....	804.69	44.22
22 42 43 00-0023 EA Slide Over Handle AC Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan EL-600-A).....	398.94	38.90
22 42 43 00-0024 EA 6 Volt DC, 120 Volt AC Hardwired Power Transformer (Sloan EL-451).....	124.80	6.85
22 42 43 00-0025 EA Exposed Solar/Battery Powered Water Closet Flush Valve (Sloan Solis 8111-1.28).....	564.32	44.22
22 42 43 00-0026 EA Exposed Manual Water Closet Flush Valve (Zurn Z6000AV-HET).....	312.39	44.22
22 42 43 00-0027 EA Exposed Battery Powered Water Closet Flush Valve (Zurn ZER6000AV-HET).....	833.59	44.22
22 42 43 00-0028 Urinal Flush Valves (22 42 43)		
22 42 43 00-0029 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 186 XL).....	224.68	44.22
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0030 EA 1-1/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 180).....	239.16	44.22
Note: 1.0, 1.5 or 3.5 GPF.		
22 42 43 00-0031 EA Back Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 195).....	308.33	44.22
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0032 EA Top Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 197).....	365.32	44.22
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0033 EA Exposed Infrared Urinal Flush Valve (Sloan Royal 186-ES-S).....	553.17	44.22
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0034 EA Back Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 195-WB-ES-S).....	730.50	44.22
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0035 EA Top Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 197-WB-ES-S).....	814.96	44.22
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0036 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Sloan G2 Opt+8186-1).....	544.70	44.22
Note: 1.0 GPF.		
22 42 43 00-0037 EA Exposed Infrared Urinal Flush Valve (3/4" V.B.) (Toto EcoPower TEU1LN12).....	971.22	44.22
Note: 0.5 GPF.		
22 42 43 00-0038 EA Top Spud, Exposed Solar/Battery Powered Urinal Flush Valve (Sloan Solis 8186-0.13).....	499.48	44.22
Note: 0.13 GPF.		
22 42 43 00-0039 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Zurn Z6003AV-ULF).....	251.86	44.22
Note: 0.125 GPF.		
22 42 43 00-0040 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Zurn ZTR6203-ULF).....	584.50	44.22
Note: 0.125 GPF.		
22 42 43 00-0041 EA Exposed Infrared Urinal Flush Valve (Zurn ZEMS6003AV-ULF-IS).....	601.54	44.22
Note: 0.125 GPF.		
22 42 43 00-0042 Removal And Reinstallation Of Fixtures And Trim (22 42 43)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 43 00-0043 EA Removal And Reinstallation Of Flush Valve.....	176.05	
22 42 43 00-0044 Plumbing Control Transformers (22 42 43)		
22 42 43 00-0045 EA 6 Volt DC, 120 Volt AC Plug In Style Power Transformer (Zurn P6000-PC6).....	57.48	
22 42 46 Chemical Toilets (22 42)		
Note: Includes toilet, urinal, holding tank, and ventilation system. Building to be priced separately.		
22 42 46 00-0001 Standard Chemical Toilets (22 42 46)		
22 42 46 00-0002 Small Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0003 EA Chemical Toilet, Small Tank 7,000 Uses/Year.....	5,350.14	1,296.75
For Extra Urinal, Add	171.92	
22 42 46 00-0004 Medium Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0005 EA Chemical Toilet, Medium Tank 13,000 Uses/Year.....	6,359.90	1,544.44
For Extra Urinal, Add	203.74	



Plumbing	22	22
Plumbing Fixtures	22 40	
Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 46 00-0006 Large Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0007 EA Chemical Toilet, Large Tank 28,000 Uses/Year For Extra Urinal, Add	7,589.17 268.78	1,751.91
22 43 Healthcare Plumbing Fixtures (22 43)		
22 43 13 Healthcare Water Closets (22 43)		
22 43 13 00-0001 Healthcare Water Closets (22 43 13)		
22 43 13 00-0002 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Priolo® ADA)	936.96	134.86
22 43 13 00-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Madera™ ADA)	766.10	134.86
22 43 16 Healthcare Sinks (22 43)		
22 43 16 00-0001 Healthcare Sinks (22 43 16) Note: Includes trap, drain and supply valves. Excludes faucets and flush valves.		
22 43 16 00-0002 EA 25" x 21", Wall Mounted, Blow Out Flushing Rim, Vitreous China Clinic Service Sink (American Standard) For Stainless Steel Rim Guards (Three Sides), Add	1,225.72 103.67	86.88
22 43 16 00-0003 EA 29" x 20", Floor Mounted, Siphon Jet Flushing Rim, Vitreous China Clinic Service Sink (American Standard)..... For Stainless Steel Rim Guards (Three Sides), Add For Pedestal Base, Add	1,350.45 103.67 475.30	249.62
22 43 16 00-0004 EA 28" x 22", Wall Mounted, Vitreous China Surgeon's Scrub Sink (American Standard)..... For Painted Bracket Supports, Add	1,180.08 175.41	86.88
22 43 16 00-0005 EA 20" x 17", Wall Mounted, Vitreous China Intensive Care Unit Sink (American Standard)	1,043.16	86.88
22 43 39 Healthcare Faucets (22 43)		
22 43 39 00-0001 Medical Faucet Spouts (22 43 39)		
22 43 39 00-0002 EA Deck Mounted, Rigid Gooseneck Medical Lavatory Spout (American Standard 7522)	105.00	19.45
22 43 39 00-0003 Electronic Proximity Medical Faucets (22 43 39)		
22 43 39 00-0004 EA DC Or Plug-In AC Powered, Single Inlet, Electronic Proximity Medical Lavatory Faucet (American Standard Selectronic™ ICU)..... For Hard Wired AC Powered, Add	581.06 23.61	95.18
22 43 39 00-0005 Foot And Knee Faucet Controls (22 43 39)		
22 43 39 00-0006 EA Single Supply Metering Pedal Valve (Chicago Faucet 628)	403.01	172.99
22 43 39 00-0007 EA Double Supply Metering Pedal Valve (Chicago Faucet 625)	453.42	172.99
22 43 39 00-0008 EA Knee Actuated Metering Mixing Valve (Chicago Faucet 745-VOCP)	842.00	172.99
22 43 39 00-0009 EA Double Knee Actuated Metering Mixing Valve (American Standard 7676).....	697.09	172.99
22 43 39 00-0010 Centerset Medical Faucets (22 43 39)		
22 43 39 00-0011 EA Rigid Gooseneck Centerset Medical Lavatory Faucet, 8" Centers 6" Wrist Action Handles, Adjustable Centers (T&S B-0865-04)	460.02	95.18
22 43 39 00-0012 EA Swivel Gooseneck Centerset Medical Lavatory Faucet, 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0866-04)	464.58	95.18
22 43 39 00-0013 EA Swivel Gooseneck Centerset Medical Lavatory Faucet With Aerator 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0867-04)	464.12	95.18
22 43 39 00-0014 EA Surgical Sink Rigid Gooseneck Faucets, 8" Centers, 6" Wrist Action Handles (T&S B-0322-04).....	420.74	95.18
22 43 39 00-0015 EA Surgical Sink Rigid Gooseneck Faucets With Stream Regulator Outlet, 8" Centers, 6" Wrist Action Handles (T&S B-0323-04).....	405.22	95.18
22 43 39 00-0016 Bedpan Washers (22 43 39)		
22 43 39 00-0017 EA Self Closing Pedal Valve Bed Pan Washer, With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose (T&S B-0675).....	1,059.15	172.99
22 43 39 00-0018 EA Pedal Valve Bed Panwasher With Volume Control Valve, Vacuum Breaker, Wall Hook Hose Connection, Extended Spray Polyvinyl Chloride Hose (T&S B-0676)	1,011.34	172.99
22 43 39 00-0019 EA Self Closing Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection Polyvinyl Chloride Hose (T&S B-0685).....	997.18	172.99
22 43 39 00-0020 EA Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose, Extended Spray (T&S B-0686)	983.41	172.99
22 43 43 Healthcare Plumbing Fixture Flushometers (22 43)		
22 43 43 00-0001 Healthcare Plumbing Fixture Flushometers (22 43 43)		
22 43 43 00-0002 EA Exposed Manual Service Sink Flush Valve (Sloan Royal-117).....	241.34	44.22
22 43 43 00-0003 EA Exposed Manual Water Closet Flush Valve With Bedpan Washer (Sloan Slimline BPW).....	507.67	44.22
22 43 46 Healthcare Patient Care Units (22 43)		

22	Plumbing
22 40	Plumbing Fixtures
22 43	Healthcare Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 43 46 00-0001 Patient Care Units (22 43 46)		
22 43 46 00-0002 EA 47" Swivel Toilet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-1700-AQCT-WB-BWSEV)	16,215.27	259.35
For SDB Single Temperature Dialysis Box, Add	1,162.81	
For DDB Dual Temperature Dialysis Box, Add	1,235.03	
For BWSEV Bedpan Washer With Elevated Valve, Add	959.72	
For LOCK Flush Valve Lockout Device, Add	655.43	
22 43 46 00-0003 EA 31" Swing Front Cabinet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-2600-SST-DC-AQCT-WB)	12,803.01	226.94
For SDB Single Temperature Dialysis Box, Add	1,162.81	
For DDB Dual Temperature Dialysis Box, Add	1,235.03	
For BWSEV Bedpan Washer With Elevated Valve, Add	959.72	
For LOCK Flush Valve Lockout Device, Add	655.43	
22 43 46 00-0004 Patient Care Plumbing Accessories (22 43 46)		
22 43 46 00-0005 EA One Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7920).....	1,537.34	35.21
22 43 46 00-0006 EA Two Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7919).....	1,691.53	35.21
22 45 Emergency Plumbing Fixtures (22 45)		
22 45 13 Emergency Showers (22 45)		
22 45 13 00-0001 Emergency Drench Showers (22 45 13)		
22 45 13 00-0002 Emergency Drench Showers (Haws) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0003 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122)	744.14	226.94
22 45 13 00-0004 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8123)	834.23	226.94
22 45 13 00-0005 EA Horizontal Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122HWC).....	884.28	226.94
22 45 13 00-0006 EA Horizontal Or Vertical Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8130)	1,034.42	226.94
22 45 13 00-0007 EA Horizontal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8133H).....	1,344.72	226.94
22 45 13 00-0008 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8100)	1,109.27	259.35
22 45 13 00-0009 EA Wall Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Stainless Steel Push Flag (Haws 8111FP)	1,219.15	291.77
22 45 13 00-0010 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8169).....	1,124.06	291.77
22 45 13 00-0011 EA Concealed Ceiling Supply, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8163)	1,144.08	291.77
22 45 13 00-0012 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Pull Down Lever Ball Valve Mounted In A Recessed Stainless Steel Cabinet (Haws 8164)	1,519.44	291.77
22 45 13 00-0013 Emergency Drench Showers (Speakman) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0014 EA Vertical Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-220)	657.34	226.94
22 45 13 00-0015 EA Horizontal Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-227).....	672.54	226.94
22 45 13 00-0016 EA Floor Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-253).....	992.37	259.35
22 45 13 00-0017 Emergency Drench Showers (WaterSaver) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0018 EA Emergency Shower, Vertically Mounted (WaterSaver ES635)	809.85	226.94
22 45 13 00-0019 EA Emergency Shower, Horizontally Mounted (WaterSaver ES643)	825.42	226.94
22 45 13 00-0020 EA All-Stainless Steel, Emergency Shower, Horizontally Mounted (WaterSaver ES691)	1,587.79	226.94
22 45 13 00-0021 EA Emergency Shower, Recess Mounted (WaterSaver ES629)	1,238.09	291.77
22 45 13 00-0022 EA Emergency Shower, Semi-Concealed (WaterSaver ES658)	1,590.32	291.77
22 45 16 Eyewash Equipment (22 45)		
22 45 16 00-0001 Emergency Eyewash Equipment (22 45 16)		
22 45 16 00-0002 Emergency Eyewash Equipment (Haws) (22 45 16 00-0001)		
22 45 16 00-0003 EA Faucet Mounted, Stainless Steel Emergency Eyewash (Haws Axion® eyePOD® 7620).....	273.22	6.48
22 45 16 00-0004 EA Wall Mounted, Freeze Protected, Emergency Eye Wash With Soft-Flo Heads And Stainless Steel Bowl (Haws 7433FP).....	1,439.37	291.77
22 45 16 00-0005 Emergency Eyewash Equipment (WaterSaver) (22 45 16 00-0001)		
22 45 16 00-0006 EA Auto Flow, Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805)	690.62	64.84
22 45 16 00-0007 EA Auto Flow, Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805LH)	690.62	64.84
22 45 16 00-0008 EA Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806)	702.41	64.84
22 45 16 00-0009 EA Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806LH)	702.41	64.84
22 45 16 00-0010 EA Stainless Steel Bowl, Emergency Eye Wash, Deck Mounted (WaterSaver EW822)	918.95	64.84
22 45 16 00-0011 EA Swing-Down, Auto Flow, Emergency Eye Wash, Wall Mounted (WaterSaver EW848).....	1,040.94	64.84
22 45 16 00-0012 EA Swing-Down, Auto Flow, Emergency Eye Wash, Deck Mounted (WaterSaver EW849).....	1,040.94	64.84
22 45 16 00-0013 EA Right Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893)	1,891.75	64.84



Plumbing	22
Plumbing Fixtures	22 40
Emergency Plumbing Fixtures	22 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 16 00-0014 EA Left Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893LH).....	1,891.75	64.84
22 45 16 00-0015 EA Right Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895).....	1,977.59	64.84
22 45 16 00-0016 EA Left Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895LH).....	1,977.59	64.84
22 45 16 00-0017 EA Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Wall Mounted (WaterSaver EW898).....	2,429.28	64.84
22 45 16 00-0018 EA Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW899).....	2,429.28	64.84
22 45 16 00-0019 EA Ball Valve With Flag Handle, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW808).....	1,343.92	226.94
22 45 16 00-0020 EA Push-Down Valve, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW810).....	1,327.27	226.94
22 45 16 00-0021 EA Stainless Steel Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814).....	999.11	226.94
22 45 16 00-0022 EA Stainless Steel Bowl And Cover, Emergency Eye Wash, Wall Mounted (WaterSaver EW814BC).....	1,345.18	226.94
22 45 16 00-0023 EA Plastic Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814P).....	875.56	226.94
22 45 23 Personal Eyewash Equipment (22 45)		
22 45 23 00-0001 Portable Eyewash Equipment (22 45 23)		
22 45 23 00-0002 Portable Eyewash Equipment (Bradley) (22 45 23 00-0001)		
22 45 23 00-0003 EA Portable (Wall Mounted) Heated Gravity-Fed Emergency Eye/Face Wash (Bradley S19-921H).....	1,514.72	19.45
22 45 26 Eye/Face Wash Equipment (22 45)		
22 45 26 00-0001 Emergency Eye/Face Wash Equipment (22 45 26)		
22 45 26 00-0002 Emergency Eye/Face Wash Equipment (Haws) (22 45 26 00-0001)		
22 45 26 00-0003 EA Unmounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7460).....	759.61	162.10
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0004 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly Without Receptor (Haws 7324).....	799.19	226.94
22 45 26 00-0005 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260B-7270B).....	784.18	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0006 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260BT-7270BT).....	843.24	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0007 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360B-7460B).....	849.24	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0008 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BT-7460BT).....	920.31	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0009 EA Wall Mounted, Barrier-Free, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BTWC).....	1,204.58	226.94
22 45 26 00-0010 EA Wall Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl And Dust Cover (Haws 7778B).....	2,155.50	226.94
22 45 26 00-0011 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7261-7271).....	969.13	259.35
22 45 26 00-0012 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7361-7461).....	1,084.25	259.35
22 45 26 00-0013 EA Pedestal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7777).....	2,245.36	259.35
22 45 26 00-0014 EA Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7611).....	595.12	64.84
22 45 26 00-0015 EA Right Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612).....	575.10	64.84
22 45 26 00-0016 EA Left Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612LH).....	600.12	64.84
22 45 26 00-0017 EA Wall Or Deck Mounted, Barrier-Free, Swing-Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7610).....	745.26	64.84
22 45 26 00-0018 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCC).....	1,909.59	324.19
22 45 26 00-0019 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCSM).....	2,235.36	259.35
22 45 26 00-0020 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCC).....	2,329.99	324.19
22 45 26 00-0021 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCSM).....	2,665.77	259.35
22 45 26 00-0022 Emergency Eye/Face Wash Equipment (Speakman) (22 45 26 00-0001)		
22 45 26 00-0023 EA Wall Mounted, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-495).....	720.67	226.94
22 45 26 00-0024 EA Floor Mounted, DuraJade™ Finish, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-496).....	870.78	259.35
22 45 26 00-0025 Emergency Eye/Face Wash Equipment (WaterSaver) (22 45 26 00-0001)		
22 45 26 00-0026 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl, Wall Mounted (WaterSaver FE724).....	1,216.28	226.94
22 45 26 00-0027 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl And Cover, Wall Mounted (WaterSaver FE724BC).....	1,562.35	226.94
22 45 26 00-0028 EA Wide Area, Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE727).....	1,518.35	226.94
22 45 26 00-0029 EA Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE765).....	1,413.37	226.94
22 45 26 00-0030 EA Auto Flow, Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774).....	724.96	64.84

22	Plumbing
22 40	Plumbing Fixtures
22 45	Emergency Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 26 00-0031 EA Auto Flow, Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774LH)	724.96	64.84
22 45 26 00-0032 EA Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775)	704.48	64.84
22 45 26 00-0033 EA Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775LH)	704.48	64.84
22 45 26 00-0034 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Wall Mounted (WaterSaver FE778)	1,056.33	64.84
22 45 26 00-0035 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE779)	1,056.33	64.84
22 45 26 00-0036 Emergency Eye/Face Wash Equipment (Guardian) (22 45 26 00-0001)		
Note: Includes one pull rod.		
22 45 26 00-0037 EA All-Stainless Steel Handicapped Accessible Safety Station With WideArea™ Eye/Face Wash (Guardian GBF1994)	4,617.67	226.94
22 45 29 Hand-Held Emergency Drench Hoses (22 45)		
22 45 29 00-0001 Hand-Held Emergency Eye/Face/Body Wash With Hose (22 45 29)		
22 45 29 00-0002 Hand-Held Emergency Eye/Face/Body Wash With Hose (Haws) (22 45 29 00-0001)		
22 45 29 00-0003 EA Counter Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 8' Hose (Haws 8904)	642.56	81.05
22 45 29 00-0004 EA Wall Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 12' Recoil Hose (Haws 8905)	732.65	81.05
22 45 29 00-0005 Hand-Held Emergency Eye/Face/Body Wash With Hose (WaterSaver) (22 45 29 00-0001)		
22 45 29 00-0006 EA Emergency Drench Hose Unit, Deck Mounted (WaterSaver EW1020)	574.81	81.05
22 45 29 00-0007 EA Emergency Drench Hose Unit, Wall Mounted (WaterSaver EW1025)	533.71	81.05
22 45 29 00-0008 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1014)	775.53	81.05
22 45 29 00-0009 EA Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1022)	729.79	81.05
22 45 29 00-0010 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1026)	746.17	81.05
22 45 29 00-0011 EA Ball Valve With Flag Handle, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028)	961.81	81.05
22 45 29 00-0012 EA Ball Valve With Flag Handle And Vacuum Breaker, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028VB)	1,105.23	81.05
22 45 29 00-0013 EA Emergency Eye Wash Drench Hose Unit, 45 Degree Panel Mounted (WaterSaver EW1041)	1,056.60	81.05
22 45 33 Combination Emergency Fixture Units (22 45)		
22 45 33 00-0001 Emergency Shower With Eye/Face Wash (22 45 33)		
22 45 33 00-0002 Emergency Shower With Eye/Face Wash (Haws) (22 45 33 00-0001)		
22 45 33 00-0003 EA Floor Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8330)	3,770.71	421.45
22 45 33 00-0004 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300FP)	2,629.61	421.45
Note: Includes freeze protection bury valve.		
22 45 33 00-0005 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300-8309)	1,903.91	421.45
22 45 33 00-0006 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300.158)	2,889.86	421.45
22 45 33 00-0007 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300CRP-8309CRP)	2,184.18	421.45
22 45 33 00-0008 EA Floor Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8309WC)	2,069.07	421.45
22 45 33 00-0009 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317)	1,803.82	421.45
22 45 33 00-0010 EA Floor Mounted, Corrosion Resistant, PVC Plastic, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8336)	2,799.78	421.45
22 45 33 00-0011 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCC)	3,045.01	421.45
22 45 33 00-0012 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCW)	3,100.07	421.45
22 45 33 00-0013 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCC)	3,435.39	421.45
22 45 33 00-0014 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan, Daylight Drain And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCDD)	3,630.58	421.45
22 45 33 00-0015 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCW)	3,575.52	421.45
22 45 33 00-0016 EA Floor Mounted, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP)	5,227.12	421.45
22 45 33 00-0017 EA Floor Mounted, 220 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP.220V)	5,497.38	421.45
22 45 33 00-0018 EA Floor Mounted, C1D1 Rated, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFPC1D1)	11,353.02	421.45
22 45 33 00-0019 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320-8325)	1,803.82	421.45



Plumbing	22	
Plumbing Fixtures	22 40	22
Emergency Plumbing Fixtures	22 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 33 00-0020 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320CRP).....	2,009.01	421.45
22 45 33 00-0021 Emergency Shower With Eye/Face Wash (Speakman) (22 45 33 00-0001)		
22 45 33 00-0022 EA Floor Mounted, Emergency Drench Shower With Plastic Showerhead And Eye/Face Wash With Plastic Bowl (Speakman SE-690).....	1,621.36	421.45
22 45 33 00-0023 Emergency Shower With Eye/Face Wash (WaterSaver) (22 45 33 00-0001)		
22 45 33 00-0024 EA All-Stainless Steel, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS994).....	4,989.94	352.11
22 45 33 00-0025 EA Polished Chrome Construction, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS909PCC).....	5,094.23	352.11
22 45 33 00-0026 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl, Floor Mounted (WaterSaver SS902).....	2,154.93	352.11
22 45 33 00-0027 EA Emergency Shower With Eye Wash Station And Plastic Bowl, Floor Mounted (WaterSaver SS902P).....	1,992.67	352.11
22 45 33 00-0028 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl And Cover, Floor Mounted (WaterSaver SS902BC).....	2,500.99	352.11
22 45 36 Emergency Fixture Water-Tempering Equipment (22 45)		
22 45 36 00-0001 Emergency Fixture Water-Tempering Equipment (22 45 36)		
22 45 36 00-0002 Emergency Fixture Water-Tempering Equipment (Haws) (22 45 36 00-0001)		
22 45 36 00-0003 EA 10 GPM, 1/2" Inlet, 1/2" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EW).....	677.60	81.05
22 45 36 00-0004 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EFE).....	972.88	81.05
22 45 36 00-0005 EA 31 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201E).....	1,408.30	81.05
22 45 36 00-0006 EA 78 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9202E).....	1,653.54	81.05
22 45 36 00-0007 EA 31 GPM, 1" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws 9201H).....	2,324.18	81.05
22 45 36 00-0008 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Secondary High Temperature Limit Valve, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.EWE).....	2,449.30	81.05
22 45 36 00-0009 EA 74 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.SHE).....	4,085.88	81.05
22 45 36 00-0010 EA 78 GPM, 2" Inlet, 2" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.HF).....	4,901.67	81.05
22 45 36 00-0011 EA 1/2" Inlet, 1/2" Outlet, Brass Scald Protection Bleed Valve (Haws SP157B).....	752.67	81.05
22 45 39 Emergency Plumbing Fixture Accessories (22 45)		
22 45 39 00-0001 Emergency Plumbing Fixture Accessories (22 45 39)		
22 45 39 00-0002 Emergency Plumbing Fixture Accessories (Haws) (22 45 39 00-0001)		
22 45 39 00-0003 EA Pedestal Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220).....	176.99	25.94
22 45 39 00-0004 EA Wall Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220W).....	242.05	25.94
22 45 39 00-0005 EA Pedestal Mounted, Stainless Steel Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220SS).....	252.06	25.94
22 45 39 00-0006 EA Axion® MSR Stainless Steel Showerhead For Emergency Drench Showers (Haws SP829SS).....	269.69	9.73
22 45 39 00-0007 EA Stainless Steel Dust Cover For Emergency Eye/Face Wash Bowls (Haws 9102).....	273.22	6.48
22 45 39 00-0008 EA 3-Sided ABS Plastic Safety Sign For Emergency Combination Shower And Eyewash Units (Haws 9020).....	301.21	12.97
22 45 39 00-0009 EA Emergency Body Spray Kit With 8' Hose And ABS Plastic Head For Emergency Plumbing Fixtures (Haws 8901RFK).....	569.87	97.26
22 45 39 00-0010 EA Class 1, Div. 1, Group B, C And D, Indicator Light For Emergency Plumbing Fixtures (Haws 8317IDLTEXP).....	552.67	41.11
22 45 39 00-0011 EA Vapor Tight And Gasketed, Green Area Light For Emergency Plumbing Fixtures (Haws 8317LT).....	812.92	41.11
22 45 39 00-0012 EA Privacy Curtain For Horizontal Emergency Drench Shower Or Combination Emergency Drench Shower And Eyewash Units (Haws 9037).....	972.88	97.26
22 45 39 00-0013 EA Class 1, Div. 1, Group B, C And D, White Area Light For Emergency Plumbing Fixtures (Haws 8317LTEXP).....	1,788.87	41.11
22 45 39 00-0014 EA 1/2" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001.5).....	2,025.74	137.03
22 45 39 00-0015 EA 1-1/4" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001).....	2,065.78	137.03
22 45 39 00-0016 EA 1-1/4" Supply, Class 1, Division 2, Groups B, C, And D Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXP).....	3,777.43	137.03
22 45 39 00-0017 EA 1-1/4" Supply, 90 db, Class 1, Division 1, Groups C And D, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXPC1D1).....	7,130.66	137.03
22 45 39 00-0018 Emergency Plumbing Fixture Accessories (Speakman) (22 45 39 00-0001)		
22 45 39 00-0019 EA Privacy Curtain For Emergency Showers.....	954.08	97.26
Note: Curtain includes stainless steel curtain rod and mounting accessories.		
22 45 39 00-0020 Emergency Plumbing Fixture Accessories (WaterSaver) (22 45 39 00-0001)		
22 45 39 00-0021 EA Hand And Foot Control For Emergency Eyewash Equipment (WaterSaver HFC).....	152.08	21.13
22 46 Security Plumbing Fixtures (22 46)		
22 46 13 Security Water Closets and Urinals (22 46)		

22	Plumbing
22 40	Plumbing Fixtures
22 46	Security Plumbing Fixtures



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 46 13 13 Security Water Closets (22 46 13)

22 46 13 13-0001 Security Water Closets (22 46 13 13)

22 46 13 13-0002	EA	Security Water Closet, Integral Seat, Back Supply And Flush Valve, Wall Hung, Wall Outlet, Cast Aluminum (Acorn 1675).....	3,382.87	324.19
		<i>For Angled Toilet, Add</i>	32.42	
		<i>For Offset Toilet, Add</i>	305.87	
22 46 13 13-0003	EA	Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Wall Outlet, Cast Aluminum (Acorn 1684).....	4,087.24	324.19
		<i>For Angled Toilet, Add</i>	32.42	
		<i>For Offset Toilet, Add</i>	376.31	
22 46 13 13-0004	EA	Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Floor Outlet, Cast Aluminum (Acorn 1695).....	4,148.95	324.19
		<i>For Angled Toilet, Add</i>	32.42	
		<i>For Offset Toilet, Add</i>	382.48	
22 46 13 13-0005	EA	Recessed Tissue Holder For Security Water Closet, Stainless Steel (Acorn 1840).....	382.80	64.84

22 46 13 16 Security Urinals (22 46 13)

22 46 13 16-0001 Security Urinals (22 46 13 16)

22 46 13 16-0002	EA	Security Urinal, Back Supply And Flush, Wall Hung, Stainless Steel (Acorn 1700).....	3,994.75	291.77
22 46 13 16-0003	EA	Security Urinal, Back Supply And Flush, Stall, Stainless Steel (Acorn 1720).....	6,772.67	414.58

22 46 13 19 Security Combination Toilet and Lavatory (22 46 13)

22 46 13 19-0001 Security Combination Toilet - Lavatory (22 46 13 19)

22 46 13 19-0002	EA	15" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1415).....	6,119.77	401.99
		<i>For Angled Toilet, Add</i>	40.20	
		<i>For Offset Toilet, Add</i>	571.78	
		<i>For 15" Mirror/Shelf Module, Add</i>	952.00	
		<i>For AC Duplex Outlet Option, Add</i>	110.40	
		<i>For Intercom Option, Add</i>	155.40	
		<i>For 15" Wide Light/Ventilation Module, Add</i>	876.20	
22 46 13 19-0003	EA	18" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1418).....	6,305.50	421.45
		<i>For Angled Toilet, Add</i>	42.14	
		<i>For Offset Toilet, Add</i>	588.41	
		<i>For 18" Mirror/Shelf Module, Add</i>	996.45	
		<i>For AC Duplex Outlet Option, Add</i>	114.29	
		<i>For Intercom Option, Add</i>	159.29	
		<i>For 18" Wide Light/Ventilation Module, Add</i>	902.87	
22 46 13 19-0004	EA	20" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1420).....	6,446.56	440.89
		<i>For Angled Toilet, Add</i>	44.09	
		<i>For Offset Toilet, Add</i>	600.57	
		<i>For 20" Mirror/Shelf Module, Add</i>	1,050.90	
		<i>For AC Duplex Outlet Option, Add</i>	118.18	
		<i>For Intercom Option, Add</i>	163.18	
		<i>For 20" Wide Light/Ventilation Module, Add</i>	939.54	
22 46 13 19-0005	EA	26" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1426).....	6,898.28	460.35
		<i>For Angled Toilet, Add</i>	46.03	
		<i>For Offset Toilet, Add</i>	643.79	
		<i>For 26" Mirror/Shelf Module, Add</i>	1,095.35	
		<i>For AC Duplex Outlet Option, Add</i>	122.07	
		<i>For Intercom Option, Add</i>	167.07	
		<i>For 26" Wide Light/Ventilation Module, Add</i>	971.21	
22 46 13 19-0006	EA	28" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Floor Mounted, Stainless Steel (Acorn 1428).....	11,101.71	479.80
		<i>For Angled Toilet, Add</i>	47.98	
		<i>For Offset Toilet, Add</i>	1,062.19	
		<i>For 28" Mirror/Shelf Module, Add</i>	1,134.80	
		<i>For AC Duplex Outlet Option, Add</i>	125.96	
		<i>For Intercom Option, Add</i>	170.96	
		<i>For 28" Wide Light/Ventilation Module, Add</i>	1,002.88	

22 46 16 Security Lavatories and Sinks (22 46)

22 46 16 13 Security Lavatories (22 46 16)

22 46 16 13-0001 Security Lavatories (22 46 16 13)

22 46 16 13-0002	EA	20" Security Lavatory, Wall Hung, Push Button Filler Valve, Rectangular Bowl, Stainless Steel (Acorn 1650).....	2,437.74	226.94
		<i>For Shelf, Add</i>	103.08	
22 46 16 13-0003	EA	18" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Stainless Steel (Acorn 1655).....	2,478.59	226.94
		<i>For Shelf, Add</i>	103.08	
22 46 16 13-0004	EA	13" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Corner Mount, Stainless Steel (Acorn 1660).....	2,823.62	226.94
		<i>For Shelf, Add</i>	103.08	
22 46 16 13-0005	EA	18" Security Lavatory, Wall Hung, Push Button Filler Valve, Multi Sided Bowl, Stainless Steel (Acorn 1656).....	2,478.59	226.94
		<i>For Shelf, Add</i>	103.08	



Plumbing	22	22
Plumbing Fixtures	22 40	
Security Plumbing Fixtures	22 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 46 16 16 Security Sinks (22 46 16)		
22 46 16 16-0001 Security Sinks (22 46 16 16)		
22 46 16 16-0002 EA 22" x 16" x 10" Security Service Sink, With Soap Dish, Stainless Steel (Acorn 1642).....	5,235.53	345.58
22 46 16 16-0003 Security Mop Sink (22 46 16 16)		
22 46 16 16-0004 EA 24" x 24" x 10" Stainless Steel Mop Sink With Strainer (ACORN 1630).....	3,419.26	194.51
22 46 19 Security Showers (22 46)		
22 46 19 00-0001 EA Security Shower Package For Built-in, Hot And Cold Faucets, Mixing Valve, Rectangular Soap Dish, Stainless Steel (Acorn 1741).....	885.89	173.11
22 46 19 00-0002 EA Security Shower Head With Mixing Valves And Piping Assembly In Wall (Acorn 1743).....	642.33	90.78
22 46 19 00-0003 EA 30" Security Shower, Stainless Steel, Knock-Down (Acorn 1730-3M-KD).....	13,632.90	518.70
22 46 19 00-0004 EA 32" Security Shower, Stainless Steel, Knock-Down (Acorn 1732-3M-KD).....	14,126.60	518.70
22 46 19 00-0005 EA 36" Security Shower, Stainless Steel, Knock-Down (Acorn 1736-3M-KD).....	14,634.70	518.70
22 46 19 00-0006 EA 36" ADA Security Shower, Stainless Steel, Front Access (Acorn 1736-ADA-3M-FA).....	18,613.09	518.70
22 46 19 00-0007 EA Wall Mounted Security Shower, Stainless Steel (Acorn 452).....	1,368.74	136.16
For PWT Electronic FV, Add	148.00	
22 46 19 00-0008 EA Wall Mounted ADA Security Shower, Stainless Steel (Acorn 452 ADA).....	1,654.68	136.16
For PWT Electronic FV, Add	148.00	
22 46 56 Security Drinking Fountains (22 46)		
22 46 56 00-0001 Security Drinking Fountain (22 46 56)		
Note: Includes air control valve, bubbler with mouthguard and mounting bracket.		
22 46 56 00-0002 EA Wall Mounted Security Drinking Fountain, Stainless Steel (Acorn 1670-1-BP-3-FA).....	2,755.51	259.35
22 46 56 00-0003 EA Wall Mounted Security ADA Drinking Fountain, Stainless Steel (Acorn 1672-1-ADA-BP-3-FA).....	2,775.21	259.35
22 47 Drinking Fountains and Water Coolers (22 40)		
22 47 13 Drinking Fountains (22 47)		
22 47 13 00-0001 Indoor Drinking Fountains (22 47 13)		
22 47 13 00-0002 Face Mounted Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0003 EA Stainless Steel, Standard Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-S).....	1,630.26	210.72
22 47 13 00-0004 EA Stainless Steel, Standard Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-SBP).....	2,318.64	226.94
22 47 13 00-0005 EA Stainless Steel, Extended Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-E).....	2,101.79	210.72
22 47 13 00-0006 EA Stainless Steel, Extended Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-EBP).....	2,488.46	226.94
22 47 13 00-0007 EA Stainless Steel, Standard Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFS).....	1,140.92	210.72
22 47 13 00-0008 EA Stainless Steel, Standard Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners With Back Panel (Halsey-Taylor HRFSBP).....	1,346.83	226.94
22 47 13 00-0009 EA Stainless Steel, Extended Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFE).....	1,271.37	210.72
22 47 13 00-0010 EA Stainless Steel, Extended Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFEBP).....	1,523.17	226.94
22 47 13 00-0011 Wall Mounted Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0012 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor 5701).....	1,181.51	226.94
22 47 13 00-0013 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8WF).....	1,612.09	226.94
22 47 13 00-0014 EA Bi-Level, Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8BLWF).....	2,193.11	226.94
22 47 13 00-0015 Semi-Recessed Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0016 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler (Halsey-Taylor 5801).....	1,544.08	243.14
22 47 13 00-0017 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C).....	3,118.53	243.14
22 47 13 00-0018 Fully Recessed Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0019 EA Stainless Steel Fully-Recessed, With Bubbler, Indoor Drinking Fountain (Halsey-Taylor 8880, Haws 2400).....	1,651.11	259.35
22 47 13 00-0020 EA Stainless Steel Fully-Recessed, With Bubbler And Cuspidor, Indoor Drinking Fountain (Halsey-Taylor 8800 With 10245, Haws 2403).....	2,859.00	259.35
22 47 13 00-0021 Countertop Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0022 EA Stainless Steel Countertop Circular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 10000).....	723.49	162.10

22 Plumbing**22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 13 00-0023 EA Stainless Steel Countertop Rectangular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6000).....	700.75	162.10
22 47 13 00-0024 EA Stainless Steel Countertop Oval Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6028).....	825.36	162.10
22 47 13 00-0025 Bowl And Bracket Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0026 EA Stainless Steel, Bowl And Bracket With Pushbutton Bubbler, Indoor Drinking Fountain (Halsey-Taylor 2501A).....	628.89	162.10
22 47 13 00-0027 EA Stainless Steel, Bowl And Bracket, Self Closing Lever Handle Stop, Indoor Drinking Fountain (Halsey-Taylor 4540).....	734.52	162.10
22 47 13 00-0028 Multi-Station Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0029 EA Two Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7020).....	2,963.60	259.35
22 47 13 00-0030 EA Three Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7030).....	3,680.30	259.35
22 47 13 00-0031 EA Two Station, Marblyte, Face-Mounted Indoor Drinking Fountain With Bubblers (Halsey-Taylor 7120).....	2,835.26	259.35
22 47 13 00-0032 EA Two Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1430).....	2,419.69	259.35
22 47 13 00-0033 EA Three Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1435).....	2,999.99	259.35
22 47 13 00-0034 EA Bi-Level, Stainless Steel, Indoor Drinking Fountain With Bubblers And Back Panel (Halsey-Taylor HRFSEBP, Haws 1119.14 With 6700.4).....	2,688.34	330.83
22 47 13 00-0035 EA Two Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1441).....	4,514.37	259.35
22 47 13 00-0036 EA Three Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1408).....	4,437.38	259.35
22 47 13 00-0037 Outdoor Drinking Fountains (22 47 13)		
22 47 13 00-0038 Face Mounted Outdoor Drinking Fountains (22 47 13 00-0037)		
22 47 13 00-0039 EA Stainless Steel Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFE-FR).....	1,464.50	259.35
22 47 13 00-0040 EA Stainless Steel Freeze Resistant Face Mounted, With Back Panel, Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFEFB-FR).....	1,588.01	259.35
22 47 13 00-0041 EA Stone Aggregate Weather Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592).....	1,534.38	259.35
22 47 13 00-0042 EA Stone Aggregate Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592-FR).....	2,166.54	259.35
22 47 13 00-0043 EA Stainless Steel Face Mounted Outdoor Drinking Fountain With Bubbler (Oasis FLF140PM).....	1,313.29	259.35
Note: For use with remote chillers		
22 47 13 00-0044 Free Standing Outdoor Drinking Fountains (22 47 13 00-0037)		
22 47 13 00-0045 EA Steel Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715).....	2,607.00	243.14
22 47 13 00-0046 EA Steel Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715-FR).....	3,592.61	243.14
22 47 13 00-0047 EA Steel Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710).....	2,603.72	243.14
22 47 13 00-0048 EA Steel Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710-FR).....	3,529.66	243.14
22 47 13 00-0049 EA Steel Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720).....	3,803.00	259.35
22 47 13 00-0050 EA Steel Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720-FR).....	3,868.81	259.35
22 47 13 00-0051 EA Stone Aggregate Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4591).....	1,540.94	243.14
22 47 13 00-0052 EA Stone Aggregate Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590).....	2,535.49	243.14
22 47 13 00-0053 EA Stone Aggregate Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590-FR).....	3,521.11	243.14
22 47 13 00-0054 EA Stone Aggregate Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595).....	4,125.58	259.35
22 47 13 00-0055 EA Stone Aggregate Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595-FR).....	5,716.53	259.35
22 47 16 Pressure Water Coolers (22 47)		
22 47 16 00-0001 Indoor Water Coolers (22 47 16)		
22 47 16 00-0002 Face Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0003 EA Stainless Steel, Semi-Circular Water Cooler With Bubbler, Face-Mounted, Extended Length, 180 Degree Push Bar, 7.5 GPH (Halsey-Taylor OVL-II ER-Q).....	2,976.64	259.35
22 47 16 00-0004 EA Stainless Steel, Semi-Circular Water Cooler, Electronic Sensor, Face-Mounted, Extended Length, With Bubbler, 7.5 GPH (Halsey-Taylor OVL-II EREE-Q).....	3,165.96	259.35
22 47 16 00-0005 Wall Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0006 EA Stainless Steel Wall-Mounted Compact Water Cooler, 4 GPH, With Bubbler, (Halsey-Taylor SW4A-Q).....	1,510.00	259.35
22 47 16 00-0007 EA Stainless Steel Wall-Mounted Compact Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SW8A-Q).....	1,558.75	259.35
22 47 16 00-0008 EA Stainless Steel Wall-Mounted Compact Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SW14A-Q).....	1,711.51	259.35
22 47 16 00-0009 EA Stainless Steel Wall-Mounted Vandal Resistant Compact Water Cooler With Bubbler, 8 GPH (Halsey-Taylor SW8A-VR-Q-SS).....	1,770.02	259.35
22 47 16 00-0010 EA Stainless Steel Wall-Mounted Vandal Resistant Barrier Free Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8-CHILD ADA).....	1,357.24	259.35
22 47 16 00-0011 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor WC8AFS-Q-SS).....	1,544.13	259.35
22 47 16 00-0012 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor HAC8FS-Q Child SS).....	1,252.43	259.35
22 47 16 00-0013 EA Stainless Steel Wall-Mounted Water Cooler, 8 GPH, With Bubbler, (Halsey-Taylor HAC8VR-BL).....	1,794.66	259.35
22 47 16 00-0014 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HAC8FSBL-Q-SS).....	2,068.37	389.02



Plumbing	22	22
Plumbing Fixtures	22 40	
Drinking Fountains and Water Coolers	22 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 16 00-0015 Simulated Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0016 EA Stainless Steel Simulated Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RWM8A-Q)	1,766.62	259.35
22 47 16 00-0017 Fully Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0018 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RC8A-Q)	3,286.82	291.77
22 47 16 00-0019 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser, 8 GPH (Halsey-Taylor RC8AQ + 14762)	3,970.70	291.77
22 47 16 00-0020 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser And Glass Filler, 8 GPH (Halsey-Taylor RC8A-Q-14700).....	4,613.76	291.77
22 47 16 00-0021 Free Standing Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0022 EA Stainless Steel, Free-Standing Indoor Water Cooler, 4 GPH, With Bubbler (Halsey-Taylor SCWT4A-Q).....	1,439.46	226.94
22 47 16 00-0023 EA Stainless Steel, Free-Standing Indoor Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SCWT8A-Q).....	1,534.53	226.94
22 47 16 00-0024 EA Stainless Steel, Free-Standing Indoor Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SCWT14A-Q).....	1,720.60	226.94
22 47 16 00-0025 EA Stainless Steel, Free-Standing Vandal Resistant Water Cooler With Bubbler, 14 GPH (Halsey-Taylor SCWT14A-VR-Q)	1,896.93	226.94
22 47 16 00-0026 Bottled Water Coolers (22 47 16 00-0001)		
22 47 16 00-0027 EA Free-Standing Bottled Water Cooler With Chilled Or Room Temperature Water	533.43	129.67
22 47 16 00-0028 EA Free-Standing Bottled Water Cooler With Chilled Or Hot Water.....	620.75	129.67
22 47 16 00-0029 Multi-Station Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0030 EA Stainless Steel, Wall Mounted, Two Station, Semi-Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II SER-Q)	3,356.25	389.02
22 47 16 00-0031 EA Stainless Steel, Wall Mounted, Two Station, Electronic Sensor Semi Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II-SEREE-Q).....	4,995.15	389.02
22 47 16 00-0032 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BL-CHILD ADA-SS)	2,220.31	389.02
22 47 16 00-0033 Outdoor Water Coolers (22 47 16)		
22 47 16 00-0034 Wall Mounted Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0035 EA Stainless Steel, Wall Mounted, Barrier Free, Vandal Resistant, Frost Resistant Outdoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8FR-CHILD ADA-SS)	1,492.98	162.10
22 47 16 00-0036 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Outdoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BLFR-CHILD ADA-SS)	2,488.80	162.10
22 47 16 00-0037 Free Standing Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0038 EA Stainless Steel Free-Standing Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-Q)	2,446.93	243.14
22 47 16 00-0039 EA Stainless Steel Free-Standing Frost Resistant Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-FR-Q)	2,901.95	243.14
22 47 16 00-0040 Removal And Reinstallation Of Fixtures And Trim (22 47 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 47 16 00-0041 EA Removal And Reinstallation Of Wall Hung Water Cooler	629.08	
22 47 16 00-0042 EA Removal And Reinstallation Of Floor Mount Water Cooler.....	140.84	
22 47 19 Water-Station Water Coolers (22 47)		
22 47 19 00-0001 Bottle Filler (22 47 19)		
22 47 19 00-0002 EA Outdoor Tubular Bottle Filling Station, Surface Mount (Elkay LK4410BF).....	3,478.57	259.35
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0003 EA Outdoor Tubular Bottle Filling Station, Surface Mount, Freeze Resistant (Elkay LK4410BFFRK).....	4,356.86	259.35
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0004 EA Tri-level Outdoor Tubular Bottle Filling Station With Single Bottle Filler And Two Drinking Fountain Basins, Surface Mount (Elkay LK4430BF1)	5,565.90	291.77
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0005 EA Tri-level Outdoor Tubular Bottle Filling Station With Two Bottle Fillers And Single Drinking Fountain Basin, Surface Mount (Elkay LK4430BF2)	5,998.77	291.77
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0006 EA Tri-level Outdoor Tubular Bottle Filling Station With Three Bottle Fillers, Surface Mount (Elkay LK4430BF3)	6,431.63	291.77
For Stainless Steel Carrier, Add		205.00
22 47 23 Remote Water Coolers (22 47)		
22 47 23 00-0001 Remote Chillers (22 47 23)		
22 47 23 00-0002 EA 1.5 GPH Remote Chiller (Halsey-Taylor SJ1-Q).....	855.96	87.53
22 47 23 00-0003 EA 5 GPH Remote Chiller (Halsey-Taylor SJ5-Q).....	1,276.82	97.26
22 47 23 00-0004 EA 8 GPH Remote Chiller (Halsey-Taylor SJ8-Q).....	1,117.48	113.46
22 47 23 00-0005 EA 10 GPH Remote Chiller (Halsey-Taylor SJ10-Q).....	1,426.97	129.67

22 Plumbing**22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 47 23 00-0006	EA		19 GPH Remote Chiller (Halsey-Taylor SJ19-Q).....	2,229.45	194.51
22 47 23 00-0007	EA		30 GPH Remote Chiller (Halsey-Taylor SJ30-Q).....	2,417.04	210.72

22 47 26 Fixture Carriers (22 47)**22 47 26 00-0001 Water Cooler Carriers (22 47 26)****22 47 26 00-0002 Floor Mounted, Water Cooler Carriers (22 47 26 00-0001)**

Note: Includes adjustable supporting rods, structural uprights and welded feet.

22 47 26 00-0003	EA		Floor Mounted Hanger Plate Type, Single Water Cooler Carrier.....	518.36	49.28
			For Up To 4" Extension Sleeves And Hardware, Add	23.63	
			For Bi-Level Carrier, Add	279.17	
22 47 26 00-0004	EA		Floor Mounted Bearing Plate Type, Single Water Cooler Carrier.....	561.12	49.28
			For Up To 4" Extension Sleeves And Hardware, Add	23.63	
			For Bi-Level Carrier, Add	279.17	

22 50 Pool and Fountain Plumbing Systems (22)**22 51 Swimming Pool Plumbing Systems (22 50)****22 51 13 Swimming Pool Piping (22 51)****22 51 13 00-0001 Swimming Pool Gutters (22 51 13)**

22 51 13 00-0002	LF		Swimming Pool Gutters, Stainless.....	301.07	29.18
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22 51 19 Swimming Pool Water Treatment Equipment (22 51)**22 51 19 00-0001 Swimming Pool Heaters (22 51 19)**

Note: Excludes wiring, external piping, base or pad. Commercial pools.

22 51 19 00-0002 Electric Pool Heaters (22 51 19 00-0001)

22 51 19 00-0003	EA		12 KW Heater (1 Degree/Hour), For 4,800 Gallon Pool.....	4,727.31	259.35
22 51 19 00-0004	EA		18 KW Heater (1 Degree/Hour), For 7,200 Gallon Pool.....	5,279.44	278.80
22 51 19 00-0005	EA		24 KW Heater (1 Degree/Hour), For 9,600 Gallon Pool.....	5,870.40	324.19
22 51 19 00-0006	EA		30 KW Heater (1 Degree/Hour), For 12,000 Gallon Pool.....	6,228.89	389.02
22 51 19 00-0007	EA		36 KW Heater (1 Degree/Hour), For 14,400 Gallon Pool.....	6,889.97	544.64
22 51 19 00-0008	EA		60 KW Heater (1 Degree/Hour), For 24,000 Gallon Pool.....	7,946.41	778.05

22 51 19 00-0009 Gas Fired Pool Heaters (22 51 19 00-0001)

22 51 19 00-0010	EA		120 MBH Output Gas Fired Pool Heater.....	5,930.29	1,164.16
22 51 19 00-0011	EA		180 MBH Output Gas Fired Pool Heater.....	6,741.14	1,330.47
22 51 19 00-0012	EA		240 MBH Output Gas Fired Pool Heater.....	7,613.03	1,496.78
22 51 19 00-0013	EA		300 MBH Output Gas Fired Pool Heater.....	8,827.84	1,829.40
22 51 19 00-0014	EA		360 MBH Output Gas Fired Pool Heater.....	9,113.38	1,927.92
22 51 19 00-0015	EA		400 MBH Output Gas Fired Pool Heater.....	10,482.88	2,267.67
22 51 19 00-0016	EA		500 MBH Output Gas Fired Pool Heater.....	15,987.53	2,616.55
22 51 19 00-0017	EA		600 MBH Output Gas Fired Pool Heater.....	18,456.17	2,878.21
22 51 19 00-0018	EA		750 MBH Output Gas Fired Pool Heater.....	20,756.43	3,139.86
22 51 19 00-0019	EA		1,000 MBH Output Gas Fired Pool Heater.....	26,444.97	3,706.78

22 51 19 00-0020 Surge Tanks (22 51 19)

Note: Includes 100 GPM vertical pump with 2 HP motor and electronic float switch. Prices are for 1' To 5' sump depth for pump.

22 51 19 00-0021	EA		1,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	14,999.77	950.92
22 51 19 00-0022	EA		1,500 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	16,676.80	950.92
22 51 19 00-0023	EA		2,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	20,070.99	1,165.17
22 51 19 00-0024	EA		5,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	27,069.32	1,880.47

22 51 19 00-0025 Diatomite Type Filter System (22 51 19)

22 51 19 00-0026	EA		35,000 Gallon Filter System, Diatomite.....	16,476.51	3,410.76
22 51 19 00-0027	EA		45,000 Gallon Filter System, Diatomite.....	19,650.04	4,092.91

22 51 19 00-0028 Silver Recovery System, X-Ray Film Processing (22 51 19)

22 51 19 00-0029	EA		20 Gallon/Day Capacity, Silver Recovery System.....	2,246.78	440.14
22 51 19 00-0030	EA		40 Gallon/Day Capacity, Silver Recovery System.....	3,285.56	586.89

22 51 19 00-0031 Inline Water Filter (22 51 19)

Note: 3/8" NPT threaded inlet and outlet, 125 PSI, includes one filter cartridge.

22 51 19 00-0032	EA		2 GPM Water Filter, 100 Degree Temperature, 8" x 5" Diameter, Plastic Body.....	304.82	129.67
22 51 19 00-0033	EA		6 GPM Water Filter, 250 Degree Temperature, 12" x 5" Diameter, Stainless Steel Body.....	538.54	194.51

22 51 19 00-0034 Ultra-Violet Pool Treatment Lights (22 51 19)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 51 19 00-0035			Stainless Steel Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0034)</small>		
<small>Note: Delta ELP Amalgam Series</small>					
22 51 19 00-0036	EA		3" Flanged, 79 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	12,795.04	404.36
22 51 19 00-0037	EA		3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	13,517.84	404.36
22 51 19 00-0038	EA		3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	14,137.40	404.36
22 51 19 00-0039	EA		4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	14,588.95	428.12
22 51 19 00-0040	EA		4" Flanged, 295 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	14,895.98	428.12
22 51 19 00-0041	EA		4" Flanged, 329 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	17,683.91	428.12
22 51 19 00-0042	EA		6" Flanged, 396 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	20,987.78	768.91
22 51 19 00-0043	EA		6" Flanged, 440 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	30,963.41	768.91
22 51 19 00-0044	EA		6" Flanged, 650 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	33,960.39	768.91
22 51 19 00-0045	EA		8" Flanged, 695 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	36,460.42	922.45
22 51 19 00-0046	EA		8" Flanged, 920 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	39,129.98	922.45
22 51 19 00-0047	EA		8" Flanged, 1140 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	40,993.65	922.45
22 51 19 00-0048	EA		8" Flanged, 1260 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	43,008.42	922.45
22 51 19 00-0049	EA		10" Flanged, 1510 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	46,220.30	1,048.52
22 51 19 00-0050	EA		10" Flanged, 1760 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	49,746.16	1,048.52
22 51 19 00-0051	EA		10" Flanged, 2010 GPM, 8 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	53,272.00	1,048.52
22 51 19 00-0052	EA		10" Flanged, 2520 GPM, 10 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	57,553.38	1,048.52

22 51 19 00-0053			HDPE Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0034)</small>		
<small>Note: Delta EL Series</small>					
22 51 19 00-0054	EA		3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	6,461.14	404.36
22 51 19 00-0055	EA		3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	7,166.28	404.36
22 51 19 00-0056	EA		4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	7,907.27	428.12

22 51 19 00-0057			In-Line, Stainless Steel Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0034)</small>		
<small>Note: Delta EM Series</small>					
22 51 19 00-0058	EA		3" Flanged, 100 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	24,594.04	404.36
22 51 19 00-0059	EA		3" Flanged, 170 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	24,845.87	404.36
22 51 19 00-0060	EA		6" Flanged, 300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	26,666.93	768.91
22 51 19 00-0061	EA		6" Flanged, 600 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	33,688.38	768.91
22 51 19 00-0062	EA		8" Flanged, 1300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	46,937.22	922.45
22 51 19 00-0063	EA		10" Flanged, 2000 GPM, 2 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	52,969.79	1,048.52
22 51 19 00-0064	EA		12" Flanged, 3000 GPM, 3 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	62,504.33	1,356.84
22 51 19 00-0065	EA		12" Flanged, 4000 GPM, 4 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	70,059.70	1,356.84

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities (22)

22 63 Gas Systems for Laboratory and Healthcare Facilities (22 60)

22 63 13 Gas Piping for Laboratory and Healthcare Facilities (22 63)

22 63 13 53 Laboratory Gas Piping (22 63 13)

See CSI section 23 21 13 23-0001 for black steel pipe, 23 21 13 23-2177 for PVC piping.

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)

22 66 53 Laboratory Chemical-Waste and Vent Piping (22 66)

22 66 53 00-0001			Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
22 66 53 00-0002			Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fusal Fittings <small>(22 66 53 00-0001)</small>		
22 66 53 00-0003			Schedule 40 Polypropylene Acid Resistant DWV Pipe <small>(22 66 53 00-0002)</small>		
22 66 53 00-0004	LF		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe	20.80	7.39
<i>For Schedule 80, Add</i>				5.03	
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>				4.30	
<i>For Work In Restricted Working Space, Add</i>				3.34	
22 66 53 00-0005	LF		2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	25.61	8.30
<i>For Schedule 80, Add</i>				6.80	
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>				5.82	
<i>For Work In Restricted Working Space, Add</i>				3.76	
22 66 53 00-0006	LF		3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	41.75	12.06
<i>For Schedule 80, Add</i>				12.28	
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>				10.51	
<i>For Work In Restricted Working Space, Add</i>				5.44	
22 66 53 00-0007	LF		4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	57.10	15.69
<i>For Schedule 80, Add</i>				17.43	
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>				14.92	
<i>For Work In Restricted Working Space, Add</i>				7.07	
22 66 53 00-0008	LF		6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	94.99	23.08
<i>For Schedule 80, Add</i>				31.41	
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>				26.88	
<i>For Work In Restricted Working Space, Add</i>				10.37	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)		
22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	80.83	27.88
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	103.61	36.83
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 66 53 00-0012 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	145.48	42.14
<i>For Work In Restricted Working Space, Add</i>	18.98	
22 66 53 00-0013 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	214.55	55.76
<i>For Work In Restricted Working Space, Add</i>	25.10	
22 66 53 00-0014 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	445.19	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0016 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	80.16	27.88
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 66 53 00-0017 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	101.85	36.83
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 66 53 00-0018 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	148.85	42.14
<i>For Work In Restricted Working Space, Add</i>	18.98	
22 66 53 00-0019 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	180.72	55.76
<i>For Work In Restricted Working Space, Add</i>	25.10	
22 66 53 00-0020 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	392.76	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	137.86	59.65
<i>For Work In Restricted Working Space, Add</i>	26.83	
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	170.79	75.21
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	239.59	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0025 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	335.94	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	605.08	172.99
<i>For Work In Restricted Working Space, Add</i>	77.81	
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	170.71	75.21
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	231.49	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	224.28	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	317.46	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	324.43	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	553.63	172.99
<i>For Work In Restricted Working Space, Add</i>	77.81	
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug (22 66 53 00-0002)		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	161.51	59.65
<i>For Work In Restricted Working Space, Add</i>	26.83	
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	176.50	75.21
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	257.09	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	344.01	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	505.31	172.99
<i>For Work In Restricted Working Space, Add</i>	77.81	
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes (22 66 53 00-0002)		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	151.14	59.65
<i>For Work In Restricted Working Space, Add</i>	26.83	
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye	183.08	75.21
<i>For Work In Restricted Working Space, Add</i>	33.83	
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye	246.91	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye	342.01	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	716.08 77.81	172.99
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	199.33 33.83	75.21
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	238.57 37.05	82.35
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	238.57 37.05	82.35
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	334.81 48.63	108.15
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	334.81 48.63	108.15
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	620.47 77.81	172.99
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	626.06 77.81	172.99
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	555.98 77.81	172.99
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses <small>(22 66 53 00-0002)</small>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross <i>For Work In Restricted Working Space, Add</i>	187.71 33.54	74.56
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	231.91 42.29	94.02
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	336.37 46.31	102.96
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	475.14 60.79	135.12
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	866.15 97.26	216.17
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends <small>(22 66 53 00-0002)</small>		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	133.53 26.83	59.65
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	177.20 33.83	75.21
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	205.96 37.05	82.35
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	290.33 48.63	108.15
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	158.02 33.83	75.21
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	198.24 37.05	82.35
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	201.34 37.05	82.35
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	278.86 48.63	108.15
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	280.81 48.63	108.15
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps <small>(22 66 53 00-0002)</small>		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	159.07 31.12	69.25
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	212.61 40.95	91.03
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	334.98 55.58	123.58
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	487.37 70.73	157.30
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters <small>(22 66 53 00-0002)</small>		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	78.99 12.55	27.88
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	93.90 16.55	36.83
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	111.18 18.98	42.14
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	152.73 25.10	55.76
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	226.94 37.05	82.35

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters <small>(22 66 53 00-0002)</small>		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	74.33	27.88
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	97.43	36.83
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	117.64	42.14
<i>For Work In Restricted Working Space, Add</i>	18.98	
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	159.07	55.76
<i>For Work In Restricted Working Space, Add</i>	25.10	
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings <small>(22 66 53 00-0002)</small>		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	68.53	27.88
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	87.01	36.83
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	101.90	42.14
<i>For Work In Restricted Working Space, Add</i>	18.98	
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	134.76	55.76
<i>For Work In Restricted Working Space, Add</i>	25.10	
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	197.77	82.35
<i>For Work In Restricted Working Space, Add</i>	37.05	
22 66 53 00-0093 Glass Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
22 66 53 00-0094 Glass Acid Resistant DWV Pipe <small>(22 66 53 00-0093)</small>		
22 66 53 00-0095 LF 1-1/2" Glass Acid Resistant DWV Pipe.....	25.23	7.13
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 66 53 00-0096 LF 2" Glass Acid Resistant DWV Pipe.....	30.49	7.78
<i>For Work In Restricted Working Space, Add</i>	4.67	
22 66 53 00-0097 LF 3" Glass Acid Resistant DWV Pipe.....	42.37	10.90
<i>For Work In Restricted Working Space, Add</i>	6.56	
22 66 53 00-0098 LF 4" Glass Acid Resistant DWV Pipe.....	65.58	14.14
<i>For Work In Restricted Working Space, Add</i>	8.49	
22 66 53 00-0099 LF 6" Glass Acid Resistant DWV Pipe.....	105.44	19.33
<i>For Work In Restricted Working Space, Add</i>	11.58	
22 66 53 00-0100 Glass Acid Resistant DWV 90 Or 60 Degree Sweeps <small>(22 66 53 00-0093)</small>		
22 66 53 00-0101 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	86.73	31.77
<i>For Work In Restricted Working Space, Add</i>	19.02	
22 66 53 00-0102 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	96.73	33.71
<i>For Work In Restricted Working Space, Add</i>	20.19	
22 66 53 00-0103 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	125.00	38.25
<i>For Work In Restricted Working Space, Add</i>	22.95	
22 66 53 00-0104 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	178.58	50.57
<i>For Work In Restricted Working Space, Add</i>	30.35	
22 66 53 00-0105 EA 6" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	376.03	70.02
<i>For Work In Restricted Working Space, Add</i>	42.02	
22 66 53 00-0106 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweeps <small>(22 66 53 00-0093)</small>		
22 66 53 00-0107 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	87.00	31.90
<i>For Work In Restricted Working Space, Add</i>	19.10	
22 66 53 00-0108 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	96.21	33.33
<i>For Work In Restricted Working Space, Add</i>	20.03	
22 66 53 00-0109 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	124.73	38.13
<i>For Work In Restricted Working Space, Add</i>	22.87	
22 66 53 00-0110 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	178.58	50.57
<i>For Work In Restricted Working Space, Add</i>	30.35	
22 66 53 00-0111 EA 6" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	376.01	70.02
<i>For Work In Restricted Working Space, Add</i>	42.01	
22 66 53 00-0112 Glass Acid Resistant DWV 90 Or 60 Degree Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0113 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	87.64	31.90
<i>For Work In Restricted Working Space, Add</i>	19.10	
22 66 53 00-0114 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	96.98	33.33
<i>For Work In Restricted Working Space, Add</i>	20.03	
22 66 53 00-0115 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	126.07	38.13
<i>For Work In Restricted Working Space, Add</i>	22.87	
22 66 53 00-0116 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	178.58	50.57
<i>For Work In Restricted Working Space, Add</i>	30.35	
22 66 53 00-0117 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0118 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....	87.64	31.90
<i>For Work In Restricted Working Space, Add</i>	19.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0119 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	96.98 20.03	33.33
22 66 53 00-0120 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	126.07 22.87	38.13
22 66 53 00-0121 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	178.58 30.35	50.57
22 66 53 00-0122 Glass Acid Resistant DWV 90 Degree Bends With Long Leg (22 66 53 00-0093)		
22 66 53 00-0123 EA 1-1/2" Glass Acid Resistant DWV 90 Degree Bend With Long Leg..... <i>For Work In Restricted Working Space, Add</i>	96.73 19.10	31.90
22 66 53 00-0124 EA 2" Glass Acid Resistant DWV 90 Degree Bends With Long Leg..... <i>For Work In Restricted Working Space, Add</i>	110.04 20.03	33.33
22 66 53 00-0125 Glass Acid Resistant DWV Double Quarter Bends (22 66 53 00-0093)		
22 66 53 00-0126 EA 1-1/2" Glass Acid Resistant DWV Double Quarter Bend..... <i>For Work In Restricted Working Space, Add</i>	137.19 28.65	47.72
22 66 53 00-0127 EA 2" x 1-1/2" Glass Acid Resistant DWV Double Quarter Bend..... <i>For Work In Restricted Working Space, Add</i>	161.89 29.64	49.41
22 66 53 00-0128 EA 2" Glass Acid Resistant DWV Double Quarter Bend..... <i>For Work In Restricted Working Space, Add</i>	154.86 30.05	50.05
22 66 53 00-0129 EA 3" Glass Acid Resistant DWV Double Quarter Bend..... <i>For Work In Restricted Working Space, Add</i>	199.14 34.32	57.18
22 66 53 00-0130 EA 4" Glass Acid Resistant DWV Double Quarter Bend..... <i>For Work In Restricted Working Space, Add</i>	310.18 45.51	75.86
22 66 53 00-0131 EA 6" Glass Acid Resistant DWV Double Quarter Bend..... <i>For Work In Restricted Working Space, Add</i>	464.49 63.03	105.03
22 66 53 00-0132 Glass Acid Resistant DWV Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0133 EA 1-1/2" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	133.56 28.79	47.98
22 66 53 00-0134 EA 2" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	137.45 29.96	49.92
22 66 53 00-0135 EA 3" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	170.20 34.24	57.05
22 66 53 00-0136 EA 4" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	252.33 45.51	75.86
22 66 53 00-0137 EA 6" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	479.62 63.02	105.03
22 66 53 00-0138 Glass Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0139 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	136.15 29.57	49.28
22 66 53 00-0140 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	157.21 32.29	53.81
22 66 53 00-0141 EA 3" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	164.96 33.07	55.11
22 66 53 00-0142 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	208.56 40.07	66.78
22 66 53 00-0143 EA 4" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	216.04 40.46	67.44
22 66 53 00-0144 EA 4" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	225.49 41.63	69.38
22 66 53 00-0145 EA 6" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	362.98 52.13	86.88
22 66 53 00-0146 EA 6" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	386.61 53.30	88.82
22 66 53 00-0147 EA 6" x 4" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	400.66 57.19	95.31
22 66 53 00-0148 Glass Acid Resistant DWV Double Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0149 EA 1-1/2" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	184.76 38.13	63.54
22 66 53 00-0150 EA 2" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	191.22 40.07	66.78
22 66 53 00-0151 EA 3" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	237.76 45.90	76.51
22 66 53 00-0152 EA 4" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	364.70 60.68	101.15
22 66 53 00-0153 EA 6" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	611.37 84.04	140.05
22 66 53 00-0154 Glass Acid Resistant DWV Reducing Double Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0155 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	188.63 39.29	65.48
22 66 53 00-0156 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	212.38 42.02	70.02

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0157 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	221.80 42.80	71.32
22 66 53 00-0158 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	301.90 49.41	82.35
22 66 53 00-0159 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	301.68 50.57	84.29
22 66 53 00-0160 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	322.22 53.37	88.82
22 66 53 00-0161 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	413.46 62.23	103.74
22 66 53 00-0162 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	445.19 64.96	108.28
22 66 53 00-0163 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	502.24 72.35	120.60
22 66 53 00-0164 Glass Acid Resistant DWV Tees (22 66 53 00-0093)		
22 66 53 00-0165 EA 1-1/2" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	142.49 28.79	47.98
22 66 53 00-0166 EA 2" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	146.36 29.95	49.92
22 66 53 00-0167 EA 3" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	181.28 34.23	57.05
22 66 53 00-0168 EA 4" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	269.72 45.51	75.86
22 66 53 00-0169 EA 6" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	500.49 63.03	105.03
22 66 53 00-0170 Glass Acid Resistant DWV Reducing Tees (22 66 53 00-0093)		
22 66 53 00-0171 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	145.05 29.56	49.28
22 66 53 00-0172 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	166.51 32.29	53.81
22 66 53 00-0173 EA 3" x 2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	170.45 33.07	55.11
22 66 53 00-0174 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	210.61 40.07	66.78
22 66 53 00-0175 EA 4" x 2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	215.08 40.46	67.44
22 66 53 00-0176 EA 4" x 3" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	246.41 41.63	69.38
22 66 53 00-0177 EA 6" x 3" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	424.83 53.29	88.82
22 66 53 00-0178 EA 6" x 4" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	445.36 57.18	95.31
22 66 53 00-0179 Glass Acid Resistant DWV Test Tees With Cleanout (22 66 53 00-0093)		
22 66 53 00-0180 EA 1-1/2" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	157.78 28.79	47.98
22 66 53 00-0181 EA 2" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	172.29 29.95	49.92
22 66 53 00-0182 EA 3" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	213.97 34.23	57.05
22 66 53 00-0183 EA 4" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	344.21 45.51	75.86
22 66 53 00-0184 EA 6" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	500.49 63.03	105.03
22 66 53 00-0185 Glass Acid Resistant DWV Wyes (22 66 53 00-0093)		
22 66 53 00-0186 EA 1-1/2" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	135.48 28.79	47.98
22 66 53 00-0187 EA 2" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	139.35 29.95	49.92
22 66 53 00-0188 EA 3" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	177.83 34.23	57.05
22 66 53 00-0189 EA 4" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	260.86 45.51	75.86
22 66 53 00-0190 EA 6" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	473.79 63.03	105.03
22 66 53 00-0191 Glass Acid Resistant DWV Reducing Wyes (22 66 53 00-0093)		
22 66 53 00-0192 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	138.04 29.56	49.28
22 66 53 00-0193 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	161.16 32.29	53.81
22 66 53 00-0194 EA 3" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	165.42 33.07	55.11
22 66 53 00-0195 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	216.22 40.07	66.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0196 EA 4" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	218.27 40.46	67.44
22 66 53 00-0197 EA 4" x 3" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	233.03 41.63	69.38
22 66 53 00-0198 EA 6" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	354.65 52.12	86.88
22 66 53 00-0199 EA 6" x 3" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	398.32 53.29	88.82
22 66 53 00-0200 EA 6" x 4" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	431.60 57.18	95.31
22 66 53 00-0201 Glass Acid Resistant DWV Double Wyes (22 66 53 00-0093)		
22 66 53 00-0202 EA 1-1/2" Glass Acid Resistant DWV Double Wye <i>For Work In Restricted Working Space, Add</i>	204.00 38.12	63.54
22 66 53 00-0203 EA 2" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	210.49 40.07	66.78
22 66 53 00-0204 EA 3" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	267.63 45.90	76.51
22 66 53 00-0205 EA 4" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	395.20 60.67	101.15
22 66 53 00-0206 EA 6" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	627.91 84.06	140.05
22 66 53 00-0207 Glass Acid Resistant DWV Reducing Double Wyes (22 66 53 00-0093)		
22 66 53 00-0208 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye <i>For Work In Restricted Working Space, Add</i>	207.85 39.28	65.48
22 66 53 00-0209 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye <i>For Work In Restricted Working Space, Add</i>	216.96 42.01	70.02
22 66 53 00-0210 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	240.45 42.79	71.32
22 66 53 00-0211 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye <i>For Work In Restricted Working Space, Add</i>	289.95 49.42	82.35
22 66 53 00-0212 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	303.23 50.57	84.29
22 66 53 00-0213 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	345.55 53.29	88.82
22 66 53 00-0214 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	498.28 62.23	103.74
22 66 53 00-0215 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	522.37 64.97	108.28
22 66 53 00-0216 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	563.66 72.36	120.60
22 66 53 00-0217 Glass Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0093)		
22 66 53 00-0218 EA 1-1/2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	145.57 28.79	47.98
22 66 53 00-0219 EA 2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	149.86 29.95	49.92
22 66 53 00-0220 EA 3" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	184.08 34.23	57.05
22 66 53 00-0221 EA 4" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	264.11 45.51	75.86
22 66 53 00-0222 EA 6" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	464.68 63.03	105.03
22 66 53 00-0223 Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0093)		
22 66 53 00-0224 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	148.55 29.56	49.28
22 66 53 00-0225 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	162.75 32.29	53.81
22 66 53 00-0226 EA 3" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	171.79 33.07	55.11
22 66 53 00-0227 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	212.40 40.07	66.78
22 66 53 00-0228 EA 4" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	219.09 40.46	67.44
22 66 53 00-0229 EA 4" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	233.98 41.63	69.38
22 66 53 00-0230 EA 6" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	355.23 52.12	86.88
22 66 53 00-0231 EA 6" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	392.77 53.29	88.82
22 66 53 00-0232 EA 6" x 4" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	406.11 57.18	95.31
22 66 53 00-0233 Glass Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0093)		

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0234 EA 1-1/2" Double Glass Combination Wye And 1/8 Bend	194.44	63.54
<i>For Work In Restricted Working Space, Add</i>	38.12	
22 66 53 00-0235 EA 2" Double Glass Combination Wye And 1/8 Bend	218.51	66.78
<i>For Work In Restricted Working Space, Add</i>	40.07	
22 66 53 00-0236 EA 3" Double Glass Combination Wye And 1/8 Bend	279.74	76.51
<i>For Work In Restricted Working Space, Add</i>	45.90	
22 66 53 00-0237 EA 4" Double Glass Combination Wye And 1/8 Bend	423.36	101.15
<i>For Work In Restricted Working Space, Add</i>	60.67	
22 66 53 00-0238 EA 6" Double Glass Combination Wye And 1/8 Bend	672.86	140.05
<i>For Work In Restricted Working Space, Add</i>	84.06	
22 66 53 00-0239 Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0240 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	199.75	65.48
<i>For Work In Restricted Working Space, Add</i>	39.28	
22 66 53 00-0241 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	239.51	70.02
<i>For Work In Restricted Working Space, Add</i>	42.01	
22 66 53 00-0242 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	238.41	71.32
<i>For Work In Restricted Working Space, Add</i>	42.79	
22 66 53 00-0243 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	305.62	82.35
<i>For Work In Restricted Working Space, Add</i>	49.42	
22 66 53 00-0244 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	305.71	84.29
<i>For Work In Restricted Working Space, Add</i>	50.57	
22 66 53 00-0245 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	336.70	88.82
<i>For Work In Restricted Working Space, Add</i>	53.29	
22 66 53 00-0246 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	457.22	103.74
<i>For Work In Restricted Working Space, Add</i>	62.23	
22 66 53 00-0247 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	484.78	108.28
<i>For Work In Restricted Working Space, Add</i>	64.97	
22 66 53 00-0248 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	559.20	120.60
<i>For Work In Restricted Working Space, Add</i>	72.36	
22 66 53 00-0249 Glass Acid Resistant DWV Partition Crosses (Compact) <small>(22 66 53 00-0093)</small>		
22 66 53 00-0250 EA 2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)	212.50	65.48
<i>For Work In Restricted Working Space, Add</i>	39.28	
22 66 53 00-0251 EA 2" Glass Acid Resistant DWV Partition Cross (Compact)	215.14	66.78
<i>For Work In Restricted Working Space, Add</i>	40.07	
22 66 53 00-0252 EA 2" x 1-1/2" x 1-1/2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)	223.09	64.84
<i>For Work In Restricted Working Space, Add</i>	38.90	
22 66 53 00-0253 Glass Acid Resistant DWV Upright Y Or H (Vent Branch) <small>(22 66 53 00-0093)</small>		
22 66 53 00-0254 EA 1-1/2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)	191.17	47.98
<i>For Work In Restricted Working Space, Add</i>	28.79	
22 66 53 00-0255 EA 2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)	207.47	49.92
<i>For Work In Restricted Working Space, Add</i>	29.95	
22 66 53 00-0256 EA 3" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)	238.31	57.05
<i>For Work In Restricted Working Space, Add</i>	34.23	
22 66 53 00-0257 EA 4" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)	341.22	75.86
<i>For Work In Restricted Working Space, Add</i>	45.51	
22 66 53 00-0258 EA 6" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)	600.54	105.03
<i>For Work In Restricted Working Space, Add</i>	63.03	
22 66 53 00-0259 Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch) <small>(22 66 53 00-0093)</small>		
22 66 53 00-0260 EA 2" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)	193.35	49.28
<i>For Work In Restricted Working Space, Add</i>	29.56	
22 66 53 00-0261 EA 3" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)	218.13	53.81
<i>For Work In Restricted Working Space, Add</i>	32.29	
22 66 53 00-0262 EA 3" x 2" Reducing Glass Upright Y Or H (Vent Branch)	229.97	55.11
<i>For Work In Restricted Working Space, Add</i>	33.07	
22 66 53 00-0263 EA 4" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)	269.75	66.78
<i>For Work In Restricted Working Space, Add</i>	40.07	
22 66 53 00-0264 EA 4" x 2" Reducing Glass Upright Y Or H (Vent Branch)	282.05	67.44
<i>For Work In Restricted Working Space, Add</i>	40.46	
22 66 53 00-0265 EA 4" x 3" Reducing Glass Upright Y Or H (Vent Branch)	304.85	69.38
<i>For Work In Restricted Working Space, Add</i>	41.63	
22 66 53 00-0266 EA 6" x 3" Reducing Glass Upright Y Or H (Vent Branch)	427.44	88.82
<i>For Work In Restricted Working Space, Add</i>	53.29	
22 66 53 00-0267 EA 6" x 4" Reducing Glass Upright Y Or H (Vent Branch)	480.66	95.31
<i>For Work In Restricted Working Space, Add</i>	57.18	
22 66 53 00-0268 Glass Acid Resistant DWV Reducers Or Increasers <small>(22 66 53 00-0093)</small>		
22 66 53 00-0269 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser	85.23	32.42
<i>For Eccentric Reducers Or Increasers, Add</i>	1.63	
<i>For Work In Restricted Working Space, Add</i>	19.45	
22 66 53 00-0270 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser	100.29	35.01
<i>For Eccentric Reducers Or Increasers, Add</i>	2.42	
<i>For Work In Restricted Working Space, Add</i>	21.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0271 EA 3" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	105.22 2.71 21.40	35.66
22 66 53 00-0272 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	130.34 3.79 24.90	41.50
22 66 53 00-0273 EA 4" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	134.57 4.02 25.29	42.14
22 66 53 00-0274 EA 4" x 3" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	142.54 4.35 26.45	44.09
22 66 53 00-0275 EA 6" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	240.09 11.01 30.74	51.22
22 66 53 00-0276 EA 6" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	250.12 11.71 31.12	51.87
22 66 53 00-0277 EA 6" x 3" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	264.01 12.51 32.29	53.81
22 66 53 00-0278 EA 6" x 4" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add For Work In Restricted Working Space, Add</i>	281.50 12.87 36.18	60.30
22 66 53 00-0279 Glass Acid Resistant DWV Swivel P-Traps (22 66 53 00-0093)		
22 66 53 00-0280 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	167.71 28.79	47.98
22 66 53 00-0281 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	177.12 29.57	49.28
22 66 53 00-0282 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	192.76 29.96	49.92
22 66 53 00-0283 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	177.02 28.79	47.98
22 66 53 00-0284 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	188.97 29.57	49.28
22 66 53 00-0285 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	206.14 29.96	49.92
22 66 53 00-0286 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	179.57 28.79	47.98
22 66 53 00-0287 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	188.97 29.57	49.28
22 66 53 00-0288 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	206.14 29.96	49.92
22 66 53 00-0289 Glass Acid Resistant DWV Drum P-Traps (22 66 53 00-0093)		
22 66 53 00-0290 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap <i>For Work In Restricted Working Space, Add</i>	208.50 28.79	47.98
22 66 53 00-0291 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap <i>For Work In Restricted Working Space, Add</i>	249.58 29.57	49.28
22 66 53 00-0292 EA 2" Glass Acid Resistant DWV Drum P-Trap <i>For Work In Restricted Working Space, Add</i>	255.97 29.96	49.92
22 66 53 00-0293 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap <i>For Work In Restricted Working Space, Add</i>	223.98 28.79	47.98
22 66 53 00-0294 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap <i>For Work In Restricted Working Space, Add</i>	235.62 29.57	49.28
22 66 53 00-0295 EA 2" Glass Acid Resistant DWV Drum P-Trap <i>For Work In Restricted Working Space, Add</i>	258.97 29.96	49.92
22 66 53 00-0296 Glass Acid Resistant DWV Cleanout Plugs (22 66 53 00-0093)		
22 66 53 00-0297 EA 1-1/2" Glass Acid Resistant DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	41.91 9.73	16.21
22 66 53 00-0298 EA 2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	45.69 10.11	16.86
22 66 53 00-0299 EA 3" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	54.75 11.28	18.80
22 66 53 00-0300 EA 4" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	81.41 15.17	25.28
22 66 53 00-0301 EA 6" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	115.07 21.01	35.01
22 66 53 00-0302 Glass Acid Resistant DWV Sink Fittings (22 66 53 00-0093)		
22 66 53 00-0303 EA 1-1/2" Glass Acid Resistant DWV Interceptor Trap..... <i>For Work In Restricted Working Space, Add</i>	399.25 38.12	63.54
22 66 53 00-0304 EA 1-1/2" x 6-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly <i>For Work In Restricted Working Space, Add</i>	50.07 9.73	16.21
22 66 53 00-0305 EA 1-1/2" x 10-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly <i>For Work In Restricted Working Space, Add</i>	53.45 9.73	16.21

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0306 EA 1-1/2" Split Coupling (Threaded To Beaded Pipe) For Glass Acid Resistant DWV Pipe And Fittings <i>For Work In Restricted Working Space, Add</i>	85.74 19.45	32.42
22 66 53 00-0307 EA 3" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	137.22 20.23	33.71
22 66 53 00-0308 EA 6" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	138.49 20.23	33.71
22 66 53 00-0309 EA 3" x 9" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	151.24 20.23	33.71
22 66 53 00-0310 EA 3" x 6" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	130.34 20.23	33.71
22 66 53 00-0311 Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapters (22 66 53 00-0093) Note: Includes teflon spacer.		
22 66 53 00-0312 EA 1-1/2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	142.97 28.71	47.85
22 66 53 00-0313 EA 2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	149.49 30.11	50.18
22 66 53 00-0314 EA 3" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	192.77 34.32	57.18
22 66 53 00-0315 EA 4" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	268.52 45.55	75.99
22 66 53 00-0316 Bead To Bead Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093) Note: Includes segmented stainless steel outer band, Buna-N rubber compression liner with TFE seal ring, stainless steel bolt and silver plated stainless hex nut.		
22 66 53 00-0317 EA 1-1/2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	15.99	
22 66 53 00-0318 EA 2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	20.18	
22 66 53 00-0319 EA 3" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	26.98	
22 66 53 00-0320 EA 4" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	45.46	
22 66 53 00-0321 EA 6" Bead To Bead, Stainless Steel, TFE Seal Ring Couplings, Glass Piping.....	105.89	
22 66 53 00-0322 Bead To Plain End Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093) Note: Includes stainless steel band with bolt, Buna-N rubber compression liner with TFE seal ring and silver plated stainless hex nut.		
22 66 53 00-0323 EA 1-1/2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	20.63	
22 66 53 00-0324 EA 2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	25.81	
22 66 53 00-0325 EA 3" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	43.82	
22 66 53 00-0326 EA 4" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	65.32	
22 66 53 00-0327 EA 6" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	159.26	
22 66 53 00-0328 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: Acid resistant. ASTM A518.		
22 66 53 00-0329 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0328)		
22 66 53 00-0330 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	113.41	11.54
22 66 53 00-0331 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	159.25	14.40
22 66 53 00-0332 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	216.10	16.60
22 66 53 00-0333 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	351.78	21.90
22 66 53 00-0334 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	620.01	29.58
22 66 53 00-0335 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	1,094.55	37.30
22 66 53 00-0336 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	1,949.67	50.25
22 66 53 00-0337 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	3,468.52	57.61
22 66 53 00-0338 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00- 0328)		
22 66 53 00-0339 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0338)		
22 66 53 00-0340 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	463.74	98.29
22 66 53 00-0341 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	602.12	108.15
22 66 53 00-0342 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	968.71	129.42
22 66 53 00-0343 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	1,420.60	144.67
22 66 53 00-0344 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	3,255.77	237.70
22 66 53 00-0345 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0338)		
22 66 53 00-0346 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	278.27	98.29
22 66 53 00-0347 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	358.47	108.15
22 66 53 00-0348 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	448.69	129.42
22 66 53 00-0349 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,133.32	144.67
22 66 53 00-0350 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,563.75	237.70
22 66 53 00-0351 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,885.48	296.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0352 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	5,696.03	356.13
22 66 53 00-0353 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0338)</small>		
22 66 53 00-0354 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	278.27	98.29
22 66 53 00-0355 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	358.47	108.15
22 66 53 00-0356 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	448.69	129.42
22 66 53 00-0357 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	835.13	144.67
22 66 53 00-0358 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,178.28	237.70
22 66 53 00-0359 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,176.91	296.15
22 66 53 00-0360 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	4,496.53	356.13
22 66 53 00-0361 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0338)</small>		
22 66 53 00-0362 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	278.27	98.29
22 66 53 00-0363 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	358.47	108.15
22 66 53 00-0364 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	448.37	129.29
22 66 53 00-0365 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps <small>(22 66 53 00-0338)</small>		
22 66 53 00-0366 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	372.82	98.29
22 66 53 00-0367 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	645.76	108.15
22 66 53 00-0368 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	725.06	129.42
22 66 53 00-0369 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees <small>(22 66 53 00-0338)</small>		
22 66 53 00-0370 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	395.09	147.06
22 66 53 00-0371 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	491.67	163.00
22 66 53 00-0372 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	677.32	194.64
22 66 53 00-0373 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,089.63	217.41
22 66 53 00-0374 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,302.42	356.85
22 66 53 00-0375 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	4,680.82	445.59
22 66 53 00-0376 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees <small>(22 66 53 00-0338)</small>		
22 66 53 00-0377 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	371.38	140.96
22 66 53 00-0378 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	430.57	151.33
22 66 53 00-0379 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	478.49	156.64
22 66 53 00-0380 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	546.63	172.99
22 66 53 00-0381 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	583.99	178.43
22 66 53 00-0382 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	639.04	183.75
22 66 53 00-0383 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	773.61	188.13
22 66 53 00-0384 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	856.65	192.98
22 66 53 00-0385 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	957.21	201.85
22 66 53 00-0386 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees <small>(22 66 53 00-0338)</small>		
22 66 53 00-0387 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	445.92	147.06
22 66 53 00-0388 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	534.67	162.61
22 66 53 00-0389 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	724.54	194.64
22 66 53 00-0390 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees <small>(22 66 53 00-0338)</small>		
22 66 53 00-0391 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	422.25	140.96
22 66 53 00-0392 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	523.22	157.43
22 66 53 00-0393 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	628.38	178.95
22 66 53 00-0394 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	672.59	184.27
22 66 53 00-0395 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0338)</small>		
22 66 53 00-0396 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	391.72	147.31
22 66 53 00-0397 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	531.67	163.00
22 66 53 00-0398 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	677.09	194.51
22 66 53 00-0399 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,095.65	216.61
22 66 53 00-0400 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	4,123.72	356.50
22 66 53 00-0401 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0338)</small>		
22 66 53 00-0402 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	400.43	140.96
22 66 53 00-0403 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	430.51	151.33
22 66 53 00-0404 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	454.41	157.56
22 66 53 00-0405 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	506.63	172.99
22 66 53 00-0406 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	526.11	178.70
22 66 53 00-0407 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	625.31	184.27

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0408 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	813.36	188.36
22 66 53 00-0409 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	962.11	192.98
22 66 53 00-0410 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	1,004.49	201.85
22 66 53 00-0411 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	2,434.93	287.59
22 66 53 00-0412 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	2,627.35	297.10
22 66 53 00-0413 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	3,206.44	312.30
22 66 53 00-0414 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0338)</small>		
22 66 53 00-0415 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	460.40	147.06
22 66 53 00-0416 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	545.58	162.61
22 66 53 00-0417 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	797.27	194.64
22 66 53 00-0418 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	1,190.61	216.84
22 66 53 00-0419 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0338)</small>		
22 66 53 00-0420 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	385.88	140.96
22 66 53 00-0421 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	445.06	151.33
22 66 53 00-0422 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	490.49	157.43
22 66 53 00-0423 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	532.09	172.99
22 66 53 00-0424 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	610.20	178.95
22 66 53 00-0425 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	687.06	184.14
22 66 53 00-0426 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	860.55	188.36
22 66 53 00-0427 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	1,067.65	193.09
22 66 53 00-0428 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	1,168.63	202.20
22 66 53 00-0429 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0338)</small>		
22 66 53 00-0430 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	240.60	92.59
22 66 53 00-0431 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	262.90	97.78
22 66 53 00-0432 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	292.52	102.96
22 66 53 00-0433 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	458.45	114.12
22 66 53 00-0434 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	480.79	119.43
22 66 53 00-0435 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	508.29	120.70
22 66 53 00-0436 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	656.65	129.92
22 66 53 00-0437 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	954.55	178.31
22 66 53 00-0438 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,017.21	193.40
22 66 53 00-0439 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increases <small>(22 66 53 00-0338)</small>		
22 66 53 00-0440 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	636.93	216.17
22 66 53 00-0441 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	826.03	216.17
22 66 53 00-0442 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	843.00	216.17
22 66 53 00-0443 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	930.77	269.17
22 66 53 00-0444 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00- 0338)</small>		
22 66 53 00-0445 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	678.29	98.29
22 66 53 00-0446 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	816.67	108.15
22 66 53 00-0447 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	994.16	129.42
22 66 53 00-0448 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	2,867.93	144.67
22 66 53 00-0449 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0338)</small>		
22 66 53 00-0450 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	347.37	98.29
22 66 53 00-0451 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	434.84	108.15
22 66 53 00-0452 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	594.14	129.42
22 66 53 00-0453 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	747.24	144.67
22 66 53 00-0454 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,444.55	201.85
22 66 53 00-0455 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0328)</small>		
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0456 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	5.38	
22 66 53 00-0457 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	66.67	
22 66 53 00-0458 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
Note: ASTM A518.		
22 66 53 00-0459 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0458)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0460 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	89.88	8.69
22 66 53 00-0461 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	102.23	9.60
22 66 53 00-0462 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	140.77	12.06
22 66 53 00-0463 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	177.29	14.00
22 66 53 00-0464 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0458)</small>		
22 66 53 00-0465 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0464)</small>		
22 66 53 00-0466 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	339.64	68.85
22 66 53 00-0467 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	367.62	77.81
22 66 53 00-0468 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	499.56	85.85
22 66 53 00-0469 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	602.91	103.74
22 66 53 00-0470 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0471 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	197.82	68.85
22 66 53 00-0472 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	235.51	77.02
22 66 53 00-0473 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	300.00	86.11
22 66 53 00-0474 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	390.82	102.96
22 66 53 00-0475 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	229.09	72.75
22 66 53 00-0476 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0477 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	197.82	68.85
22 66 53 00-0478 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	235.51	77.02
22 66 53 00-0479 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	300.00	86.11
22 66 53 00-0480 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	390.82	102.96
22 66 53 00-0481 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0482 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	230.55	68.85
22 66 53 00-0483 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	286.41	77.02
22 66 53 00-0484 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	434.56	86.11
22 66 53 00-0485 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	489.01	102.96
22 66 53 00-0486 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0487 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	223.28	68.85
22 66 53 00-0488 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	264.60	77.02
22 66 53 00-0489 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	401.83	86.11
22 66 53 00-0490 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	456.28	102.96
22 66 53 00-0491 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0492 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	337.18	103.61
22 66 53 00-0493 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0464)</small>		
22 66 53 00-0494 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	278.99	103.61
22 66 53 00-0495 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	342.25	116.71
22 66 53 00-0496 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	445.92	130.06
22 66 53 00-0497 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	666.15	155.74
22 66 53 00-0498 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0464)</small>		
22 66 53 00-0499 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	321.12	112.30
22 66 53 00-0500 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	388.79	121.12
22 66 53 00-0501 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	413.39	125.39
22 66 53 00-0502 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	443.75	138.36
22 66 53 00-0503 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	486.06	142.26
22 66 53 00-0504 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	525.26	146.53
22 66 53 00-0505 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0464)</small>		
22 66 53 00-0506 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	279.50	104.00
22 66 53 00-0507 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	327.70	116.71
22 66 53 00-0508 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	431.37	130.06
22 66 53 00-0509 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	666.15	155.74
22 66 53 00-0510 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0464)</small>		

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0511 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	311.07	112.95
22 66 53 00-0512 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	377.85	120.99
22 66 53 00-0513 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	395.78	125.79
22 66 53 00-0514 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	444.37	138.76
22 66 53 00-0515 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	487.23	143.03
22 66 53 00-0516 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	514.89	146.92
22 66 53 00-0517 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0464)</small>		
22 66 53 00-0518 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	414.92	138.49
22 66 53 00-0519 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	524.52	155.87
22 66 53 00-0520 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	665.82	172.47
22 66 53 00-0521 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	863.63	207.35
22 66 53 00-0522 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	456.32	146.66
22 66 53 00-0523 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	509.26	155.36
22 66 53 00-0524 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	602.22	163.91
22 66 53 00-0525 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	664.85	181.54
22 66 53 00-0526 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	795.01	190.75
22 66 53 00-0527 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0464)</small>		
22 66 53 00-0528 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	458.48	138.49
22 66 53 00-0529 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	538.76	155.61
22 66 53 00-0530 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	761.83	173.37
22 66 53 00-0531 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,056.69	207.61
22 66 53 00-0532 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	492.61	146.66
22 66 53 00-0533 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	636.49	155.36
22 66 53 00-0534 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	671.22	163.91
22 66 53 00-0535 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	719.33	181.41
22 66 53 00-0536 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	906.74	189.97
22 66 53 00-0537 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0538 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	307.56	103.22
22 66 53 00-0539 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	356.80	116.71
22 66 53 00-0540 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	431.37	130.06
22 66 53 00-0541 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	706.15	155.74
22 66 53 00-0542 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0543 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	339.40	112.43
22 66 53 00-0544 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	378.37	121.38
22 66 53 00-0545 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	410.33	125.79
22 66 53 00-0546 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	549.83	138.76
22 66 53 00-0547 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	563.59	143.03
22 66 53 00-0548 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	627.62	146.92
22 66 53 00-0549 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0550 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	483.64	138.23
22 66 53 00-0551 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	604.10	155.48
22 66 53 00-0552 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	859.08	172.86
22 66 53 00-0553 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,031.90	208.00
22 66 53 00-0554 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0555 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	525.34	146.66
22 66 53 00-0556 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	625.55	155.22
22 66 53 00-0557 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	653.04	163.91
22 66 53 00-0558 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	726.60	181.41
22 66 53 00-0559 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	906.74	189.97
22 66 53 00-0560 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers <small>(22 66 53 00-0464)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0561 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	230.18	73.52
22 66 53 00-0562 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	258.47	77.81
22 66 53 00-0563 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	303.37	90.78
22 66 53 00-0564 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	354.75	86.24
22 66 53 00-0565 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	375.76	90.51
22 66 53 00-0566 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	396.78	94.79
22 66 53 00-0567 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees (22 66 53 00-0464)		
22 66 53 00-0568 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	210.78	60.55
22 66 53 00-0569 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	244.48	68.47
22 66 53 00-0570 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	287.09	77.55
22 66 53 00-0571 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	512.50	94.41
22 66 53 00-0572 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0464)		
22 66 53 00-0573 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	95.28	34.50
22 66 53 00-0574 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	112.30	38.51
22 66 53 00-0575 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	122.73	43.05
22 66 53 00-0576 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	157.22	51.48
22 66 53 00-0577 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0464)		
22 66 53 00-0578 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	375.40	68.47
22 66 53 00-0579 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	388.24	77.02
22 66 53 00-0580 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	478.19	86.11
22 66 53 00-0581 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	609.01	102.96
22 66 53 00-0582 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	517.62	73.65
22 66 53 00-0583 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	708.79	82.21
22 66 53 00-0584 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	856.08	90.78
22 66 53 00-0585 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	1,063.92	108.15
22 66 53 00-0586 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0464)		
22 66 53 00-0587 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap	688.11	78.19
22 66 53 00-0588 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap	1,078.81	86.49
22 66 53 00-0589 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap	716.73	77.81
22 66 53 00-0590 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap	1,078.81	86.49
22 66 53 00-0591 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0464)		
22 66 53 00-0592 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	640.37	77.81
22 66 53 00-0593 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	751.52	86.49
22 66 53 00-0594 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap	738.55	77.81
22 66 53 00-0595 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	1,606.10	86.49
22 66 53 00-0596 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	962.44	86.49
22 66 53 00-0597 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0464)		
22 66 53 00-0598 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	274.65	69.25
22 66 53 00-0599 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	356.71	77.81
22 66 53 00-0600 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0464)		
22 66 53 00-0601 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	143.27	51.87
22 66 53 00-0602 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	255.20	56.28
22 66 53 00-0603 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	191.81	64.84
22 66 53 00-0604 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0464)		
22 66 53 00-0605 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	263.42	73.78
22 66 53 00-0606 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	287.56	77.81
22 66 53 00-0607 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	319.50	82.08
22 66 53 00-0608 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	343.03	90.51
22 66 53 00-0609 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	319.56	82.21
22 66 53 00-0610 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	336.89	86.49
22 66 53 00-0611 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	364.05	94.79
22 66 53 00-0612 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	408.90	90.78
22 66 53 00-0613 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	503.93	108.15

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 66 53 00-0614		Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0464)		
22 66 53 00-0615	EA	1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	87.28	
22 66 53 00-0616	EA	2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	101.82	
22 66 53 00-0617	EA	3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	109.09	
22 66 53 00-0618	EA	4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	120.01	
22 66 53 00-0619		Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0464)		
22 66 53 00-0620	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet.....	651.89	34.62
22 66 53 00-0621	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper.....	247.77	17.24
22 66 53 00-0622	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	458.68	17.24
22 66 53 00-0623		Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates (22 66 53 00-0464)		
22 66 53 00-0624	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	2,346.70	172.99
22 66 53 00-0625	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	2,890.59	181.67
22 66 53 00-0626	EA	Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain.....	1,924.18	17.24
22 66 83		Chemical-Waste Tanks (22 66)		
22 66 83 16		Chemical-Waste Neutralization Tanks (22 66 83)		
22 66 83 16-0001		Acid Neutralization Tank (22 66 83 16)		
22 66 83 16-0002		Polyethylene Acid Neutralization Tank (22 66 83 16-0001)		
22 66 83 16-0003	EA	5 Gallon Capacity Polyethylene Acid Neutralization Tank.....	539.18	264.09
22 66 83 16-0004	EA	15 Gallon Capacity Polyethylene Acid Neutralization Tank.....	921.64	366.19
22 66 83 16-0005	EA	30 Gallon Capacity Polyethylene Acid Neutralization Tank.....	1,181.24	528.16
22 66 83 16-0006	EA	55 Gallon Capacity Polyethylene Acid Neutralization Tank.....	1,528.98	704.21
22 66 83 16-0007	EA	100 Gallon Capacity Polyethylene Acid Neutralization Tank.....	1,934.26	845.06
22 66 83 16-0008	EA	150 Gallon Capacity Polyethylene Acid Neutralization Tank.....	2,594.75	1,056.32
22 66 83 16-0009	EA	200 Gallon Capacity Polyethylene Acid Neutralization Tank.....	3,046.63	1,320.41
22 66 83 16-0010	EA	275 Gallon Capacity Polyethylene Acid Neutralization Tank.....	3,889.78	1,584.48
22 66 83 16-0011	EA	350 Gallon Capacity Polyethylene Acid Neutralization Tank.....	4,468.21	1,901.38
22 66 83 16-0012		Polypropylene Acid Neutralization Tank (22 66 83 16-0001)		
22 66 83 16-0013	EA	5 Gallon Capacity Polypropylene Acid Neutralization Tank.....	801.08	264.09
22 66 83 16-0014	EA	15 Gallon Capacity Polypropylene Acid Neutralization Tank.....	1,336.31	366.19
22 66 83 16-0015	EA	30 Gallon Capacity Polypropylene Acid Neutralization Tank.....	2,354.20	528.16
22 66 83 16-0016	EA	55 Gallon Capacity Polypropylene Acid Neutralization Tank.....	3,105.03	704.21
22 66 83 16-0017	EA	100 Gallon Capacity Polypropylene Acid Neutralization Tank.....	3,912.80	845.06
22 66 83 16-0018	EA	150 Gallon Capacity Polypropylene Acid Neutralization Tank.....	4,007.10	1,056.32
22 66 83 16-0019	EA	200 Gallon Capacity Polypropylene Acid Neutralization Tank.....	4,452.76	1,320.41
22 66 83 16-0020	EA	275 Gallon Capacity Polypropylene Acid Neutralization Tank.....	6,345.04	1,584.48
22 66 83 16-0021	EA	350 Gallon Capacity Polypropylene Acid Neutralization Tank.....	6,956.20	1,901.38
22 66 83 16-0022		Chemical Dilution Trap (22 66 83 16)		
22 66 83 16-0023	EA	1 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap..... Note: 1-1/2" top inlet and side outlet with anti siphon.	474.78	88.03
22 66 83 16-0024	EA	1-1/2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap..... Note: 1-1/2" top inlet and side outlet with anti siphon.	488.37	88.03
22 66 83 16-0025	EA	2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap..... Note: 1-1/2" top inlet and side outlet with anti siphon.	501.97	88.03
22 66 83 16-0026	EA	5 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap..... Note: 1-1/2" top inlet and side outlet with anti siphon.	555.19	105.63

END OF SECTION 22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾

23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)

23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)

23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	650.31
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	928.64
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	974.52
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,073.82
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,944.42
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	872.91
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,252.54
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,321.97
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,471.79
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,672.62
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,025.90
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,499.50
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	3,463.70
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	5,387.99
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	10,113.35

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)

23 01 20 91 HVAC Piping and Pumps Restoration ^(23 01 20)

23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	35.21
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	42.26
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	49.30
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	56.34
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	70.43
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0007	EA	Lock Out/Tag Out Padlock System.....	14.09
23 01 20 91-0008	EA	Lock Out/Tag Out Tag.....	3.98

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	354.77
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23 01 20 91-0011 Pipe Freezing ^(23 01 20 91)

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 1" Pipe Freezing, First Location.....	834.99
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0013	EA	Up To 1" Pipe Freezing, Each Additional Location After First.....	413.13
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0014	EA	>1" To 1-1/2" Pipe Freezing, First Location.....	1,012.34
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0015	EA	>1" To 1-1/2" Pipe Freezing, Each Additional Location After First.....	475.73
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0016	EA	>1-1/2" To 2" Pipe Freezing, First Location.....	1,408.47
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0017	EA	>1-1/2" To 2" Pipe Freezing, Each Additional Location After First.....	538.52
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0018	EA	>2" To 3" Pipe Freezing, First Location.....	1,607.68
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0019	EA	>2" To 3" Pipe Freezing, Each Additional Location After First.....	638.28
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0020	EA	>3" To 4" Pipe Freezing, First Location.....	2,379.27
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0021	EA	>3" To 4" Pipe Freezing, Each Additional Location After First.....	735.55
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0022	EA	>4" To 6" Pipe Freezing, First Location.....	4,992.39
		Note: Includes freezing on each side of valve or fitting.	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0023 EA >4" To 6" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	985.82	
23 01 20 91-0024 EA >6" To 8" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	6,641.32	
23 01 20 91-0025 EA >6" To 8" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,466.44	
23 01 20 91-0026 EA >8" To 10" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	9,182.11	
23 01 20 91-0027 EA >8" To 10" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,018.15	
23 01 20 91-0028 EA >10" To 12" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	11,837.26	
23 01 20 91-0029 EA >10" To 12" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,640.51	
23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91) Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".		
23 01 20 91-0031 LF Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing	2.32	
23 01 20 91-0032 LF >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing	3.17	
23 01 20 91-0033 LF >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing	4.87	
23 01 20 91-0034 LF 4", Water/Chlorine Pipe Disinfection/Flush/Testing	6.69	
23 01 20 91-0035 LF 6", Water/Chlorine Pipe Disinfection/Flush/Testing	8.21	
23 01 20 91-0036 LF 8", Water/Chlorine Pipe Disinfection/Flush/Testing	10.38	
23 01 20 91-0037 LF 10", Water/Chlorine Pipe Disinfection/Flush/Testing	13.68	
23 01 20 91-0038 LF 12", Water/Chlorine Pipe Disinfection/Flush/Testing	16.42	
23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)		
23 01 20 91-0040 EA Shut Down Existing Interior Piping System Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.	283.38	
23 01 20 91-0041 Purge Liquid Systems (23 01 20 91) Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.		
23 01 20 91-0042 EA Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System	445.21	
23 01 20 91-0043 EA >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System	556.51	
23 01 20 91-0044 EA >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System	794.34	
23 01 20 91-0045 EA >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System	951.85	
23 01 20 91-0046 EA >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System	1,006.23	
23 01 20 91-0047 EA >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	1,921.17	
23 01 20 91-0048 EA Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	463.58	
23 01 20 91-0049 EA >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	662.07	
23 01 20 91-0050 EA >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	793.29	
23 01 20 91-0051 EA >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	838.63	
23 01 20 91-0052 EA >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,601.02	
23 01 20 91-0053 EA Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	617.07	
23 01 20 91-0054 EA >100 To 250', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	880.56	
23 01 20 91-0055 EA >250 To 500', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,048.29	
23 01 20 91-0056 EA >500 To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,114.64	
23 01 20 91-0057 EA >1,000 To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	2,147.71	
23 01 20 91-0058 EA Up To 100', >4" To 10" Diameter Pipe, Purge Liquid System	760.74	
23 01 20 91-0059 EA >100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System	1,087.11	
23 01 20 91-0060 EA >250 To 500', >4" To 10" Diameter Pipe, Purge Liquid System	2,992.36	
23 01 20 91-0061 EA >1,000 To 2,000', >4" To 10" Diameter Pipe, Purge Liquid System	4,748.74	
23 01 20 91-0062 Special Cleaning Of Piping Systems (23 01 20 91)		
23 01 20 91-0063 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0064 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	2.87	
23 01 20 91-0065 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	4.77	
23 01 20 91-0066 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	6.68	
23 01 20 91-0067 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	8.64	
23 01 20 91-0068 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	12.00	
23 01 20 91-0069 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0070 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	3.07	
23 01 20 91-0071 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	5.01	
23 01 20 91-0072 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	7.02	
23 01 20 91-0073 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	9.15	
23 01 20 91-0074 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	12.68	
23 01 20 91-0075 Drewspere 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0076 LF Up To 1", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	3.12	
23 01 20 91-0077 LF >1" To 2", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	5.11	
23 01 20 91-0078 LF >2" To 3", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	7.16	
23 01 20 91-0079 LF >3" To 4", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	9.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0080 LF >4" To 6", Drewspense 4945/4395 Pipe Disinfection/Flush/Testing.....	12.94	
23 01 20 91-0081 Add-A-Valve Emergency Shut Off Device <small>(23 01 20 91)</small>		
23 01 20 91-0082 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD)	335.25	
23 01 20 91-0083 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD)	421.09	
23 01 20 91-0084 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD)	578.95	
23 01 20 91-0085 EA 1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	876.36	
23 01 20 91-0086 EA 1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	1,078.97	
23 01 20 91-0087 EA 2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,616.97	
23 01 30 Operation and Maintenance of HVAC Air Distribution <small>(23 01)</small>		
23 01 30 51 HVAC Air-Distribution System Cleaning <small>(23 01 30)</small>		
23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment <small>(23 01 30 51)</small>		
23 01 30 51-0002 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork	4.33	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 1.08		
23 01 30 51-0003 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	5.42	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 1.36		
23 01 30 51-0004 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	7.27	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 1.82		
23 01 30 51-0005 LF >8 SF Cross Section, Clean Supply/Return Ductwork	10.27	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i> 2.57		
23 01 30 51-0006 SF Clean Duct Dampers	14.60	
23 01 30 51-0007 SF Clean Duct Fire Dampers	29.19	
23 01 30 51-0008 SF Clean Louver	11.68	
23 01 30 51-0009 EA Clean Turning Vane Set	35.04	
23 01 30 51-0010 EA Clean Grille/Diffuser/Register	35.04	
Note: Includes removal and reinstallation.		
23 01 30 51-0011 LF Clean Linear Diffuser	8.76	
Note: Includes removal and reinstallation.		
23 01 30 51-0012 EA Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	104.26	
<i>For Stainless Steel, Add</i> 51.04		
23 01 30 51-0013 EA Clean Variable Air Volume (VAV) Unit.....	105.11	
23 01 30 51-0014 EA Clean Fan Powered Induction Unit (PIU) Unit.....	140.15	
23 01 30 51-0015 EA Clean Fan Coil Unit (FCU).....	140.15	
23 01 30 51-0016 EA Clean Packaged Terminal Air Conditioning Unit.....	140.15	
23 01 30 51-0017 EA Clean Supply Or Return Fan.....	280.31	
23 01 30 51-0018 EA Clean Exhaust Fan	245.28	
23 01 30 51-0019 EA Clean Duct Coil.....	210.24	
23 01 30 51-0020 SF Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	7.01	
Note: Excluding fan and coils.		
23 01 30 51-0021 EA Clean Air Handling Unit Fan	280.31	
23 01 30 51-0022 EA Clean Air Handling Unit Coil	420.47	
23 01 30 51-0023 SF Clean Equipment Surfaces, Rust Reform And Prime	3.54	
23 01 30 51-0024 SF Clean Interior Equipment Surfaces, Rust Reform And Prime	4.23	
23 01 30 51-0025 SF High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.60	
23 01 30 51-0026 EA Cleaning Of Ductwork Minimum Set-up Charge	946.85	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 01 30 51-0027 SF Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning.....	0.61	
23 01 30 61 HVAC Air-Distribution Duct Repair <small>(23 01 30)</small>		
23 01 30 61-0001 Repair And Seal Ductwork <small>(23 01 30 61)</small>		
Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.		
23 01 30 61-0002 SF Repair And Sealing Of Ductwork	2.36	
Note: Clean, apply sealant and tape		
23 01 50 Operation and Maintenance of Central Heating Equipment <small>(23 01)</small>		
23 01 50 61 Central Heating Equipment Repair <small>(23 01 50)</small>		
23 01 50 61-0001 Boiler Repairs <small>(23 01 50 61)</small>		
23 01 50 61-0002 Setup And Maintenance <small>(23 01 50 61-0001)</small>		
23 01 50 61-0003 EA Set-up Charge For Boiler Fire Side Maintenance	2,873.91	
Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 50 Operation and Maintenance of Central Heating Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0004 EA Close-up Charge For Boiler Fire Side Maintenance.....	3,063.94	
Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.		
For Burner Seals, Add	687.39	
Note: Used when burner must be removed from door for maintenance.		
23 01 50 61-0005 EA Setup Charge For Boiler Water Side Maintenance	3,831.89	
Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.		
23 01 50 61-0006 EA Up To 100 HP, Hydrostatic Test - Boiler Maintenance.....	1,915.94	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance	3,831.89	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0008 EA Removal And Replacement Of Handhole	119.75	
23 01 50 61-0009 EA Removal And Replacement Of Manhole.....	359.24	
23 01 50 61-0010 SF Sheet Metal Jacket Patch	13.15	
23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)		
23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube.....	287.39	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....	359.25	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube.....	502.93	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination	9.67	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination	11.22	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination	12.79	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination	18.14	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination	21.19	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination	26.97	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	35.92	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....	53.88	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	71.84	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....	89.81	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	107.78	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....	125.74	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	107.78	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....	143.70	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	179.62	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....	215.54	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	251.46	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....	287.39	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	345.32	
23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)		
23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,849.35	
23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler	1,866.16	
23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,531.49	
23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler	5,073.74	
23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler	3,562.37	
23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler.....	4,465.76	
23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler	8,011.57	
23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler	5,954.22	
23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler.....	6,856.40	
23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)		
23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold	133.12	
Note: Includes support, linkages and removal of existing.		
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold.....	1,740.26	
Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.		
23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)		
Note: Includes mounting plate, mechanical and electrical labor for installation of burners.		
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed.....	9,315.19	1,382.41
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....	13,307.69	1,711.53
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed	15,743.26	2,073.47
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....	18,469.35	2,231.15
23 01 50 61-0052 Boiler And Chiller Water Treatment (23 01 50 61)		
Note: 3 LB chemical per 50 gallon system water.		
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda	1.36	
Note: Includes disposal after treatment.		
23 01 50 61-0054 LB Boil Out Boiler And System With Trisodium Phosphate.....	2.04	
Note: Includes disposal after treatment.		
23 01 50 61-0055 GAL Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required.....	127.21	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)

23 01 60 61 Central Cooling Equipment Repair (23 01 60)

23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)

23 01 60 61-0002	EA	Removal And Replacement Of 6' Diameter 4 Blade, Cooling Tower Fan Blade.....	2,896.99
23 01 60 61-0003	EA	Removal And Replacement Of 6' Diameter 5 Blade, Cooling Tower Fan Blade.....	3,402.37
23 01 60 61-0004	EA	Removal And Replacement Of 6' Diameter 6 Blade, Cooling Tower Fan Blade.....	3,904.04
23 01 60 61-0005	EA	Removal And Replacement Of 6' Diameter 7 Blade, Cooling Tower Fan Blade.....	4,599.40
23 01 60 61-0006	EA	Removal And Replacement Of 6' Diameter 8 Blade, Cooling Tower Fan Blade.....	5,062.35
23 01 60 61-0007	EA	Removal And Replacement Of 8' Diameter 4 Blade, Cooling Tower Fan Blade.....	3,209.02
23 01 60 61-0008	EA	Removal And Replacement Of 8' Diameter 5 Blade, Cooling Tower Fan Blade.....	3,563.14
23 01 60 61-0009	EA	Removal And Replacement Of 8' Diameter 6 Blade, Cooling Tower Fan Blade.....	4,171.79
23 01 60 61-0010	EA	Removal And Replacement Of 8' Diameter 7 Blade, Cooling Tower Fan Blade.....	4,743.56
23 01 60 61-0011	EA	Removal And Replacement Of 8' Diameter 8 Blade, Cooling Tower Fan Blade.....	5,217.59
23 01 60 61-0012	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 6' Diameter Fan	793.41
23 01 60 61-0013	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 8' Diameter Fan	826.67
23 01 60 61-0014	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 10' Diameter Fan	885.77
23 01 60 61-0015	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 12' Diameter Fan	1,031.54
23 01 60 61-0016	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 14' Diameter Fan	1,275.05
23 01 60 61-0017	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 16' Diameter Fan	1,715.93
23 01 60 61-0018	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 18' Diameter Fan	1,806.37
23 01 60 61-0019	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 20' Diameter Fan	1,942.05
23 01 60 61-0020	EA	Removal And Replacement Of Counterflow Nozzle (1/2" - 2" NPT Thread)	43.63
23 01 60 61-0021	EA	Removal And Replacement Of 6' Polyvinyl Chloride (PVC) Splash Fill	28.24

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)

23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)

23 01 60 71-0002	LB	Recovery Of Refrigerant	11.04
23 01 60 71-0003	LB	Recovery And Recharging Of Refrigerant	20.69

Note: Includes cleaning refrigerant gas prior to recharging.

23 05 Common Work Results for HVAC (23)

23 05 13 Common Motor Requirements for HVAC Equipment (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001 Premium Efficient, Motors (23 05 13)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0004	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	613.18
23 05 13 00-0005	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	694.31
23 05 13 00-0006	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	814.02
23 05 13 00-0007	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	683.67
23 05 13 00-0008	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	726.23
23 05 13 00-0009	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	952.35
23 05 13 00-0010	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	803.38
23 05 13 00-0011	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	778.11
23 05 13 00-0012	EA	2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	973.63
23 05 13 00-0013	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	814.02
23 05 13 00-0014	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	839.29
23 05 13 00-0015	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,239.65
23 05 13 00-0016	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	888.51
23 05 13 00-0017	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	919.10
23 05 13 00-0018	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,624.05
23 05 13 00-0019	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,409.91
23 05 13 00-0020	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,351.38
23 05 13 00-0021	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,947.27
23 05 13 00-0022	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,612.08
23 05 13 00-0023	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,636.02
23 05 13 00-0024	EA	10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,533.84
23 05 13 00-0025	EA	15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,290.43
23 05 13 00-0026	EA	15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,317.03
23 05 13 00-0027	EA	15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,417.03
23 05 13 00-0028	EA	20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,690.79
23 05 13 00-0029	EA	20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,908.93
23 05 13 00-0030	EA	20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,159.22
23 05 13 00-0031	EA	25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,230.81
23 05 13 00-0032	EA	25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,546.05
23 05 13 00-0033	EA	25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,023.79
23 05 13 00-0034	EA	30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,812.07
23 05 13 00-0035	EA	30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,877.24

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 13 00-0036	EA	30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,240.59	
23 05 13 00-0037	EA	40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,912.06	
23 05 13 00-0038	EA	40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,058.37	
23 05 13 00-0039	EA	50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,349.66	
23 05 13 00-0040	EA	50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,582.43	
23 05 13 00-0041	EA	60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,768.88	
23 05 13 00-0042	EA	60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,028.25	
23 05 13 00-0043	EA	75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	8,879.75	
23 05 13 00-0044	EA	75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	8,627.03	
23 05 13 00-0045	EA	100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	9,491.59	
23 05 13 00-0046	EA	100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	10,036.93	
23 05 13 00-0047	EA	125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	11,912.38	
23 05 13 00-0048	EA	125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	12,312.74	
23 05 13 00-0049	EA	150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	14,694.94	

23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0051	EA	40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	7,465.85	
23 05 13 00-0052	EA	50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	9,038.03	
23 05 13 00-0053	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	11,474.77	
23 05 13 00-0054	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	12,775.61	
23 05 13 00-0055	EA	100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	14,061.82	
23 05 13 00-0056	EA	125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	15,185.75	
23 05 13 00-0057	EA	150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	13,677.42	
23 05 13 00-0058	EA	150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	17,884.52	
23 05 13 00-0059	EA	200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	16,652.85	
23 05 13 00-0060	EA	200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	17,091.78	
23 05 13 00-0061	EA	200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	23,509.52	

23 05 13 00-0062 Premium Efficient, TEFC Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.

23 05 13 00-0063 Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)

23 05 13 00-0064	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor	716.92	
23 05 13 00-0065	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	790.08	
23 05 13 00-0066	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	940.38	
23 05 13 00-0067	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	812.69	
23 05 13 00-0068	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	820.67	
23 05 13 00-0069	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	889.84	
23 05 13 00-0070	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	851.26	
23 05 13 00-0071	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	986.93	
23 05 13 00-0072	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	940.38	
23 05 13 00-0073	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,509.66	
23 05 13 00-0074	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,094.67	
23 05 13 00-0075	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,029.50	
23 05 13 00-0076	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,705.19	
23 05 13 00-0077	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,640.01	
23 05 13 00-0078	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,484.39	
23 05 13 00-0079	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,662.62	
23 05 13 00-0080	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,675.93	

23 05 13 00-0081 Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)

23 05 13 00-0082	EA	1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,022.85	
23 05 13 00-0083	EA	1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,145.22	
23 05 13 00-0084	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,080.04	
23 05 13 00-0085	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,060.09	
23 05 13 00-0086	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,363.35	
23 05 13 00-0087	EA	2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,135.91	
23 05 13 00-0088	EA	2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,110.63	
23 05 13 00-0089	EA	2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,384.63	
23 05 13 00-0090	EA	3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,226.35	
23 05 13 00-0091	EA	3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,260.93	
23 05 13 00-0092	EA	3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,725.14	
23 05 13 00-0093	EA	5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,509.66	
23 05 13 00-0094	EA	5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,262.26	
23 05 13 00-0095	EA	5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,001.80	
23 05 13 00-0096	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,747.75	
23 05 13 00-0097	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,683.91	
23 05 13 00-0098	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,854.39	
23 05 13 00-0099	EA	10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,048.35	
23 05 13 00-0100	EA	10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,888.74	
23 05 13 00-0101	EA	10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,258.74	
23 05 13 00-0102	EA	15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,822.47	
23 05 13 00-0103	EA	15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,583.05	
23 05 13 00-0104	EA	15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,346.77	
23 05 13 00-0105	EA	20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,097.80	
23 05 13 00-0106	EA	20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,132.39	
23 05 13 00-0107	EA	20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,787.27	
23 05 13 00-0108	EA	25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,042.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0109	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,096.71	
23 05 13 00-0110	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,548.08	
23 05 13 00-0111	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,802.99	
23 05 13 00-0112	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,860.19	
23 05 13 00-0113	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,564.28	
23 05 13 00-0114	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,584.00	
23 05 13 00-0115	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,355.22	
23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,426.42	
23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,202.49	
23 05 13 00-0118	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,945.78	
23 05 13 00-0119	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,390.98	
23 05 13 00-0120	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	10,118.07	
23 05 13 00-0121	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,994.37	
23 05 13 00-0122	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,826.39	
23 05 13 00-0123	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,771.38	
23 05 13 00-0124	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,686.26	
23 05 13 00-0125	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	16,100.86	
23 05 13 00-0126	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	14,512.72	
23 05 13 00-0127	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	17,966.99	
23 05 13 00-0128	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	20,667.09	
23 05 13 00-0129	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	25,974.19	

23 05 13 00-0130

Premium Efficient, Severe Duty Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA		1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,062.75	
23 05 13 00-0132	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,167.83	
23 05 13 00-0133	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,290.20	
23 05 13 00-0134	EA		1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,812.93	
23 05 13 00-0135	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,209.06	
23 05 13 00-0136	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,190.44	
23 05 13 00-0137	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,509.66	
23 05 13 00-0138	EA		1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,255.85	
23 05 13 00-0139	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,264.93	
23 05 13 00-0140	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,242.31	
23 05 13 00-0141	EA		2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,529.62	
23 05 13 00-0142	EA		2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,845.08	
23 05 13 00-0143	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,496.36	
23 05 13 00-0144	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,572.18	
23 05 13 00-0145	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,207.97	
23 05 13 00-0146	EA		3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,085.83	
23 05 13 00-0147	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,840.86	
23 05 13 00-0148	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,600.11	
23 05 13 00-0149	EA		5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,237.23	
23 05 13 00-0150	EA		5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,912.06	
23 05 13 00-0151	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,402.16	
23 05 13 00-0152	EA		7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,015.10	
23 05 13 00-0153	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,201.55	
23 05 13 00-0154	EA		7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,617.01	
23 05 13 00-0155	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,557.78	
23 05 13 00-0156	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,412.80	
23 05 13 00-0157	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,159.22	
23 05 13 00-0158	EA		10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,552.07	
23 05 13 00-0159	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,272.05	
23 05 13 00-0160	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,073.86	
23 05 13 00-0161	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,768.41	
23 05 13 00-0162	EA		15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,746.74	
23 05 13 00-0163	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,817.39	
23 05 13 00-0164	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,297.32	
23 05 13 00-0165	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,478.92	
23 05 13 00-0166	EA		20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,971.76	
23 05 13 00-0167	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,587.51	
23 05 13 00-0168	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,314.84	
23 05 13 00-0169	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,770.21	
23 05 13 00-0170	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,593.07	
23 05 13 00-0171	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,123.55	
23 05 13 00-0172	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,728.12	
23 05 13 00-0173	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,683.99	
23 05 13 00-0174	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,703.70	
23 05 13 00-0175	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,878.89	
23 05 13 00-0176	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,052.43	
23 05 13 00-0177	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,868.87	
23 05 13 00-0178	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,587.83	
23 05 13 00-0179	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,686.26	
23 05 13 00-0180	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,546.36	
23 05 13 00-0181	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	15,828.19	
23 05 13 00-0182	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,064.24	
23 05 13 00-0183	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,323.38	
23 05 13 00-0184	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	19,263.84	
23 05 13 00-0185	EA		100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,421.41	
23 05 13 00-0186	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,176.68	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0187	EA		100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	21,188.49	
23 05 13 00-0188	EA		125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	19,295.76	
23 05 13 00-0189	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	19,124.18	
23 05 13 00-0190	EA		125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	23,936.48	
23 05 13 00-0191	EA		150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,621.01	
23 05 13 00-0192	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,404.20	
23 05 13 00-0193	EA		150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,987.73	
23 05 13 00-0194	EA		200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,786.88	
23 05 13 00-0195	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,951.82	
23 05 13 00-0196	EA		200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	35,351.40	

23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

23 05 13 00-0198	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,417.89	
23 05 13 00-0199	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,468.43	
23 05 13 00-0200	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,601.44	
23 05 13 00-0201	EA		3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,979.19	
23 05 13 00-0202	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	2,194.66	
23 05 13 00-0203	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,024.65	
23 05 13 00-0204	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,087.16	
23 05 13 00-0205	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,179.17	
23 05 13 00-0206	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,764.42	
23 05 13 00-0207	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	6,259.45	
23 05 13 00-0208	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	7,025.59	
23 05 13 00-0209	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	9,187.00	
23 05 13 00-0210	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	10,346.85	
23 05 13 00-0211	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	14,474.15	
23 05 13 00-0212	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	16,992.03	
23 05 13 00-0213	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	20,699.02	
23 05 13 00-0214	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	27,054.23	
23 05 13 00-0215	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	30,868.96	

23 05 13 00-0216 Motor Mounting (23 05 13)

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

23 05 13 00-0217	EA		1/2 HP Motor Mounting.....	215.14	109.46
23 05 13 00-0218	EA		3/4 HP Motor Mounting.....	247.88	136.83
23 05 13 00-0219	EA		1 HP Motor Mounting.....	265.17	136.83
23 05 13 00-0220	EA		1-1/2 HP Motor Mounting.....	285.06	136.83
23 05 13 00-0221	EA		2 HP Motor Mounting.....	308.17	164.19
23 05 13 00-0222	EA		3 HP Motor Mounting.....	356.32	164.19
23 05 13 00-0223	EA		5 HP Motor Mounting.....	422.31	273.66
23 05 13 00-0224	EA		7-1/2 HP Motor Mounting.....	542.96	273.66
23 05 13 00-0225	EA		10 HP Motor Mounting.....	712.64	478.90
23 05 13 00-0226	EA		15 HP Motor Mounting.....	877.10	478.90
23 05 13 00-0227	EA		20 HP Motor Mounting.....	1,036.57	684.14
23 05 13 00-0228	EA		25 HP Motor Mounting.....	1,175.49	684.14
23 05 13 00-0229	EA		30 HP Motor Mounting.....	1,425.28	684.14
23 05 13 00-0230	EA		40 HP Motor Mounting.....	1,605.95	1,026.20
23 05 13 00-0231	EA		50 HP Motor Mounting.....	1,781.60	1,026.20
23 05 13 00-0232	EA		75 HP Motor Mounting.....	2,151.36	1,505.10
23 05 13 00-0233	EA		100 HP Motor Mounting.....	2,591.41	1,505.10
23 05 13 00-0234	EA		125 HP Motor Mounting.....	3,167.29	2,052.40
23 05 13 00-0235	EA		150 HP Motor Mounting.....	3,678.14	2,052.40
23 05 13 00-0236	EA		200 HP Motor Mounting.....	4,223.05	2,462.88

23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)**23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)**

Note: Includes internal sleeves and external covers.

23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0003	EA		1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	251.05	113.56
			For 300 LB Rating, Add	5.95	
23 05 16 00-0004	EA		3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	282.05	128.07
			For 300 LB Rating, Add	6.52	
23 05 16 00-0005	EA		1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	327.52	146.80
			For 300 LB Rating, Add	8.50	
23 05 16 00-0006	EA		1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	368.16	163.86
			For 300 LB Rating, Add	10.20	
23 05 16 00-0007	EA		1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	397.55	176.11
			For 300 LB Rating, Add	11.33	
23 05 16 00-0008	EA		2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	461.96	207.24
			For 300 LB Rating, Add	11.90	

23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0010 EA 1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	686.55	113.51
For 300 LB Rating, Add	136.39	
23 05 16 00-0011 EA 1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	751.91	136.22
For 300 LB Rating, Add	145.30	
23 05 16 00-0012 EA 2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	797.54	172.94
For 300 LB Rating, Add	145.33	
23 05 16 00-0013 EA 2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	860.26	188.12
For 300 LB Rating, Add	156.10	
23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	950.74	220.55
For 300 LB Rating, Add	168.68	
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,191.13	369.74
For 300 LB Rating, Add	181.95	
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,589.89	404.43
For 300 LB Rating, Add	271.28	
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,493.04	449.37
For 300 LB Rating, Add	232.33	
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,917.85	574.19
For 300 LB Rating, Add	301.14	
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,431.95	699.02
For 300 LB Rating, Add	389.55	
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,173.91	529.50
For 300 LB Rating, Add	528.38	
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,017.92	998.60
For 300 LB Rating, Add	692.42	
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	5,138.09	1,098.45
For 300 LB Rating, Add	941.26	
23 05 16 00-0023	Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)	
	Note: Carbon steel ends. Includes internal sleeves and external covers.	
23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	749.43	155.68
For 300 LB Rating, Add	109.54	
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	780.80	156.97
For 300 LB Rating, Add	116.71	
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	791.57	162.17
For 300 LB Rating, Add	116.73	
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint	855.58	176.82
For 300 LB Rating, Add	125.38	
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	959.38	207.96
For 300 LB Rating, Add	135.76	
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,411.94	414.11
For 300 LB Rating, Add	146.14	
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,714.97	422.78
For 300 LB Rating, Add	217.89	
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,681.93	468.09
For 300 LB Rating, Add	186.61	
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,035.68	534.87
For 300 LB Rating, Add	241.88	
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,559.56	655.33
For 300 LB Rating, Add	312.88	
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,286.23	794.38
For 300 LB Rating, Add	424.39	
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,928.81	808.87
For 300 LB Rating, Add	577.68	
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	5,163.75	1,011.07
For 300 LB Rating, Add	785.29	
23 05 17	Sleeves and Sleeve Seals for HVAC Piping (23 05)	
23 05 17 00-0001	Wall Seals And Sleeves (23 05 17)	
	Note: Up to 12" walls. Excludes drilling hole.	
23 05 17 00-0002	Ductile Iron Wall Sleeve (23 05 17 00-0001)	
	Note: Includes rubber gasket seal.	
23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal	139.79	61.72
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal	168.87	72.10
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal	205.03	86.49
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal	297.15	129.67
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal	387.50	172.86
23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal	480.30	216.17
23 05 17 00-0009	Steel Pipe Sleeves (23 05 17 00-0001)	
	Note: Includes link seals 12" length.	
23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals.....	159.71	62.44
23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals	192.23	67.69
23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals.....	223.51	72.94
23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals.....	274.72	87.49
23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals.....	388.87	109.27
23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals.....	698.89	131.17
23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	830.40	163.98
23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,102.68	201.75
23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,508.85	262.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 17 Sleeves and Sleeve Seals for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 17 00-0019 EA 29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,635.56	327.95
23 05 19 Meters and Gages for HVAC Piping (23 05) See CSI section 33 19 00 00-0000 for water utility service metering.		
23 05 19 00-0001 Thermometers (23 05 19)		
23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers (23 05 19 00-0001) Note: Various ranges.		
23 05 19 00-0003 EA 2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	126.45	45.09
23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	144.81	45.09
23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	144.81	45.09
23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers (23 05 19 00-0001) Note: Various ranges.		
23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	163.17	45.09
23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	163.17	45.09
23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	201.57	45.09
23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	168.18	45.09
23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	176.53	45.09
23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	206.58	45.09
23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers (23 05 19 00-0001) Note: Various ranges. Socket connection for thermowell.		
23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	163.17	45.09
23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	163.17	45.09
23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	201.57	45.09
23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	184.88	45.09
23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	201.57	45.09
23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	205.83	45.09
23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells (23 05 19 00-0001)		
23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell	190.72	84.53
23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell	190.66	84.53
23 05 19 00-0023 Pressure Gauges (23 05 19)		
23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	45.90	17.61
23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	55.75	17.61
23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	203.58	17.61
23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	203.58	17.61
23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	260.76	17.61
23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	597.49	17.61
23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023) Note: Liquid filled.		
23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	129.40	17.61
23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	279.99	17.61
23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0036 EA 4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0037 EA 6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0038 EA 8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0039 Gauge Accessories (23 05 19 00-0023)		
23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....	89.63	14.09
23 05 19 00-0041 EA 1/4" Snubber Valve	60.00	14.09
23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock	38.57	21.14
23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock	34.44	21.14
23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon	38.51	21.14
23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple.....	8.21	7.04
23 05 19 00-0046 EA 1/4" Steel Thread-O-Let.....	84.37	35.22
23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union	71.82	14.09
23 05 19 00-0048 EA 1/4" Black Steel Coupling.....	29.80	14.09
23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug	17.28	8.45
23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap.....	17.82	8.45
23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	9.12	4.65
23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe	9.07	4.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	9.28	
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve	108.22	
23 05 19 00-0055 Valve Lock Covers (23 05 19)		
23 05 19 00-0056 EA Valve Lock Cover.....	82.49	21.56
23 05 19 00-0057 Venturi Flowmeters (23 05 19)		
23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter	290.87	95.80
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter	324.71	114.96
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter	358.48	127.79
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter	403.94	143.71
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter	478.29	164.28
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter	629.95	203.09
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter	1,244.91	196.77
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	297.98	
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter	1,692.56	236.12
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	427.11	
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter	2,207.94	295.15
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	566.17	
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter	2,660.12	393.53
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	655.56	
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter	3,810.81	472.24
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,003.21	
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter	6,090.26	590.31
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,718.38	
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter	8,940.31	752.44
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	2,602.40	
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter	12,587.45	1,128.66
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	3,615.54	
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter	18,542.53	1,254.08
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	5,612.04	
23 05 19 00-0075 Turbine Flowmeter (23 05 19)		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter	854.90	105.67
23 05 19 00-0077 Sight Flow Indicator (23 05 19)		
23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	152.04	20.51
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	158.91	21.58
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	171.53	22.68
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	194.84	30.56
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	233.15	37.04
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	267.03	46.90
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	371.81	54.22
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	414.09	64.08
23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0088 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	194.38	20.51
23 05 19 00-0089 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	200.31	21.58
23 05 19 00-0090 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	215.75	22.68
23 05 19 00-0091 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	232.48	30.56
23 05 19 00-0092 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	249.15	37.04
23 05 19 00-0093 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	273.62	46.90
23 05 19 00-0094 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	499.78	54.22
23 05 19 00-0095 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	538.29	64.08
23 05 19 00-0096 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0097 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	276.25	20.51
23 05 19 00-0098 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	291.58	21.58
23 05 19 00-0099 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	316.43	22.68
23 05 19 00-0100 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	347.28	30.56
23 05 19 00-0101 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	399.70	37.04
23 05 19 00-0102 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	427.00	46.90
23 05 19 00-0103 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	838.52	54.22
23 05 19 00-0104 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	886.45	64.08
23 05 19 00-0105 Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0106 EA 1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	191.56	20.51
23 05 19 00-0107 EA 3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	199.37	21.58
23 05 19 00-0108 EA 1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	211.05	22.68
23 05 19 00-0109 EA 3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	231.54	30.56
23 05 19 00-0110 EA 1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	248.21	37.04
23 05 19 00-0111 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	273.62	46.90
23 05 19 00-0112 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	494.13	54.22
23 05 19 00-0113 EA 2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	530.77	64.08
23 05 19 00-0114 Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0115 EA 1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	274.37	20.51
23 05 19 00-0116 EA 3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	295.34	21.58
23 05 19 00-0117 EA 1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	322.08	22.68
23 05 19 00-0118 EA 3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	347.28	30.56
23 05 19 00-0119 EA 1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	399.70	37.04
23 05 19 00-0120 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	430.76	46.90
23 05 19 00-0121 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	838.52	54.22
23 05 19 00-0122 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	886.45	64.08
23 05 19 00-0123 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0124 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	407.23	37.04
23 05 19 00-0125 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	460.87	46.90
23 05 19 00-0126 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	524.24	54.22
23 05 19 00-0127 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	590.99	64.08
23 05 19 00-0128 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0129 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	902.79	147.88
23 05 19 00-0130 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	1,016.20	187.75
23 05 19 00-0131 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	1,477.02	220.45
23 05 19 00-0132 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	2,242.00	369.57
23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	3,535.89	415.01



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)

23 05 19 00-0135	EA			1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	689.91	105.63
23 05 19 00-0136	EA			1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	813.64	123.23
23 05 19 00-0137	EA			1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	883.50	147.88
23 05 19 00-0138	EA			2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,107.94	187.75
23 05 19 00-0139	EA			3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,589.47	220.45
23 05 19 00-0140	EA			4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	2,363.85	369.57

23 05 19 00-0141 Water Flow Switches (23 05 19)

23 05 19 00-0142	EA			Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	270.40	41.52
23 05 19 00-0143	EA			Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	279.01	41.52
23 05 19 00-0144	EA			Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	351.79	41.52
23 05 19 00-0145	EA			Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	362.80	41.52
23 05 19 00-0146	EA			Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	290.03	41.52
23 05 19 00-0147	EA			Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	300.08	41.52
23 05 19 00-0148	EA			Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	371.42	41.52
23 05 19 00-0149	EA			Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	381.47	41.52
23 05 19 00-0150	EA			Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	705.07	41.52
23 05 19 00-0151	EA			Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	714.81	41.52
23 05 19 00-0152	EA			Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	807.32	41.52
23 05 19 00-0153	EA			Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	820.71	41.52
23 05 19 00-0154	EA			Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	728.20	41.52
23 05 19 00-0155	EA			Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	741.59	41.52
23 05 19 00-0156	EA			Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	830.44	41.52
23 05 19 00-0157	EA			Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	845.05	41.52

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for bolt and gasket sets.

23 05 23 00-0001 Gate Valves (23 05 23)

23 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

23 05 23 00-0003	EA			1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	86.10	14.09
				<i>For Work In Restricted Working Space, Add</i>	12.30	
				<i>For 150 LB Rating, Add</i>	4.51	
				<i>For 200 LB Rating, Add</i>	6.76	
23 05 23 00-0004	EA			3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	88.26	14.09
				<i>For Work In Restricted Working Space, Add</i>	12.95	
				<i>For 150 LB Rating, Add</i>	4.51	
				<i>For 200 LB Rating, Add</i>	6.76	
23 05 23 00-0005	EA			1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	90.79	14.09
				<i>For Work In Restricted Working Space, Add</i>	13.63	
				<i>For 150 LB Rating, Add</i>	4.54	
				<i>For 200 LB Rating, Add</i>	6.80	
23 05 23 00-0006	EA			3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	109.98	15.50
				<i>For Work In Restricted Working Space, Add</i>	18.37	
				<i>For 150 LB Rating, Add</i>	4.88	
				<i>For 200 LB Rating, Add</i>	7.31	
23 05 23 00-0007	EA			1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	133.84	17.61
				<i>For Work In Restricted Working Space, Add</i>	22.24	
				<i>For 150 LB Rating, Add</i>	5.97	
				<i>For 200 LB Rating, Add</i>	8.96	
23 05 23 00-0008	EA			1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	191.39	18.74
				<i>For Work In Restricted Working Space, Add</i>	28.17	
				<i>For 150 LB Rating, Add</i>	9.75	
				<i>For 200 LB Rating, Add</i>	14.62	
23 05 23 00-0009	EA			1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	214.30	21.69
				<i>For Work In Restricted Working Space, Add</i>	32.50	
				<i>For 150 LB Rating, Add</i>	10.60	
				<i>For 200 LB Rating, Add</i>	15.89	
23 05 23 00-0010	EA			2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	256.41	25.63
				<i>For Work In Restricted Working Space, Add</i>	38.41	
				<i>For 150 LB Rating, Add</i>	12.84	
				<i>For 200 LB Rating, Add</i>	19.26	
23 05 23 00-0011	EA			2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	545.26	34.62
				<i>For Work In Restricted Working Space, Add</i>	51.87	
				<i>For 150 LB Rating, Add</i>	37.24	
				<i>For 200 LB Rating, Add</i>	55.85	
				<i>For Chain Operated Type, Add</i>	167.56	
23 05 23 00-0012	EA			3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	638.89	40.20
				<i>For Work In Restricted Working Space, Add</i>	59.85	
				<i>For 150 LB Rating, Add</i>	43.94	
				<i>For 200 LB Rating, Add</i>	65.91	

23 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0014 EA 1/4" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	101.13	14.09
For Work In Restricted Working Space, Add	12.30	
For 150 LB Rating, Add	6.01	
For 200 LB Rating, Add	9.02	
23 05 23 00-0015 EA 3/8" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	103.16	14.09
For Work In Restricted Working Space, Add	12.95	
For 150 LB Rating, Add	6.00	
For 200 LB Rating, Add	9.00	
23 05 23 00-0016 EA 1/2" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	118.56	14.09
For Work In Restricted Working Space, Add	13.63	
For 150 LB Rating, Add	7.31	
For 200 LB Rating, Add	10.97	
23 05 23 00-0017 EA 3/4" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	137.74	15.50
For Work In Restricted Working Space, Add	18.37	
For 150 LB Rating, Add	7.65	
For 200 LB Rating, Add	11.48	
23 05 23 00-0018 EA 1" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	165.52	17.61
For Work In Restricted Working Space, Add	22.24	
For 150 LB Rating, Add	9.14	
For 200 LB Rating, Add	13.71	
23 05 23 00-0019 EA 1-1/4" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	234.72	18.74
For Work In Restricted Working Space, Add	28.17	
For 150 LB Rating, Add	14.08	
For 200 LB Rating, Add	21.12	
23 05 23 00-0020 EA 1-1/2" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	268.80	21.69
For Work In Restricted Working Space, Add	32.50	
For 150 LB Rating, Add	16.05	
For 200 LB Rating, Add	24.07	
23 05 23 00-0021 EA 2" Diameter, 125 LB Brazerd Or Soldered Bronze Lead Free Gate Valve.....	340.62	25.63
For Work In Restricted Working Space, Add	38.41	
For 150 LB Rating, Add	21.26	
For 200 LB Rating, Add	31.89	
23 05 23 00-0022 Class 125 Threaded, Bronze Gate Valves (23 05 23 00-0001)		
Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05 23 00-0023 EA 1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	71.41	14.09
For Work In Restricted Working Space, Add	12.30	
For 150 LB Rating, Add	3.04	
For 200 LB Rating, Add	4.56	
For 250 LB Rating, Add	7.60	
For 300 LB Rating, Add	10.64	
23 05 23 00-0024 EA 3/8" Diameter, 125 LB, Threaded Bronze Gate Valve.....	73.57	14.09
For Work In Restricted Working Space, Add	12.95	
For 150 LB Rating, Add	3.04	
For 200 LB Rating, Add	4.56	
For 250 LB Rating, Add	7.60	
For 300 LB Rating, Add	10.64	
23 05 23 00-0025 EA 1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	75.84	14.09
For Work In Restricted Working Space, Add	13.63	
For 150 LB Rating, Add	3.04	
For 200 LB Rating, Add	4.56	
For 250 LB Rating, Add	7.60	
For 300 LB Rating, Add	10.64	
23 05 23 00-0026 EA 3/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	97.51	15.50
For Work In Restricted Working Space, Add	18.37	
For 150 LB Rating, Add	3.63	
For 200 LB Rating, Add	5.44	
For 250 LB Rating, Add	9.07	
For 300 LB Rating, Add	12.70	
23 05 23 00-0027 EA 1" Diameter, 125 LB, Threaded Bronze Gate Valve.....	128.93	17.61
For Work In Restricted Working Space, Add	22.24	
For 150 LB Rating, Add	5.48	
For 200 LB Rating, Add	8.22	
For 250 LB Rating, Add	13.70	
For 300 LB Rating, Add	19.18	
23 05 23 00-0028 EA 1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	167.79	18.74
For Work In Restricted Working Space, Add	28.17	
For 150 LB Rating, Add	7.39	
For 200 LB Rating, Add	11.08	
For 250 LB Rating, Add	18.47	
For 300 LB Rating, Add	25.86	
23 05 23 00-0029 EA 1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	201.45	21.69
For Work In Restricted Working Space, Add	32.50	
For 150 LB Rating, Add	9.31	
For 200 LB Rating, Add	13.97	
For 250 LB Rating, Add	23.28	
For 300 LB Rating, Add	32.59	
23 05 23 00-0030 EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	255.25	25.63
For Work In Restricted Working Space, Add	38.41	
For 150 LB Rating, Add	12.72	
For 200 LB Rating, Add	19.08	
For 250 LB Rating, Add	31.80	
For 300 LB Rating, Add	44.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0031 EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	535.72	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	
<i>For 150 LB Rating, Add</i>	36.28	
<i>For 200 LB Rating, Add</i>	54.42	
<i>For 250 LB Rating, Add</i>	90.71	
<i>For 300 LB Rating, Add</i>	126.99	
<i>For Chain Operated Type, Add</i>	163.27	
23 05 23 00-0032 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve	633.20	40.20
<i>For Work In Restricted Working Space, Add</i>	59.85	
<i>For 150 LB Rating, Add</i>	43.37	
<i>For 200 LB Rating, Add</i>	65.06	
<i>For 250 LB Rating, Add</i>	108.43	
<i>For 300 LB Rating, Add</i>	151.80	
<i>For Chain Operated Type, Add</i>	195.17	
23 05 23 00-0033 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve	1,260.13	45.38
<i>For Work In Restricted Working Space, Add</i>	68.08	
<i>For 150 LB Rating, Add</i>	103.32	
<i>For 200 LB Rating, Add</i>	154.98	
<i>For 250 LB Rating, Add</i>	258.30	
<i>For 300 LB Rating, Add</i>	361.62	
<i>For Chain Operated Type, Add</i>	464.94	
23 05 23 00-0034 Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0035 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	287.92	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
<i>For 150 LB Rating, Add</i>	35.92	
<i>For 250 LB Rating, Add</i>	62.85	
<i>For Chain Operated Type, Add</i>	62.85	
23 05 23 00-0036 EA 2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	431.48	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
<i>For 150 LB Rating, Add</i>	60.69	
<i>For 250 LB Rating, Add</i>	106.20	
<i>For Chain Operated Type, Add</i>	106.20	
23 05 23 00-0037 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	629.28	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	
<i>For 150 LB Rating, Add</i>	91.28	
<i>For 250 LB Rating, Add</i>	159.73	
<i>For Chain Operated Type, Add</i>	159.73	
23 05 23 00-0038 EA 3" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	798.29	40.20
<i>For Work In Restricted Working Space, Add</i>	59.85	
<i>For 150 LB Rating, Add</i>	119.76	
<i>For 250 LB Rating, Add</i>	209.58	
<i>For Chain Operated Type, Add</i>	209.58	
23 05 23 00-0039 EA 4" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,838.81	45.38
<i>For Work In Restricted Working Space, Add</i>	68.08	
<i>For 150 LB Rating, Add</i>	322.38	
<i>For 250 LB Rating, Add</i>	564.16	
<i>For Chain Operated Type, Add</i>	564.16	
23 05 23 00-0040 Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0041 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	438.89	147.88
<i>For Work In Restricted Working Space, Add</i>	55.60	
<i>For 150 LB Rating, Add</i>	73.54	
<i>For 250 LB Rating, Add</i>	126.79	
<i>For 300 LB Rating, ASTM A182, Add</i>	346.23	
<i>For Chain Operated Type, Add</i>	126.79	
23 05 23 00-0042 EA 2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	499.94	187.75
<i>For Work In Restricted Working Space, Add</i>	70.42	
<i>For 150 LB Rating, Add</i>	76.91	
<i>For 250 LB Rating, Add</i>	132.60	
<i>For 300 LB Rating, ASTM A182, Add</i>	382.57	
<i>For Chain Operated Type, Add</i>	132.60	
23 05 23 00-0043 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	553.96	188.03
<i>For Work In Restricted Working Space, Add</i>	70.73	
<i>For 150 LB Rating, Add</i>	92.28	
<i>For 250 LB Rating, Add</i>	159.10	
<i>For 300 LB Rating, ASTM A182, Add</i>	436.08	
<i>For Chain Operated Type, Add</i>	159.10	
23 05 23 00-0044 EA 3" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	673.61	220.45
<i>For Work In Restricted Working Space, Add</i>	82.77	
<i>For 150 LB Rating, Add</i>	115.34	
<i>For 250 LB Rating, Add</i>	198.86	
<i>For 300 LB Rating, ASTM A182, Add</i>	535.66	
<i>For Chain Operated Type, Add</i>	198.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0045 EA 4" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	993.44	369.57
For Work In Restricted Working Space, Add	138.94	
For 150 LB Rating, Add	153.79	
For 250 LB Rating, Add	265.16	
For 300 LB Rating, ASTM A182, Add	761.88	
For Chain Operated Type, Add	265.16	
23 05 23 00-0046 EA 5" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,155.51	373.50
For Work In Restricted Working Space, Add	139.85	
For 150 LB Rating, Add	199.91	
For 250 LB Rating, Add	344.67	
For 300 LB Rating, ASTM A182, Add	922.43	
For Chain Operated Type, Add	344.67	
23 05 23 00-0047 EA 6" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,368.95	415.01
For Work In Restricted Working Space, Add	156.19	
For 150 LB Rating, Add	246.02	
For 250 LB Rating, Add	424.17	
For 300 LB Rating, ASTM A182, Add	1,108.64	
For Chain Operated Type, Add	424.17	
23 05 23 00-0048 EA 8" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,064.01	530.29
For Work In Restricted Working Space, Add	197.62	
For 150 LB Rating, Add	407.53	
For 250 LB Rating, Add	702.64	
For 300 LB Rating, ASTM A182, Add	1,734.64	
For Chain Operated Type, Add	702.64	
23 05 23 00-0049 EA 10" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,662.83	645.57
For Work In Restricted Working Space, Add	242.09	
For 150 LB Rating, Add	538.21	
For 250 LB Rating, Add	927.94	
For 300 LB Rating, ASTM A182, Add	2,259.36	
For Chain Operated Type, Add	927.94	
23 05 23 00-0050 EA 12" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,629.53	783.89
For Work In Restricted Working Space, Add	293.44	
For 150 LB Rating, Add	768.91	
For 250 LB Rating, Add	1,325.70	
For 300 LB Rating, ASTM A182, Add	3,140.47	
For Chain Operated Type, Add	1,325.70	
23 05 23 00-0051 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0052 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	548.53	21.69
For Work In Restricted Working Space, Add	32.50	
For 175 LB Rating, Add	220.10	
For 250 LB Rating, Add	330.14	
23 05 23 00-0053 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	697.09	25.63
For Work In Restricted Working Space, Add	38.41	
For 175 LB Rating, Add	284.53	
For 250 LB Rating, Add	426.79	
23 05 23 00-0054 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	814.58	34.62
For Work In Restricted Working Space, Add	51.87	
For 175 LB Rating, Add	320.84	
For 250 LB Rating, Add	481.26	
23 05 23 00-0055 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	907.53	40.20
For Work In Restricted Working Space, Add	59.85	
For 175 LB Rating, Add	354.02	
For 250 LB Rating, Add	531.02	
23 05 23 00-0056 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,204.62	45.38
For Work In Restricted Working Space, Add	68.08	
For 175 LB Rating, Add	488.85	
For 250 LB Rating, Add	733.27	
23 05 23 00-0057 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0058 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	550.87	147.88
For Work In Restricted Working Space, Add	55.60	
For 150 LB Rating, Add	54.83	
For 175 LB Rating, Add	113.32	
For 250 LB Rating, Add	237.61	
For Chain Operated Type, Add	182.78	
23 05 23 00-0059 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	611.14	187.75
For Work In Restricted Working Space, Add	70.42	
For 150 LB Rating, Add	56.46	
For 175 LB Rating, Add	116.68	
For 250 LB Rating, Add	244.66	
For Chain Operated Type, Add	188.20	
23 05 23 00-0060 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	624.46	188.03
For Work In Restricted Working Space, Add	70.73	
For 150 LB Rating, Add	58.30	
For 175 LB Rating, Add	120.49	
For 250 LB Rating, Add	252.65	
For Chain Operated Type, Add	194.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0061 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	703.56	220.45
<i>For Work In Restricted Working Space, Add</i>	82.77	
<i>For 150 LB Rating, Add</i>	64.15	
<i>For 175 LB Rating, Add</i>	132.57	
<i>For 250 LB Rating, Add</i>	277.98	
<i>For Chain Operated Type, Add</i>	213.83	
23 05 23 00-0062 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	981.77	369.57
<i>For Work In Restricted Working Space, Add</i>	138.94	
<i>For 150 LB Rating, Add</i>	77.80	
<i>For 175 LB Rating, Add</i>	160.78	
<i>For 250 LB Rating, Add</i>	337.12	
<i>For Chain Operated Type, Add</i>	259.32	
23 05 23 00-0063 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,189.79	373.50
<i>For Work In Restricted Working Space, Add</i>	139.85	
<i>For 150 LB Rating, Add</i>	108.54	
<i>For 175 LB Rating, Add</i>	224.32	
<i>For 250 LB Rating, Add</i>	470.35	
<i>For Chain Operated Type, Add</i>	361.81	
23 05 23 00-0064 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,347.02	415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
<i>For 150 LB Rating, Add</i>	123.96	
<i>For 175 LB Rating, Add</i>	256.18	
<i>For 250 LB Rating, Add</i>	537.16	
<i>For Chain Operated Type, Add</i>	413.20	
23 05 23 00-0065 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,056.41	530.29
<i>For Work In Restricted Working Space, Add</i>	197.62	
<i>For 150 LB Rating, Add</i>	209.65	
<i>For 175 LB Rating, Add</i>	433.28	
<i>For 250 LB Rating, Add</i>	908.49	
<i>For Chain Operated Type, Add</i>	698.84	
23 05 23 00-0066 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,957.96	645.57
<i>For Work In Restricted Working Space, Add</i>	242.09	
<i>For 150 LB Rating, Add</i>	322.65	
<i>For 175 LB Rating, Add</i>	666.81	
<i>For 250 LB Rating, Add</i>	1,398.16	
<i>For Chain Operated Type, Add</i>	1,075.51	
23 05 23 00-0067 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	3,704.36	783.89
<i>For Work In Restricted Working Space, Add</i>	293.44	
<i>For 150 LB Rating, Add</i>	408.93	
<i>For 175 LB Rating, Add</i>	845.13	
<i>For 250 LB Rating, Add</i>	1,772.05	
<i>For Chain Operated Type, Add</i>	1,363.12	
23 05 23 00-0068 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	7,114.24	1,040.46
<i>For Work In Restricted Working Space, Add</i>	390.17	
<i>For 150 LB Rating, Add</i>	872.05	
<i>For 175 LB Rating, Add</i>	1,802.23	
<i>For 250 LB Rating, Add</i>	3,778.88	
23 05 23 00-0069 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	9,163.39	1,144.51
<i>For Work In Restricted Working Space, Add</i>	429.19	
<i>For 150 LB Rating, Add</i>	1,159.91	
<i>For 175 LB Rating, Add</i>	2,397.15	
<i>For 250 LB Rating, Add</i>	5,026.29	
23 05 23 00-0070 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	12,412.69	1,269.37
<i>For Work In Restricted Working Space, Add</i>	476.01	
<i>For 150 LB Rating, Add</i>	1,623.90	
<i>For 175 LB Rating, Add</i>	3,356.06	
<i>For 250 LB Rating, Add</i>	7,036.89	
23 05 23 00-0071 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	15,705.29	1,430.64
<i>For Work In Restricted Working Space, Add</i>	536.49	
<i>For 150 LB Rating, Add</i>	2,087.55	
<i>For 175 LB Rating, Add</i>	4,314.27	
<i>For 250 LB Rating, Add</i>	9,046.05	
23 05 23 00-0072 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	21,393.53	1,755.78
<i>For Work In Restricted Working Space, Add</i>	658.42	
<i>For 150 LB Rating, Add</i>	2,879.82	
<i>For 175 LB Rating, Add</i>	5,951.63	
<i>For 250 LB Rating, Add</i>	12,479.22	
23 05 23 00-0073 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	44,374.03	2,861.27
<i>For Work In Restricted Working Space, Add</i>	1,072.97	
<i>For 150 LB Rating, Add</i>	6,119.62	
<i>For 175 LB Rating, Add</i>	12,647.21	
<i>For 250 LB Rating, Add</i>	26,518.34	
23 05 23 00-0074 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	56,605.54	3,815.02
<i>For Work In Restricted Working Space, Add</i>	1,430.63	
<i>For 150 LB Rating, Add</i>	7,775.51	
<i>For 175 LB Rating, Add</i>	16,069.40	
<i>For 250 LB Rating, Add</i>	33,693.89	
23 05 23 00-0075 EA 42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	66,606.54	4,904.25
<i>For Work In Restricted Working Space, Add</i>	1,839.10	
<i>For 150 LB Rating, Add</i>	9,071.43	
<i>For 175 LB Rating, Add</i>	18,747.63	
<i>For 250 LB Rating, Add</i>	39,309.54	
23 05 23 00-0076 EA 48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	80,191.70	6,130.32
<i>For Work In Restricted Working Space, Add</i>	2,298.87	
<i>For 150 LB Rating, Add</i>	10,879.32	
<i>For 175 LB Rating, Add</i>	22,483.93	
<i>For 250 LB Rating, Add</i>	47,143.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0077	EA		54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	96,230.04	7,356.38
			<i>For Work In Restricted Working Space, Add</i>	2,758.64	
			<i>For 150 LB Rating, Add</i>	13,055.18	
			<i>For 175 LB Rating, Add</i>	26,980.71	
			<i>For 250 LB Rating, Add</i>	56,572.46	
23 05 23 00-0078			Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves (23 05 23 00-0001)		
			Note: 800 psig at 850 degrees F.		
23 05 23 00-0079	EA		1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	167.17	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0080	EA		1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	171.60	14.09
			<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0081	EA		3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	204.31	15.50
			<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0082	EA		1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	247.98	17.61
			<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0083	EA		1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	374.40	18.74
			<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0084	EA		1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	442.19	21.69
			<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0085	EA		2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	554.20	25.63
			<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0086			200 PSI, Non Rising Stem, Crimped Bronze Gate Valves (23 05 23 00-0001)		
			Note: 200 psi cold working pressure.		
23 05 23 00-0087	EA		1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	116.56	14.09
			<i>For Work In Restricted Working Space, Add</i>	9.51	
23 05 23 00-0088	EA		3/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	131.38	15.50
			<i>For Work In Restricted Working Space, Add</i>	10.83	
23 05 23 00-0089	EA		1" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	171.46	17.61
			<i>For Work In Restricted Working Space, Add</i>	12.94	
23 05 23 00-0090	EA		1-1/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	230.63	18.74
			<i>For Work In Restricted Working Space, Add</i>	14.26	
23 05 23 00-0091	EA		1-1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	266.71	21.69
			<i>For Work In Restricted Working Space, Add</i>	15.85	
23 05 23 00-0092	EA		2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	364.50	25.63
			<i>For Work In Restricted Working Space, Add</i>	19.01	
23 05 23 00-0093			Ball Valves (23 05 23)		
			See CSI section 23 23 13 00-0000 for refrigeration valves.		
23 05 23 00-0094			Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0093)		
			Note: 125 LB WSP.		
23 05 23 00-0095	EA		1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	56.94	14.09
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	5.18	
			<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0096	EA		3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	78.91	15.50
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	7.96	
			<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0097	EA		1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	98.00	17.61
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	10.74	
			<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0098	EA		1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	133.98	18.74
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	18.04	
			<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0099	EA		1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	159.52	21.69
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	23.03	
			<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0100	EA		2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	192.16	25.63
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	28.85	
			<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0101	EA		2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	475.47	34.62
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	136.16	
			<i>For Work In Restricted Working Space, Add</i>	51.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0102 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	548.61	40.20
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	157.10	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0103 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	702.89	45.38
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	214.18	
<i>For Work In Restricted Working Space, Add</i>	68.08	
23 05 23 00-0104 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0105 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	63.01	14.09
<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0106 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	69.32	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0107 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	95.77	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0108 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	120.58	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0109 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	173.29	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0110 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	208.91	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0111 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	266.52	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0112 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0113 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	1,428.07	369.57
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0114 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	2,297.22	415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0115 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	4,840.49	530.29
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0116 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0117 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	53.51	14.09
<i>For True Union Socket Or Thread Type, Add</i>	5.61	
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0118 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	70.51	15.50
<i>For True Union Socket Or Thread Type, Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0119 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	87.06	17.61
<i>For True Union Socket Or Thread Type, Add</i>	9.06	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0120 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	110.88	18.74
<i>For True Union Socket Or Thread Type, Add</i>	11.72	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0121 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	137.89	21.69
<i>For True Union Socket Or Thread Type, Add</i>	17.51	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0122 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	165.70	25.63
<i>For True Union Socket Or Thread Type, Add</i>	21.79	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0123 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	253.93	34.62
<i>For True Union Socket Or Thread Type, Add</i>	41.49	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0124 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	337.27	40.20
<i>For True Union Socket Or Thread Type, Add</i>	65.58	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0125 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	490.36	45.38
<i>For True Union Socket Or Thread Type, Add</i>	117.29	
<i>For Work In Restricted Working Space, Add</i>	68.08	
23 05 23 00-0126 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0127 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	96.10	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	18.46	
23 05 23 00-0128 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	99.34	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	19.43	
23 05 23 00-0129 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	102.73	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	20.45	
23 05 23 00-0130 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	128.52	23.24
<i>For Full Port, Add</i>	16.50	
<i>For Work In Restricted Working Space, Add</i>	27.56	
23 05 23 00-0131 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	165.51	26.41
<i>For Full Port, Add</i>	24.44	
<i>For Work In Restricted Working Space, Add</i>	33.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0132 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	215.17	28.10
For Full Port, Add	33.45	
For Work In Restricted Working Space, Add	42.25	
23 05 23 00-0133 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	261.34	32.53
For Full Port, Add	44.47	
For Work In Restricted Working Space, Add	48.75	
23 05 23 00-0134 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	352.90	38.45
For Full Port, Add	72.38	
For Work In Restricted Working Space, Add	57.62	
23 05 23 00-0135 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	649.69	51.93
For Full Port, Add	175.65	
For Work In Restricted Working Space, Add	77.81	
23 05 23 00-0136 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	919.08	60.30
For Full Port, Add	278.92	
For Work In Restricted Working Space, Add	89.78	
23 05 23 00-0137 Crimped Bronze, Ball Valves (23 05 23 00-0093)		
23 05 23 00-0138 Crimped Bronze, 250 PSI, Ball Valves (23 05 23 00-0137)		
Note: Nibco®		
23 05 23 00-0139 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve	82.95	14.09
For Work In Restricted Working Space, Add	9.51	
23 05 23 00-0140 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve	105.94	15.50
For Work In Restricted Working Space, Add	10.83	
23 05 23 00-0141 EA 1" Crimped Bronze, 250 PSI, Ball Valve	135.07	17.61
For Work In Restricted Working Space, Add	12.94	
23 05 23 00-0142 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve	211.99	18.74
For Work In Restricted Working Space, Add	14.26	
23 05 23 00-0143 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve	277.36	21.69
For Work In Restricted Working Space, Add	15.85	
23 05 23 00-0144 EA 2" Crimped Bronze, 250 PSI, Ball Valve	413.44	25.63
For Work In Restricted Working Space, Add	19.01	
23 05 23 00-0145 Crimped Bronze, 200 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0146 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	60.00	14.09
23 05 23 00-0147 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	75.88	15.50
23 05 23 00-0148 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	92.11	17.61
23 05 23 00-0149 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	127.13	18.74
23 05 23 00-0150 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	163.02	21.69
23 05 23 00-0151 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	239.39	25.63
23 05 23 00-0152 Crimped Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0153 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	68.42	14.09
23 05 23 00-0154 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	82.01	15.50
23 05 23 00-0155 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	101.90	17.61
23 05 23 00-0156 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	157.74	18.74
23 05 23 00-0157 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	228.83	21.69
23 05 23 00-0158 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	315.92	25.63
23 05 23 00-0159 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0160 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	66.13	14.09
23 05 23 00-0161 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	79.86	15.50
23 05 23 00-0162 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	97.00	17.61
23 05 23 00-0163 Globe Valves (23 05 23)		
23 05 23 00-0164 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0163)		
23 05 23 00-0165 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	80.05	14.09
For 150 LB Rating, Add	10.73	
For 200 LB Rating, Add	13.15	
For 250 LB Rating, Add	15.57	
For 300 LB Rating, Add	19.04	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0166 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	75.62	14.09
For 150 LB Rating, Add	10.73	
For 200 LB Rating, Add	13.15	
For 250 LB Rating, Add	15.57	
For 300 LB Rating, Add	19.04	
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0167 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	94.83	14.09
For 150 LB Rating, Add	16.01	
For 200 LB Rating, Add	19.63	
For 250 LB Rating, Add	23.25	
For 300 LB Rating, Add	28.41	
For Work In Restricted Working Space, Add	12.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0168 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	97.10	14.09
For 150 LB Rating, Add	16.01	
For 200 LB Rating, Add	19.63	
For 250 LB Rating, Add	23.25	
For 300 LB Rating, Add	28.41	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	75.00	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0169 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	117.23	14.79
For 150 LB Rating, Add	17.36	
For 200 LB Rating, Add	21.28	
For 250 LB Rating, Add	25.20	
For 300 LB Rating, Add	30.80	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	86.09	
For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0170 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	149.82	14.79
For 150 LB Rating, Add	23.46	
For 200 LB Rating, Add	28.76	
For 250 LB Rating, Add	34.06	
For 300 LB Rating, Add	41.63	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	112.91	
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0171 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	224.62	18.74
For 150 LB Rating, Add	40.52	
For 200 LB Rating, Add	49.67	
For 250 LB Rating, Add	58.82	
For 300 LB Rating, Add	71.90	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	181.35	
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0172 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	295.16	21.69
For 150 LB Rating, Add	57.91	
For 200 LB Rating, Add	70.99	
For 250 LB Rating, Add	84.07	
For 300 LB Rating, Add	102.75	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	248.84	
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0173 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	347.66	25.63
For 150 LB Rating, Add	68.08	
For 200 LB Rating, Add	83.46	
For 250 LB Rating, Add	98.83	
For 300 LB Rating, Add	120.79	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	292.80	
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0174 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	394.32	34.62
For 150 LB Rating, Add	68.64	
For 200 LB Rating, Add	84.14	
For 250 LB Rating, Add	99.64	
For 300 LB Rating, Add	121.78	
For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0175 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB.....	695.57	40.20
For 150 LB Rating, Add	153.78	
For 200 LB Rating, Add	188.51	
For 250 LB Rating, Add	223.23	
For 300 LB Rating, Add	272.84	
For Work In Restricted Working Space, Add	59.85	
23 05 23 00-0176 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0177 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	513.90	25.63
For 150 LB Rating, Add	119.62	
For 200 LB Rating, Add	146.63	
For 250 LB Rating, Add	173.64	
For 300 LB Rating, Add	212.22	
For Chain Operated Type, Add	322.19	
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0178 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	640.60	34.62
For 150 LB Rating, Add	144.99	
For 200 LB Rating, Add	177.73	
For 250 LB Rating, Add	210.47	
For 300 LB Rating, Add	257.24	
For Chain Operated Type, Add	390.53	
For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0179 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	760.75	40.20
For 150 LB Rating, Add	173.99	
For 200 LB Rating, Add	213.28	
For 250 LB Rating, Add	252.56	
For 300 LB Rating, Add	308.69	
For Chain Operated Type, Add	468.64	
For Work In Restricted Working Space, Add	59.85	
23 05 23 00-0180 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	975.20	45.38
For 150 LB Rating, Add	231.98	
For 200 LB Rating, Add	284.37	
For 250 LB Rating, Add	336.75	
For 300 LB Rating, Add	411.58	
For Chain Operated Type, Add	624.86	
For Work In Restricted Working Space, Add	68.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0181 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0182 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	451.98	187.75
For 150 LB Rating, Add	67.34	
For 250 LB Rating, Add	97.76	
For Chain Operated Type, Add	108.62	
For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0183 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	500.60	188.03
For 150 LB Rating, Add	82.10	
For 250 LB Rating, Add	119.17	
For Chain Operated Type, Add	132.42	
For Work In Restricted Working Space, Add	70.73	
23 05 23 00-0184 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	593.69	220.45
For 150 LB Rating, Add	98.51	
For 250 LB Rating, Add	143.01	
For Chain Operated Type, Add	158.90	
For Work In Restricted Working Space, Add	82.77	
23 05 23 00-0185 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	886.85	369.57
For 150 LB Rating, Add	131.35	
For 250 LB Rating, Add	190.67	
For Chain Operated Type, Add	211.86	
For Work In Restricted Working Space, Add	138.94	
23 05 23 00-0186 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,055.41	373.50
For 150 LB Rating, Add	182.66	
For 250 LB Rating, Add	265.16	
For Chain Operated Type, Add	294.62	
For Work In Restricted Working Space, Add	139.85	
23 05 23 00-0187 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,265.45	415.01
For 150 LB Rating, Add	230.90	
For 250 LB Rating, Add	335.17	
For Chain Operated Type, Add	372.42	
For Work In Restricted Working Space, Add	156.19	
23 05 23 00-0188 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,804.12	530.29
For 150 LB Rating, Add	355.07	
For 250 LB Rating, Add	515.42	
For Chain Operated Type, Add	572.69	
For Work In Restricted Working Space, Add	197.62	
23 05 23 00-0189 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	2,551.50	645.57
For 150 LB Rating, Add	540.81	
For 250 LB Rating, Add	785.05	
For Chain Operated Type, Add	872.28	
For Work In Restricted Working Space, Add	242.09	
23 05 23 00-0190 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	4,279.29	783.89
For 150 LB Rating, Add	1,023.36	
For 250 LB Rating, Add	1,485.52	
For Chain Operated Type, Add	1,650.58	
For Work In Restricted Working Space, Add	293.44	
23 05 23 00-0191 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0192 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	71.66	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0193 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	67.23	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0194 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	69.39	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	12.95	
23 05 23 00-0195 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	73.40	14.09
For 150 LB Rating, Add	8.67	
For 200 LB Rating, Add	10.62	
For 300 LB Rating, Add	15.38	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0196 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	100.01	14.79
For 150 LB Rating, Add	12.02	
For 200 LB Rating, Add	14.74	
For 300 LB Rating, Add	21.33	
For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0197 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	125.01	14.79
For 150 LB Rating, Add	15.77	
For 200 LB Rating, Add	19.33	
For 300 LB Rating, Add	27.98	
For Work In Restricted Working Space, Add	22.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0198 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	169.49	18.74
<i>For 150 LB Rating, Add</i>	23.43	
<i>For 200 LB Rating, Add</i>	28.72	
<i>For 300 LB Rating, Add</i>	41.57	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0199 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	196.47	21.69
<i>For 150 LB Rating, Add</i>	27.32	
<i>For 200 LB Rating, Add</i>	33.49	
<i>For 300 LB Rating, Add</i>	48.47	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0200 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	260.78	25.63
<i>For 150 LB Rating, Add</i>	41.15	
<i>For 200 LB Rating, Add</i>	50.44	
<i>For 300 LB Rating, Add</i>	73.01	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0201 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	427.23	37.60
<i>For 150 LB Rating, Add</i>	74.23	
<i>For 200 LB Rating, Add</i>	90.99	
<i>For 300 LB Rating, Add</i>	131.69	
<i>For Work In Restricted Working Space, Add</i>	56.34	
23 05 23 00-0202 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	622.18	43.67
<i>For 150 LB Rating, Add</i>	125.71	
<i>For 200 LB Rating, Add</i>	154.09	
<i>For 300 LB Rating, Add</i>	223.03	
<i>For Work In Restricted Working Space, Add</i>	65.00	
23 05 23 00-0203 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0163)		
23 05 23 00-0204 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	793.66	187.75
<i>For 250 LB Rating, Add</i>	335.35	
<i>For Chain Operated Type, Add</i>	217.98	
<i>For Work In Restricted Working Space, Add</i>	70.42	
23 05 23 00-0205 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	896.79	188.03
<i>For 250 LB Rating, Add</i>	396.61	
<i>For Chain Operated Type, Add</i>	257.80	
<i>For Work In Restricted Working Space, Add</i>	70.73	
23 05 23 00-0206 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,054.87	220.45
<i>For 250 LB Rating, Add</i>	467.38	
<i>For Chain Operated Type, Add</i>	303.80	
<i>For Work In Restricted Working Space, Add</i>	82.77	
23 05 23 00-0207 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,575.72	369.57
<i>For 250 LB Rating, Add</i>	667.55	
<i>For Chain Operated Type, Add</i>	433.91	
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0208 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,460.13	373.50
<i>For 250 LB Rating, Add</i>	1,196.38	
<i>For Chain Operated Type, Add</i>	777.64	
<i>For Work In Restricted Working Space, Add</i>	139.85	
23 05 23 00-0209 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,514.58	415.01
<i>For 250 LB Rating, Add</i>	1,196.38	
<i>For Chain Operated Type, Add</i>	777.64	
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0210 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	4,561.32	530.29
<i>For 250 LB Rating, Add</i>	2,341.55	
<i>For Chain Operated Type, Add</i>	1,522.01	
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0211 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0163)		
Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0212 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	208.70	22.82
<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0213 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	213.13	22.82
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0214 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	252.00	30.70
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0215 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	311.06	37.04
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0216 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	500.06	46.90
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0217 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	599.12	54.22
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0218 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	760.36	64.08
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0219 Triple Duty Valves (23 05 23)		
Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
23 05 23 00-0220 Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0221 EA 1" Threaded, Straight Pattern, Triple Duty Valve.....	290.82	14.79
23 05 23 00-0222 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....	339.15	18.74
23 05 23 00-0223 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....	370.02	21.69

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0224 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	946.27	187.75
23 05 23 00-0225 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve	1,057.71	188.03
23 05 23 00-0226 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	1,163.27	220.45
23 05 23 00-0227 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	2,352.36	369.57
23 05 23 00-0228 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	2,694.81	373.50
23 05 23 00-0229 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	3,563.01	415.01
23 05 23 00-0230 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	4,788.87	530.29
23 05 23 00-0231 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	7,627.80	645.57
23 05 23 00-0232 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0233 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	925.82	187.75
23 05 23 00-0234 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	1,033.17	188.03
23 05 23 00-0235 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	1,142.82	220.45
23 05 23 00-0236 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	2,299.20	369.57
23 05 23 00-0237 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,629.38	373.50
23 05 23 00-0238 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	2,949.63	415.01
23 05 23 00-0239 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	4,498.54	530.29
23 05 23 00-0240 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	5,996.20	645.57
23 05 23 00-0241 Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0242 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,073.30	220.45
23 05 23 00-0243 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,115.18	369.57
23 05 23 00-0244 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,420.83	373.50
23 05 23 00-0245 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,190.89	415.01
23 05 23 00-0246 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	4,281.81	530.29
23 05 23 00-0247 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	6,781.33	645.57
23 05 23 00-0248 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	10,154.67	783.89
23 05 23 00-0249 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	12,334.31	922.23
23 05 23 00-0250 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	15,413.58	1,014.46
23 05 23 00-0251 Grooved Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0252 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	951.04	34.79
23 05 23 00-0253 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	1,134.02	41.50
23 05 23 00-0254 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	1,318.75	45.00
23 05 23 00-0255 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	2,179.23	48.50
23 05 23 00-0256 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	2,520.71	58.79
23 05 23 00-0257 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	3,359.83	75.39
23 05 23 00-0258 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	4,567.50	95.68
23 05 23 00-0259 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	7,194.88	107.21
23 05 23 00-0260 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	11,411.57	130.72
23 05 23 00-0261 Plug Valves (23 05 23)		
23 05 23 00-0262 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0261)		
Note: Includes wrench.		
23 05 23 00-0263 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	290.72	14.09
23 05 23 00-0264 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	306.51	15.50
23 05 23 00-0265 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	386.99	17.61
23 05 23 00-0266 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	464.33	18.74
23 05 23 00-0267 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	511.31	21.69
23 05 23 00-0268 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	603.59	25.63
23 05 23 00-0269 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	901.24	34.62
23 05 23 00-0270 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,100.54	40.20
23 05 23 00-0271 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0261)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0272 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	466.73	187.75
23 05 23 00-0273 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	541.35	188.03
23 05 23 00-0274 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	659.88	220.45
23 05 23 00-0275 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	983.10	369.57
23 05 23 00-0276 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	1,907.73	415.01
23 05 23 00-0277 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	3,157.78	530.29
23 05 23 00-0278 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	4,971.49	645.57
23 05 23 00-0279 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	7,299.33	783.89
23 05 23 00-0280 Plug Valves, Forged Steel, Screwed (23 05 23 00-0261)		
23 05 23 00-0281 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,094.61	14.09
23 05 23 00-0282 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,294.74	15.50
23 05 23 00-0283 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,464.68	17.61
23 05 23 00-0284 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,758.31	18.74
23 05 23 00-0285 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,047.37	21.69
23 05 23 00-0286 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,690.65	25.63



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0287				Plug Valves, Eccentric, Cast Iron Flanged <small>(23 05 23 00-0261)</small>		
				23 05 23 00-0288 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,095.21	369.57
				23 05 23 00-0289 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,604.47	415.01
				23 05 23 00-0290 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,169.52	530.29
				23 05 23 00-0291 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,043.06	645.57
				23 05 23 00-0292 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,912.62	783.89
23 05 23 00-0293				Foot Valves <small>(23 05 23)</small>		
23 05 23 00-0294				Single Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0293)</small>		
				23 05 23 00-0295 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	106.74	35.22
				23 05 23 00-0296 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	121.04	39.44
				23 05 23 00-0297 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	152.76	45.09
				23 05 23 00-0298 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	198.03	50.72
				23 05 23 00-0299 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	439.11	83.12
				23 05 23 00-0300 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	559.35	101.44
23 05 23 00-0301				Double Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0293)</small>		
				23 05 23 00-0302 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	106.74	35.22
				23 05 23 00-0303 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	214.30	39.44
				23 05 23 00-0304 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	206.56	45.09
				23 05 23 00-0305 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	276.91	50.72
				23 05 23 00-0306 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	536.90	83.12
				23 05 23 00-0307 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	725.28	100.04
23 05 23 00-0308				Float Valves <small>(23 05 23)</small>		
23 05 23 00-0309				Float Valve Assembly For Maintaining Liquid Level In Tanks <small>(23 05 23 00-0308)</small>		
23 05 23 00-0310				Single Seat, Bronze Construction <small>(23 05 23 00-0309)</small>		
				Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
				23 05 23 00-0311 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	227.76	29.58
				23 05 23 00-0312 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	261.59	35.21
				23 05 23 00-0313 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	336.15	38.02
				23 05 23 00-0314 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve.....	555.02	47.89
				23 05 23 00-0315 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve.....	569.11	54.93
23 05 23 00-0316				Double Seat, Bronze Construction <small>(23 05 23 00-0309)</small>		
				Note: For hot or cold water or oil to open tanks.		
				23 05 23 00-0317 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	1,171.72	29.58
				23 05 23 00-0318 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	1,183.00	35.21
				23 05 23 00-0319 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	1,364.22	38.02
				23 05 23 00-0320 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	1,510.36	47.89
				23 05 23 00-0321 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	1,726.74	54.93
				23 05 23 00-0322 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	2,262.29	64.78
				23 05 23 00-0323 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve.....	2,635.30	86.88
				23 05 23 00-0324 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	3,168.25	99.85
23 05 23 00-0325				Float Valve Single Seated Balanced For Air Oil Or Water <small>(23 05 23 00-0308)</small>		
				Note: Includes arm, ball and bracket.		
23 05 23 00-0326				Brass Body Threaded Ends <small>(23 05 23 00-0325)</small>		
				23 05 23 00-0327 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	249.92	38.16
				23 05 23 00-0328 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	282.13	42.40
				23 05 23 00-0329 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	346.07	46.90
				23 05 23 00-0330 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	553.64	75.78
				23 05 23 00-0331 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	584.05	86.34
				23 05 23 00-0332 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	663.42	107.04
23 05 23 00-0333				Cast Iron Body Flanged <small>(23 05 23 00-0325)</small>		
				23 05 23 00-0334 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	7,345.60	188.03
				23 05 23 00-0335 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	8,880.15	220.45
23 05 23 00-0336				Float Operated Valves <small>(23 05 23 00-0308)</small>		
23 05 23 00-0337				For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0336)</small>		
				Note: Cast iron body, self-contained, float in-line mount.		
				23 05 23 00-0338 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	840.61	66.19
23 05 23 00-0339				For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0336)</small>		
				Note: Cast iron body, external float tank mount, flanged.		
				23 05 23 00-0340 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	1,073.84	123.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 23 00-0341	Needle Valves <small>(23 05 23)</small>		
23 05 23 00-0342	Bronze Needle Valve <small>(23 05 23 00-0341)</small>		
	Note: For heating and cooling applications.		
23 05 23 00-0343	EA 1/4" Needle Valve, Bronze.....	120.71	14.09
23 05 23 00-0344	EA 3/8" Needle Valve, Bronze.....	134.10	14.09
23 05 23 00-0345	EA 1/2" Needle Valve, Bronze.....	146.33	14.09
23 05 23 00-0346	EA 3/4" Needle Valve, Bronze.....	220.58	15.50
23 05 23 00-0347	EA 1" Needle Valve, Bronze.....	334.07	17.61
23 05 23 00-0348	Eccentric Valves With Taps <small>(23 05 23)</small>		
23 05 23 00-0349	Screwed Eccentric Valves With Taps <small>(23 05 23 00-0348)</small>		
23 05 23 00-0350	EA 1/2" Diameter Eccentric Valves With Taps, Screwed.....	229.00	14.09
23 05 23 00-0351	EA 3/4" Diameter Eccentric Valves With Taps, Screwed.....	247.61	15.50
23 05 23 00-0352	EA 1" Diameter Eccentric Valves With Taps, Screwed.....	311.35	17.61
23 05 23 00-0353	EA 1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	379.12	18.74
23 05 23 00-0354	EA 1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	416.16	21.69
23 05 23 00-0355	EA 2" Diameter Eccentric Valves With Taps, Screwed.....	489.51	25.63
23 05 23 00-0356	EA 2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	732.05	34.62
23 05 23 00-0357	EA 3" Diameter Eccentric Valves With Taps, Screwed.....	885.73	40.20
23 05 23 00-0358	Flanged Eccentric Valves With Taps <small>(23 05 23 00-0348)</small>		
23 05 23 00-0359	EA 2-1/2" Diameter Eccentric Valves With Taps, Flanged.....	899.41	188.03
23 05 23 00-0360	EA 3" Diameter Eccentric Valves With Taps, Flanged.....	1,066.62	220.45
23 05 23 00-0361	EA 4" Diameter Eccentric Valves With Taps, Flanged.....	1,465.65	369.57
23 05 23 00-0362	EA 5" Diameter Eccentric Valves With Taps, Flanged.....	1,878.17	373.50
23 05 23 00-0363	EA 6" Diameter Eccentric Valves With Taps, Flanged.....	2,356.22	415.01
23 05 23 00-0364	EA 8" Diameter Eccentric Valves With Taps, Flanged.....	3,976.94	530.29
23 05 23 00-0365	EA 10" Diameter Eccentric Valves With Taps, Flanged.....	5,537.15	645.57
23 05 23 00-0366	EA 12" Diameter Eccentric Valves With Taps, Flanged.....	9,379.53	783.89
23 05 23 00-0367	Check Valves <small>(23 05 23)</small>		
23 05 23 00-0368	Iron Body Wafer Type Check Valve <small>(23 05 23 00-0367)</small>		
23 05 23 00-0369	Single Disk Type <small>(23 05 23 00-0368)</small>		
23 05 23 00-0370	EA 2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	505.44	187.81
	For 150 LB Rating, Add	56.83	
	For 200 LB Rating, Add	67.66	
	For 300 LB Rating, Add	81.19	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	168.74	
23 05 23 00-0371	EA 2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	590.43	188.12
	For 150 LB Rating, Add	74.46	
	For 200 LB Rating, Add	88.64	
	For 300 LB Rating, Add	106.37	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	206.73	
23 05 23 00-0372	EA 3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	724.18	220.55
	For 150 LB Rating, Add	94.11	
	For 200 LB Rating, Add	112.04	
	For 300 LB Rating, Add	134.45	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	256.88	
23 05 23 00-0373	EA 4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,070.34	369.74
	For 150 LB Rating, Add	127.47	
	For 200 LB Rating, Add	151.75	
	For 300 LB Rating, Add	182.10	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	365.82	
23 05 23 00-0374	EA 6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,599.44	518.94
	For 150 LB Rating, Add	199.66	
	For 200 LB Rating, Add	237.70	
	For 300 LB Rating, Add	285.23	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	557.58	
23 05 23 00-0375	EA 8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	2,202.35	596.78
	For 150 LB Rating, Add	306.41	
	For 200 LB Rating, Add	364.77	
	For 300 LB Rating, Add	437.72	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	805.24	
23 05 23 00-0376	EA 10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	3,245.22	726.51
	For 150 LB Rating, Add	489.39	
	For 200 LB Rating, Add	582.61	
	For 300 LB Rating, Add	699.13	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,231.65	
23 05 23 00-0377	Twin Disc Type <small>(23 05 23 00-0368)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0378 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	603.84	187.81
<i>For 150 LB Rating, Add</i>	77.49	
<i>For 200 LB Rating, Add</i>	92.26	
<i>For 300 LB Rating, Add</i>	110.71	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	213.02	
23 05 23 00-0379 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	678.74	188.12
<i>For 150 LB Rating, Add</i>	93.00	
<i>For 200 LB Rating, Add</i>	110.72	
<i>For 300 LB Rating, Add</i>	132.86	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	246.47	
23 05 23 00-0380 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	792.74	220.55
<i>For 150 LB Rating, Add</i>	108.51	
<i>For 200 LB Rating, Add</i>	129.18	
<i>For 300 LB Rating, Add</i>	155.02	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	287.73	
23 05 23 00-0381 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,119.54	369.74
<i>For 150 LB Rating, Add</i>	137.80	
<i>For 200 LB Rating, Add</i>	164.05	
<i>For 300 LB Rating, Add</i>	196.86	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	387.96	
23 05 23 00-0382 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,706.81	518.94
<i>For 150 LB Rating, Add</i>	222.21	
<i>For 200 LB Rating, Add</i>	264.54	
<i>For 300 LB Rating, Add</i>	317.45	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	605.90	
23 05 23 00-0383 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,357.30	596.78
<i>For 150 LB Rating, Add</i>	339.35	
<i>For 200 LB Rating, Add</i>	403.99	
<i>For 300 LB Rating, Add</i>	484.79	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	875.45	
23 05 23 00-0384 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,467.70	713.53
<i>For 150 LB Rating, Add</i>	537.43	
<i>For 200 LB Rating, Add</i>	639.80	
<i>For 300 LB Rating, Add</i>	767.76	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,333.34	
23 05 23 00-0385 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	4,528.23	882.18
<i>For 150 LB Rating, Add</i>	720.05	
<i>For 200 LB Rating, Add</i>	857.20	
<i>For 300 LB Rating, Add</i>	1,028.64	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,762.84	
23 05 23 00-0386 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	8,301.78	997.11
<i>For 150 LB Rating, Add</i>	1,464.18	
<i>For 200 LB Rating, Add</i>	1,743.08	
<i>For 300 LB Rating, Add</i>	2,091.69	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	3,403.43	
23 05 23 00-0387 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	11,305.71	1,169.95
<i>For 150 LB Rating, Add</i>	2,067.09	
<i>For 200 LB Rating, Add</i>	2,460.82	
<i>For 300 LB Rating, Add</i>	2,952.98	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	4,721.96	
23 05 23 00-0388 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	14,989.57	1,302.89
<i>For 150 LB Rating, Add</i>	2,806.57	
<i>For 200 LB Rating, Add</i>	3,341.16	
<i>For 300 LB Rating, Add</i>	4,009.39	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	6,339.07	
23 05 23 00-0389 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	17,810.49	1,462.44
<i>For 150 LB Rating, Add</i>	3,356.31	
<i>For 200 LB Rating, Add</i>	3,995.61	
<i>For 300 LB Rating, Add</i>	4,794.74	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	7,557.71	
23 05 23 00-0390 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	23,250.30	1,794.81
<i>For 150 LB Rating, Add</i>	4,410.08	
<i>For 200 LB Rating, Add</i>	5,250.10	
<i>For 300 LB Rating, Add</i>	6,300.12	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	9,900.16	
23 05 23 00-0391 Lift Check Valves <small>(23 05 23 00-0367)</small>		
23 05 23 00-0392 Bronze Body, Threaded, Vertical Lift Check Valves <small>(23 05 23 00-0391)</small>		
Note: Watts #600 series.		
23 05 23 00-0393 EA 3/8" Lift Check Valve, Bronze, Threaded.....	124.41	14.09
23 05 23 00-0394 EA 1/2" Lift Check Valve, Bronze, Threaded.....	131.59	14.09
23 05 23 00-0395 EA 3/4" Lift Check Valve, Bronze, Threaded.....	168.53	14.79
23 05 23 00-0396 EA 1" Lift Check Valve, Bronze, Threaded.....	220.57	14.79
23 05 23 00-0397 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	303.80	18.74
23 05 23 00-0398 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	368.24	21.69
23 05 23 00-0399 EA 2" Lift Check Valve, Bronze, Threaded.....	518.81	25.63
23 05 23 00-0400 Bronze Body, Threaded, 300 LB, Lift Check Valves <small>(23 05 23 00-0391)</small>		
Note: Crane 366E.		
23 05 23 00-0401 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	720.22	14.09
23 05 23 00-0402 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	876.21	14.79
23 05 23 00-0403 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,563.92	14.79

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0404	EA		1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,083.20	18.74
23 05 23 00-0405	EA		1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,264.17	21.69
23 05 23 00-0406	EA		2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,906.03	25.63
23 05 23 00-0407			Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0391) Note: Mueller 105MAP.		
23 05 23 00-0408	EA		2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,090.13	187.75
23 05 23 00-0409	EA		2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,038.54	188.03
23 05 23 00-0410	EA		3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,141.47	220.45
23 05 23 00-0411	EA		4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,626.32	369.57
23 05 23 00-0412	EA		5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,962.48	373.50
23 05 23 00-0413	EA		6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,395.11	415.01
23 05 23 00-0414	EA		8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	4,089.61	530.29
23 05 23 00-0415	EA		10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	5,126.59	645.57
23 05 23 00-0416	EA		12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	8,164.80	783.89
23 05 23 00-0417	EA		14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	11,092.14	1,040.46
23 05 23 00-0418	EA		16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	12,287.09	1,144.51
23 05 23 00-0419			Bronze Body Swing Check Valves (23 05 23 00-0367)		
23 05 23 00-0420			Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0419)		
23 05 23 00-0421	EA		1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	88.09	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0422	EA		1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	83.66	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0423	EA		3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	85.82	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	12.95	
23 05 23 00-0424	EA		1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	89.76	14.09
			For 300 LB Rating, Add	17.28	
			For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0425	EA		3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	114.93	14.79
			For 300 LB Rating, Add	20.94	
			For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0426	EA		1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	147.05	14.79
			For 300 LB Rating, Add	28.44	
			For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0427	EA		1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	196.25	18.74
			For 300 LB Rating, Add	39.92	
			For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0428	EA		1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	251.67	21.69
			For 300 LB Rating, Add	55.90	
			For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0429	EA		2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	312.32	25.63
			For 300 LB Rating, Add	71.87	
			For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0430	EA		2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	596.52	34.62
			For 300 LB Rating, Add	165.21	
			For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0431	EA		3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	802.00	40.20
			For 300 LB Rating, Add	234.98	
			For Work In Restricted Working Space, Add	59.85	
23 05 23 00-0432	EA		4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	908.72	45.38
			For 300 LB Rating, Add	265.90	
			For Work In Restricted Working Space, Add	68.08	
23 05 23 00-0433			125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0367)		
23 05 23 00-0434	EA		1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	361.73	105.63
			For 150 LB Rating, Add	155.62	
			For 250 LB Rating, Add	297.52	
			For Work In Restricted Working Space, Add	39.86	
23 05 23 00-0435	EA		1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	405.23	123.23
			For 150 LB Rating, Add	171.46	
			For 250 LB Rating, Add	327.78	
			For Work In Restricted Working Space, Add	45.93	
23 05 23 00-0436	EA		1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	458.79	147.88
			For 150 LB Rating, Add	185.96	
			For 250 LB Rating, Add	355.51	
			For Work In Restricted Working Space, Add	55.60	
23 05 23 00-0437	EA		2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	574.39	187.75
			For 150 LB Rating, Add	230.96	
			For 250 LB Rating, Add	441.55	
			For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0438	EA		2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	632.16	188.03
			For 150 LB Rating, Add	269.55	
			For 250 LB Rating, Add	515.31	
			For Work In Restricted Working Space, Add	70.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0439 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	706.66	220.45
<i>For 150 LB Rating, Add</i>	292.92	
<i>For 250 LB Rating, Add</i>	559.99	
<i>For Work In Restricted Working Space, Add</i>	82.77	
23 05 23 00-0440 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,128.84	369.57
<i>For 150 LB Rating, Add</i>	452.68	
<i>For 250 LB Rating, Add</i>	865.42	
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0441 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,443.56	373.50
<i>For 150 LB Rating, Add</i>	664.63	
<i>For 250 LB Rating, Add</i>	1,270.61	
<i>For Work In Restricted Working Space, Add</i>	139.85	
23 05 23 00-0442 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,653.86	415.01
<i>For 150 LB Rating, Add</i>	770.60	
<i>For 250 LB Rating, Add</i>	1,473.21	
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0443 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	3,488.02	530.29
<i>For 150 LB Rating, Add</i>	1,923.91	
<i>For 250 LB Rating, Add</i>	3,678.06	
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0444 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	4,658.21	645.57
<i>For 150 LB Rating, Add</i>	2,618.86	
<i>For 250 LB Rating, Add</i>	5,006.64	
<i>For Work In Restricted Working Space, Add</i>	242.09	
23 05 23 00-0445 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	6,983.98	783.89
<i>For 150 LB Rating, Add</i>	4,083.98	
<i>For 250 LB Rating, Add</i>	7,807.61	
<i>For Work In Restricted Working Space, Add</i>	293.44	
23 05 23 00-0446 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	8,100.03	1,040.46
<i>For 150 LB Rating, Add</i>	4,623.63	
<i>For 250 LB Rating, Add</i>	8,839.29	
<i>For Work In Restricted Working Space, Add</i>	390.17	
23 05 23 00-0447 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	11,333.99	1,144.51
<i>For 150 LB Rating, Add</i>	6,734.28	
<i>For 250 LB Rating, Add</i>	12,874.36	
<i>For Work In Restricted Working Space, Add</i>	429.19	
23 05 23 00-0448 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	17,151.98	1,269.37
<i>For 150 LB Rating, Add</i>	10,584.39	
<i>For 250 LB Rating, Add</i>	20,234.86	
<i>For Work In Restricted Working Space, Add</i>	476.01	
23 05 23 00-0449 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	23,452.55	1,430.64
<i>For 150 LB Rating, Add</i>	14,731.70	
<i>For 250 LB Rating, Add</i>	28,163.54	
<i>For Work In Restricted Working Space, Add</i>	536.49	
23 05 23 00-0450 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	32,523.33	1,755.78
<i>For 150 LB Rating, Add</i>	20,623.45	
<i>For 250 LB Rating, Add</i>	39,427.18	
<i>For Work In Restricted Working Space, Add</i>	658.42	
23 05 23 00-0451 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston		
Check, Swing Check Valves <small>(23 05 23 00-0367)</small>		
<i>Note: 800 PSIG at 850 Degrees F.</i>		
23 05 23 00-0452 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve.....	193.13	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0453 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve.....	228.92	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0454 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve.....	271.06	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0455 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve.....	415.95	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0456 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve.....	492.96	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0457 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve.....	663.43	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0458 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End		
Connections <small>(23 05 23 00-0367)</small>		
23 05 23 00-0459 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	78.43	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0460 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	94.22	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0461 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	108.42	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0462 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	129.61	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0463 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	146.12	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0464 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	186.77	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0465 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	256.52	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0466 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB..... <i>For Work In Restricted Working Space, Add</i>	308.01 59.85	40.20
23 05 23 00-0467 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (23 05 23 00-0367) Note: Nibco®		
23 05 23 00-0468 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	150.14 9.51	14.09
23 05 23 00-0469 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	189.91 10.83	15.50
23 05 23 00-0470 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	260.60 12.94	17.61
23 05 23 00-0471 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	344.56 14.26	18.74
23 05 23 00-0472 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	409.96 15.85	21.69
23 05 23 00-0473 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	583.18 19.01	25.63
23 05 23 00-0474 Crimped Bronze, 250 PSI, In-Line, Check Valves (23 05 23 00-0367)		
23 05 23 00-0475 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	53.54	14.09
23 05 23 00-0476 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	64.06	15.50
23 05 23 00-0477 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve.....	75.36	17.61
23 05 23 00-0478 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	94.14	18.74
23 05 23 00-0479 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	118.98	21.69
23 05 23 00-0480 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	183.79	25.63
23 05 23 00-0481 Diaphragm Valves (23 05 23)		
23 05 23 00-0482 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0483 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	289.24	42.14
23 05 23 00-0484 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	368.52	46.68
23 05 23 00-0485 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	401.78	57.71
23 05 23 00-0486 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	636.27	86.24
23 05 23 00-0487 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,013.54	103.74
23 05 23 00-0488 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0489 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	258.55	67.60
23 05 23 00-0490 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	297.87	70.43
23 05 23 00-0491 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	359.10	105.63
23 05 23 00-0492 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	537.22	147.88
23 05 23 00-0493 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	830.83	187.75
23 05 23 00-0494 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,035.66	188.03
23 05 23 00-0495 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,279.55	220.45
23 05 23 00-0496 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,840.91	369.57
23 05 23 00-0497 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	3,607.34	415.01
23 05 23 00-0498 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	5,553.53	530.29
23 05 23 00-0499 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0500 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	182.52	42.14
23 05 23 00-0501 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	236.50	46.68
23 05 23 00-0502 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	269.76	57.71
23 05 23 00-0503 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	456.50	86.24
23 05 23 00-0504 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	595.03	103.74



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0505				Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0481)</small>		
23 05 23 00-0506	EA			1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	183.26	67.60
23 05 23 00-0507	EA			3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	213.50	70.43
23 05 23 00-0508	EA			1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	274.72	105.63
23 05 23 00-0509	EA			1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	422.32	147.88
23 05 23 00-0510	EA			2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	563.30	187.75
23 05 23 00-0511	EA			2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	664.14	188.03
23 05 23 00-0512	EA			3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	803.76	220.45
23 05 23 00-0513	EA			4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	1,280.06	369.57
23 05 23 00-0514	EA			6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	2,350.85	415.01
23 05 23 00-0515	EA			8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	3,560.61	530.29
23 05 23 00-0516				125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0481)</small>		
23 05 23 00-0517	EA			1" Diaphragm Valve, Cast Iron, 125 LB, Flanged	333.68	105.63
23 05 23 00-0518	EA			1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	527.88	147.88
23 05 23 00-0519	EA			2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	704.28	187.75
23 05 23 00-0520	EA			2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	968.12	188.03
23 05 23 00-0521	EA			3" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,076.17	220.45
23 05 23 00-0522	EA			4" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,700.45	369.57
23 05 23 00-0523	EA			6" Diaphragm Valve, Cast Iron, 125 LB, Flanged	3,207.87	415.01
23 05 23 00-0524	EA			8" Diaphragm Valve, Cast Iron, 125 LB, Flanged	6,511.60	530.29
23 05 23 00-0525				Solenoid Valves <small>(23 05 23)</small>		
23 05 23 00-0526				Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure <small>(23 05 23 00-0525)</small>		
23 05 23 00-0527	EA			1/4" Solenoid Valve, Bronze, 150 PSI, Water	122.69	14.09
23 05 23 00-0528	EA			1/2" Solenoid Valve, Bronze, 150 PSI, Water	141.75	14.09
23 05 23 00-0529	EA			3/4" Solenoid Valve, Bronze, 150 PSI, Water	182.35	15.50
23 05 23 00-0530	EA			1" Solenoid Valve, Bronze, 150 PSI, Water	263.84	17.61
23 05 23 00-0531	EA			1-1/2" Solenoid Valve, Bronze, 150 PSI, Water	458.57	21.69
23 05 23 00-0532	EA			2" Solenoid Valve, Bronze, 150 PSI, Water	705.47	25.63
23 05 23 00-0533	EA			2-1/2" Solenoid Valve, Bronze, 150 PSI, Water	960.42	34.62
23 05 23 00-0534	EA			3" Solenoid Valve, Bronze, 150 PSI, Water	1,377.73	40.20
23 05 23 00-0535				Flow Control Valves And Meters <small>(23 05 23)</small>		
23 05 23 00-0536				Conditioned Water Balancing Valves <small>(23 05 23 00-0535)</small>		
				Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.		
23 05 23 00-0537	EA			1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	168.31	71.86
23 05 23 00-0538	EA			3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	205.44	95.80
23 05 23 00-0539	EA			1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	351.65	109.47
23 05 23 00-0540	EA			1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	459.09	135.26
23 05 23 00-0541	EA			1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	530.13	143.71
23 05 23 00-0542	EA			2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	712.06	164.28
23 05 23 00-0543	EA			2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,348.01	285.93
23 05 23 00-0544	EA			3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,879.43	326.80
23 05 23 00-0545	EA			3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,582.05	220.55
23 05 23 00-0546	EA			4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,988.58	369.74
23 05 23 00-0547	EA			6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,336.10	467.04
23 05 23 00-0548	EA			8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	3,892.22	596.78
23 05 23 00-0549	EA			10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	6,465.53	726.51
23 05 23 00-0550				Read Out Meters <small>(23 05 23 00-0535)</small>		
				Note: For use with conditioned portable water balancing valves.		
23 05 23 00-0551	EA			0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,073.05	
23 05 23 00-0552	EA			0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0553	EA			0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0554	EA			0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0555				Balancing Valves <small>(23 05 23)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0556			Balancing Valves With Lever (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0557	EA		1/2" Threaded Balancing Valve With Lever.....	237.80	44.38
23 05 23 00-0558	EA		3/4" Threaded Balancing Valve With Lever.....	271.00	58.47
23 05 23 00-0559	EA		1" Threaded Balancing Valve With Lever.....	574.93	66.92
23 05 23 00-0560	EA		1-1/4" Threaded Balancing Valve With Lever.....	634.64	83.12
23 05 23 00-0561	EA		1-1/2" Threaded Balancing Valve With Lever.....	676.06	88.05
23 05 23 00-0562	EA		2" Threaded Balancing Valve With Lever.....	891.34	100.74
23 05 23 00-0563	EA		2-1/2" Flanged Balancing Valve With Lever.....	1,182.25	188.12
23 05 23 00-0564	EA		3" Flanged Balancing Valve With Lever.....	1,166.07	220.55
23 05 23 00-0565	EA		4" Flanged Balancing Valve With Lever.....	1,482.95	369.74
23 05 23 00-0566	EA		5" Flanged Balancing Valve With Lever.....	2,132.89	420.34
23 05 23 00-0567	EA		6" Flanged Balancing Valve With Lever.....	2,212.49	467.04
23 05 23 00-0568	EA		8" Flanged Balancing Valve With Lever.....	2,948.14	596.78
23 05 23 00-0569			Balancing Valves With Nut (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0570	EA		4" Flanged Balancing Valve With Nut.....	1,428.03	369.74
23 05 23 00-0571	EA		5" Flanged Balancing Valve With Nut.....	2,092.05	420.34
23 05 23 00-0572	EA		6" Flanged Balancing Valve With Nut.....	2,153.34	467.04
23 05 23 00-0573	EA		8" Flanged Balancing Valve With Nut.....	2,877.72	596.78
23 05 23 00-0574			Balancing Valves With Hand Wheel (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0575	EA		4" Flanged Balancing Valve With Hand Wheel.....	1,957.55	369.74
23 05 23 00-0576	EA		5" Flanged Balancing Valve With Hand Wheel.....	2,652.55	420.34
23 05 23 00-0577	EA		6" Flanged Balancing Valve With Hand Wheel.....	2,713.84	467.04
23 05 23 00-0578	EA		8" Flanged Balancing Valve With Hand Wheel.....	3,874.80	596.78
23 05 23 00-0579	EA		10" Flanged Balancing Valve With Hand Wheel.....	5,916.04	726.51
23 05 23 00-0580	EA		12" Flanged Balancing Valve With Hand Wheel.....	7,714.69	564.10
23 05 23 00-0581	EA		14" Flanged Balancing Valve With Hand Wheel.....	10,008.83	1,063.59
23 05 23 00-0582			Balancing Valves With Chain Wheel (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0583	EA		4" Flanged Balancing Valve With Chain Wheel.....	2,256.11	369.74
23 05 23 00-0584	EA		5" Flanged Balancing Valve With Chain Wheel.....	2,949.70	420.34
23 05 23 00-0585	EA		6" Flanged Balancing Valve With Chain Wheel.....	3,010.99	467.04
23 05 23 00-0586	EA		8" Flanged Balancing Valve With Chain Wheel.....	4,232.51	596.78
23 05 23 00-0587	EA		10" Flanged Balancing Valve With Chain Wheel.....	6,266.71	726.51
23 05 23 00-0588	EA		12" Flanged Balancing Valve With Chain Wheel.....	8,367.08	563.70
23 05 23 00-0589	EA		14" Flanged Balancing Valve With Chain Wheel.....	10,573.56	1,063.59
23 05 23 00-0590			Calibrated Balancing Valves (23 05 23 00-0555) Note: Bell & Gossett CB Series.		
23 05 23 00-0591	EA		1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S).....	110.88	14.09
23 05 23 00-0592	EA		3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S).....	133.22	15.50
23 05 23 00-0593	EA		1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S).....	162.48	17.61
23 05 23 00-0594	EA		1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S).....	216.61	18.74
23 05 23 00-0595	EA		1" Threaded Calibrated Balancing Valve (CB-1).....	171.47	17.61
23 05 23 00-0596	EA		1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4).....	232.15	18.74
23 05 23 00-0597	EA		1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2).....	269.50	21.70
23 05 23 00-0598	EA		2" Threaded Calibrated Balancing Valve (CB-2).....	357.08	25.64
23 05 23 00-0599	EA		2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2).....	645.80	37.61
23 05 23 00-0600	EA		3" Threaded Calibrated Balancing Valve (CB-3).....	891.41	43.68
23 05 23 00-0601	EA		2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F).....	861.37	204.29
23 05 23 00-0602	EA		3" Flanged Calibrated Balancing Valve (CB-3F).....	1,219.84	239.52
23 05 23 00-0603	EA		4" Flanged Calibrated Balancing Valve (CB-4F).....	1,922.15	401.53
23 05 23 00-0604	EA		5" Flanged Calibrated Balancing Valve (CB-5F).....	2,708.39	456.48
23 05 23 00-0605	EA		6" Flanged Calibrated Balancing Valve (CB-6F).....	3,519.19	507.20
23 05 23 00-0606	EA		8" Flanged Calibrated Balancing Valve (CB-8F).....	6,223.32	648.09
23 05 23 00-0607	EA		10" Flanged Calibrated Balancing Valve (CB-10F).....	8,592.22	744.51
23 05 23 00-0608	EA		12" Flanged Calibrated Balancing Valve (CB-12F).....	17,704.94	904.05
23 05 23 00-0609	EA		4" Grooved Calibrated Balancing Valve (CB-4G).....	2,077.00	48.50
23 05 23 00-0610	EA		5" Grooved Calibrated Balancing Valve (CB-5G).....	2,393.94	58.79
23 05 23 00-0611	EA		6" Grooved Calibrated Balancing Valve (CB-6G).....	3,179.90	75.39
23 05 23 00-0612	EA		8" Grooved Calibrated Balancing Valve (CB-8G).....	5,925.13	95.68
23 05 23 00-0613	EA		10" Grooved Calibrated Balancing Valve (CB-10G).....	7,952.76	107.21
23 05 23 00-0614	EA		12" Grooved Calibrated Balancing Valve (CB-12G).....	16,321.02	130.72
23 05 23 00-0615			Butterfly Valves (23 05 23)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0616 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
Note: With on-off handle		
23 05 23 00-0617 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	366.83	187.75
For 200 PSI, Add	63.40	
For 175 PSI, Add	23.12	
For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0618 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	375.54	188.03
For 200 PSI, Add	67.09	
For 175 PSI, Add	24.46	
For Work In Restricted Working Space, Add	70.73	
23 05 23 00-0619 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	426.42	220.45
For 200 PSI, Add	72.25	
For 175 PSI, Add	26.34	
For Work In Restricted Working Space, Add	82.77	
23 05 23 00-0620 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	652.05	369.57
For 200 PSI, Add	90.68	
For 175 PSI, Add	33.06	
For Work In Restricted Working Space, Add	138.94	
23 05 23 00-0621 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	789.40	415.01
For 200 PSI, Add	129.01	
For 175 PSI, Add	47.04	
For Work In Restricted Working Space, Add	156.19	
23 05 23 00-0622 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	905.07	461.12
For 200 PSI, Add	157.77	
For 175 PSI, Add	57.52	
For Work In Restricted Working Space, Add	172.92	
23 05 23 00-0623 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,153.30	530.29
For 200 PSI, Add	237.39	
For 175 PSI, Add	86.55	
For Work In Restricted Working Space, Add	197.62	
23 05 23 00-0624 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,765.35	645.57
For 200 PSI, Add	460.03	
For 175 PSI, Add	167.72	
For Work In Restricted Working Space, Add	242.09	
23 05 23 00-0625 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,199.17	783.89
For 200 PSI, Add	586.10	
For 175 PSI, Add	213.68	
For Work In Restricted Working Space, Add	293.44	
23 05 23 00-0626 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
23 05 23 00-0627 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	597.21	187.75
For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0628 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	601.32	188.03
For Work In Restricted Working Space, Add	70.73	
23 05 23 00-0629 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	659.88	220.45
For Work In Restricted Working Space, Add	82.77	
23 05 23 00-0630 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	896.25	369.57
For Work In Restricted Working Space, Add	138.94	
23 05 23 00-0631 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,059.72	415.01
For Work In Restricted Working Space, Add	156.19	
23 05 23 00-0632 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,173.77	461.12
For Work In Restricted Working Space, Add	172.92	
23 05 23 00-0633 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,432.84	530.29
For Work In Restricted Working Space, Add	197.62	
23 05 23 00-0634 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,806.82	645.57
For Work In Restricted Working Space, Add	242.09	
23 05 23 00-0635 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,431.10	783.89
For Work In Restricted Working Space, Add	293.44	
23 05 23 00-0636 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
23 05 23 00-0637 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	3,894.29	975.43
For 200 PSI, Add	933.74	
For 175 PSI, Add	324.21	
For Work In Restricted Working Space, Add	390.17	
23 05 23 00-0638 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,915.26	1,144.51
For 200 PSI, Add	1,254.46	
For 175 PSI, Add	435.58	
For Work In Restricted Working Space, Add	429.19	
23 05 23 00-0639 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	6,766.87	1,274.56
For 200 PSI, Add	1,863.82	
For 175 PSI, Add	647.16	
For Work In Restricted Working Space, Add	476.88	
23 05 23 00-0640 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	8,635.86	1,430.64
For 200 PSI, Add	2,465.13	
For 175 PSI, Add	855.95	
For Work In Restricted Working Space, Add	536.49	
23 05 23 00-0641 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	11,550.80	1,755.78
For 200 PSI, Add	3,365.94	
For 175 PSI, Add	1,168.73	
For Work In Restricted Working Space, Add	660.29	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0642 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	23,646.16	2,809.73
For 200 PSI, Add	7,225.25	
For 175 PSI, Add	2,508.77	
For Work In Restricted Working Space, Add	1,072.81	
23 05 23 00-0643 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	29,970.47	3,831.45
For 200 PSI, Add	9,180.16	
For 175 PSI, Add	3,187.56	
For Work In Restricted Working Space, Add	1,341.01	
23 05 23 00-0644 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	36,639.21	5,619.46
For 200 PSI, Add	10,714.41	
For 175 PSI, Add	3,720.28	
For Work In Restricted Working Space, Add	2,063.09	
23 05 23 00-0645 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	44,641.82	7,024.32
For 200 PSI, Add	12,852.64	
For 175 PSI, Add	4,462.72	
For Work In Restricted Working Space, Add	2,682.02	
23 05 23 00-0646 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	53,988.38	8,429.19
For 200 PSI, Add	15,412.80	
For 175 PSI, Add	5,351.67	
For Work In Restricted Working Space, Add	3,352.52	
23 05 23 00-0647 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB ^(23 05 23 00-0615)		
Note: (Milwaukee Valve Company BB-SC 100)		
23 05 23 00-0648 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	509.10	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0649 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	556.37	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0650 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	696.52	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0651 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	872.34	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0652 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	1,170.82	34.62
For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0653 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB ^(23 05 23 00-0615)		
Note: (Milwaukee Valve Company BB-S02)		
23 05 23 00-0654 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	762.33	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0655 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	825.88	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0656 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	987.56	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0657 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,182.33	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0658 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,513.62	34.62
For Work In Restricted Working Space, Add	51.87	
23 05 29 Hangers and Supports for HVAC Piping and Equipment ^(23 05)		
23 05 29 00-0001 Hangers And Supports ^(23 05 29)		
23 05 29 00-0002 Clevis Hangers ^(23 05 29 00-0001)		
23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) ^(23 05 29 00-0002)		
Note: Type 1.		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100)	25.69	11.67
For Work In Restricted Working Space, Add	7.00	
23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100)	28.29	12.97
For Work In Restricted Working Space, Add	7.78	
23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100)	29.73	12.97
For Work In Restricted Working Space, Add	8.19	
23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	30.85	14.03
For Work In Restricted Working Space, Add	8.42	
23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	31.15	14.03
For Work In Restricted Working Space, Add	8.42	
23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100)	32.52	14.27
For Work In Restricted Working Space, Add	8.64	
23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	35.67	14.78
For Work In Restricted Working Space, Add	8.90	
23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100)	38.07	15.56
For Work In Restricted Working Space, Add	9.15	
23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	39.80	17.09
For Work In Restricted Working Space, Add	9.77	
23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100)	43.68	18.16
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100)	56.04	21.72
For Work In Restricted Working Space, Add	13.03	
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100)	67.42	25.94
For Work In Restricted Working Space, Add	15.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	90.61 19.45	32.42
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	132.37 25.94	44.09
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	155.11 29.18	48.63
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	193.00 33.46	54.47
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	240.28 38.90	64.84
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	299.49 48.63	81.05
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	483.20 58.35	97.26
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	736.88 68.08	113.46
23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	31.91 7.00	11.67
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	34.51 7.78	12.97
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	36.10 8.19	12.97
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	37.34 8.42	14.03
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	38.14 8.42	14.03
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	39.11 8.64	14.27
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	43.71 8.90	14.78
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	45.85 9.15	15.56
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	51.42 10.37	18.16
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	56.67 10.37	18.16
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	92.67 13.03	21.72
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	114.80 15.56	25.94
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	136.78 19.45	32.42
23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	25.46 7.00	11.67
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	28.11 7.78	12.97
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	29.69 8.19	12.97
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.49 8.42	14.03
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.67 8.42	14.03
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	31.55 8.64	14.27
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	34.39 8.90	14.78
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	35.90 9.15	15.56
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	40.46 10.37	18.16
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	41.70 10.37	18.16
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	35.89 7.78	12.97
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	37.33 8.19	12.97
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	38.09 8.42	14.03
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	39.33 8.42	14.03
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	42.16 8.64	14.27
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	45.17 8.90	14.78

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	47.39 9.15	15.56
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	56.85 10.37	18.16
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	71.72 13.03	21.72
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	88.46 15.56	25.94
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	125.11 19.45	32.42
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	175.58 25.94	44.09
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	197.22 29.18	48.63
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	43.62 8.64	14.27
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	46.54 8.90	14.78
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	48.94 9.15	15.56
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	54.20 10.37	18.16
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	57.29 10.37	18.16
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	71.15 13.03	21.72
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	83.07 15.56	25.94
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	110.18 19.45	32.42
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072) Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	23.47 6.14	10.24
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	25.72 6.82	11.36
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	28.22 7.57	12.63
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	31.13 8.41	14.02
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	32.72 8.84	14.72
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	35.05 9.26	15.43
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	40.30 9.68	16.13
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	42.09 10.10	16.83
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	50.15 11.36	18.93
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072) Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	27.31 7.78 9.04 11.65	12.97
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	28.80 8.19 9.90 12.75	12.97
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	30.31 8.64 9.90 12.75	14.27
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	32.19 9.15 11.09 14.28	15.56
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	36.26 10.37 11.09 14.28	18.16
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	38.82 11.12 11.68 15.05	18.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	42.78 11.97 19.01 24.48	19.45
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	46.22 12.97 19.80 25.50	22.04
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	51.35 14.20 26.53 34.17	23.66
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	55.89 15.56 26.53 34.17	25.94
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.71 17.51 55.18 71.06	29.18
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	73.32 19.45 55.97 72.08	32.42
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	87.89 23.34 66.53 85.68	38.90
23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	29.08 7.78 20.72 26.69	12.97
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	30.44 8.19 20.72 26.69	12.97
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	31.95 8.64 20.72 26.69	14.27
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	33.65 9.15 20.72 26.69	15.56
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	37.98 10.37 22.44 28.90	18.16
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	40.45 11.12 22.44 28.90	18.16
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	48.82 11.97 58.87 75.82	19.45
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	54.27 12.97 72.93 93.93	22.04
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	59.26 14.20 78.74 101.41	23.66
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.39 15.56 95.83 123.42	25.94
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	73.07 17.51 97.15 125.12	29.18
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	86.15 19.45 140.65 181.14	32.42

23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)

23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)
Note: Excludes rod and nuts. Type 41.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	40.24 6.23	10.38
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	44.30 7.01	11.68
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	49.34 8.18	13.62
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	56.76 9.34	15.57
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	78.20 10.51	17.51
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	70.03 11.68	19.46
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	87.09 14.01	23.35
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	117.15 16.35	27.25
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	138.89 19.46	32.43
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110) Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	60.10 10.57 164.21 211.48	18.32
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	62.63 11.33 164.21 211.48	18.88
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	68.00 12.08 183.15 235.88	19.73
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	79.21 12.68 243.80 313.99	21.14
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	83.90 14.09 243.80 313.99	23.95
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	94.70 15.47 284.66 366.61	25.78
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	109.92 16.91 353.50 455.26	28.18
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	150.61 21.14 529.06 681.36	35.22
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	189.43 28.18 630.30 811.75	47.91
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	246.06 31.70 926.57 1,193.32	52.83
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	510.20 36.35 2,567.66 3,306.84	60.58
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	640.28 42.27 3,295.97 4,244.82	70.45
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	58.46 10.57	18.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	62.99 11.33	18.88
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	66.06 12.08	19.73
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	75.15 12.68	21.14
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	83.73 14.09	23.95
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	91.52 15.47	25.78
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	112.00 16.91	28.18
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	145.66 21.14	35.22
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	188.28 28.18	47.91
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	243.06 31.70	52.83
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	265.26 36.35	60.58
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	319.77 42.27	70.45
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	430.82 52.83	88.05
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	533.00 63.40	105.67
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	66.11 10.57	18.32
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	74.30 11.33	18.88
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	78.12 12.08	19.73
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	82.53 12.68	21.14
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	99.19 14.09	23.95
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	112.46 15.47	25.78
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	130.91 16.91	28.18
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	184.59 21.14	35.22
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	230.26 28.18	47.91
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	266.30 31.70	52.83
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	376.53 36.35	60.58
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	451.36 42.27	70.45
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	512.70 52.83	88.05
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	66.55 10.57	18.32
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	74.69 11.33	18.88
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	78.78 12.08	19.73
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	81.95 12.68	21.14
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	103.66 14.09	23.95
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	117.72 15.47	25.78
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	137.19 16.91	28.18
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	194.32 21.14	35.22
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	241.92 28.18	47.91
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	279.95 31.70	52.83
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	398.36 36.35	60.58
23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)		
<i>Note: Includes bolts and weldless eye nuts.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175) Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.62 5.05	8.41
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.90 5.13	8.55
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.22 5.22	8.69
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.27 5.30	8.83
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.54 5.38	8.97
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	27.16 5.47	9.11
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	28.25 5.64	9.39
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	29.91 5.81	9.67
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	34.57 5.89	9.82
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	40.18 7.57	12.63
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	57.51 10.10	16.83
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	78.66 12.62	21.04
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	92.56 14.72	24.54
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	134.48 16.83	28.04
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	182.96 18.51	30.85
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	294.88 20.19	33.65
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	319.63 21.88	36.46
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	518.04 23.56	39.26
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	598.85 25.24	42.07
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	779.97 27.77	46.28
23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	45.81 5.40	9.07
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	60.08 5.40	9.07
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	65.94 5.64	9.40
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	105.12 5.87	9.73
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	114.36 6.22	10.37
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	195.58 6.20	10.37
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	316.34 7.00	11.67
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	401.28 7.78	12.97
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	436.38 9.34	15.56
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,355.85 10.89	18.16
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,558.44 11.67	19.45
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,996.04 12.45	20.74
23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) (23 05 29 00-0175) Note: Type 8.		
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	22.81 4.67	7.78
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	23.74 4.75	7.91
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	24.08 4.82	8.04
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	26.02 4.90	8.17
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	27.04 4.98	8.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373).....	27.69	8.43
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	28.86	8.69
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373).....	30.59	8.94
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	33.59	9.07
<i>For Work In Restricted Working Space, Add</i>	5.45	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373).....	40.80	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373).....	52.77	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373).....	66.92	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373).....	91.25	22.70
<i>For Work In Restricted Working Space, Add</i>	13.61	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373).....	119.74	25.94
<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373).....	144.72	28.53
<i>For Work In Restricted Working Space, Add</i>	17.12	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373).....	194.15	31.12
<i>For Work In Restricted Working Space, Add</i>	18.67	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373).....	368.55	33.71
<i>For Work In Restricted Working Space, Add</i>	20.23	
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.04	7.78
<i>For Work In Restricted Working Space, Add</i>	4.67	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.66	7.91
<i>For Work In Restricted Working Space, Add</i>	4.75	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	42.33	8.04
<i>For Work In Restricted Working Space, Add</i>	4.82	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	45.24	8.17
<i>For Work In Restricted Working Space, Add</i>	4.90	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	51.07	8.30
<i>For Work In Restricted Working Space, Add</i>	4.98	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	54.24	8.43
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	58.69	8.69
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	64.48	8.94
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	87.29	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	89.87	9.07
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	95.40	9.73
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	104.74	10.37
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	111.80	10.37
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	135.23	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	419.39	12.97
<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	561.79	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	669.41	18.16
<i>For Work In Restricted Working Space, Add</i>	10.89	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	974.98	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	1,343.64	20.74
<i>For Work In Restricted Working Space, Add</i>	12.45	
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	82.97	9.07
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	89.48	9.73
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	156.20	10.37
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	173.66	10.37
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	249.30	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	382.15	12.97
<i>For Work In Restricted Working Space, Add</i>	7.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	512.57	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	610.06	18.16
<i>For Work In Restricted Working Space, Add</i>	10.89	
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	891.62	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	1,220.25	20.74
<i>For Work In Restricted Working Space, Add</i>	12.45	
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260)		
Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171)	37.76	11.92
<i>For Work In Restricted Working Space, Add</i>	7.15	
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171)	40.00	12.63
<i>For Work In Restricted Working Space, Add</i>	7.57	
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171)	43.51	14.02
<i>For Work In Restricted Working Space, Add</i>	8.41	
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)	46.86	14.72
<i>For Work In Restricted Working Space, Add</i>	8.84	
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171)	50.61	15.43
<i>For Work In Restricted Working Space, Add</i>	9.26	
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)	62.36	16.13
<i>For Work In Restricted Working Space, Add</i>	9.68	
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171)	68.38	16.83
<i>For Work In Restricted Working Space, Add</i>	10.10	
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171)	90.86	18.93
<i>For Work In Restricted Working Space, Add</i>	11.36	
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171)	115.51	23.84
<i>For Work In Restricted Working Space, Add</i>	14.30	
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171)	154.28	28.04
<i>For Work In Restricted Working Space, Add</i>	16.83	
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260)		
Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	24.63	9.86
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	25.97	9.86
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	28.60	12.67
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	31.07	12.67
<i>For Work In Restricted Working Space, Add</i>	7.41	
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	34.66	12.67
<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	40.50	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	53.96	14.09
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	59.96	15.50
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	63.85	16.91
<i>For Work In Restricted Working Space, Add</i>	10.06	
23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260)		
Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	24.63	9.86
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	25.97	10.56
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	28.60	11.97
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	31.07	12.67
<i>For Work In Restricted Working Space, Add</i>	7.41	
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	34.66	12.67
<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	40.50	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	53.96	14.79
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	59.96	15.50
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)		
23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) (23 05 29 00-0291)		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	16.76	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	17.49 4.45	8.45
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	18.32 4.70	8.45
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	19.36 4.97	8.45
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	20.49 5.28	9.86
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	23.52 5.63	9.86
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	28.69 6.04	9.86
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	36.67 6.50	9.86
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	43.41 7.61	12.67
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	53.06 8.45	14.09
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	66.04 9.29	15.50
23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	7.47 2.11	
23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	7.90 2.22	
23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	8.62 2.32	
23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.38 2.43	
23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.97 2.54	
23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	10.81 2.75	
23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	3.53 0.70	
23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.19 0.75	
23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.51 0.81	
23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	4.85 0.88	
23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.21 0.96	
23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.81 1.06	
23 05 29 00-0318 Pipe and Equipment Support Brackets (23 05 29 00-0001)		
23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) (23 05 29 00-0318) Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.57 23.89 9.34	15.56
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.76 24.33 9.34	15.56
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.40 26.06 9.34	15.56
23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0318) Note: Up to 1500# load.		
23 05 29 00-0324 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	361.64 66.10 9.34	15.56
23 05 29 00-0325 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	423.78 78.53 9.34	15.56
23 05 29 00-0326 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	550.48 103.87 9.34	15.56
23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0328			Pipe Alignment Guide, 1" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0329	EA		1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2).....	651.31	24.64
23 05 29 00-0330	EA		3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4).....	652.60	25.28
23 05 29 00-0331	EA		1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1).....	653.90	25.94
23 05 29 00-0332	EA		1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4).....	655.20	26.58
23 05 29 00-0333	EA		1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....	715.14	27.23
23 05 29 00-0334	EA		2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....	729.44	29.83
23 05 29 00-0335	EA		2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....	731.38	30.80
23 05 29 00-0336	EA		3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....	733.33	31.77
23 05 29 00-0337	EA		4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....	776.13	33.71
23 05 29 00-0338	EA		5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....	904.71	42.80
23 05 29 00-0339	EA		6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....	922.86	51.87
23 05 29 00-0340	EA		8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....	1,039.43	64.84
23 05 29 00-0341	EA		10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....	1,926.52	77.81
23 05 29 00-0342	EA		12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....	2,933.62	103.74
23 05 29 00-0343	EA		14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....	3,609.77	129.67
23 05 29 00-0344	EA		16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....	4,344.56	145.23
23 05 29 00-0345	EA		18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....	4,685.38	162.10
23 05 29 00-0346	EA		20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....	4,978.01	185.44
23 05 29 00-0347	EA		24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....	6,276.43	194.51
23 05 29 00-0348			Pipe Alignment Guide, 1-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0349	EA		1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....	652.60	25.28
23 05 29 00-0350	EA		3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....	712.54	25.94
23 05 29 00-0351	EA		1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....	713.84	26.58
23 05 29 00-0352	EA		1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....	715.14	27.23
23 05 29 00-0353	EA		1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....	716.43	27.88
23 05 29 00-0354	EA		2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....	730.74	30.47
23 05 29 00-0355	EA		2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....	732.68	31.45
23 05 29 00-0356	EA		3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....	773.53	32.42
23 05 29 00-0357	EA		4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....	777.41	34.37
23 05 29 00-0358	EA		5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....	906.65	43.76
23 05 29 00-0359	EA		6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....	925.45	53.17
23 05 29 00-0360	EA		8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....	1,042.68	66.46
23 05 29 00-0361	EA		10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....	1,930.41	79.75
23 05 29 00-0362	EA		12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....	2,938.81	106.33
23 05 29 00-0363	EA		14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....	3,616.25	132.92
23 05 29 00-0364	EA		16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....	4,352.35	149.13
23 05 29 00-0365	EA		18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....	4,693.16	165.99
23 05 29 00-0366	EA		20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....	4,987.09	189.97
23 05 29 00-0367	EA		24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....	6,286.16	199.38
23 05 29 00-0368			Pipe Alignment Guide, 2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0369	EA		1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....	712.54	25.94
23 05 29 00-0370	EA		3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....	722.96	26.58
23 05 29 00-0371	EA		1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....	724.26	27.23
23 05 29 00-0372	EA		1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....	725.55	27.88
23 05 29 00-0373	EA		1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....	726.84	28.53
23 05 29 00-0374	EA		2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2).....	770.93	31.12
23 05 29 00-0375	EA		2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2).....	773.53	32.42
23 05 29 00-0376	EA		3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3).....	775.15	33.23
23 05 29 00-0377	EA		4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4).....	889.14	35.01
23 05 29 00-0378	EA		5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5).....	908.60	44.74
23 05 29 00-0379	EA		6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6).....	1,018.69	54.47
23 05 29 00-0380	EA		8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8).....	1,146.30	68.08
23 05 29 00-0381	EA		10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....	1,934.30	81.69
23 05 29 00-0382	EA		12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....	2,943.99	108.93
23 05 29 00-0383	EA		14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....	3,622.74	136.16
23 05 29 00-0384	EA		16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....	4,359.83	152.87
23 05 29 00-0385	EA		18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....	4,701.59	170.19
23 05 29 00-0386	EA		20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....	4,996.16	194.51
23 05 29 00-0387	EA		24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....	6,295.89	204.24
23 05 29 00-0388			Pipe Alignment Guide, 2-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0389	EA		1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....	722.96	26.58
23 05 29 00-0390	EA		3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	763.16	27.23
23 05 29 00-0391	EA		1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	764.45	27.88
23 05 29 00-0392	EA		1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	765.74	28.53
23 05 29 00-0393	EA		1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	767.04	29.18
23 05 29 00-0394	EA		2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	772.23	31.77
23 05 29 00-0395	EA		2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	775.15	33.23
23 05 29 00-0396	EA		3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	887.20	34.03
23 05 29 00-0397	EA		4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	890.44	35.66
23 05 29 00-0398	EA		5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	1,000.54	45.38
23 05 29 00-0399	EA		6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	1,021.28	55.76
23 05 29 00-0400	EA		8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	1,910.31	69.70
23 05 29 00-0401	EA		10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	2,893.42	83.64



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0402	EA			12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....	3,573.46	111.52
23 05 29 00-0403	EA			14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....	3,629.84	139.40
23 05 29 00-0404	EA			16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....	4,367.91	156.90
23 05 29 00-0405	EA			18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....	4,710.02	174.41
23 05 29 00-0406	EA			20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....	5,005.89	199.38
23 05 29 00-0407	EA			24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....	6,306.26	209.43
23 05 29 00-0408 Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)						
23 05 29 00-0409	EA			1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2).....	763.16	27.23
23 05 29 00-0410	EA			3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4).....	764.45	27.88
23 05 29 00-0411	EA			1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1).....	765.74	28.53
23 05 29 00-0412	EA			1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4).....	767.04	29.18
23 05 29 00-0413	EA			1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2).....	768.34	29.83
23 05 29 00-0414	EA			2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2).....	883.96	32.42
23 05 29 00-0415	EA			2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2).....	887.20	34.03
23 05 29 00-0416	EA			3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3).....	889.14	35.01
23 05 29 00-0417	EA			4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4).....	982.90	36.57
23 05 29 00-0418	EA			5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5).....	1,003.12	46.68
23 05 29 00-0419	EA			6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6).....	1,124.26	57.05
23 05 29 00-0420	EA			8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8).....	1,913.55	71.32
23 05 29 00-0421	EA			10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10).....	2,897.31	85.59
23 05 29 00-0422	EA			12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12).....	3,578.64	114.12
23 05 29 00-0423	EA			14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14).....	3,636.33	142.64
23 05 29 00-0424	EA			16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16).....	4,375.69	160.80
23 05 29 00-0425	EA			18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18).....	4,717.80	178.30
23 05 29 00-0426	EA			20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20).....	5,015.62	204.24
23 05 29 00-0427	EA			24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24).....	6,316.63	214.61
23 05 29 00-0428 Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)						
23 05 29 00-0429	EA			1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2).....	764.45	27.88
23 05 29 00-0430	EA			3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4).....	876.17	28.53
23 05 29 00-0431	EA			1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1).....	877.47	29.18
23 05 29 00-0432	EA			1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4).....	878.77	29.83
23 05 29 00-0433	EA			1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2).....	880.07	30.47
23 05 29 00-0434	EA			2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2).....	885.58	33.23
23 05 29 00-0435	EA			2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2).....	888.89	34.88
23 05 29 00-0436	EA			3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3).....	981.53	35.89
23 05 29 00-0437	EA			4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4).....	984.97	37.61
23 05 29 00-0438	EA			5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5).....	1,106.10	47.98
23 05 29 00-0439	EA			6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6).....	1,887.62	58.35
23 05 29 00-0440	EA			8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8).....	2,872.03	72.94
23 05 29 00-0441	EA			10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10).....	3,526.49	87.73
23 05 29 00-0442	EA			12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12).....	4,287.50	116.71
23 05 29 00-0443	EA			14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14).....	4,346.51	146.21
23 05 29 00-0444	EA			16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16).....	4,705.04	164.69
23 05 29 00-0445	EA			18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18).....	4,972.82	182.84
23 05 29 00-0446	EA			20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20).....	6,304.96	208.78
23 05 29 00-0447 Pipe Alignment Guide, 4" Insulation (23 05 29 00-0327)						
23 05 29 00-0448	EA			1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....	876.17	28.53
23 05 29 00-0449	EA			3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....	877.47	29.18
23 05 29 00-0450	EA			1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....	878.77	29.83
23 05 29 00-0451	EA			1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....	880.07	30.47
23 05 29 00-0452	EA			1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....	881.36	31.12
23 05 29 00-0453	EA			2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....	977.84	34.03
23 05 29 00-0454	EA			2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....	981.08	35.66
23 05 29 00-0455	EA			3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....	983.28	36.76
23 05 29 00-0456	EA			4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....	1,087.29	38.58
23 05 29 00-0457	EA			5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....	1,869.46	49.28
23 05 29 00-0458	EA			6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....	1,890.21	59.65
23 05 29 00-0459	EA			8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....	2,875.27	74.56
23 05 29 00-0460	EA			10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....	3,531.28	90.12
23 05 29 00-0461	EA			12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....	4,293.34	119.63
23 05 29 00-0462	EA			14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....	4,659.45	149.13
23 05 29 00-0463	EA			16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....	4,944.30	168.57
23 05 29 00-0464	EA			18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....	6,263.47	188.03
23 05 29 00-0465 Sway Bracing For No Hub Pipe (23 05 29 00-0001)						
23 05 29 00-0466	EA			1-1/2" Sway Bracing.....	148.10	17.11
				<i>For Work In Restricted Working Space, Add</i>	10.24	
23 05 29 00-0467	EA			2" Sway Bracing.....	152.71	18.03
				<i>For Work In Restricted Working Space, Add</i>	10.81	
23 05 29 00-0468	EA			3" Sway Bracing.....	158.29	19.06
				<i>For Work In Restricted Working Space, Add</i>	11.44	
23 05 29 00-0469	EA			4" Sway Bracing.....	179.65	21.66
				<i>For Work In Restricted Working Space, Add</i>	12.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0470 EA 6" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	263.81 19.45	32.42
23 05 29 00-0471 EA 8" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	293.53 24.32	40.46
23 05 29 00-0472 EA 10" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	333.24 32.42	54.08
23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001) Note: Heights listed is total for base and adjustable saddle		
23 05 29 00-0474 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	262.34 7.78	12.97
23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	269.27 8.56	14.27
23 05 29 00-0476 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	547.33 9.73	16.21
23 05 29 00-0477 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	657.53 10.89	18.16
23 05 29 00-0478 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	667.36 12.06	20.10
23 05 29 00-0479 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	737.80 13.61	22.70
23 05 29 00-0480 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	873.50 14.78	24.64
23 05 29 00-0481 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	885.21 15.95	26.58
23 05 29 00-0482 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	900.24 17.51	29.18
23 05 29 00-0483 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	940.20 19.06	31.77
23 05 29 00-0484 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,011.14 21.01	35.01
23 05 29 00-0485 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,044.28 23.34	38.90
23 05 29 00-0486 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,268.02 25.68	42.80
23 05 29 00-0487 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,389.36 28.79	47.98
23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,941.63 31.90	53.17
23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	2,411.67 35.01	58.35
23 05 29 00-0490 EA 39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	2,911.68 38.12	63.54
23 05 29 00-0491 Channel Mounted Cushion Clamp (23 05 29 00-0001) Note: Includes fastening into channel.		
23 05 29 00-0492 EA 1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....	15.92	5.84
23 05 29 00-0493 EA 5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....	16.77	6.48
23 05 29 00-0494 EA 7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....	18.64	6.81
23 05 29 00-0495 EA 1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....	19.99	7.13
23 05 29 00-0496 EA 1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....	22.35	7.78
23 05 29 00-0497 EA 1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....	25.08	8.11
23 05 29 00-0498 EA 2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....	32.02	8.43
23 05 29 00-0499 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262).....	35.45	9.07
23 05 29 00-0500 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312).....	43.71	10.37
23 05 29 00-0501 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412).....	67.00	11.67
23 05 29 00-0502 Galvanized Steel Cushion Tube Clamp (KMC) (23 05 29 00-0001) Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0503 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe..... Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.65	
23 05 29 00-0504 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe..... Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw	4.75	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 29 00-0505	EA		5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....4.83 Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.83	
	23 05 29 00-0506	EA		5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....5.01 Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.01	
	23 05 29 00-0507	EA		7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....4.79 Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.79	
	23 05 29 00-0508	EA		7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....5.12 Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.12	
	23 05 29 00-0509	EA		1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....4.92 Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.92	
	23 05 29 00-0510	EA		1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....5.31 Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.31	
	23 05 29 00-0511	EA		1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe .....5.33 Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw	5.33	
	23 05 29 00-0512	EA		1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe .....5.10 Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw	5.10	
	23 05 29 00-0513	EA		1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe .....5.28 Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.28	
	23 05 29 00-0514	EA		1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe .....5.84 Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	5.84	
	23 05 29 00-0515	EA		1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe .....5.30 Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw	5.30	
	23 05 29 00-0516	EA		1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe .....5.66 Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	5.66	
	23 05 29 00-0517	EA		1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe .....6.25 Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw	6.25	
	23 05 29 00-0518	EA		2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....6.31 Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw	6.31	
	23 05 29 00-0519	EA		2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....6.63 Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	6.63	
	23 05 29 00-0520	EA		2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe .....7.28 Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	7.28	
	23 05 29 00-0521	EA		2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe .....7.48 Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw	7.48	
	23 05 29 00-0522	EA		2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe .....8.46 Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw	8.46	
	23 05 29 00-0523	EA		2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe .....8.53 Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw	8.53	
	23 05 29 00-0524	EA		3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....7.68 Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw	7.68	
	23 05 29 00-0525	EA		3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....8.46 Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw	8.46	
	23 05 29 00-0526	EA		3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe .....8.92 Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw	8.92	
	23 05 29 00-0527	EA		3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe .....7.93 Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw	7.93	
	23 05 29 00-0528	EA		3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe .....8.40 Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw	8.40	
	23 05 29 00-0529	EA		3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe .....10.22 Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw	10.22	
	23 05 29 00-0530	EA		4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....7.88 Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw	7.88	
	23 05 29 00-0531	EA		4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....8.56 Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	8.56	
	23 05 29 00-0532	EA		4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....10.62 Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	10.62	
	23 05 29 00-0533			Rooftop Pipe Supports <small>(23 05 29 00-0001)</small> Note: Excludes pipe/conduit clamps and straps.		
	23 05 29 00-0534			Rooftop Support Base <small>(23 05 29 00-0533)</small>		
	23 05 29 00-0535	EA		4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM).....42.63	42.63	10.56
	23 05 29 00-0536	EA		4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP).....59.18	59.18	14.09
	23 05 29 00-0537			Rooftop Support Base With 14 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
	23 05 29 00-0538	EA		5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5).....47.98	47.98	10.56
	23 05 29 00-0539	EA		5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10).....67.88	67.88	14.09
	23 05 29 00-0540	EA		5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20).....122.67	122.67	17.61
	23 05 29 00-0541	EA		5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30).....168.54	168.54	21.13
	23 05 29 00-0542	EA		5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40).....231.92	231.92	24.65
	23 05 29 00-0543	EA		5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48).....245.28	245.28	28.17
	23 05 29 00-0544			Rooftop Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
	23 05 29 00-0545	EA		6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....82.09	82.09	14.09
	23 05 29 00-0546	EA		6-7/16" x 6" x 20.2" Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620).....129.01	129.01	17.61
	23 05 29 00-0547	EA		6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630).....171.08	171.08	21.13
	23 05 29 00-0548	EA		6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640).....232.07	232.07	24.65
	23 05 29 00-0549	EA		6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648).....258.98	258.98	21.13

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0550 Rooftop Bridge Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0551 EA 5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28).....	136.72	21.13
23 05 29 00-0552 EA 5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36).....	155.90	24.65
23 05 29 00-0553 EA 5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42).....	162.89	28.17
23 05 29 00-0554 EA 5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50).....	178.56	31.69
23 05 29 00-0555 EA 5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60).....	226.84	35.21
23 05 29 00-0556 Rooftop Pipe Support Base And Rod <small>(23 05 29 00-0533)</small>		
23 05 29 00-0557 EA 9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT).....	98.92	14.09
23 05 29 00-0558 EA 9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT).....	98.92	14.09
23 05 29 00-0559 EA 9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT).....	99.45	14.09
23 05 29 00-0560 EA 10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT).....	107.04	17.61
23 05 29 00-0561 EA 10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT).....	103.15	17.61
23 05 29 00-0562 EA 10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT).....	108.14	17.61
23 05 29 00-0563 Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly <small>(23 05 29 00-0533)</small>		
23 05 29 00-0564 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2).....	124.38	14.09
23 05 29 00-0565 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6).....	138.35	14.09
23 05 29 00-0566 EA 8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10).....	181.08	17.61
23 05 29 00-0567 EA 9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14).....	238.15	17.61
23 05 29 00-0568 EA 9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20).....	322.92	17.61
23 05 29 00-0569 Rooftop Support Base And Adjustable Height Roller Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0570 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12).....	156.07	21.13
23 05 29 00-0571 Rooftop Support Base And Adjustable Height Channel Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0572 EA Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8).....	103.41	17.61
23 05 29 00-0573 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12).....	140.11	21.13
23 05 29 00-0574 EA Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16).....	156.55	24.65
23 05 29 00-0575 Rooftop Support Bases With Channel Support And Risers Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0576 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS).....	368.87	28.17
23 05 29 00-0577 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS).....	372.89	28.17
23 05 29 00-0578 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS).....	386.99	28.17
23 05 29 00-0579 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS).....	419.33	28.17
23 05 29 00-0580 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS).....	361.70	28.17
23 05 29 00-0581 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS).....	375.19	28.17
23 05 29 00-0582 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS).....	389.28	28.17
23 05 29 00-0583 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS).....	421.62	28.17
23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS).....	377.73	28.17
23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS).....	382.44	28.17
23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS).....	396.26	28.17
23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS).....	428.73	28.17
23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS).....	394.10	28.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS)	398.40	28.17
23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS)	412.22	28.17
23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS)	444.69	28.17
23 05 29 00-0592 Threaded Rod, Accessories And Attachments <small>(23 05 29)</small>		
23 05 29 00-0593 Threaded Rod And Rod Accessories <small>(23 05 29 00-0592)</small>		
23 05 29 00-0594 Threaded Rod <small>(23 05 29 00-0593)</small>		
Note: Fully threaded.		
23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.78	0.88
For Galvanized, Add	0.81	
For Zinc Plated, Add	0.58	
For Work In Restricted Working Space, Add	0.53	
23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.09	0.95
For Galvanized, Add	1.29	
For Zinc Plated, Add	0.92	
For Work In Restricted Working Space, Add	0.56	
23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.93	0.98
For Galvanized, Add	2.00	
For Zinc Plated, Add	1.42	
For Work In Restricted Working Space, Add	0.58	
23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.06	1.00
For Galvanized, Add	3.62	
For Zinc Plated, Add	2.58	
For Work In Restricted Working Space, Add	0.60	
23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.03	1.04
For Galvanized, Add	3.98	
For Zinc Plated, Add	2.84	
For Work In Restricted Working Space, Add	0.62	
23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.32	1.17
For Galvanized, Add	5.59	
For Zinc Plated, Add	3.98	
For Work In Restricted Working Space, Add	0.70	
23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.25	1.31
For Galvanized, Add	7.06	
For Zinc Plated, Add	5.03	
For Work In Restricted Working Space, Add	0.78	
23 05 29 00-0602 Rod Couplings <small>(23 05 29 00-0593)</small>		
23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut	10.23	
For Work In Restricted Working Space, Add	2.59	
23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut	11.59	
For Work In Restricted Working Space, Add	2.88	
23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut	14.33	
For Work In Restricted Working Space, Add	3.24	
23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut	17.30	
For Work In Restricted Working Space, Add	3.54	
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut	24.80	
For Work In Restricted Working Space, Add	3.89	
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut	29.41	
For Work In Restricted Working Space, Add	4.58	
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	54.74	
For Work In Restricted Working Space, Add	5.19	
23 05 29 00-0610 Flat Washers <small>(23 05 29 00-0593)</small>		
Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.72	0.28
For Galvanized, Add	0.04	
For Work In Restricted Working Space, Add	0.17	
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.96	0.28
For Galvanized, Add	0.08	
For Work In Restricted Working Space, Add	0.20	
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.36	0.42
For Galvanized, Add	0.15	
For Work In Restricted Working Space, Add	0.23	
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.84	0.42
For Galvanized, Add	0.21	
For Work In Restricted Working Space, Add	0.30	
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.17	0.56
For Galvanized, Add	0.25	
For Work In Restricted Working Space, Add	0.35	
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.52	0.56
For Galvanized, Add	0.30	
For Work In Restricted Working Space, Add	0.39	
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.84	0.70
For Galvanized, Add	0.34	
For Work In Restricted Working Space, Add	0.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0618			Hex Nuts <small>(23 05 29 00-0593)</small> Note: Grade 2 and zinc plated.		
23 05 29 00-0619	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.91	0.35
			<i>For Galvanized, Add</i>	0.03	
			<i>For Work In Restricted Working Space, Add</i>	0.24	
23 05 29 00-0620	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.15	0.35
			<i>For Galvanized, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	0.27	
23 05 29 00-0621	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.51	0.35
			<i>For Galvanized, Add</i>	0.15	
			<i>For Work In Restricted Working Space, Add</i>	0.28	
23 05 29 00-0622	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.76	0.70
			<i>For Galvanized, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	0.29	
23 05 29 00-0623	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.51	0.70
			<i>For Galvanized, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	0.31	
23 05 29 00-0624	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.17	0.70
			<i>For Galvanized, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	0.35	
23 05 29 00-0625	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.07	0.70
			<i>For Galvanized, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	0.39	
23 05 29 00-0626			Turnbuckle (Cooper B-Line B3202) <small>(23 05 29 00-0593)</small> Note: Type 13.		
23 05 29 00-0627	EA		3/8" Turnbuckle (Cooper B-Line B3202).....	33.53	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0628	EA		1/2" Turnbuckle (Cooper B-Line B3202).....	39.82	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0629	EA		5/8" Turnbuckle (Cooper B-Line B3202).....	42.89	8.45
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0630	EA		3/4" Turnbuckle (Cooper B-Line B3202).....	53.98	9.86
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0631	EA		7/8" Turnbuckle (Cooper B-Line B3202).....	69.88	10.56
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0632	EA		1" Turnbuckle (Cooper B-Line B3202).....	86.75	11.27
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0633	EA		1-1/8" Turnbuckle (Cooper B-Line B3202).....	120.36	12.68
			<i>For Work In Restricted Working Space, Add</i>	10.57	
23 05 29 00-0634			Swivel Turnbuckle (Cooper B-Line B3224) <small>(23 05 29 00-0593)</small> Note: Type 15.		
23 05 29 00-0635	EA		3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	21.25	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0636	EA		1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	24.58	7.88
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0637	EA		5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	32.59	8.73
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0638	EA		3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	39.40	10.00
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0639			Forged Steel Clevis (Cooper B-Line B3201) <small>(23 05 29 00-0593)</small> Note: Type 14.		
23 05 29 00-0640	EA		3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	111.76	12.97
			<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0641	EA		4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	164.86	13.61
			<i>For Work In Restricted Working Space, Add</i>	8.19	
23 05 29 00-0642	EA		5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	178.31	14.27
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 05 29 00-0643	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	185.68	15.56
			<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0644	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	195.43	17.51
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 05 29 00-0645	EA		6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	325.66	22.70
			<i>For Work In Restricted Working Space, Add</i>	13.61	
23 05 29 00-0646	EA		5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	353.47	25.94
			<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0647	EA		7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	416.69	32.42
			<i>For Work In Restricted Working Space, Add</i>	19.45	
23 05 29 00-0648			Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small>		
23 05 29 00-0649	EA		3/8" Diameter x 8" Length Shank, Welded Eye Rod.....	33.35	7.60
			<i>For Work In Restricted Working Space, Add</i>	4.58	
23 05 29 00-0650	EA		3/8" Diameter x 10" Length Shank, Welded Eye Rod.....	34.41	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.67	
23 05 29 00-0651	EA		3/8" Diameter x 12" Length Shank, Welded Eye Rod.....	35.49	7.88
			<i>For Work In Restricted Working Space, Add</i>	4.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	35.78 4.84	8.03
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	37.92 5.02	8.31
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	40.40 5.28	8.87
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	42.05 5.55	9.29
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	45.30 5.81	9.71
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	47.74 6.08	10.14
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	50.20 6.34	10.56
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	44.38 5.07	8.45
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	45.46 5.16	8.59
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	46.58 5.25	8.73
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	47.68 5.35	8.87
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	49.87 5.54	9.15
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	53.94 5.82	9.72
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	57.25 6.10	10.14
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.32 6.38	10.56
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.59 6.66	11.13
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	67.91 6.94	11.55
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	59.74 5.67	9.44
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.62 5.77	9.58
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	63.54 5.87	9.72
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.65 5.96	10.00
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	67.65 6.16	10.28
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	72.55 6.45	10.70
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	77.44 6.74	11.27
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	81.54 7.03	11.69
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	86.45 7.33	12.25
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.34 7.62	12.68
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	73.31 6.45	10.70
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	76.00 6.54	10.84
23 05 29 00-0681 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	77.90 6.65	11.13
23 05 29 00-0682 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	80.58 6.74	11.27
23 05 29 00-0683 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	85.18 6.95	11.55
23 05 29 00-0684 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.65 7.24	12.11
23 05 29 00-0685 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	98.16 7.55	12.53
23 05 29 00-0686 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	105.45 7.85	13.10
23 05 29 00-0687 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	112.71 8.15	13.52
23 05 29 00-0688 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	119.21 8.45	14.09
23 05 29 00-0689 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	87.73 7.48	12.39
23 05 29 00-0690 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.21 7.58	12.68
23 05 29 00-0691 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	93.92 7.68	12.82
23 05 29 00-0692 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	96.61 7.79	12.96
23 05 29 00-0693 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	102.05 8.00	13.38

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0694 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	110.91 8.31	13.80
23 05 29 00-0695 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	119.02 8.62	14.38
23 05 29 00-0696 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	127.92 8.94	14.94
23 05 29 00-0697 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	136.02 9.25	15.36
23 05 29 00-0698 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	144.14 9.56	15.92
23 05 29 00-0699 EA 1" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	109.82 8.92	14.94
23 05 29 00-0700 EA 1" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	113.36 9.04	15.08
23 05 29 00-0701 EA 1" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	116.90 9.16	15.22
23 05 29 00-0702 EA 1" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	120.42 9.27	15.50
23 05 29 00-0703 EA 1" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	127.46 9.51	15.92
23 05 29 00-0704 EA 1" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	138.07 9.86	16.49
23 05 29 00-0705 EA 1" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	148.69 10.22	17.05
23 05 29 00-0706 EA 1" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	160.02 10.57	17.61
23 05 29 00-0707 EA 1" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	170.63 10.92	18.18
23 05 29 00-0708 EA 1" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	181.24 11.27	18.74
23 05 29 00-0709 Welded Linked Eye Rod (Cooper B-Line B3211X) (23 05 29 00-0593)		
23 05 29 00-0710 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	69.30 6.20	10.28
23 05 29 00-0711 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	71.17 6.37	10.56
23 05 29 00-0712 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	73.04 6.55	10.98
23 05 29 00-0713 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	73.93 6.82	11.40
23 05 29 00-0714 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	77.40 7.08	11.83
23 05 29 00-0715 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.82 7.61	12.67
23 05 29 00-0716 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	84.86 8.13	13.52
23 05 29 00-0717 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	90.57 8.66	14.51
23 05 29 00-0718 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	89.41 6.85	11.41
23 05 29 00-0719 EA 1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	91.33 7.04	11.69
23 05 29 00-0720 EA 1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	93.30 7.22	11.97
23 05 29 00-0721 EA 1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	95.54 7.51	12.53
23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	99.07 7.79	12.96
23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	106.19 8.35	13.94
23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	112.00 8.91	14.80
23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	119.12 9.47	15.78
23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	119.50 7.65	12.68
23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	122.73 7.84	13.10
23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	126.02 8.03	13.38
23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	128.31 8.33	13.94
23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	133.21 8.62	14.38
23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	141.69 9.20	15.36
23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	150.16 9.78	16.35
23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	157.34 10.37	17.33
23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	150.96 8.66	14.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	155.61 8.86	14.80
23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	158.86 9.06	15.08
23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	163.79 9.36	15.64
23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	171.33 9.66	16.07
23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	182.46 10.26	17.05
23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	193.63 10.86	18.04
23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	206.12 11.46	19.16
23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	181.29 10.01	16.63
23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	187.23 10.22	17.05
23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	191.86 10.43	17.33
23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	196.82 10.74	17.90
23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	205.74 11.05	18.46
23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	220.90 11.68	19.45
23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	234.74 12.30	20.57
23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.91 12.93	21.56
23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	230.84 11.93	19.87
23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	236.87 12.17	20.29
23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	242.89 12.40	20.71
23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.30 12.75	21.28
23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	260.90 13.10	21.84
23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	278.97 13.81	22.97
23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	297.06 14.51	24.23
23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	316.33 15.22	25.36
23 05 29 00-0758 Attachments <small>(23 05 29 00-0592)</small>		
23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 22.</i>		
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	49.10 7.87	13.11
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	52.28 8.29	13.77
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	55.59 8.75	14.56
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	69.16 9.26	15.48
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	81.79 9.84	16.40
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	112.29 11.24	18.76
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	155.18 11.81	19.67
23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 23. Top or bottom flange mount.</i>		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	20.41 5.28	7.18
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	23.62 5.63	9.15
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	26.43 6.04	9.86
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	32.60 6.50	10.56
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	44.70 7.04	11.27
23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 21. For attaching threaded rod centered under beam flanges.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0774	EA		3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	48.02	9.86
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0775	EA		1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	67.69	12.68
			<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0776	EA		5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	93.97	14.09
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0777	EA		3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	111.68	15.50
			<i>For Work In Restricted Working Space, Add</i>	9.39	
23 05 29 00-0778	EA		1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	257.13	16.91
			<i>For Work In Restricted Working Space, Add</i>	10.57	
23 05 29 00-0779			Steel U-Bolts (B-Line B-3188) <small>(23 05 29 00-0758)</small>		
			Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780	EA		1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	16.55	3.52
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0781	EA		3/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	17.80	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.45	
23 05 29 00-0782	EA		1" Pipe Size, Steel U-Bolt (B-Line B-3188).....	19.06	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0783	EA		1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	21.27	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.97	
23 05 29 00-0784	EA		1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	22.13	4.93
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0785	EA		2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	23.66	4.93
			<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0786	EA		2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	31.81	4.93
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0787	EA		3" Pipe Size, Steel U-Bolt (B-Line B-3188).....	34.91	5.63
			<i>For Work In Restricted Working Space, Add</i>	6.50	
23 05 29 00-0788	EA		4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	41.28	6.34
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0789			Copper Standoff Brackets With Flange <small>(23 05 29 00-0758)</small>		
			Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790	EA		Clamp Size 1/2", Copper Standoff Brackets With Flange.....	42.48	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0791	EA		Clamp Size 3/4", Copper Standoff Brackets With Flange.....	42.61	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0792	EA		Clamp Size 1", Copper Standoff Brackets With Flange.....	42.75	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0793	EA		Clamp Size 1 1/4", Copper Standoff Brackets With Flange.....	45.46	21.42
			<i>For Work In Restricted Working Space, Add</i>	12.81	
23 05 29 00-0794	EA		Clamp Size 1 1/2", Copper Standoff Brackets With Flange.....	45.73	21.42
			<i>For Work In Restricted Working Space, Add</i>	12.81	
23 05 29 00-0795			Malleable Iron Eye Sockets (B-Line B-3222) <small>(23 05 29 00-0758)</small>		
			Note: Type 16.		
23 05 29 00-0796	EA		3/8" Rod Size, Malleable Iron Eye Socket.....	10.46	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 05 29 00-0797	EA		1/2" Rod Size, Malleable Iron Eye Socket.....	13.40	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0798	EA		5/8" Rod Size, Malleable Iron Eye Socket.....	21.63	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.71	
23 05 29 00-0799	EA		3/4" Rod Size, Malleable Iron Eye Socket.....	29.66	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0800	EA		7/8" Rod Size, Malleable Iron Eye Socket.....	32.36	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
23 05 29 00-0801			Steel Weldless Eye Nuts (B-Line B-3200) <small>(23 05 29 00-0758)</small>		
			Note: Type 17.		
23 05 29 00-0802	EA		3/8" Rod Size, Steel Weldless Eye Nut.....	30.71	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 05 29 00-0803	EA		1/2" Rod Size, Steel Weldless Eye Nut.....	32.07	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0804	EA		5/8" Rod Size, Steel Weldless Eye Nut.....	32.13	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.71	
23 05 29 00-0805	EA		3/4" Rod Size, Steel Weldless Eye Nut.....	32.07	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0806	EA		7/8" Rod Size, Steel Weldless Eye Nut.....	60.90	3.10
			<i>For Work In Restricted Working Space, Add</i>	1.90	
23 05 29 00-0807	EA		1" Rod Size, Steel Weldless Eye Nut.....	61.60	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
23 05 29 00-0808			Top Mount I-Beam Clamps (B-Line B-3042) <small>(23 05 29 00-0758)</small>		
			Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809	EA		3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	24.34	6.55
			<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0810	EA		1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	28.83	7.22
			<i>For Work In Restricted Working Space, Add</i>	4.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	34.37 4.77	7.87
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.47 5.02	8.53
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	67.72 5.90	9.84
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	25.38 3.93	6.55
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	30.30 4.34	7.22
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	34.37 4.77	7.87
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	49.34 5.02	8.53
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	74.34 5.90	9.84
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	27.80 3.93	6.55
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	33.02 4.34	7.22
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	40.76 4.77	7.87
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	56.59 5.02	8.53
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	88.50 5.90	9.84
23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758) Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	22.13 5.28	9.15
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	25.49 5.63	9.15
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	31.57 6.04	9.86
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	51.27 6.50	10.56
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	59.37 7.04	11.97
23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758) Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.62 0.88	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.78 0.91	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.22 0.95	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.00 0.98	
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.32 1.02	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.27 1.06	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.84 1.06	
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.10 1.10	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.87 1.15	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.74 1.20	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.88 1.26	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	8.44 1.32	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.47 1.17	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.45 1.20	
23 05 29 00-0845 Hanger Strap (23 05 29 00-0592)		
23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap	6.70	
23 05 29 00-0847 Shields And Saddles (23 05 29)		
23 05 29 00-0848 Insulation Protection Shield (23 05 29 00-0847) Note: Type 40.		
23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0848)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0850	EA	1-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.34	3.38
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 05 29 00-0851	EA	2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.63	3.42
			<i>For Work In Restricted Working Space, Add</i>	3.42	
23 05 29 00-0852	EA	2-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	20.11	3.47
			<i>For Work In Restricted Working Space, Add</i>	3.47	
23 05 29 00-0853	EA	3"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	21.02	3.51
			<i>For Work In Restricted Working Space, Add</i>	3.51	
23 05 29 00-0854	EA	4"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	23.20	3.59
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 05 29 00-0855	EA	6"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	28.19	3.68
			<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0856	EA	8"	Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	32.69	3.76
			<i>For Work In Restricted Working Space, Add</i>	3.76	
23 05 29 00-0857	EA	10"	Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	39.84	3.84
			<i>For Work In Restricted Working Space, Add</i>	3.85	
23 05 29 00-0858	EA	12"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	50.96	3.89
			<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0859	EA	14"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	55.45	3.93
			<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0860	EA	16"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	76.07	3.97
			<i>For Work In Restricted Working Space, Add</i>	3.97	
23 05 29 00-0861	EA	18"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	85.38	4.01
			<i>For Work In Restricted Working Space, Add</i>	4.01	
23 05 29 00-0862	EA	20"	Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	157.78	4.05
			<i>For Work In Restricted Working Space, Add</i>	4.06	
23 05 29 00-0863	EA	24"	Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	171.46	4.14
			<i>For Work In Restricted Working Space, Add</i>	4.14	
23 05 29 00-0864	EA	30"	Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	207.10	4.23
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0865			Insulation Protection Shield (Cooper B-Line B3154) <small>(23 05 29 00-0848)</small>		
23 05 29 00-0866	EA	1-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.13	3.38
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 05 29 00-0867	EA	2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.37	3.42
			<i>For Work In Restricted Working Space, Add</i>	3.42	
23 05 29 00-0868	EA	2-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.75	3.47
			<i>For Work In Restricted Working Space, Add</i>	3.47	
23 05 29 00-0869	EA	3"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	18.46	3.51
			<i>For Work In Restricted Working Space, Add</i>	3.51	
23 05 29 00-0870	EA	4"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	20.12	3.59
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 05 29 00-0871	EA	6"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	23.81	3.68
			<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0872	EA	8"	Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	25.55	3.76
			<i>For Work In Restricted Working Space, Add</i>	3.76	
23 05 29 00-0873	EA	10"	Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	32.41	3.84
			<i>For Work In Restricted Working Space, Add</i>	3.85	
23 05 29 00-0874	EA	12"	Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	38.76	3.89
			<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0875			Pipe Covering Protection Saddle <small>(23 05 29 00-0847)</small>		
			Note: Sizes are pipe sizes.		
23 05 29 00-0876			Saddle, For 1" Insulation (Cooper B-Line B3160) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0877	EA	3/4"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.59	4.64
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 05 29 00-0878	EA	1"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.72	4.68
			<i>For Work In Restricted Working Space, Add</i>	4.68	
23 05 29 00-0879	EA	1-1/4"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.85	4.72
			<i>For Work In Restricted Working Space, Add</i>	4.72	
23 05 29 00-0880	EA	1-1/2"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	31.31	4.80
			<i>For Work In Restricted Working Space, Add</i>	4.80	
23 05 29 00-0881	EA	2"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	31.43	4.84
			<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0882	EA	2-1/2"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	32.47	4.92
			<i>For Work In Restricted Working Space, Add</i>	4.92	
23 05 29 00-0883	EA	3"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	36.06	5.00
			<i>For Work In Restricted Working Space, Add</i>	5.00	
23 05 29 00-0884	EA	4"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	40.43	5.08
			<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0885	EA	6"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	45.41	5.23
			<i>For Work In Restricted Working Space, Add</i>	5.23	
23 05 29 00-0886	EA	8"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	55.21	5.43
			<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0887	EA	10"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	61.65	5.51
			<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0888	EA	12"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	72.99	5.63
			<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0889	EA	14"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	79.65	5.71
			<i>For Work In Restricted Working Space, Add</i>	5.71	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0890				Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small>		
				EA 3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.34	4.64
				<i>For Work In Restricted Working Space, Add</i>	4.64	
				EA 1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.47	4.68
				<i>For Work In Restricted Working Space, Add</i>	4.68	
				EA 1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.60	4.72
				<i>For Work In Restricted Working Space, Add</i>	4.72	
				EA 1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	34.82	4.80
				<i>For Work In Restricted Working Space, Add</i>	4.80	
				EA 2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	37.54	4.84
				<i>For Work In Restricted Working Space, Add</i>	4.84	
				EA 2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	40.42	4.92
				<i>For Work In Restricted Working Space, Add</i>	4.92	
				EA 3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	41.10	5.00
				<i>For Work In Restricted Working Space, Add</i>	5.00	
				EA 4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	46.63	5.00
				<i>For Work In Restricted Working Space, Add</i>	5.08	
				EA 6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	52.43	5.23
				<i>For Work In Restricted Working Space, Add</i>	5.23	
				EA 8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	62.09	5.43
				<i>For Work In Restricted Working Space, Add</i>	5.43	
				EA 10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	69.79	5.51
				<i>For Work In Restricted Working Space, Add</i>	5.51	
				EA 12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	83.03	5.63
				<i>For Work In Restricted Working Space, Add</i>	5.63	
				EA 14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	90.92	5.71
				<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0904				Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small>		
				EA 3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	35.67	4.87
				<i>For Work In Restricted Working Space, Add</i>	4.88	
				EA 1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	35.81	4.92
				<i>For Work In Restricted Working Space, Add</i>	4.92	
				EA 1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	37.70	4.96
				<i>For Work In Restricted Working Space, Add</i>	4.96	
				EA 1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	38.84	5.04
				<i>For Work In Restricted Working Space, Add</i>	5.04	
				EA 2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	39.85	5.08
				<i>For Work In Restricted Working Space, Add</i>	5.08	
				EA 2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	40.12	5.17
				<i>For Work In Restricted Working Space, Add</i>	5.16	
				EA 3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	42.38	5.25
				<i>For Work In Restricted Working Space, Add</i>	5.23	
				EA 4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	44.67	5.32
				<i>For Work In Restricted Working Space, Add</i>	5.31	
				EA 6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	56.95	5.50
				<i>For Work In Restricted Working Space, Add</i>	5.51	
				EA 8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	64.56	5.71
				<i>For Work In Restricted Working Space, Add</i>	5.71	
				EA 10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	67.79	5.78
				<i>For Work In Restricted Working Space, Add</i>	5.79	
				EA 12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	91.46	5.90
				<i>For Work In Restricted Working Space, Add</i>	5.90	
				EA 14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	101.29	5.99
				<i>For Work In Restricted Working Space, Add</i>	5.98	
				EA 16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	111.39	6.14
				<i>For Work In Restricted Working Space, Add</i>	6.14	
				EA 18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	121.47	6.30
				<i>For Work In Restricted Working Space, Add</i>	6.30	
				EA 20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	133.21	6.45
				<i>For Work In Restricted Working Space, Add</i>	6.45	
				EA 24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	152.56	6.62
				<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0922				Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <small>(23 05 29 00-0875)</small>		
				EA 1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	39.97	5.08
				<i>For Work In Restricted Working Space, Add</i>	5.08	
				EA 1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	42.21	5.16
				<i>For Work In Restricted Working Space, Add</i>	5.16	
				EA 2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	43.32	5.21
				<i>For Work In Restricted Working Space, Add</i>	5.19	
				EA 2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	44.57	5.28
				<i>For Work In Restricted Working Space, Add</i>	5.27	
				EA 3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	44.96	5.37
				<i>For Work In Restricted Working Space, Add</i>	5.39	
				EA 4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	52.30	5.46
				<i>For Work In Restricted Working Space, Add</i>	5.47	
				EA 6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	59.90	5.63
				<i>For Work In Restricted Working Space, Add</i>	5.63	
				EA 8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	69.80	5.84
				<i>For Work In Restricted Working Space, Add</i>	5.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	74.81	5.93
<i>For Work In Restricted Working Space, Add</i>	5.94	
23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	93.83	6.05
<i>For Work In Restricted Working Space, Add</i>	6.06	
23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	111.47	6.14
<i>For Work In Restricted Working Space, Add</i>	6.14	
23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	129.36	6.28
<i>For Work In Restricted Working Space, Add</i>	6.30	
23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	137.43	6.44
<i>For Work In Restricted Working Space, Add</i>	6.45	
23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	146.41	6.62
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	155.40	6.77
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)		
23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	44.82	5.32
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	48.95	5.41
<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	51.08	5.50
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	53.19	5.59
<i>For Work In Restricted Working Space, Add</i>	5.59	
23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	61.18	5.76
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	76.90	5.96
<i>For Work In Restricted Working Space, Add</i>	5.98	
23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	83.39	6.06
<i>For Work In Restricted Working Space, Add</i>	6.06	
23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	108.78	6.19
<i>For Work In Restricted Working Space, Add</i>	6.18	
23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	130.04	6.28
<i>For Work In Restricted Working Space, Add</i>	6.30	
23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	151.30	6.43
<i>For Work In Restricted Working Space, Add</i>	6.41	
23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	154.19	6.59
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	156.97	6.76
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	199.51	6.93
<i>For Work In Restricted Working Space, Add</i>	6.93	
23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)		
23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	50.64	5.44
<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	55.49	5.54
<i>For Work In Restricted Working Space, Add</i>	5.55	
23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	58.00	5.63
<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	60.62	5.71
<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	74.16	5.89
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	87.71	6.12
<i>For Work In Restricted Working Space, Add</i>	6.10	
23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	90.69	6.21
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	116.23	6.34
<i>For Work In Restricted Working Space, Add</i>	6.34	
23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	141.34	6.41
<i>For Work In Restricted Working Space, Add</i>	6.41	
23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	166.71	6.58
<i>For Work In Restricted Working Space, Add</i>	6.57	
23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	204.14	6.75
<i>For Work In Restricted Working Space, Add</i>	6.73	
23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	241.39	6.91
<i>For Work In Restricted Working Space, Add</i>	6.93	
23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	258.29	7.08
<i>For Work In Restricted Working Space, Add</i>	7.08	
23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	271.87	7.27
<i>For Work In Restricted Working Space, Add</i>	7.28	
23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	281.90	7.45
<i>For Work In Restricted Working Space, Add</i>	7.44	
23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0847)		
23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	114.50	17.61
23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	121.38	20.43
23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	147.49	23.25
23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	153.82	25.36



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 29 00-0973 EA	6" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	170.68	28.18
	23 05 29 00-0974 EA	8" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	194.14	35.22
	23 05 29 00-0975 EA	10" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	253.90	47.20
	23 05 29 00-0976 EA	12" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	314.11	70.45
23 05 29 00-0977	Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small>			
	23 05 29 00-0978 EA	2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	141.59	17.61
	23 05 29 00-0979 EA	3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	146.62	20.43
	23 05 29 00-0980 EA	3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	157.12	21.84
	23 05 29 00-0981 EA	4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	160.40	23.25
	23 05 29 00-0982 EA	5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	168.66	25.36
	23 05 29 00-0983 EA	6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	178.85	28.18
	23 05 29 00-0984 EA	8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	227.10	35.22
	23 05 29 00-0985 EA	10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	306.35	47.20
	23 05 29 00-0986 EA	12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	400.95	70.45
23 05 29 00-0987	Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small>			
	23 05 29 00-0988 EA	2-1/2" Pipe Saddle Support (Cooper B-Line B3095)	72.92	17.61
	23 05 29 00-0989 EA	3" Pipe Saddle Support (Cooper B-Line B3095)	77.95	20.43
	23 05 29 00-0990 EA	3-1/2" Pipe Saddle Support (Cooper B-Line B3095)	117.30	21.84
	23 05 29 00-0991 EA	4" Pipe Saddle Support (Cooper B-Line B3095)	120.58	23.25
	23 05 29 00-0992 EA	5" Pipe Saddle Support (Cooper B-Line B3095)	132.56	25.36
	23 05 29 00-0993 EA	6" Pipe Saddle Support (Cooper B-Line B3095)	146.95	28.18
	23 05 29 00-0994 EA	8" Pipe Saddle Support (Cooper B-Line B3095)	168.64	35.22
	23 05 29 00-0995 EA	10" Pipe Saddle Support (Cooper B-Line B3095)	196.89	47.20
	23 05 29 00-0996 EA	12" Pipe Saddle Support (Cooper B-Line B3095)	249.02	70.45
23 05 29 00-0997	360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small>			
		Note: Insert is for use as isolated protective insulation at hangers.		
23 05 29 00-0998	1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-0999 EA	1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.74	8.53
	23 05 29 00-1000 EA	3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.01	8.53
	23 05 29 00-1001 EA	1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.08	8.53
	23 05 29 00-1002 EA	1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.35	8.53
	23 05 29 00-1003 EA	1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.69	9.06
	23 05 29 00-1004 EA	2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.58	9.33
	23 05 29 00-1005 EA	2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.60	9.72
	23 05 29 00-1006 EA	3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.70	10.11
	23 05 29 00-1007 EA	4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.53	10.50
	23 05 29 00-1008 EA	6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.08	9.06
	23 05 29 00-1009 EA	8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.18	11.82
	23 05 29 00-1010 EA	10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	46.28	13.92
	23 05 29 00-1011 EA	12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.92	16.15
	23 05 29 00-1012 EA	14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	58.86	16.68
23 05 29 00-1013	1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-1014 EA	1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.72	6.44
	23 05 29 00-1015 EA	3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.06	6.44
	23 05 29 00-1016 EA	1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.41	6.57
	23 05 29 00-1017 EA	1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.94	6.70
	23 05 29 00-1018 EA	1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.44	6.70
	23 05 29 00-1019 EA	2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.32	6.96
	23 05 29 00-1020 EA	2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.38	7.22
	23 05 29 00-1021 EA	3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.94	7.35
	23 05 29 00-1022 EA	4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.97	8.01
	23 05 29 00-1023 EA	6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	35.13	13.78
	23 05 29 00-1024 EA	8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.77	10.37
	23 05 29 00-1025 EA	10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.12	12.21
	23 05 29 00-1026 EA	12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	42.26	14.05
	23 05 29 00-1027 EA	14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	50.02	16.94
23 05 29 00-1028	2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-1029 EA	1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.09	7.35
	23 05 29 00-1030 EA	3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.31	7.35
	23 05 29 00-1031 EA	1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.96	7.49
	23 05 29 00-1032 EA	1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.53	7.62
	23 05 29 00-1033 EA	1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.13	7.75
	23 05 29 00-1034 EA	2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.02	8.01
	23 05 29 00-1035 EA	2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.23	8.27
	23 05 29 00-1036 EA	3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.38	8.53

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1037 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.85	9.06
23 05 29 00-1038 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.96	10.24
23 05 29 00-1039 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.01	17.47
23 05 29 00-1040 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.39	20.22
23 05 29 00-1041 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.49	23.90
23 05 29 00-1042 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	74.56	26.79
23 05 29 00-1043 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	83.42	30.20
23 05 29 00-1044 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.99	35.45
23 05 29 00-1045 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	106.60	39.40
23 05 29 00-1046 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	120.50	44.65
23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1048 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.19	8.53
23 05 29 00-1049 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.43	8.53
23 05 29 00-1050 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.23	8.66
23 05 29 00-1051 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.81	8.80
23 05 29 00-1052 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.40	8.80
23 05 29 00-1053 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	27.50	9.20
23 05 29 00-1054 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.87	9.46
23 05 29 00-1055 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.18	9.85
23 05 29 00-1056 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.97	10.37
23 05 29 00-1057 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.72	11.82
23 05 29 00-1058 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	48.30	13.13
23 05 29 00-1059 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.26	15.10
23 05 29 00-1060 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.37	18.77
23 05 29 00-1061 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	74.47	20.61
23 05 29 00-1062 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	89.30	26.26
23 05 29 00-1063 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.48	27.58
23 05 29 00-1064 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	108.56	31.52
23 05 29 00-1065 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	128.48	38.08
23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1067 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	44.48	8.80
23 05 29 00-1068 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.74	9.20
23 05 29 00-1069 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	54.64	9.20
23 05 29 00-1070 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	55.92	9.46
23 05 29 00-1071 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.40	9.72
23 05 29 00-1072 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	59.05	9.85
23 05 29 00-1073 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	62.08	10.11
23 05 29 00-1074 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	64.77	10.76
23 05 29 00-1075 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	71.17	11.16
23 05 29 00-1076 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	81.39	13.65
23 05 29 00-1077 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	104.01	14.97
23 05 29 00-1078 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	123.48	15.76
23 05 29 00-1079 EA 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	142.37	20.35
23 05 29 00-1080 EA 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	159.98	21.67
23 05 29 00-1081 EA 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	192.80	28.89
23 05 29 00-1082 EA 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	207.50	31.52
23 05 29 00-1083 EA 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	234.87	34.15
23 05 29 00-1084 EA 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	276.02	42.02
23 05 29 00-1085 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1086 EA 1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.19	8.53
23 05 29 00-1087 EA 3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.23	10.37
23 05 29 00-1088 EA 1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.32	10.37
23 05 29 00-1089 EA 1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.97	10.50
23 05 29 00-1090 EA 1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	31.79	10.63
23 05 29 00-1091 EA 2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.93	11.03
23 05 29 00-1092 EA 2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	34.62	11.43
23 05 29 00-1093 EA 3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	36.10	11.82
23 05 29 00-1094 EA 4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.60	12.48
23 05 29 00-1095 EA 6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	45.26	14.19
23 05 29 00-1096 EA 8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.93	15.76
23 05 29 00-1097 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	68.71	18.12
23 05 29 00-1098 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	79.63	22.59
23 05 29 00-1099 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	89.37	24.69
23 05 29 00-1100 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	107.16	31.52
23 05 29 00-1101 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	114.59	33.09
23 05 29 00-1102 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	130.33	37.82
23 05 29 00-1103 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	154.19	45.70



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1104				4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1105	EA			1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.59	11.56
23 05 29 00-1106	EA			3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.93	11.56
23 05 29 00-1107	EA			1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.04	11.69
23 05 29 00-1108	EA			1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.91	11.82
23 05 29 00-1109	EA			1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.52	11.82
23 05 29 00-1110	EA			2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.54	12.61
23 05 29 00-1111	EA			2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.92	12.74
23 05 29 00-1112	EA			3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.74	13.26
23 05 29 00-1113	EA			4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.53	14.05
23 05 29 00-1114	EA			6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.90	15.89
23 05 29 00-1115	EA			8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.19	17.20
23 05 29 00-1116	EA			10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.32	20.48
23 05 29 00-1117	EA			12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.61	25.47
23 05 29 00-1118	EA			14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	100.57	27.71
23 05 29 00-1119	EA			16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	120.63	35.45
23 05 29 00-1120	EA			18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	128.84	37.16
23 05 29 00-1121	EA			20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	145.17	42.55
23 05 29 00-1122	EA			24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	173.50	51.48
23 05 29 00-1123	EA			26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	198.88	60.54
23 05 29 00-1124	EA			28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	227.64	71.43
23 05 29 00-1125	EA			30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	259.41	84.44
23 05 29 00-1126	EA			42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	376.14	130.40
23 05 29 00-1127	EA			44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	406.71	143.53
23 05 29 00-1128	EA			46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	434.40	154.95
23 05 29 00-1129				Equipment Housekeeping Pads <small>(23 05 29)</small> See CSI section 03 31 13 00-0091 for Concrete Equipment Pads.		
23 05 29 00-1130				Molded Plastic Condenser Pad <small>(23 05 29 00-1129)</small>		
23 05 29 00-1131	EA			30" Round Molded Plastic Pad.....	123.42	17.61
23 05 29 00-1132	EA			30" Octagon Molded Plastic Pad.....	129.22	17.61
23 05 29 00-1133	EA			30" x 30" Molded Plastic Pad.....	123.42	17.61
23 05 29 00-1134	EA			36" x 36" Molded Plastic Pad.....	158.18	17.61
23 05 29 00-1135	EA			36" x 48" Molded Plastic Pad.....	223.23	17.61
23 05 29 00-1136				Inertia Base <small>(23 05 29 00-1129)</small> Note: Includes spring isolators.		
23 05 29 00-1137	EA			Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	1,694.76	
23 05 29 00-1138	EA			>12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	2,044.88	
23 05 29 00-1139	EA			>16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	2,342.05	
23 05 29 00-1140	EA			>20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	2,674.53	
23 05 29 00-1141				Hanger Assemblies <small>(23 05 29)</small> Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1142	EA			1/2" Standard Duty Clevis Pipe Hanger Assembly.....	58.70	21.90
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	14.09	
23 05 29 00-1143	EA			3/4" Standard Duty Clevis Pipe Hanger Assembly.....	61.30	23.20
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	14.87	
23 05 29 00-1144	EA			1" Standard Duty Clevis Pipe Hanger Assembly.....	63.31	24.54
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.45	
23 05 29 00-1145	EA			1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	64.44	24.57
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.68	
23 05 29 00-1146	EA			1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	64.75	24.57
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.68	
23 05 29 00-1147	EA			2" Standard Duty Clevis Pipe Hanger Assembly.....	66.13	24.77
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.91	
23 05 29 00-1148	EA			2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	70.92	24.20
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	14.79	
23 05 29 00-1149	EA			3" Standard Duty Clevis Pipe Hanger Assembly.....	73.25	24.90
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	15.02	
23 05 29 00-1150	EA			4" Standard Duty Clevis Pipe Hanger Assembly.....	87.96	28.11
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	16.59	
23 05 29 00-1151	EA			6" Standard Duty Clevis Pipe Hanger Assembly.....	129.53	36.32
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	21.79	
23 05 29 00-1152	EA			8" Standard Duty Clevis Pipe Hanger Assembly.....	151.37	42.14
				Note: Includes hanger, rod, nuts, washers and clamp.		
				<i>For Work In Restricted Working Space, Add</i>	25.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	207.63 31.71	53.52
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	229.26 34.62	57.60
23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)		
23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices	3.27	2.05
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices	4.26	2.56
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices	5.23	3.06
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices.....	7.20	3.81
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices	8.03	4.09
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices	10.71	4.59
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices	13.32	5.60
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices	17.20	6.56
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices	20.53	7.67
23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices	8.59	4.55
23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices	14.61	6.54
23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices	18.22	7.85
23 05 29 00-1170 LF C5 x 6.7, 5" Wide Channels For Hanger Devices	21.83	9.16
23 05 29 00-1171 LF C6 x 8.2, 6" Wide Channels For Hanger Devices	26.43	11.00
23 05 29 00-1172 LF C7 x 9.8, 7" Wide Channels For Hanger Devices	31.52	13.09
23 05 29 00-1173 LF C8 x 11.5, 8" Wide Channels For Hanger Devices	35.70	14.41
23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	9.65	6.40
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	11.61	7.57
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices	16.47	8.73
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	21.22	11.64
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices	28.97	13.96
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	36.33	18.04
23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	16.49	8.73
23 05 29 00-1183 LF 2-1/16" x 3" x 2-11/16" Structural Zee For Hanger Devices	19.71	8.73
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices	28.78	8.73
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices	36.27	8.73
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	44.09	8.73
23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices.....	20.63	12.81
23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices.....	23.68	13.96
23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices.....	27.28	15.13
23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices.....	29.82	16.88
23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices.....	35.32	18.04
23 05 29 00-1193 LF 8" I-beam (Junior) For Hanger Devices.....	38.23	19.20
23 05 33 Heat Tracing for HVAC Piping (23 05)		
See CSI section 23 83 13 00-0000 for heat tracing cables.		
23 05 48 Vibration and Seismic Controls for HVAC (23 05)		
23 05 48 13 Vibration Controls for HVAC (23 05 48)		
23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13)		
Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.		
23 05 48 13-0002 EA 60 LB Unhoused Steel Spring Isolator.....	115.55	39.43
23 05 48 13-0003 EA 115 LB Unhoused Steel Spring Isolator.....	121.52	39.43
23 05 48 13-0004 EA 1,130 LB Unhoused Steel Spring Isolator	141.32	39.43
23 05 48 13-0005 Housed Stable Steel Spring Isolators (23 05 48 13)		
Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.		
23 05 48 13-0006 EA To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	553.40	39.43
23 05 48 13-0007 EA To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	626.50	39.43
23 05 48 13-0008 EA To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	663.05	39.43
23 05 48 13-0009 EA To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	809.25	39.43
23 05 48 13-0010 EA To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	845.80	39.43
23 05 48 13-0011 EA To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	617.36	39.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0012 EA To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	681.33	39.43
23 05 48 13-0013 EA To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	727.01	39.43
23 05 48 13-0014 EA To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	937.17	39.43
23 05 48 13-0015 EA To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,019.41	39.43
23 05 48 13-0016 EA To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,211.30	39.43
23 05 48 13-0017 Vibration Isolators (23 05 48 13)		
23 05 48 13-0018 Spring And Rubber Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0019 EA 50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size	138.36	25.36
23 05 48 13-0020 EA 600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size	277.37	28.18
23 05 48 13-0021 Rubber-In-Shear Isolator Hanger (23 05 48 13-0017)		
23 05 48 13-0022 EA 45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size	80.75	21.14
23 05 48 13-0023 EA 130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size	103.53	25.36
23 05 48 13-0024 Spring Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0025 EA 50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size.....	92.32	25.36
23 05 48 13-0026 Rubber-In-Shear Vibration Isolator (23 05 48 13-0017)		
23 05 48 13-0027 EA 45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection	170.22	47.91
23 05 48 13-0028 EA 130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection	223.07	47.91
23 05 48 13-0029 EA 550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection	404.45	47.91
23 05 48 13-0030 Two-Piece Spring Type Vibration Isolator (23 05 48 13-0017)		
Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.		
23 05 48 13-0031 EA 50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	147.95	47.91
23 05 48 13-0032 EA >1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	151.89	47.91
23 05 48 13-0033 Open Double Spring Type Vibration Isolator (23 05 48 13-0017)		
Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.		
23 05 48 13-0034 EA 150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	107.78	23.95
23 05 48 13-0035 EA 500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	107.78	23.95
23 05 48 13-0036 EA 1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	120.91	23.95
23 05 48 13-0037 EA 1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	120.91	23.95
23 05 48 13-0038 EA 2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	180.29	23.95
23 05 48 13-0039 Isolation Pads (23 05 48 13-0017)		
23 05 48 13-0040 Laminated Neoprene And Cork Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0041 EA 2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	8.16	3.52
23 05 48 13-0042 EA 3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	10.03	3.66
23 05 48 13-0043 EA 4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	12.19	3.80
23 05 48 13-0044 EA 12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	42.81	4.37
23 05 48 13-0045 EA 18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	80.16	4.93
23 05 48 13-0046 Neoprene And Steel Plate Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0047 EA 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	82.32	3.52
23 05 48 13-0048 EA 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	90.62	3.52
23 05 48 13-0049 Neoprene Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0050 EA 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad.....	7.73	3.52
23 05 48 13-0051 EA 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad.....	8.64	3.52
23 05 48 13-0052 EA 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad.....	10.06	3.52
23 05 48 13-0053 EA 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad.....	42.15	4.23
23 05 48 13-0054 EA 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad.....	75.48	4.93
23 05 48 13-0055 Threaded Flexible Bronze Hose Connectors (23 05 48 13)		
Note: Includes hex threaded nipple ends.		
23 05 48 13-0056 EA 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	79.37	22.54
23 05 48 13-0057 EA 1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	95.17	30.99
23 05 48 13-0058 EA 3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	116.55	38.04
23 05 48 13-0059 EA 1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	136.10	45.09
23 05 48 13-0060 EA 1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	156.57	59.17
23 05 48 13-0061 EA 1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	176.76	62.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0062 EA 2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	234.67	74.67
23 05 48 13-0063 EA 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	319.37	116.37
23 05 48 13-0064 Weld End Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0065 EA 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends	288.16	80.87
23 05 48 13-0066 EA 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends	335.81	88.76
23 05 48 13-0067 EA 1" Diameter x 10" Flexible Hose Connection, Weld Ends	377.52	93.97
23 05 48 13-0068 EA 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends	422.48	107.08
23 05 48 13-0069 EA 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends	478.23	115.53
23 05 48 13-0070 EA 2" Diameter x 14" Flexible Hose Connection, Weld Ends	601.24	150.32
23 05 48 13-0071 EA 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends	893.79	169.07
23 05 48 13-0072 EA 3" Diameter x 16" Flexible Hose Connection, Weld Ends	1,100.18	190.20
23 05 48 13-0073 EA 4" Diameter x 18" Flexible Hose Connection, Weld Ends	1,526.02	281.78
23 05 48 13-0074 Flanged Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0075 Flanged Flexible Molded Rubber Hose Connectors (23 05 48 13-0074)		
Note: With helical wire reinforcement 150 PSI.		
23 05 48 13-0076 EA 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	241.59	105.67
23 05 48 13-0077 EA 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	262.46	117.36
23 05 48 13-0078 EA 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	442.77	234.44
23 05 48 13-0079 EA 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	622.97	348.71
23 05 48 13-0080 EA 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	808.96	450.14
23 05 48 13-0081 EA 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	990.47	468.09
23 05 48 13-0082 EA 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,191.74	534.62
23 05 48 13-0083 EA 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,522.97	636.23
23 05 48 13-0084 EA 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	3,937.74	795.75
23 05 48 13-0085 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 13-0074)		
Note: With braided metal wire.		
23 05 48 13-0086 EA 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	193.09	96.08
23 05 48 13-0087 EA 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	201.55	132.16
23 05 48 13-0088 EA 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	359.18	176.11
23 05 48 13-0089 EA 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	479.03	264.17
23 05 48 13-0090 EA 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	517.56	290.65
23 05 48 13-0091 EA 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	606.42	351.95
23 05 48 13-0092 EA 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	776.57	450.56
23 05 48 13-0093 EA 6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,053.72	560.58
23 05 48 13-0094 EA 8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,653.82	748.94
23 05 48 13-0095 EA 10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,940.90	866.03
23 05 48 13-0096 EA 12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,433.09	936.19
23 05 48 13-0097 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 13-0074)		
Note: 150 PSI.		
23 05 48 13-0098 EA 2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	955.94	204.29
23 05 48 13-0099 EA 3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,075.54	239.52
23 05 48 13-0100 EA 4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,643.27	402.55
23 05 48 13-0101 EA 6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,000.09	468.09
23 05 48 13-0102 EA 8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,600.32	574.19
23 05 48 13-0103 Flexible Hose Connectors Braided Metal Hose Type (23 05 48 13)		
23 05 48 13-0104 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)		
Note: MPT connection.		
23 05 48 13-0105 EA 1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	36.73	2.82
23 05 48 13-0106 EA 1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	43.58	2.82
23 05 48 13-0107 EA 1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	48.86	3.66
23 05 48 13-0108 EA 1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	58.96	3.66
23 05 48 13-0109 EA 3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	48.97	3.38
23 05 48 13-0110 EA 3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	58.75	3.38
23 05 48 13-0111 EA 3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	67.58	4.36
23 05 48 13-0112 EA 3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	82.81	4.36
23 05 48 13-0113 EA 1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	66.46	3.94
23 05 48 13-0114 EA 1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	72.46	3.94
23 05 48 13-0115 EA 1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	86.45	5.21
23 05 48 13-0116 EA 1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	108.73	5.21
23 05 48 13-0117 EA 1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	130.84	5.21
23 05 48 13-0118 EA 1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	153.02	5.21
23 05 48 13-0119 EA 1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	94.34	5.06
23 05 48 13-0120 EA 1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	103.69	5.06
23 05 48 13-0121 EA 1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	132.19	5.06
23 05 48 13-0122 EA 1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	183.61	6.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0123 EA 1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	212.33	6.74
23 05 48 13-0124 EA 1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	250.54	6.74
23 05 48 13-0125 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	128.68	6.10
23 05 48 13-0126 EA 2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	148.22	6.10
23 05 48 13-0127 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	186.07	6.10
23 05 48 13-0128 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	248.15	8.17
23 05 48 13-0129 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	305.83	8.17
23 05 48 13-0130 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	363.47	8.17
23 05 48 13-0131 EA 2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	177.95	7.65
23 05 48 13-0132 EA 2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	202.02	7.26
23 05 48 13-0133 EA 2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	226.34	7.26
23 05 48 13-0134 EA 2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	279.54	9.73
23 05 48 13-0135 EA 2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	328.43	9.73
23 05 48 13-0136 EA 2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	375.80	9.73
23 05 48 13-0137 EA 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	279.56	9.73
23 05 48 13-0138 EA 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	312.04	9.73
23 05 48 13-0139 EA 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	632.92	9.73
23 05 48 13-0140 EA 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	763.28	12.97
23 05 48 13-0141 EA 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	481.99	12.97
23 05 48 13-0142 EA 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	545.90	12.97
23 05 48 13-0143 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	505.62	10.38
23 05 48 13-0144 EA 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	543.57	10.38
23 05 48 13-0145 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	581.51	10.38
23 05 48 13-0146 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	665.69	13.83
23 05 48 13-0147 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	741.30	13.83
23 05 48 13-0148 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	818.52	13.83

23 05 48 13-0149

Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0103)

Note: Over braided carbon steel connection.

23 05 48 13-0150 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	152.64	6.17
23 05 48 13-0151 EA 2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	183.69	6.17
23 05 48 13-0152 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	214.15	6.17
23 05 48 13-0153 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	280.37	8.26
23 05 48 13-0154 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	342.12	8.26
23 05 48 13-0155 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	403.80	8.26
23 05 48 13-0156 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	173.20	7.26
23 05 48 13-0157 EA 2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	205.65	7.26
23 05 48 13-0158 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	238.25	7.26
23 05 48 13-0159 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	308.82	9.73
23 05 48 13-0160 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	373.74	9.73
23 05 48 13-0161 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	437.77	9.73
23 05 48 13-0162 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	184.95	9.73
23 05 48 13-0163 EA 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	222.12	9.98
23 05 48 13-0164 LF 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	259.83	9.73
23 05 48 13-0165 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	344.16	12.97
23 05 48 13-0166 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	419.15	12.97
23 05 48 13-0167 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	496.28	12.97
23 05 48 13-0168 EA 6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	372.53	18.89
23 05 48 13-0169 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	544.45	19.02
23 05 48 13-0170 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	729.91	25.06
23 05 48 13-0171 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	901.89	25.06
23 05 48 13-0172 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,073.83	25.06
23 05 48 13-0173 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	635.50	20.86
23 05 48 13-0174 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	765.56	20.86
23 05 48 13-0175 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,037.42	27.12

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0176 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,295.45	27.12
23 05 48 13-0177 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,553.40	27.12
23 05 48 13-0178 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	682.32	26.08
23 05 48 13-0179 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,007.50	26.08
23 05 48 13-0180 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,349.02	33.96
23 05 48 13-0181 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,675.34	33.96
23 05 48 13-0182 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,000.27	33.96
23 05 48 13-0183 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,345.24	31.53
23 05 48 13-0184 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,751.06	31.53
23 05 48 13-0185 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,191.89	42.43
23 05 48 13-0186 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,601.26	42.43
23 05 48 13-0187 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	3,012.55	42.43
23 05 48 13-0188 Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0103)</small>		
Note: Flanged end connection (carbon steel ends).		
23 05 48 13-0189 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	283.39	6.10
23 05 48 13-0190 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	602.48	172.86
23 05 48 13-0191 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	719.27	172.86
23 05 48 13-0192 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	836.06	172.86
23 05 48 13-0193 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	952.89	172.86
23 05 48 13-0194 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	581.67	220.45
23 05 48 13-0195 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	704.74	220.45
23 05 48 13-0196 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	827.85	220.45
23 05 48 13-0197 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	951.02	220.45
23 05 48 13-0198 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,072.02	220.45
23 05 48 13-0199 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	839.81	369.57
23 05 48 13-0200 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	983.46	370.50
23 05 48 13-0201 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,129.44	369.57
23 05 48 13-0202 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,292.67	369.57
23 05 48 13-0203 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,417.38	369.57
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,254.30	472.24
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,579.78	472.24
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,905.44	473.93
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,230.97	472.24
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,556.45	472.24
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,919.42	533.18
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,165.65	533.18
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,653.85	533.18
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,142.23	533.18
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,630.38	533.18
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,051.80	649.08
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,665.27	649.08
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,282.86	649.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,899.12	649.08
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,397.17	649.08
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,104.36	788.17
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,882.84	788.17
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,661.26	788.17
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	6,439.69	788.17
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	7,218.17	788.17

23 05 53 Identification for HVAC Piping and Equipment (23 05)

23 05 53 00-0001 Systems Identification (23 05 53)

23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)

Note: Outside diameters of insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....	19.43
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....	19.78
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....	19.97
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker.....	20.28
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker.....	22.94
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....	23.57
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker.....	34.89
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....	35.40
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker.....	35.94
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....	36.22
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker.....	36.52
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....	36.83
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....	38.45
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....	38.79
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....	46.56
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....	48.55
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....	56.23
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....	64.38

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Outside diameter includes insulation where necessary.

23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.07
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.77
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.19
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.47
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	20.91
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	21.34
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.37
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.93
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.35
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.79
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	26.66
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	27.61
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	28.44
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	29.26
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	32.60
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	34.15
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	40.08

23 05 53 00-0039 Valve Identification Tag (23 05 53 00-0001)

Note: Includes beaded chain and/or "S" hook.

23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass.....	13.45
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic.....	12.84
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass.....	12.66

23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment (23 05)

23 05 66 00-0001 Double Ended Ultraviolet HVAC Microbial Control Fixtures (23 05 66)

23 05 66 00-0002 EA 18" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-181-VO).....	928.32	91.26
Note: Includes tube.		
23 05 66 00-0003 EA 24" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-241-VO).....	969.23	95.78
Note: Includes tube.		
23 05 66 00-0004 EA 30" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-301-VO).....	973.02	99.89
Note: Includes tube.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0005	EA		36" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-361-VO)..... Note: Includes tube.	1,018.44	104.95
23 05 66 00-0006	EA		42" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-421-VO)..... Note: Includes tube.	1,101.08	109.46
23 05 66 00-0007	EA		62" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-621-VO)..... Note: Includes tube.	952.93	112.88
23 05 66 00-0008			Single Ended Ultraviolet HVAC Microbial Control Fixtures <small>(23 05 66)</small>		
23 05 66 00-0009	EA		12" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-121-VO) Note: Includes tube.	785.27	63.21
23 05 66 00-0010	EA		16" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-161-VO) Note: Includes tube.	797.36	68.41
23 05 66 00-0011	EA		20" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-201-VO) Note: Includes tube.	819.95	72.52
23 05 66 00-0012	EA		24" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-241-VO) Note: Includes tube.	831.30	77.99
23 05 66 00-0013	EA		30" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-301-VO) Note: Includes tube.	854.63	82.10
23 05 66 00-0014	EA		36" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-361-VO) Note: Includes tube.	871.97	86.20
23 05 66 00-0015	EA		42" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-421-VO) Note: Includes tube.	894.57	91.67
23 05 66 00-0016	EA		12" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-121-VO) Note: Includes tube.	891.05	63.21
23 05 66 00-0017	EA		16" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-161-VO) Note: Includes tube.	903.14	68.41
23 05 66 00-0018	EA		20" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-201-VO) Note: Includes tube.	925.73	72.52
23 05 66 00-0019	EA		24" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-241-VO) Note: Includes tube.	937.08	77.99
23 05 66 00-0020	EA		30" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-301-VO) Note: Includes tube.	960.41	82.10
23 05 66 00-0021	EA		36" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-361-VO) Note: Includes tube.	977.75	86.20
23 05 66 00-0022	EA		42" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-421-VO) Note: Includes tube.	1,000.35	91.67
23 05 66 00-0023	EA		16" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-161-VO) Note: Includes tube.	631.76	68.41
23 05 66 00-0024	EA		20" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-201-VO) Note: Includes tube.	654.35	72.52
23 05 66 00-0025	EA		24" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-241-VO) Note: Includes tube.	665.70	77.99
23 05 66 00-0026	EA		30" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-301-VO) Note: Includes tube.	689.03	82.10
23 05 66 00-0027	EA		36" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-361-VO) Note: Includes tube.	706.37	86.20
23 05 66 00-0028	EA		42" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-421-VO) Note: Includes tube.	728.97	91.67
23 05 66 00-0029			Fan Coil Unit Ultraviolet Microbial Control Fixtures <small>(23 05 66)</small>		
23 05 66 00-0030	EA		16" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	579.20	87.57
23 05 66 00-0031	EA		20" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	592.62	91.67
23 05 66 00-0032	EA		24" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	606.03	95.78
23 05 66 00-0033	EA		30" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	623.69	99.89
23 05 66 00-0034	EA		36" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	646.24	104.95
23 05 66 00-0035	EA		42" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	666.22	109.46
23 05 66 00-0036			Ultraviolet HVAC Microbial Control Replacement Parts <small>(23 05 66)</small>		
23 05 66 00-0037	EA		18" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-16-VO).....	153.09	
23 05 66 00-0038	EA		24" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-22-VO).....	160.90	
23 05 66 00-0039	EA		30" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-28-VO).....	182.34	
23 05 66 00-0040	EA		36" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-34-VO).....	209.88	
23 05 66 00-0041	EA		42" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-40-VO).....	238.01	
23 05 66 00-0042	EA		62" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-60-VO).....	221.25	
23 05 66 00-0043	EA		12" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-12-VO).....	124.60	
23 05 66 00-0044	EA		16" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-16-VO).....	131.22	
23 05 66 00-0045	EA		20" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-20-VO).....	148.33	
23 05 66 00-0046	EA		24" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-24-VO).....	154.21	
23 05 66 00-0047	EA		30" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-30-VO).....	172.08	
23 05 66 00-0048	EA		36" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-36-VO).....	183.94	
23 05 66 00-0049	EA		42" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-42-VO).....	201.07	
23 05 66 00-0050	EA		Removal And Replacement Of Power Supply For Ultraviolet Microbial Control Fixture (Steril-Aire).....	443.17	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0051	Ultraviolet HVAC Microbial Control Mounting Accessories <small>(23 05 66)</small>			
23 05 66 00-0052	EA	Two Spring Clip, 61" Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006610)..... Note: Includes 61" emitter, power supply, wires and connectors.	613.23	
23 05 66 00-0053	EA	Two Spring Clip, 61" Sleeved Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006620)..... Note: Includes 61" emitter, power supply, wires and connectors.	771.44	
23 05 66 00-0054	EA	Two Spring Clip, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-1)..... Note: Includes power supply, wires and connectors. Excludes emitter.	369.70	
23 05 66 00-0055	EA	Two Short Hook Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-2)..... Note: Includes power supply, wires and connectors. Excludes emitter.	389.07	
23 05 66 00-0056	EA	Flat Plate For Metal, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-3)..... Note: Includes power supply, wires and connectors. Excludes emitter.	474.89	
23 05 66 00-0057	EA	Flat Plate For Plastic, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-4)..... Note: Includes power supply, wires and connectors. Excludes emitter.	304.81	
23 05 66 00-0058	EA	Insert Lamp Holder, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-5)..... Note: Includes power supply, wires and connectors. Excludes emitter.	328.64	
23 05 66 00-0059	EA	16" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-6)..... Note: Includes power supply, wires and connectors. Excludes emitter.	435.59	
23 05 66 00-0060	EA	12" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-7)..... Note: Includes power supply, wires and connectors. Excludes emitter.	430.09	
23 05 66 00-0061	LF	30 x 30 mm Framing Structure For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000101).....	16.35	
23 05 66 00-0062	EA	Vertical Support Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000111).....	56.16	
23 05 66 00-0063	EA	Joint Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000112).....	20.32	
23 05 66 00-0064	EA	Emitter Mounting Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000113).....	19.36	
23 05 66 00-0065	EA	Foundation Bracket FB 8WA For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000104).....	52.23	
23 05 66 00-0066	EA	Slider Assembly Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000114).....	57.76	
23 05 66 00-0067	EA	Splice Kit For Horizontal Rows For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000108).....	51.65	
23 05 66 00-0068	EA	Gusset Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000115).....	42.49	
23 05 66 00-0069	EA	ISO "A" Bracket Hanger For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000109).....	40.31	
23 05 66 00-0070	EA	DE Boot Kit UV Resistant For 1 DE Fixture For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000223).....	23.20	
23 05 66 00-0071	EA	DE Wiring Kit For Up To 65" (DE Bank Install) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000603).....	44.93	
23 05 66 00-0072	EA	Cleaning Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000100).....	23.29	
23 05 66 00-0073	EA	480 To 220 Volt AC / 180 VA Step-Down Transformer For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000503).....	86.09	
23 05 66 00-0074	EA	Interlock Switch (16 Amps At 125 Volt, 10 Amperes At 250 Volt Maximum Ampacity) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000120).....	90.19	
23 05 93	Testing, Adjusting, and Balancing for HVAC <small>(23 05)</small>			
		Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.		
23 05 93 00-0001	Heating And Ventilating Equipment <small>(23 05 93)</small>			
23 05 93 00-0002	EA	Balancing Centrifugal Fans..... <i>For Testing Of Unit Without Balancing, Deduct</i>	560.63 -280.32	
23 05 93 00-0003	EA	Balancing Heating And Ventilating Units..... <i>For Testing Of Unit Without Balancing, Deduct</i>	700.51 -350.26	
23 05 93 00-0004	EA	Balancing In Line Fan..... <i>For Testing Of Unit Without Balancing, Deduct</i>	630.70 -315.35	
23 05 93 00-0005	EA	Balancing Propeller And Wall Fan..... <i>For Testing Of Unit Without Balancing, Deduct</i>	140.15 -70.08	
23 05 93 00-0006	EA	Balancing Roof Exhaust Fan..... <i>For Testing Of Unit Without Balancing, Deduct</i>	420.44 -210.22	
23 05 93 00-0007	EA	Balancing Wall Fan..... <i>For Testing Of Unit Without Balancing, Deduct</i>	105.09 -52.55	
23 05 93 00-0008	EA	Balancing Fan Section Exhaust..... <i>For Testing Of Unit Without Balancing, Deduct</i>	559.73 -279.87	
23 05 93 00-0009	Air Conditioning Equipment <small>(23 05 93)</small>			
23 05 93 00-0010	EA	Balancing Constant Volume Air Handling Unit..... <i>For Testing Of Unit Without Balancing, Deduct</i>	1,037.87 -518.94	
23 05 93 00-0011	EA	Balancing Package A/C Unit..... <i>For Testing Of Unit Without Balancing, Deduct</i>	389.20 -194.60	
23 05 93 00-0012	EA	Balancing Rooftop Heat And Cool Unit..... <i>For Testing Of Unit Without Balancing, Deduct</i>	518.94 -259.47	
23 05 93 00-0013	EA	Balancing Variable Volume Air Handling Unit..... <i>For Testing Of Unit Without Balancing, Deduct</i>	1,816.27 -908.14	
23 05 93 00-0014	Registers, Diffusers, Terminal Air Units And Dampers <small>(23 05 93)</small>			
23 05 93 00-0015	EA	Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser..... <i>For Testing Of Unit Without Balancing, Deduct</i>	105.11 -52.56	
23 05 93 00-0016	EA	Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser..... <i>For Testing Of Unit Without Balancing, Deduct</i>	175.20 -87.60	
23 05 93 00-0017	EA	Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser..... <i>For Testing Of Unit Without Balancing, Deduct</i>	91.10 -45.55	
23 05 93 00-0018	EA	Balance Variable Air Volume Box..... <i>For Testing Of Unit Without Balancing, Deduct</i>	98.70 -49.35	
23 05 93 00-0019	EA	Balance Constant Volume Box..... <i>For Testing Of Unit Without Balancing, Deduct</i>	98.70 -49.35	
23 05 93 00-0020	EA	Balance Fan Powered Box..... <i>For Testing Of Unit Without Balancing, Deduct</i>	112.12 -56.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0021 EA Balance Lab Fume Hood	455.52	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-227.76	
23 05 93 00-0022 EA Balance General Hood	350.39	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-175.20	
23 05 93 00-0023 EA Balance Induction Unit	210.25	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-105.13	
23 05 93 00-0024 EA Balance Moduline - Master	84.07	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-42.04	
23 05 93 00-0025 EA Balance Moduline - Slave	42.05	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-21.03	
23 05 93 00-0026 EA Balance Dampers	39.04	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-19.52	
23 05 93 00-0027 EA Balance Regenerators	559.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-279.87	
23 05 93 00-0028 Water Balancing Of Components (23 05 93)		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser	713.60	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-356.80	
23 05 93 00-0030 EA Water Balance, Cabinet Heater	90.82	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.41	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled	778.34	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-389.17	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled	1,037.87	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-518.94	
23 05 93 00-0033 EA Water Balance, Cooling Tower	518.94	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-259.47	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent	129.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-64.91	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel	129.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-64.87	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil	142.71	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-71.36	
23 05 93 00-0037 EA Water Balance, Pumps	389.22	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.61	
23 05 93 00-0038 EA Water Balance, Unit Heater	90.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.41	
23 05 93 00-0039 EA Water Balancing, Converter	389.36	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.68	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves	64.85	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-32.43	
23 05 93 00-0041 EA Water Balance, Convactor	77.83	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-38.92	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves	97.30	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-48.65	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH	843.27	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-421.64	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler	1,556.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-778.41	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler	2,854.15	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-1,427.08	
23 05 93 00-0046 Non Destructive Testing (23 05 93)		
23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0048 Minimum Charge For X-Ray Welds (23 05 93 00-0047)		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge	943.34	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 05 93 00-0050 Piping, X-Ray Welds, Non Destructive Testing (23 05 93 00-0047)		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing	105.63	
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non Destructive Testing	120.29	
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing	134.96	
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non Destructive Testing	142.60	
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non Destructive Testing	150.23	
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non Destructive Testing	158.43	
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non Destructive Testing	173.69	
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non Destructive Testing	188.95	
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non Destructive Testing	197.16	
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non Destructive Testing	205.37	
23 05 93 00-0061 Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0061)		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing	118.90	
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non Destructive Testing	125.94	
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	132.98	
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	136.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 93 00-0067	EA		3" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	141.79	
	23 05 93 00-0068	EA		4" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	147.08	
	23 05 93 00-0069	EA		6" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	157.64	
	23 05 93 00-0070	EA		8" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	168.20	
	23 05 93 00-0071	EA		10" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	178.78	
	23 05 93 00-0072	EA		12" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	189.34	
23 05 93 00-0073				Hydrostatic Testing <small>(23 05 93 00-0046)</small>		
				Note: Includes flushing and restoring of system.		
23 05 93 00-0074				Piping, Hydrostatic Testing <small>(23 05 93 00-0073)</small>		
	23 05 93 00-0075	EA		Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing.....	926.91	
	23 05 93 00-0076	EA		>100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,324.15	
	23 05 93 00-0077	EA		>250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,586.59	
	23 05 93 00-0078	EA		>500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing.....	2,113.35	
	23 05 93 00-0079	EA		>1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing.....	3,202.03	
	23 05 93 00-0080	EA		Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing.....	1,232.42	
	23 05 93 00-0081	EA		>100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing.....	1,761.12	
	23 05 93 00-0082	EA		>250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing.....	2,096.57	
	23 05 93 00-0083	EA		>500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....	2,747.32	
	23 05 93 00-0084	EA		>1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....	4,156.23	
	23 05 93 00-0085	EA		Up To 100', >4" To 10" Piping, Hydrostatic Testing.....	1,606.14	
	23 05 93 00-0086	EA		>100' To 250', >4" To 10" Piping, Hydrostatic Testing.....	2,289.46	
	23 05 93 00-0087	EA		>250' To 500', >4" To 10" Piping, Hydrostatic Testing.....	2,415.35	
	23 05 93 00-0088	EA		>500' To 1,000', >4" To 10" Piping, Hydrostatic Testing.....	3,164.30	
	23 05 93 00-0089	EA		>1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing.....	4,786.99	
	23 05 93 00-0090	EA		Up To 100', >10" To 14" Piping, Hydrostatic Testing.....	2,085.17	
	23 05 93 00-0091	EA		>100' To 250', >10" To 14" Piping, Hydrostatic Testing.....	2,972.76	
	23 05 93 00-0092	EA		>250' To 500', >10" To 14" Piping, Hydrostatic Testing.....	3,140.57	
	23 05 93 00-0093	EA		>500' To 1,000', >10" To 14" Piping, Hydrostatic Testing.....	4,119.19	
	23 05 93 00-0094	EA		>1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing.....	6,241.21	
23 05 93 00-0095				Pneumatic Testing <small>(23 05 93 00-0046)</small>		
				Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
23 05 93 00-0096				Piping, Pneumatic Testing <small>(23 05 93 00-0095)</small>		
	23 05 93 00-0097	EA		Up To 100', Up To 1-1/2" Piping, Pneumatic Testing.....	1,054.01	
				Note: Includes soaping joints.		
	23 05 93 00-0098	EA		>100' To 250', Up To 1-1/2" Piping, Pneumatic Testing.....	1,504.00	
				Note: Includes soaping joints.		
	23 05 93 00-0099	EA		>250' To 500', Up To 1-1/2" Piping, Pneumatic Testing.....	1,624.33	
				Note: Includes soaping joints.		
	23 05 93 00-0100	EA		>500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing.....	2,080.40	
				Note: Includes soaping joints.		
	23 05 93 00-0101	EA		>1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing.....	3,253.98	
				Note: Includes soaping joints.		
	23 05 93 00-0102	EA		Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing.....	1,375.34	
				Note: Includes soaping joints.		
	23 05 93 00-0103	EA		>100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing.....	1,952.98	
				Note: Includes soaping joints.		
	23 05 93 00-0104	EA		>250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing.....	2,111.48	
				Note: Includes soaping joints.		
	23 05 93 00-0105	EA		>500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing.....	2,705.10	
				Note: Includes soaping joints.		
	23 05 93 00-0106	EA		>1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing.....	4,229.61	
				Note: Includes soaping joints.		
	23 05 93 00-0107	EA		Up To 100', >4" To 10" Piping, Pneumatic Testing.....	1,656.08	
				Note: Includes soaping joints.		
	23 05 93 00-0108	EA		>100' To 250', >4" To 10" Piping, Pneumatic Testing.....	2,337.19	
				Note: Includes soaping joints.		
	23 05 93 00-0109	EA		>250' To 500', >4" To 10" Piping, Pneumatic Testing.....	2,643.99	
				Note: Includes soaping joints.		
	23 05 93 00-0110	EA		>500' To 1,000', >4" To 10" Piping, Pneumatic Testing.....	3,378.17	
				Note: Includes soaping joints.		
	23 05 93 00-0111	EA		>1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing.....	5,289.70	
				Note: Includes soaping joints.		
	23 05 93 00-0112	EA		Up To 100', >10" To 14" Piping, Pneumatic Testing.....	2,156.36	
				Note: Includes soaping joints.		
	23 05 93 00-0113	EA		>100' To 250', >10" To 14" Piping, Pneumatic Testing.....	3,038.54	
				Note: Includes soaping joints.		
	23 05 93 00-0114	EA		>250' To 500', >10" To 14" Piping, Pneumatic Testing.....	3,438.20	
				Note: Includes soaping joints.		
	23 05 93 00-0115	EA		>500' To 1,000', >10" To 14" Piping, Pneumatic Testing.....	4,392.45	
				Note: Includes soaping joints.		
	23 05 93 00-0116	EA		>1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing.....	6,887.59	
				Note: Includes soaping joints.		
23 05 93 00-0117				EPA Testing Of Sludge <small>(23 05 93)</small>		
	23 05 93 00-0118	EA		Flashpoint And Lead Test For Lead.....	890.27	
	23 05 93 00-0119	EA		Air Test/Combustion Gas Level.....	96.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	1,364.54	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water.....	1,036.65	

23 07 HVAC Insulation (23)**23 07 13 Duct Insulation (23 07)**

Note: Based on SF surface area of duct to receive insulation.

23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight. See CSI section 23 33 53 00-0000 for internal duct insulation.

23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.12	2.63
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.25	
<i>For Work In Restricted Working Space, Add</i>	1.05	
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.81	2.63
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.23	
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.47	3.94
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.31	
<i>For Work In Restricted Working Space, Add</i>	1.41	
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.44	4.60
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.38	
<i>For Work In Restricted Working Space, Add</i>	1.64	
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	7.43	4.99
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.61	
<i>For Work In Restricted Working Space, Add</i>	1.77	

23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.09	3.94
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.31	
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.92	4.60
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.35	
<i>For Work In Restricted Working Space, Add</i>	1.52	
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation.....	7.00	5.25
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.41	
<i>For Work In Restricted Working Space, Add</i>	1.79	

23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.48	5.25
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.48	
<i>For Work In Restricted Working Space, Add</i>	1.58	
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	8.13	5.91
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.84	
<i>For Work In Restricted Working Space, Add</i>	1.81	
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	9.49	6.57
<i>For Plain Blanket, With No Facing, Deduct</i>	-1.00	
<i>For Work In Restricted Working Space, Add</i>	2.10	

23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.

23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation.....	12.24	6.87
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	28.39	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	20.99	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	17.31	
<i>For Work In Restricted Working Space, Add</i>	3.50	
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation.....	15.55	8.36
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	35.01	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	26.19	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	21.53	
<i>For Work In Restricted Working Space, Add</i>	4.26	
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation.....	19.26	10.09
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	42.59	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	32.10	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	26.32	
<i>For Work In Restricted Working Space, Add</i>	5.14	

23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.

23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation.....	13.69	7.57
<i>For Work In Restricted Working Space, Add</i>	3.85	
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation.....	17.53	9.20
<i>For Work In Restricted Working Space, Add</i>	4.68	
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation.....	22.21	11.11
<i>For Work In Restricted Working Space, Add</i>	5.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0024 Sheet Flexible Elastomeric Insulation <small>(23 07 13)</small>		
23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation	9.39	3.54
23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation	10.01	3.74
23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation	12.87	3.94
23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation	14.72	4.13
23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation	20.07	4.53
23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation	23.62	4.92
23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small>		
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	13.48	3.74
23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	14.78	3.94
23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	16.39	4.13
23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	25.05	4.53
23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	29.57	4.92
23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small>		
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	15.95	3.74
23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	17.25	3.94
23 07 13 00-0040 SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	19.29	4.13
23 07 13 00-0041 SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	27.92	4.53
23 07 16 HVAC Equipment Insulation <small>(23 07)</small>		
23 07 16 00-0001 Calcium Silicate Block Insulation <small>(23 07 16)</small>		
23 07 16 00-0002 SF 1" Thick, Calcium Silicate Block Insulation	19.60	8.26
<i>For Work In Restricted Working Space, Add</i>		
	4.96	
23 07 16 00-0003 SF 1-1/2" Thick, Calcium Silicate Block Insulation	23.21	9.29
<i>For Work In Restricted Working Space, Add</i>		
	5.58	
23 07 16 00-0004 SF 2" Thick, Calcium Silicate Block Insulation	27.67	10.72
<i>For Work In Restricted Working Space, Add</i>		
	6.45	
23 07 16 00-0005 SF 2-1/2" Thick, Calcium Silicate Block Insulation	32.87	12.58
<i>For Work In Restricted Working Space, Add</i>		
	7.55	
23 07 16 00-0006 SF 3" Thick, Calcium Silicate Block Insulation	40.21	15.49
<i>For Work In Restricted Working Space, Add</i>		
	9.29	
23 07 19 HVAC Piping Insulation <small>(23 07)</small>		
See CSI section 22 07 19 00-0000 for pipe insulation.		
23 07 19 00-0001 Calcium Silicate Pipe Insulation <small>(23 07 19)</small>		
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-00594 for protective jacketing.		
23 07 19 00-0002 1" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0003 LF 1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.55	4.32
<i>For Work In Restricted Working Space, Add</i>		
	3.24	
23 07 19 00-0004 LF 3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.55	4.32
<i>For Work In Restricted Working Space, Add</i>		
	3.24	
23 07 19 00-0005 LF 1" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.51	4.38
<i>For Work In Restricted Working Space, Add</i>		
	3.29	
23 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.74	4.44
<i>For Work In Restricted Working Space, Add</i>		
	3.33	
23 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.94	4.51
<i>For Work In Restricted Working Space, Add</i>		
	3.38	
23 07 19 00-0008 LF 2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	16.97	4.63
<i>For Work In Restricted Working Space, Add</i>		
	3.47	
23 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.73	4.82
<i>For Work In Restricted Working Space, Add</i>		
	3.61	
23 07 19 00-0010 LF 3" Diameter Pipe, 1" Thick Calcium Silicate Insulation	18.48	4.94
<i>For Work In Restricted Working Space, Add</i>		
	3.71	
23 07 19 00-0011 LF 4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	20.96	5.31
<i>For Work In Restricted Working Space, Add</i>		
	3.99	
23 07 19 00-0012 LF 6" Diameter Pipe, 1" Thick Calcium Silicate Insulation	23.37	6.00
<i>For Work In Restricted Working Space, Add</i>		
	4.50	
23 07 19 00-0013 1-1/2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0014 LF 1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.27	4.50
<i>For Work In Restricted Working Space, Add</i>		
	3.37	
23 07 19 00-0015 LF 3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.35	4.50
<i>For Work In Restricted Working Space, Add</i>		
	3.37	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0016 LF 1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.49 3.57	4.77
23 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.14 3.64	4.85
23 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.81 3.71	4.94
23 07 19 00-0019 LF 2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.15 3.91	5.21
23 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.03 3.98	5.30
23 07 19 00-0021 LF 3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.83 4.11	5.48
23 07 19 00-0022 LF 4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.23 4.45	5.93
23 07 19 00-0023 LF 6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.11 5.19	6.92
23 07 19 00-0024 LF 8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.60 5.48	7.30
23 07 19 00-0025 LF 10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.83 6.56	8.74
23 07 19 00-0026 LF 12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	47.97 7.64	10.18
23 07 19 00-0027 LF 14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	53.34 8.37	11.16
23 07 19 00-0028 LF 16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	63.99 10.66	14.21
23 07 19 00-0029 LF 18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.77 11.19	14.92
23 07 19 00-0030 2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0031 LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.30 3.71	4.94
23 07 19 00-0032 LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.73 3.71	4.94
23 07 19 00-0033 LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.34 3.75	5.00
23 07 19 00-0034 LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.13 3.80	5.06
23 07 19 00-0035 LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.69 3.85	5.13
23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.65 3.99	5.31
23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.22 4.13	5.50
23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.74 4.27	5.69
23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	29.48 4.50	6.01
23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.05 5.40	7.20
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.50 5.70	7.60
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.75 6.83	9.09
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.24 8.17	10.90
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	70.99 11.40	15.20
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	74.36 11.40	15.20
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.57 11.97	15.96
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	94.46 13.68	18.24
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	110.39 16.53	22.04
23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.25 4.28	5.69
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.70 4.28	5.69
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.12 4.34	5.78
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.35 4.37	5.84
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.95 4.41	5.88
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.05 4.59	6.12
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.16 4.75	6.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.71 4.91	6.55
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.16 5.18	6.91
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.42 5.89	7.85
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.46 6.56	8.75
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	58.91 7.57	10.09
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.92 9.41	12.55
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	76.15 10.28	13.70
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	92.86 13.13	17.51
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	98.02 13.79	18.38
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	113.57 15.76	21.02
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	133.76 19.04	25.38
 23 07 19 00-0068 3" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.17 4.73	6.31
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.27 4.73	6.31
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.55 4.78	6.37
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.86 4.81	6.41
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	31.15 4.86	6.48
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.22 5.04	6.72
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.51 5.21	6.95
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.27 5.40	7.20
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	42.35 5.70	7.61
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	50.06 6.48	8.63
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.97 7.22	9.62
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.70 8.33	11.11
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.81 10.35	13.80
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	88.48 11.30	15.07
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	104.27 14.44	19.26
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	112.18 15.17	20.22
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	131.11 17.34	23.12
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	155.35 20.95	27.93
 23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	37.94 5.18	6.91
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.24 5.18	6.91
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.35 5.21	6.95
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.47 5.25	7.00
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.66 5.32	7.09
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.04 5.49	7.32
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.58 5.69	7.59
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.24 5.89	7.86
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	54.65 6.23	8.30
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	61.04 7.07	9.43

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	73.89 7.87	10.49
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	89.50 9.08	12.11
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	108.54 11.30	15.06
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	114.61 12.33	16.44
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	134.48 15.76	21.01
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	153.53 16.55	22.06
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	166.33 18.92	25.23
23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.95 5.76	7.68
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.99 5.76	7.68
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	47.32 5.86	7.81
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.56 5.92	7.90
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	51.33 6.11	8.15
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	52.44 6.30	8.40
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	56.97 6.40	8.53
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	58.65 6.63	8.84
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	66.26 7.00	9.34
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	76.55 7.94	10.59
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	90.84 8.86	11.81
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	104.62 10.23	13.64
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	119.78 12.71	16.94
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	127.62 13.88	18.50
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	151.91 17.75	23.66
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	161.39 18.59	24.79
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	179.03 21.28	28.37
23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) <i>For Work In Restricted Working Space, Add</i>	5.97 1.22	
23 08 Commissioning of HVAC (23)		
See CSI section 23 05 93 00-0000 for testing and balancing.		
23 09 Instrumentation and Control for HVAC (23)		
23 09 23 Direct-Digital Control System for HVAC (23 09)		
23 09 23 11 Control Valves (23 09 23)		
23 09 23 11-0001 Valves With Actuator (23 09 23 11)		
23 09 23 11-0002 EA 1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G215+NV24-MFT US).....	671.97	18.18
23 09 23 11-0003 EA 3/4" 2-Way Bronze Globe Valve With Actuator (Belimo G220+NV24-MFT US).....	698.04	24.51
23 09 23 11-0004 EA 1" 2-Way Bronze Globe Valve With Actuator (Belimo B225+NV24-MFT US).....	765.54	29.66
23 09 23 11-0005 EA 1-1/4" 2-Way Bronze Globe Valve With Actuator (Belimo B232+NV24-MFT US).....	838.23	37.57
23 09 23 11-0006 EA 1-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G240+NV24-MFT US).....	955.12	43.35
23 09 23 11-0007 EA 2" 2-Way Bronze Globe Valve With Actuator (Belimo G250+NV24-MFT US).....	1,080.69	51.23
23 09 23 11-0008 EA 2-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G665+GMX24-MFTX1).....	2,024.76	102.46
23 09 23 11-0009 EA 3" 2-Way Bronze Globe Valve With Actuator (Belimo G680+GMX24-MFTX1).....	2,199.82	119.90
23 09 23 11-0010 EA 4" 2-Way Bronze Globe Valve With Actuator (Belimo G6100C+GMX24-MFTX1).....	2,977.10	176.11
23 09 23 11-0011 EA 5" 2-Way Bronze Globe Valve With Actuator (Belimo G6125C+GMX24-MFTX1).....	4,376.63	254.51
23 09 23 11-0012 EA 6" 2-Way Bronze Globe Valve With Actuator (Belimo G6150C+GMX24-MFTX1).....	4,847.69	281.78
23 09 23 11-0013 EA 1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G315+NV24-MFT US).....	727.14	27.27
23 09 23 11-0014 EA 3/4" 3-Way Bronze Globe Valve With Actuator (Belimo G320+NV24-MFT US).....	754.26	36.76
23 09 23 11-0015 EA 1" 3-Way Bronze Globe Valve With Actuator (Belimo G325+NV24-MFT US).....	819.69	44.49



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 11-0016	EA			1-1/4" 3-Way Bronze Globe Valve With Actuator (Belimo G332+NV24-MFT US).....	912.53	56.36
23 09 23 11-0017	EA			1-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G340+NV24-MFT US).....	1,168.07	65.03
23 09 23 11-0018	EA			2" 3-Way Bronze Globe Valve With Actuator (Belimo G350+NV24-MFT US).....	1,298.34	76.85
23 09 23 11-0019	EA			2-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G765+GMX24-MFTX1).....	2,303.08	153.70
23 09 23 11-0020	EA			3" 3-Way Bronze Globe Valve With Actuator (Belimo G780+GMX24-MFTX1).....	2,537.49	179.86
23 09 23 11-0021	EA			4" 3-Way Bronze Globe Valve With Actuator (Belimo G7100+2"GMX24-MFTX1).....	3,693.94	264.17
23 09 23 11-0022	EA			5" 3-Way Bronze Globe Valve With Actuator (Belimo G7125+2"GMX24-MFTX1).....	5,357.16	381.76
23 09 23 11-0023	EA			6" 3-Way Bronze Globe Valve With Actuator (Belimo G7150+2"GMX24-MFTX1).....	5,954.49	422.67
23 09 23 11-0024	EA			1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE215N-35+ZONE24NC).....	125.20	18.18
23 09 23 11-0025	EA			3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE220N-50+ZONE24NC).....	149.95	24.51
23 09 23 11-0026	EA			1" Two Way Brass Zone Valve With Actuator (Belimo ZONE225N-80+ZONE24NC).....	188.01	29.66
23 09 23 11-0027	EA			1 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE315N-35+ZONE24NC).....	156.88	27.27
23 09 23 11-0028	EA			3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE320N-50+ZONE24NC).....	186.98	36.76
23 09 23 11-0029	EA			1" Two Way Brass Zone Valve With Actuator (Belimo ZONE325N-80+ZONE24NC).....	232.76	44.49
23 09 23 11-0030	EA			1/2" 2-Way Brass Ball Valve With Actuator (Belimo B215B+LRB24-3).....	199.38	18.18
23 09 23 11-0031	EA			3/4" 2-Way Brass Ball Valve With Actuator (Belimo B220B+LRB24-3).....	238.55	24.51
23 09 23 11-0032	EA			1" 2-Way Brass Ball Valve With Actuator (Belimo B225+LRB24-3).....	272.68	29.66
23 09 23 11-0033	EA			1-1/4" 2-Way Brass Ball Valve With Actuator (Belimo B232+ARB24-3).....	354.02	37.57
23 09 23 11-0034	EA			1-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B240+ARB24-3).....	369.52	43.35
23 09 23 11-0035	EA			2" 2-Way Brass Ball Valve With Actuator (Belimo B250+ARB24-3).....	467.79	51.23
23 09 23 11-0036	EA			2-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B265+ARB24-3).....	999.27	102.46
23 09 23 11-0037	EA			3" 2-Way Brass Ball Valve With Actuator (Belimo B280+ARB24-3).....	1,172.94	119.90
23 09 23 11-0038	EA			1/2" 3-Way Brass Ball Valve With Actuator (Belimo B315B+LRB24-3).....	245.48	27.27
23 09 23 11-0039	EA			3/4" 3-Way Brass Ball Valve With Actuator (Belimo B320B+LRB24-3).....	287.75	36.76
23 09 23 11-0040	EA			1" 3-Way Brass Ball Valve With Actuator (Belimo B325+LRB24-3).....	369.19	44.49
23 09 23 11-0041	EA			1-1/4" 3-Way Brass Ball Valve With Actuator (Belimo B331+ARB24-3).....	518.81	56.36
23 09 23 11-0042	EA			1-1/2" 3-Way Brass Ball Valve With Actuator (Belimo B341+ARB24-3).....	551.09	65.03
23 09 23 11-0043	EA			2" 3-Way Brass Ball Valve With Actuator (Belimo B352+ARB24-3).....	723.44	76.85
23 09 23 11-0044	EA			2" 2-Way Butterfly Valve With Actuator (Belimo F650HD+AMB24-3X1).....	613.81	93.93
23 09 23 11-0045	EA			2-1/2" 2-Way Butterfly Valve With Actuator (Belimo F665HD+AMB24-3X1).....	647.36	102.46
23 09 23 11-0046	EA			3" 2-Way Butterfly Valve With Actuator (Belimo F680HD+GMB24-3X1).....	840.12	119.90
23 09 23 11-0047	EA			4" 2-Way Butterfly Valve With Actuator (Belimo F6100HD+2"GMB24-3X1).....	1,296.20	201.27
23 09 23 11-0048	EA			5" 2-Way Butterfly Valve With Actuator (Belimo F6125HD+SY2-24).....	2,498.32	254.51
23 09 23 11-0049	EA			6" 2-Way Butterfly Valve With Actuator (Belimo F6150HD+SY3-24).....	2,645.57	281.78
23 09 23 11-0050	EA			8" 2-Way Butterfly Valve With Actuator (Belimo F6200HD+SY4-24).....	3,553.55	322.04
23 09 23 11-0051	EA			10" 2-Way Butterfly Valve With Actuator (Belimo F6250HD+SY4-24).....	4,359.45	394.49
23 09 23 11-0052	EA			12" 2-Way Butterfly Valve With Actuator (Belimo F6300HS+SY4-24).....	5,380.77	478.18
23 09 23 11-0053	EA			14" 2-Way Butterfly Valve With Actuator (Belimo F6350HD+SY5-24).....	6,002.95	563.55
23 09 23 11-0054	EA			16" 2-Way Butterfly Valve With Actuator (Belimo F6400HD+SY6-110).....	7,846.63	619.91
23 09 23 11-0055	EA			18" 2-Way Butterfly Valve With Actuator (Belimo F6450HD+SY8-110).....	9,463.86	688.67
23 09 23 11-0056	EA			2" 3-Way Butterfly Valve With Actuator (Belimo F750HD+AMB24-3X1).....	1,110.21	140.89
23 09 23 11-0057	EA			2-1/2" 3-Way Butterfly Valve With Actuator (Belimo F765HD+GMB24-3X1).....	1,298.81	153.70
23 09 23 11-0058	EA			3" 3-Way Butterfly Valve With Actuator (Belimo F780HD+2"GMB24-3X1).....	1,596.17	179.86
23 09 23 11-0059	EA			4" 3-Way Butterfly Valve With Actuator (Belimo F7100HD+2"GMB24-3X1).....	2,099.81	301.91
23 09 23 11-0060	EA			5" 3-Way Butterfly Valve With Actuator (Belimo F7125HD+SY3-24).....	4,127.52	381.76
23 09 23 11-0061	EA			6" 3-Way Butterfly Valve With Actuator (Belimo F7150HD+SY3-24).....	4,293.47	422.67
23 09 23 11-0062	EA			8" 3-Way Butterfly Valve With Actuator (Belimo F7200HD+SY4-24).....	5,376.08	483.10
23 09 23 11-0063	EA			10" 3-Way Butterfly Valve With Actuator (Belimo F7250HD+SY4-24).....	7,081.36	591.73
23 09 23 11-0064	EA			12" 3-Way Butterfly Valve With Actuator (Belimo F7300HD+SY5-24).....	8,605.91	717.26
23 09 23 11-0065	EA			14" 3-Way Butterfly Valve With Actuator (Belimo F7350HD+SY6-110).....	13,229.82	845.34
23 09 23 11-0066	EA			16" 3-Way Butterfly Valve With Actuator (Belimo F7400HD+SY7-110).....	14,742.65	929.87
23 09 23 11-0067	EA			18" 3-Way Butterfly Valve With Actuator (Belimo F7450HD+SY8-110).....	22,399.80	1,033.01

23 09 23 11-0068 Valve Actuators (23 09 23 11)

23 09 23 11-0069	EA			24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-T).....	498.43	116.40
23 09 23 11-0070	EA			24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 95 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3).....	504.25	116.40
23 09 23 11-0071	EA			24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR-T).....	595.57	116.40
23 09 23 11-0072	EA			24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-S).....	552.56	116.40
23 09 23 11-0073	EA			24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR).....	561.05	116.40
23 09 23 11-0074	EA			24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT).....	616.79	116.40
23 09 23 11-0075	EA			24 Volt AC/DC Power Supply, On/Off Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-1).....	723.49	116.40
23 09 23 11-0076	EA			24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT95).....	736.54	116.40
23 09 23 11-0077	EA			24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-MFT).....	768.01	116.40
23 09 23 11-0078	EA			120 Volt AC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-3).....	582.24	116.40
23 09 23 11-0079	EA			120 Volt AC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-SR).....	648.26	116.40
23 09 23 11-0080	EA			24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-T).....	589.17	116.40
23 09 23 11-0081	EA			24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3).....	597.68	116.40

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 11-0082 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARB24-3-5-14).....	600.86	116.40
23 09 23 11-0083 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-S).....	658.72	116.40
23 09 23 11-0084 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T).....	683.67	116.40
23 09 23 11-0085 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR).....	696.92	116.40
23 09 23 11-0086 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, Variable Run Time (90 To 350 Seconds), 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT).....	694.29	116.40
23 09 23 11-0087 EA 24 Volt AC/DC Power Supply, Phasecut Control Input, 95 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-PC).....	702.77	116.40
23 09 23 11-0088 EA 24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT95).....	702.24	116.40
23 09 23 11-0089 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, NEMA 4X, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T N4).....	757.29	116.40
23 09 23 11-0090 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, NEMA 4X, Variable Run Time (75 To 350 Seconds), 160 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT-T N4).....	896.52	116.40
23 09 23 11-0091 EA 100-240 Volt AC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-3).....	630.05	116.40
23 09 23 11-0092 EA 100-240 Volt AC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-SR).....	731.98	116.40
23 09 23 11-0093 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 15 Seconds Run Time, 801 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY2-24).....	1,531.35	116.40
23 09 23 11-0094 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 1,335 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY3-24).....	1,705.44	116.40
23 09 23 11-0095 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 16 Seconds Run Time, 3,560 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY4-24).....	2,027.63	116.40
23 09 23 11-0096 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 4,450 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY5-24).....	2,284.01	116.40
23 09 23 11-0097 EA 120 Volt AC Power Supply, On/Off Control Input, 28 Seconds Run Time, 5,785 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY6-110).....	2,685.82	116.40
23 09 23 11-0098 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 8,900 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY7-110).....	3,146.56	116.40
23 09 23 11-0099 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 13,350 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY8-110).....	4,206.03	116.40
23 09 23 11-0100 EA 120 Volt AC Power Supply, On/Off Control Input, 58 Seconds Run Time, 17,800 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY9-110).....	5,113.15	116.40

23 09 23 12 Control Dampers (23 09 23)**23 09 23 12-0001 Rectangular Galvanized Volume Control Dampers (23 09 23 12)**

Note: Excludes actuators.

23 09 23 12-0002 EA 8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008).....	195.28	43.45
23 09 23 12-0003 EA 10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010).....	219.51	47.65
23 09 23 12-0004 EA 12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012).....	245.10	52.56
23 09 23 12-0005 EA 14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014).....	283.81	61.67
23 09 23 12-0006 EA 16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016).....	321.10	70.08
23 09 23 12-0007 EA 18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018).....	328.39	78.84
23 09 23 12-0008 EA 20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020).....	398.85	87.60
23 09 23 12-0009 EA 24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024).....	476.56	105.11
23 09 23 12-0010 EA 32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032).....	606.34	122.63
23 09 23 12-0011 EA 48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048).....	881.21	140.15
23 09 23 12-0012 EA 60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060).....	1,570.94	157.68
23 09 23 12-0013 EA 72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072).....	1,984.12	175.20

23 09 23 12-0014 Round Galvanized Control Dampers (23 09 23 12)

Note: Excludes actuators.

23 09 23 12-0015 EA 6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06).....	192.86	49.06
23 09 23 12-0016 EA 8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08).....	199.94	52.56
23 09 23 12-0017 EA 10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10).....	207.53	52.56
23 09 23 12-0018 EA 12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12).....	230.95	59.57
23 09 23 12-0019 EA 14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14).....	259.10	59.57
23 09 23 12-0020 EA 16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16).....	283.55	70.08
23 09 23 12-0021 EA 18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18).....	380.07	73.76
23 09 23 12-0022 EA 20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20).....	397.00	76.46
23 09 23 12-0023 EA 22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22).....	422.01	82.43
23 09 23 12-0024 EA 24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24).....	447.47	88.39

23 09 23 12-0025 Remote Damper Control (23 09 23 12)

23 09 23 12-0026 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-275B).....	298.72	
For Each 10' Flexible Casing And Wire, Add	33.23	
23 09 23 12-0027 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-301B).....	305.52	
For Each 10' Flexible Casing And Wire, Add	33.23	

23 09 23 13 Energy Meters (23 09 23)**23 09 23 13-0001 Surge Protectors (23 09 23 13)**

23 09 23 13-0002 EA Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255).....	292.42	10.96
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 13-0003 EA Surge Protector, 1AC Outlet (Transtector TR2251).....	222.49	10.96
23 09 23 13-0004 EA Surge Protector, 2 AC Outlets (Transtector TR2254).....	342.82	10.96
23 09 23 13-0005 EA Surge Protector, DB-15 Connection (Transtector TR2259-DLP15).....	188.35	10.96
23 09 23 13-0006 EA Surge Protector, DB-25 Connection (Transtector TR2259-DLP25).....	188.35	10.96
23 09 23 13-0007 EA Surge Protector, DB-9 Connection (Transtector TR2259-DLP9).....	188.35	10.96
23 09 23 13-0008 EA Surge Protector, Individual Wire Connection (Transtector TR2258).....	269.67	10.96
23 09 23 13-0009 EA Surge Protector, Trane Communication Links (Transtector TR2257).....	168.84	10.96
 23 09 23 14 Flow Instruments (23 09 23)		
23 09 23 14-0001 Water Flow Meters (23 09 23 14)		
23 09 23 14-0002 EA Insertion Electromagnetic Water Flow Meter (Onicon F-3500).....	4,359.59	124.49
Note: Excludes pipe fittings.		
 23 09 23 14-0003 Air Flow Monitoring Stations (23 09 23 14)		
23 09 23 14-0004 EA Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	3,444.10	134.55
Note: 10' cable, 36" x 24" typical duct size.		
23 09 23 14-0005 EA Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	4,905.04	134.55
Note: 10' cable, 48" x 36" typical duct size.		
23 09 23 14-0006 EA Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	6,082.13	134.55
Note: 10' cable, 60" x 48" typical duct size.		
 23 09 23 16 Gas Instruments (23 09 23)		
23 09 23 16-0001 Gas Sensors (23 09 23 16)		
23 09 23 16-0002 EA 6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B).....	1,813.68	65.77
23 09 23 16-0003 EA Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD).....	811.01	43.85
23 09 23 16-0004 EA CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2).....	1,450.09	65.77
Note: Solid state sensor.		
23 09 23 16-0005 EA CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD).....	815.13	78.93
 23 09 23 19 Moisture Instruments (23 09 23)		
23 09 23 19-0001 Relative Humidity Sensors (23 09 23 19)		
23 09 23 19-0002 EA 3% Duct Mounted RH Sensor (Kele HD30K).....	527.03	78.93
23 09 23 19-0003 EA 10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3).....	540.02	78.93
23 09 23 19-0004 EA 3% RH Outdoor Air Sensor (Kele HO30K).....	624.46	109.62
23 09 23 19-0005 EA 2% Surface Mounted RH Transmitter (Kele HW20K).....	459.19	43.85
 23 09 23 21 Motion Instruments (23 09 23)		
23 09 23 21-0001 Peco Motion Sensors (23 09 23 21)		
23 09 23 21-0002 EA Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....	173.35	30.83
23 09 23 21-0003 EA Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....	170.25	30.83
23 09 23 21-0004 EA Wall/Ceiling Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001).....	222.26	30.83
23 09 23 21-0005 EA Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002).....	199.31	30.83
23 09 23 21-0006 EA Door Switch Occupancy Sensor (Peco SE200-001).....	73.18	30.83
23 09 23 21-0007 EA Window Switch Occupancy Sensor (Peco SE200-002).....	68.91	30.83
23 09 23 21-0008 EA Power Pack And Controller (Peco SF200-001).....	112.89	30.83
 23 09 23 23 Pressure Instruments (23 09 23)		
23 09 23 23-0001 Pressure Sensors (23 09 23 23)		
23 09 23 23-0002 EA 0 To 0.5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-005).....	694.72	92.57
23 09 23 23-0003 EA 0 To 5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-050).....	624.91	92.57
23 09 23 23-0004 EA 0.05 To 12" W.C., Adjustable Differential Pressure Switches (Kele AFS-222).....	287.11	92.57
23 09 23 23-0005 EA 0.05 To 2" W.C., Adjustable Differential Pressure Switches (Kele AFS-262).....	295.22	92.57
23 09 23 23-0006 EA 0.4 To 2" W.C., Manual Reset Adjustable Differential Pressure Switches (Kele AFS-460).....	311.10	92.57
23 09 23 23-0007 EA 0.05 To 12" W.C., 1/8" NPT, Adjustable Differential Pressure Switches (Kele AFS-145).....	292.87	92.57
23 09 23 23-0008 EA 0 To 100 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P210D-BVA).....	2,393.88	92.57
Note: Excludes pipe fittings.		
23 09 23 23-0009 EA 0 To 60 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P160D-BVA).....	2,393.88	92.57
Note: Excludes pipe fittings.		
23 09 23 23-0010 EA Magnahelic Gauge.....	710.71	56.59
 23 09 23 23-0011 Room Pressure Monitoring (23 09 23 23)		
23 09 23 23-0012 EA Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8640-PM).....	2,844.26	70.08
23 09 23 23-0013 EA Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8630-PC).....	4,541.53	70.08
Note: Excludes dampers and actuators.		
23 09 23 23-0014 EA Hospital Room Pressure Status Remote Visual Display (TSI 8694-4).....	373.00	42.05
23 09 23 23-0015 EA Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7).....	427.16	42.05

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 09 23 27 Temperature Instruments (23 09 23)****23 09 23 27-0001 Air Temperature Sensors (23 09 23 27)**

23 09 23 27-0002	EA	10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....	227.65	78.93
23 09 23 27-0003	EA	10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO).....	297.46	78.93
23 09 23 27-0004	EA	10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....	235.68	78.93
23 09 23 27-0005	EA	10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH).....	243.92	78.93
23 09 23 27-0006	EA	10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....	246.66	78.93
23 09 23 27-0007	EA	10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....	243.95	78.93
23 09 23 27-0008	EA	10K Ohm Thermistor Duct Temperature Sensor With Non Metallic Handibox Housing (Kele ST-D24-XHP).....	245.41	78.93
23 09 23 27-0009	EA	10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4).....	259.28	78.93
23 09 23 27-0010	EA	10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW).....	271.39	78.93
23 09 23 27-0011	EA	10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-O24).....	338.19	109.62
23 09 23 27-0012	EA	10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-O24-XC25).....	347.52	109.62
23 09 23 27-0013	EA	Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA/10K3-R-N-DF).....	149.06	43.85
23 09 23 27-0014	EA	Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R).....	152.49	43.85
23 09 23 27-0015	EA	Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP).....	143.46	43.85

23 09 23 27-0016 Water Temperature Sensors (23 09 23 27)

23 09 23 27-0017	EA	5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....	178.86	84.82
23 09 23 27-0018	EA	Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005).....	423.32	84.82

23 09 23 27-0019 Peco Thermostats (23 09 23 27)

23 09 23 27-0020	EA	3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-IAQ).....	365.33	20.55
23 09 23 27-0021	EA	3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....	329.76	20.55

23 09 23 53 Proprietary Control Systems (23 09 23)**23 09 23 53-0001 EMCS General Costs (23 09 23 53)****23 09 23 53-0002 EMCS System Design Engineering (23 09 23 53-0001)**

Note: Hourly labor rates are used for engineering projects only. Not used in conjunction with construction tasks.

23 09 23 53-0003	HR	EMCS Site Inspection Of Existing Facilities.....	339.13	
23 09 23 53-0004	HR	EMCS Engineering Project Management.....	339.13	
23 09 23 53-0005	HR	EMCS System Engineering, Schematic Design And Layout.....	359.69	
23 09 23 53-0006	HR	EMCS System Software Programming And Graphics Programming.....	359.69	
23 09 23 53-0007	HR	EMCS Graphics Picture Creation.....	231.30	
23 09 23 53-0008	HR	EMCS System Controls Training.....	339.13	
23 09 23 53-0009	HR	EMCS On Site System Diagnostics Field Technician.....	339.13	
23 09 23 53-0010	HR	EMCS Remote Technical Support Using Phone Or Internet.....	282.68	
23 09 23 53-0011	HR	EMCS Travel Time (All Personnel).....	292.96	

23 09 23 53-0012 Field Tests, Checkout And Commissioning (23 09 23 53-0001)

Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.

23 09 23 53-0013	PNT	EMCS Field Test.....	179.91	
		Note: Priced per point.		
23 09 23 53-0014	PNT	EMCS Field Checkout And Startup.....	179.91	
		Note: Priced per point.		
23 09 23 53-0015	PNT	EMCS Field Commissioning.....	179.91	
		Note: Priced per point.		
23 09 23 53-0016	EA	EMCS Field Balance Support.....	154.15	
		Note: Priced per controller.		

23 09 23 53-0017 EMCS System Engineering/Submittal Design And Layout (23 09 23 53-0001)

Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.

23 09 23 53-0018	PNT	EMCS System Engineering/Submittal Design And Layout.....	60.01	
		Note: Priced per point.		

23 09 23 53-0019 Alerton Controls (23 09 23 53)

23 09 23 53-0020	EA	50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL).....	9,835.53	
23 09 23 53-0021	EA	150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM).....	12,503.97	
23 09 23 53-0022	EA	Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM).....	30,934.74	
23 09 23 53-0023	EA	Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE).....	23,322.03	
23 09 23 53-0024	EA	Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE).....	59,382.20	
23 09 23 53-0025	EA	Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE).....	46,928.62	
23 09 23 53-0026	EA	Dashboard Option, Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE).....	71,402.24	
23 09 23 53-0027	EA	Alerton Building Suite Tech License (Alerton ABS-3-TECH).....	2,029.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0028 EA Enterprise Edition With SQL Server Support, Envision for BACtalk v2.6 (Alerton ENV-BT-2.6-ENT1).....	27,376.79	
23 09 23 53-0029 EA Unlimited Controllers, Unlimited Workstation, Envision for BACtalk v2.6 (Alerton ENV-BT-2.6-LRG)	20,152.73	
23 09 23 53-0030 EA 150 Controllers, 3 Workstation, Envision for BACtalk v2.6 (Alerton ENV-BT-2.6-MED)	12,447.89	
23 09 23 53-0031 EA 50 Controllers, 1 Workstation, Envision for BACtalk v2.6 (Alerton ENV-BT-2.6-SM)	7,868.28	
23 09 23 53-0032 EA 10 Controllers, 1 Workstation, Envision for BACtalk v2.6 (Alerton ENV-BT-2.6-XS)	3,090.71	
23 09 23 53-0033 EA 1 Ethernet, 1 MS/TP, BACtalk Control Module (Alerton 715000100).....	5,330.46	328.86
23 09 23 53-0034 EA Foreign Protocol Converter For P1 Systems, BACtalk Control Module (Alerton BCM-FPCS).....	7,835.41	438.48
23 09 23 53-0035 EA Modbus Gateway, BACtalk Control Module (Alerton BCM-MDBS).....	7,737.64	438.48
23 09 23 53-0036 EA V.90/56K Modem, BACtalk Control Module (Alerton BCM-MDM).....	2,966.50	328.86
23 09 23 53-0037 EA 1 MS/TP, BACtalk Control Module (Alerton 715000300)	3,539.46	328.86
23 09 23 53-0038 EA Power Supply, BACtalk Control Module (Alerton BCM-PWS).....	2,790.20	328.86
23 09 23 53-0039 EA 1 TUX Trunk, BACtalk Control Module (Alerton BCM-TUX)	3,408.05	328.86
23 09 23 53-0040 EA Web Server And Configurator CD, BACtalk Control Module (Alerton BCM-WEB).....	7,710.42	328.86
23 09 23 53-0041 EA BACtalk Field Level Gateway For Modbus (Alerton FLG-MODBUS)	3,759.01	438.48
23 09 23 53-0042 EA EXP BACnet Controller (Alerton VLX)	8,195.15	876.96
23 09 23 53-0043 EA VLX BACnet High Performance Controller (Alerton VLX-PLATINUM).....	9,449.26	876.96
23 09 23 53-0044 EA Multiple Segment MS/TP Repeater (Alerton MSTP-REP)	1,232.67	97.64
23 09 23 53-0045 EA 4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD).....	2,465.67	328.86
23 09 23 53-0046 EA 4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7).....	2,597.90	328.86
23 09 23 53-0047 EA 4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD)	2,141.13	328.86
23 09 23 53-0048 EA 4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A).....	2,325.45	328.86
23 09 23 53-0049 EA 5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD).....	2,317.43	328.86
23 09 23 53-0050 EA 11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACtalk Field Controller For Central Plant Systems (Alerton VLC-1188).....	3,375.20	328.86
23 09 23 53-0051 EA 16 Inputs, BACtalk Field Controller (Alerton VLC-1600)	2,646.78	328.86
23 09 23 53-0052 EA 16 Inputs, 16 Binary Triac Outputs, BACtalk Field Controller (Alerton VLC-16160).....	3,931.31	438.48
23 09 23 53-0053 EA 4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444).....	1,758.91	219.24
23 09 23 53-0054 EA 5 Inputs, 5 Binary Outputs, BACtalk Field Controller (Alerton VLC-550)	1,706.01	219.24
23 09 23 53-0055 EA 6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACtalk Field Controller (Alerton VLC-651R).....	2,337.46	328.86
23 09 23 53-0056 EA 6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACtalk Field Controller (Alerton VLC-660R).....	2,337.46	328.86
23 09 23 53-0057 EA 8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACtalk Field Controller (Alerton VLC-853).....	2,764.57	328.86
23 09 23 53-0058 EA 16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688).....	5,334.45	438.48
23 09 23 53-0059 EA 2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362).....	2,413.59	328.86
23 09 23 53-0060 EA Wireless Door Contact Sensor (Alerton AL-OC-DS).....	156.69	12.33
23 09 23 53-0061 EA One-Speed BACtalk Microset Wall Sensor (Alerton MS-1010-BT).....	249.97	12.33
23 09 23 53-0062 EA One-Speed BACtalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT).....	628.20	12.33
23 09 23 53-0063 EA Three-Speed BACtalk Microset Wall Sensor (Alerton MS-1030-BT)	628.20	12.33
23 09 23 53-0064 EA Three-Speed BACtalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT).....	490.38	12.33
23 09 23 53-0065 EA BACnet-Compliant Wall Sensor (Alerton TS-1050-BT).....	169.84	12.33
23 09 23 53-0066 EA Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT)	662.66	12.33
23 09 23 53-0067 EA Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT)	742.81	12.33
23 09 23 53-0068 EA 10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0)	3,367.18	328.86
23 09 23 53-0069 EA 10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8)	3,564.30	328.86
23 09 23 53-0070 EA 22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0).....	3,394.43	328.86
23 09 23 53-0071 EA 50 Devices, Ascent Compass 1 Software, Small License (Alerton Compass-1-SM)	9,450.15	
23 09 23 53-0072 EA Global Controller Base Unit (Alerton ACM).....	5,110.16	328.86
23 09 23 53-0073 EA External Battery Pack For ACM (Alerton ACM-BATT).....	1,112.71	182.93
23 09 23 53-0074 EA Licenses The ACM For Capacity Of 32 Directly Connected Devices (Alerton ACM032).....	834.75	
23 09 23 53-0075 EA Microset 4 Wall Sensor (Alerton MS4-THC).....	972.60	12.33
23 09 23 53-0076 Automated Logic Controls (23 09 23 53)		
23 09 23 53-0077 EA 0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100).....	3,765.17	328.86
23 09 23 53-0078 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320).....	8,603.65	986.59
23 09 23 53-0079 EA 2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx).....	2,672.11	328.86
23 09 23 53-0080 EA 4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx).....	5,455.28	438.48
23 09 23 53-0081 EA 8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx).....	5,373.71	438.48
23 09 23 53-0082 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160).....	8,789.69	876.96
23 09 23 53-0083 EA 8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx).....	4,843.49	438.48
23 09 23 53-0084 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320).....	4,776.66	328.86
23 09 23 53-0085 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160).....	8,300.26	876.96
23 09 23 53-0086 EA No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642).....	1,855.09	219.24
23 09 23 53-0087 EA With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D).....	1,962.04	219.24
23 09 23 53-0088 EA 3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+).....	2,819.41	219.24
23 09 23 53-0089 EA 1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+)	2,727.64	219.24
23 09 23 53-0090 EA Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF).....	2,460.02	328.86
23 09 23 53-0091 EA Unlimited Points, Front End Software For Building Control (Automated Logic WC)	13,974.53	
23 09 23 53-0092 EA 500 Point, Front End Software For Building Control (Automated Logic WC500)	8,998.64	
23 09 23 53-0093 EA Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE)	11,292.70	

23 09 23 53-0094 Cypress Envirosystems Controls (23 09 23 53)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0095			Wireless Pneumatic Thermostat <small>(23 09 23 53-0094)</small> Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.		
23 09 23 53-0096	EA		Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP).....	478.08	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-24.04	
			For >200, Deduct	-48.05	
23 09 23 53-0097	EA		Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP).....	478.08	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-24.04	
			For >200, Deduct	-48.05	
23 09 23 53-0098	EA		Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP).....	478.08	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-24.04	
			For >200, Deduct	-48.05	
23 09 23 53-0099	EA		Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP)	478.08	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-24.04	
			For >200, Deduct	-48.05	
23 09 23 53-0100	EA		Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP-DB)	542.49	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-27.63	
			For >200, Deduct	-55.20	
23 09 23 53-0101	EA		Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP-DB)	542.49	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-27.63	
			For >200, Deduct	-55.20	
23 09 23 53-0102	EA		Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP-DB)	542.49	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-27.63	
			For >200, Deduct	-55.20	
23 09 23 53-0103	EA		Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP-DB)	556.35	13.71
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-28.40	
			For >200, Deduct	-56.74	
23 09 23 53-0104	EA		Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV)	42.08	13.71
			Note: Optional cover.		
			For >50 To 200, Deduct	-1.58	
			For >200, Deduct	-3.15	
23 09 23 53-0105	EA		Green Box Controller (Cypress Envirosystems GBC-800-001)	5,266.89	13.71
			Note: One unit for up to 100 thermostats.		
			For 2, Deduct	-262.36	
			For >2, Deduct	-524.26	
23 09 23 53-0106	EA		WPT USB Hub (Cypress Envirosystems WPT-800-HUSB)	388.18	13.71
			Note: One unit for up to 100 thermostats.		
			For 2, Deduct	-20.82	
			For >2, Deduct	-41.60	
23 09 23 53-0107	EA		WPT Repeater (Cypress Envirosystems WPT-800-RWAL).....	686.31	13.71
			Note: One unit for up to 15 thermostats.		
			For >5 To 10, Deduct	-34.35	
			For >10, Deduct	-68.64	
23 09 23 53-0108	EA		24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V)	855.45	13.71
			Note: One unit for up to 15 thermostats.		
			For >5 To 10, Deduct	-39.94	
			For >10, Deduct	-79.82	
23 09 23 53-0109			Delta Controls <small>(23 09 23 53)</small>		
23 09 23 53-0110			Software <small>(23 09 23 53-0109)</small> Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0111	EA		Orca Software Unlimited Points License (Delta Controls DOW333-USB).....	2,120.95	
23 09 23 53-0112	EA		Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB)	3,387.42	
23 09 23 53-0113	EA		Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB).....	7,339.41	
23 09 23 53-0114	EA		Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB).....	11,718.64	
23 09 23 53-0115	EA		Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB)	6,072.94	
23 09 23 53-0116	EA		Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB)	2,120.95	
23 09 23 53-0117	EA		100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01)	4,943.80	
23 09 23 53-0118	EA		1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02)	6,072.94	
23 09 23 53-0119	EA		KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amperes CT's And BACnet MS/TP Interface (Delta Controls H8186-CB)	2,253.10	137.03
23 09 23 53-0120	EA		Delta Controls Touch Screen (Delta Controls DHMI-7-I)	2,313.09	
23 09 23 53-0121			EMCS Central Equipment And Controllers <small>(23 09 23 53-0109)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0122 EA Fully Programmable, Native BACnet Building Controller (Delta Controls DSC-1616E + DFM1616) Note: Includes 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup	8,429.94	548.10
23 09 23 53-0123 EA Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA'S, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E)	6,623.32	548.10
23 09 23 53-0124 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	5,118.74	548.10
23 09 23 53-0125 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180)	5,118.74	548.10
23 09 23 53-0126 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	5,118.74	548.10
23 09 23 53-0127 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	4,843.60	548.10
23 09 23 53-0128 EA VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF)	1,595.84	274.05
23 09 23 53-0129 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,474.46	274.05
23 09 23 53-0130 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	1,555.00	274.05
23 09 23 53-0131 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,474.46	274.05
23 09 23 53-0132 EA Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616)	3,176.87	342.56
23 09 23 53-0133 EA Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440)	844.08	137.03
23 09 23 53-0134 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404)	895.25	137.03
23 09 23 53-0135 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600)	1,027.98	137.03
23 09 23 53-0136 Network, VAV And Special Sensors <small>(23 09 23 53-0109)</small>		
23 09 23 53-0137 EA BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24)	261.97	43.85
23 09 23 53-0138 EA BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24)	349.15	49.33
23 09 23 53-0139 EA Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B).....	653.87	20.55
23 09 23 53-0140 Honeywell Controls <small>(23 09 23 53)</small>		
23 09 23 53-0141 EMCS Central Equipment And Controllers <small>(23 09 23 53-0140)</small>		
23 09 23 53-0142 EMCS Network Area Controllers (BACnet Or Lon) <small>(23 09 23 53-0141)</small>		
Note: Includes loading software, software license, loading data base and mounting on wall.		
23 09 23 53-0143 EA Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004)	11,264.83	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.		
23 09 23 53-0144 EA Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022)	8,036.51	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-232 port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).		
23 09 23 53-0145 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201)	6,399.94	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.		
23 09 23 53-0146 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ)	7,702.27	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.		
23 09 23 53-0147 EA Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN).....	6,355.10	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.		
23 09 23 53-0148 EA Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU)	6,355.10	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.		
23 09 23 53-0149 EA 16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B).....	6,805.51	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0150 EA 16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU).....	7,278.35	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0151 EA 16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	6,805.51	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0152 EA 16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	7,278.35	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0153 EA 34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B).....	7,282.42	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0154 EA 34 Point Web UI and BACnet IP Network Area Java Controller (Honeywell WEB-234-BU).....	7,755.26	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		
23 09 23 53-0155 EA 34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	7,282.42	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0156 EA 34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	7,755.26	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		
23 09 23 53-0157 EA Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX).....	7,679.85	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0158 EA Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only).....	9,259.36	668.00
Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBS controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0159 EA Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ).....	9,746.46	668.00
Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0160 EA Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ).....	11,325.98	668.00
Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBS controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0161 EA Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX).....	9,768.88	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBS controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0162 EA Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ).....	12,779.13	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACEs, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.		
23 09 23 53-0163 EMCS Network Interfaces (23 09 23 53-0141)		
Note: Includes installation, start-up and tech labor.		
23 09 23 53-0164 EA Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001).....	1,551.82	184.98
Note: For desktop computer.		
23 09 23 53-0165 EA Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009).....	1,332.73	123.32
Note: For laptop computer.		
23 09 23 53-0166 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010).....	1,716.16	231.30
23 09 23 53-0167 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002).....	2,562.99	334.07
23 09 23 53-0168 EA Two Way Lon Repeater (Honeywell Q7740A1008).....	1,382.94	334.07
23 09 23 53-0169 EA FTT Termination Module For Network Bus (Honeywell 209541B).....	110.77	41.11
23 09 23 53-0170 DDC Application Specific Controller Assemblies (23 09 23 53-0141)		
Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.		
23 09 23 53-0171 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,657.84	955.75
23 09 23 53-0172 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,144.00	565.91
23 09 23 53-0173 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,873.66	955.75
23 09 23 53-0174 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,359.82	622.10
23 09 23 53-0175 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,153.61	1,063.73
23 09 23 53-0176 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	2,768.16	797.48
23 09 23 53-0177 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,908.89	1,063.73



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 09	23	53-0178	EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	3,369.43	813.93
	23 09	23	53-0179	EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	2,389.19	1,063.73
	23 09	23	53-0180	EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	1,875.35	628.95
	23 09	23	53-0181	EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	2,671.88	1,063.73
	23 09	23	53-0182	EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	2,157.90	708.42
	23 09	23	53-0183	EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	3,087.86	1,063.73
	23 09	23	53-0184	EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	2,563.75	627.57
	23 09	23	53-0185	EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....	3,370.54	1,063.73
	23 09	23	53-0186	EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....	2,846.29	707.04
	23 09	23	53-0187	EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....	3,820.25	1,063.73
	23 09	23	53-0188	EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	3,352.72	679.64
	23 09	23	53-0189	EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....	4,385.63	1,063.73
	23 09	23	53-0190	EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies	3,917.96	796.12
	23 09	23	53-0191	DDC Programmable Controller Assemblies <small>(23 09 23 53-0141)</small>		
				Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 53-0198 for additional components.		
	23 09	23	53-0192	EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....	2,753.81	817.08
	23 09	23	53-0193	EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....	3,140.25	817.08
	23 09	23	53-0194	EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies	4,123.68	960.96
	23 09	23	53-0195	EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies	4,510.12	960.96
	23 09	23	53-0196	EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....	7,289.11	1,125.39
	23 09	23	53-0197	EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....	7,735.82	1,125.39
	23 09	23	53-0198	EMCS Optional DDC Controller Hardware <small>(23 09 23 53-0141)</small>		
				Note: Used to expand the capacity of DDC programmable controller assemblies.		
	23 09	23	53-0199	EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005)	464.68	
				Note: For constant volume single zone and heat pump AHUs.		
	23 09	23	53-0200	EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011).....	537.03	
				Note: For constant volume single zone and heat pump AHUs.		
	23 09	23	53-0201	EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001)	562.51	
				Note: For constant volume single zone and heat pump AHUs.		
	23 09	23	53-0202	EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010).....	530.92	
	23 09	23	53-0203	EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016)	539.07	
	23 09	23	53-0204	EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011)	526.84	
	23 09	23	53-0205	EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025)	453.47	
	23 09	23	53-0206	EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004)	394.37	
	23 09	23	53-0207	EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002).....	577.80	
	23 09	23	53-0208	EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000)	516.65	
	23 09	23	53-0209	EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002)	570.66	
	23 09	23	53-0210	EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011).....	1,211.64	
	23 09	23	53-0211	EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017).....	1,507.16	
	23 09	23	53-0212	EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002)	753.07	
	23 09	23	53-0213	EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010)	741.86	
	23 09	23	53-0214	EA Hydronic Controller Without Wall Module (Honeywell W7762B1027).....	363.80	
	23 09	23	53-0215	EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016).....	413.73	
	23 09	23	53-0216	EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001)	764.28	
	23 09	23	53-0217	EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001)	817.27	
	23 09	23	53-0218	EA AI Module (Honeywell XFL521B).....	511.56	
	23 09	23	53-0219	EA AO Module (Honeywell XFL522B).....	511.56	
	23 09	23	53-0220	EA DI Module (Honeywell XFL523B).....	511.56	
	23 09	23	53-0221	EA DO Module (Honeywell XFL524B).....	511.56	
	23 09	23	53-0222	EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511)	90.69	
	23 09	23	53-0223	EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513)	171.20	
	23 09	23	53-0224	EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514)	168.14	
	23 09	23	53-0225	EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI).....	514.62	
	23 09	23	53-0226	EA Lon Hub (Honeywell XIO-HUB)	76.43	
	23 09	23	53-0227	EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO).....	514.62	
	23 09	23	53-0228	EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI)	473.85	
	23 09	23	53-0229	EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO).....	473.85	
	23 09	23	53-0230	EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC)	499.33	
	23 09	23	53-0231	EA Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000).....	499.33	
	23 09	23	53-0232	EA Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI).....	718.42	
	23 09	23	53-0233	EA 16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16).....	847.84	
				Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.		
	23 09	23	53-0234	EA 34 Point IO Module For Network Area Controllers (Honeywell W7750A2005)	1,801.66	
				Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.		
	23 09	23	53-0235	EMCS Software <small>(23 09 23 53-0140)</small>		
	23 09	23	53-0236	Software Packages And License <small>(23 09 23 53-0235)</small>		
				Note: Includes installation on equipment.		
	23 09	23	53-0237	EA On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB).....	574.74	
				Note: Requires UI services to be installed on NAC.		
	23 09	23	53-0238	EA Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX).....	2,270.25	
				Note: Upgrade existing network area controller. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0239 EA WEBStation-AX Software For Windows (Honeywell WEB-S-AX).....	6,419.95	
Note: Includes Archon database. WEBs controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).		
23 09 23 53-0240 EA Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS).....	3,821.40	
Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.		
23 09 23 53-0241 EA Upgrade Small Building To Large Building Software	4,410.23	
Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.		
23 09 23 53-0242 EA Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W)	3,137.30	
Note: One copy is included with WEB-S-AX and WEBStation-AX.		
23 09 23 53-0243 EA WEBs Energy Suite (WES) Base Software (Honeywell WES-BASE-AX).....	5,526.94	
Note: Includes license for 10 points of E ² Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E ² Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project.		
23 09 23 53-0244 EA Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E ² Profiler Points (Honeywell WES-CP-AX)	793.50	
Note: Can be combined with the required single instance of VES-BASE as well as with any combination of other EP points and CP meters.		
23 09 23 53-0245 EA Perpetual License For One Point Of E ² Profiler (Honeywell WES-E2-AX).....	554.03	
Note: Can be combined with the required single instance of VES-BASE as well as with any number of other EP Points and Cost Profiler meters.		
23 09 23 53-0246 EA Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters	29,580.36	
Note: Sold on a per server basis. Purchase of this product must be accompanied by VES-M1-ENT-AX maintenance. The first year price of maintenance is included with VES-ENT-AX.		
23 09 23 53-0247 EA Annual Maintenance For Enterprise WEBs-AX Energy Suite (Honeywell WES-M1-ENT-AX).....	27,008.89	
Note: The first year cost of VES-M1-ENT-AX is included with VES-ENT-AX. After the first year VES-M1-ENT-AX maintenance fee will be invoiced annually.		
23 09 23 53-0248 EA Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX)	10,237.28	
23 09 23 53-0249 EA Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS).....	7,638.72	
23 09 23 53-0250 EA Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500)	2,208.26	
23 09 23 53-0251 EA Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500)	2,208.26	
23 09 23 53-0252 EA Vykon Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL).....	15,285.60	
Note: Excludes Oracle.		
23 09 23 53-0253 EA Open System Driver Option (Honeywell WS-SNMP-500).....	2,038.08	
Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchased with the WS or added later. Web Supervisor required to purchase this option.		
23 09 23 53-0254 EA Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500)	2,208.26	
23 09 23 53-0255 EA WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003).....	5,774.90	
Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.		
23 09 23 53-0256 EA WEBStation Additional Node (Honeywell ZW2000B1002).....	2,208.26	
23 09 23 53-0257 EA WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001).....	37,025.80	
23 09 23 53-0258 EA WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000).....	67,936.34	
23 09 23 53-0259 EA WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009)	118,888.34	
23 09 23 53-0260 EA Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008).....	6,114.24	
23 09 23 53-0261 EA Additional Master WEBStation Software Licenses (Honeywell ZW200G1007).....	3,057.12	
23 09 23 53-0262 EA Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001).....	2,509.57	
23 09 23 53-0263 EA Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055).....	2,728.81	
Note: As with other WEBs, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0264 Initial Database Generation (23 09 23 53-0235)		
23 09 23 53-0265 PNT Database Generation For Central Plant.....	91.94	
23 09 23 53-0266 PNT Database Generation For Programmable Controller.....	91.94	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0267 EA Database Generation For Application Specific Controller.....	91.94	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0268 EA Replication Of Database Generation For Application Specific Controller.....	63.99	
Note: Price per copy made.		
23 09 23 53-0269 EA Database Generation For Remote IO Modules, Sensors, Etcetera	63.99	
23 09 23 53-0270 Application Software Programs (23 09 23 53-0235)		
23 09 23 53-0271 EA Basic Application Program Package.....	3,836.69	
Note: One per project. Includes program inputs, command priorities, alarms, trends for analog and digital points, energy totalization, schedules, calendars, special events, occupied and unoccupied setpoints, ventilation and recirculation modes, hot water reset program, chilled water reset program, condenser water reset program, and fail-over logic.		
23 09 23 53-0272 EA Optimum Start/Stop Program.....	128.26	
Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0273 EA Duty Cycling Program.....	60.57	
23 09 23 53-0274 EA Hot Deck/Cold Deck Reset Application Program	6,591.30	
23 09 23 53-0275 EA Boiler Optimization Program	8,637.48	
23 09 23 53-0276 EA Chiller Optimization Program	11,700.34	
23 09 23 53-0277 EA Lighting Control Program	5,646.14	
23 09 23 53-0278 EA Demand Limiting Program	112.50	
Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0279 EA Email Alarm Server Configuration.....	4,355.75	
23 09 23 53-0280 Color Graphics Generation (23 09 23 53-0235)		
Note: Priced per page.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0281 EA Single Site Home Page Graphics Page With HTML Navigation Code.....	2,299.02	
23 09 23 53-0282 EA Multi Site Home Page Graphics Page With HTML Navigation Code.....	4,081.82	
23 09 23 53-0283 EA Color Graphics Page For Central Plant.....	1,044.54	
23 09 23 53-0284 EA Color Graphics Page For Building Floor Plan.....	964.52	
23 09 23 53-0285 EA Replication Of Color Graphics Page For Central Plant.....	523.98	
23 09 23 53-0286 EA Color Graphics Page For Programmable Controller.....	1,175.13	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0287 EA Replication Of Color Graphics Page For Programmable Controller.....	251.30	
Note: Priced per copy made.		
23 09 23 53-0288 EA Color Graphics Page For Application Specific Controller.....	1,086.88	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0289 EA Replication Of Color Graphics Page For Application Specific Cont.....	108.66	
Note: Priced per copy made.		
23 09 23 53-0290	Sensors, Actuators And Control Devices <small>(23 09 23 53-0140)</small>	
Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.		
23 09 23 53-0291	Special Sensors <small>(23 09 23 53-0290)</small>	
23 09 23 53-0292 EA Dewpoint Sensor (Honeywell C7232B1014).....	1,886.34	84.82
23 09 23 53-0293 EA Enthalpy Sensor -25 To 125 F.....	1,965.08	84.82
23 09 23 53-0294 EA Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002).....	983.89	169.64
23 09 23 53-0295 EA Freezestat (Honeywell L482A1004).....	699.37	282.68
23 09 23 53-0296 EA Wall Mounted Occupancy Sensor.....	477.23	84.82
23 09 23 53-0297 EA Ceiling Mounted Occupancy Sensor.....	390.43	84.82
23 09 23 53-0298 EA I/P Positioner With Gauge.....	458.09	84.82
23 09 23 53-0299 EA Non Communicating Duct Mounted Smoke Detector With Sampling Tube.....	549.72	84.82
23 09 23 53-0300 EA EP Transducer.....	458.09	56.59
23 09 23 53-0301 EA Electric Heat Sequencer.....	737.86	113.04
23 09 23 53-0302	Meters <small>(23 09 23 53-0290)</small>	
23 09 23 53-0303 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer.....	4,661.89	678.28
23 09 23 53-0304 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer With LON interface.....	6,830.23	791.32
23 09 23 53-0305 EA 1 To 300 Amperes, Current Transformer For KW Meter.....	1,687.49	282.68
23 09 23 53-0306 EA 300 To 800 Amperes, Current Transformer For KW Meter.....	1,890.37	282.68
23 09 23 53-0307 EA 800 To 2,400 Amperes, Current Transformer For KW Meter.....	2,279.46	282.68
23 09 23 53-0308	Direct Coupled Actuators <small>(23 09 23 53-0290)</small>	
23 09 23 53-0309 EA 44 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002).....	649.13	115.63
23 09 23 53-0310 EA 88 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200).....	706.28	115.63
23 09 23 53-0311 EA 175 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209).....	804.56	115.63
23 09 23 53-0312 EA 44 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008).....	615.68	115.63
23 09 23 53-0313 EA 88 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206).....	677.15	115.63
23 09 23 53-0314 EA 175 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205).....	738.02	115.63
23 09 23 53-0315 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator.....	680.51	115.63
23 09 23 53-0316 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206).....	768.16	115.63
23 09 23 53-0317 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205).....	862.77	115.63
23 09 23 53-0318 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209).....	570.08	115.63
23 09 23 53-0319 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209).....	616.75	115.63
23 09 23 53-0320 EA 175 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200).....	710.51	115.63
23 09 23 53-0321 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007).....	754.65	115.63
23 09 23 53-0322 EA 300 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030).....	754.10	115.63
23 09 23 53-0323 EA 300 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008).....	875.13	115.63
23 09 23 53-0324 EA Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018).....	589.21	115.63
23 09 23 53-0325 EA Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368).....	1,000.23	115.63
23 09 23 53-0326 EA Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator.....	453.86	115.63
23 09 23 53-0327 EA Direct Coupled Damper Actuator Enclosure For Outdoor Use.....	674.78	115.63
23 09 23 53-0328	Thermostats <small>(23 09 23 53-0140)</small>	
23 09 23 53-0329	Electric And Electronic Thermostats <small>(23 09 23 53-0328)</small>	
Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.		
23 09 23 53-0330 EA Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018).....	219.02	20.55
23 09 23 53-0331 EA Electronic Non Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320).....	233.51	20.55
23 09 23 53-0332 EA Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110).....	217.41	20.55
23 09 23 53-0333 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220).....	239.46	20.55

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0334 EA Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320).....	256.04	20.55
23 09 23 53-0335 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321).....	362.25	20.55
23 09 23 53-0336 EA Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F).....	513.53	20.55
23 09 23 53-0337 EA Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H).....	812.65	20.55
23 09 23 53-0338 EA Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M).....	864.62	20.55
23 09 23 53-0339 Pneumatic Thermostats (23 09 23 53-0328) Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.		
23 09 23 53-0340 EA Pneumatic Thermostat (Honeywell TP970B2182).....	285.00	20.55
23 09 23 53-0341 Thermostats Guards (23 09 23 53-0328)		
23 09 23 53-0342 EA 9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009).....	72.41	20.55
23 09 23 53-0343 EA 7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511).....	84.48	20.55
23 09 23 53-0344 EA 5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510).....	80.14	20.55
23 09 23 53-0345 Johnson Controls (23 09 23 53)		
23 09 23 53-0346 Software (23 09 23 53-0345) Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0347 EA 5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0).....	16,476.94	
23 09 23 53-0348 EA 10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0).....	19,467.46	
23 09 23 53-0349 EA N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0).....	1,059.53	
23 09 23 53-0350 EA N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2).....	1,552.37	
23 09 23 53-0351 EA BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0).....	2,670.39	
23 09 23 53-0352 EA BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0).....	1,067.87	
23 09 23 53-0353 EA New User FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0).....	1,062.93	
23 09 23 53-0354 EA Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6).....	452.75	
23 09 23 53-0355 Supervisory Controllers (23 09 23 53-0345)		
23 09 23 53-0356 EA NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2).....	8,242.65	548.10
23 09 23 53-0357 EA NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2).....	12,186.63	548.10
23 09 23 53-0358 EA NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1).....	16,139.35	548.10
23 09 23 53-0359 EA NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS-NCE2510-0).....	6,723.45	548.10
23 09 23 53-0360 Controllers (23 09 23 53-0345)		
23 09 23 53-0361 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0).....	967.21	137.03
23 09 23 53-0362 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0).....	1,230.19	274.05
23 09 23 53-0363 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0).....	1,699.73	274.05
23 09 23 53-0364 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0).....	1,962.71	274.05
23 09 23 53-0365 EA BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0).....	816.34	137.03
23 09 23 53-0366 EA BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0).....	883.39	137.03
23 09 23 53-0367 EA BACnet MS/TP 12 Point I/O Module with 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0).....	983.98	137.03
23 09 23 53-0368 EA 17 Point I/O Module with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IU4710-0).....	997.39	137.03
23 09 23 53-0369 EA BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2).....	2,031.13	274.05
23 09 23 53-0370 EA 32-bit, Integrated VAV Controller/Actuator/DPT, 3 UI, 3 BO, and 2 CO; 24 Volt AC; Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1630-0).....	980.39	137.03
23 09 23 53-0371 EA 32-bit, Integrated VAV Controller/Actuator/Pressure Sensor - DPT, 3 UI and 3 BO, 2 CO, 24 Volt AC, and Sensor Actuator Bus (Johnson Controls MS-VMA1930-0).....	1,363.69	137.03
Note: Includes 6-pin Sensor Port for use with TE-7xx Series Non-Communicating Sensors and two Ethernet Ports for BACnet/IP Communications		
23 09 23 53-0372 Master FX Controllers (23 09 23 53-0345)		
23 09 23 53-0373 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C).....	2,493.77	274.05
23 09 23 53-0374 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C).....	2,652.83	274.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0375 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C).....	2,731.87	274.05
23 09 23 53-0376 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C).....	2,683.83	274.05
23 09 23 53-0377 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C).....	2,608.76	274.05
23 09 23 53-0378 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C).....	2,620.80	274.05
23 09 23 53-0379 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C).....	2,608.76	274.05
23 09 23 53-0380 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C).....	2,653.00	274.05
23 09 23 53-0381 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C).....	2,790.37	274.05
23 09 23 53-0382 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C).....	2,881.94	274.05
23 09 23 53-0383 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C).....	2,836.15	274.05
23 09 23 53-0384 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C).....	2,742.42	274.05
23 09 23 53-0385 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C).....	2,653.00	274.05
23 09 23 53-0386 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C).....	2,790.37	274.05
23 09 23 53-0387 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C).....	2,881.94	274.05
23 09 23 53-0388 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C).....	2,836.15	274.05
23 09 23 53-0389 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C).....	2,742.42	274.05
23 09 23 53-0390 EA N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C).....	299.28	68.51
23 09 23 53-0391 EA LON Communication Card For FX15 and FX16 (Johnson Controls LP-NET152-010C).....	411.97	68.51
23 09 23 53-0392 EA RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C).....	330.91	68.51
23 09 23 53-0393 EA BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C).....	299.28	68.51
23 09 23 53-0394 EA Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C).....	819.16	68.51
23 09 23 53-0395 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....	761.20	68.51
23 09 23 53-0396 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....	774.77	68.51
23 09 23 53-0397 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....	774.77	68.51
23 09 23 53-0398 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....	842.57	68.51
23 09 23 53-0399 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....	842.57	68.51
23 09 23 53-0400 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....	1,037.49	68.51
23 09 23 53-0401 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C).....	1,037.49	68.51
23 09 23 53-0402 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C).....	1,147.66	68.51
23 09 23 53-0403 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C).....	1,147.66	68.51
23 09 23 53-0404 VAV, Network And Special Sensors <small>(23 09 23 53-0345)</small>		
23 09 23 53-0405 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0).....	527.53	43.85
23 09 23 53-0406 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0).....	195.00	43.85
23 09 23 53-0407 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0).....	414.56	43.85
23 09 23 53-0408 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0).....	606.31	43.85
23 09 23 53-0409 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0).....	219.90	43.85
23 09 23 53-0410 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0).....	552.24	43.85
23 09 23 53-0411 Sensors - Hard Wired Type <small>(23 09 23 53-0345)</small>		
23 09 23 53-0412 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00).....	212.33	78.93
23 09 23 53-0413 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0).....	166.53	43.85
23 09 23 53-0414 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2).....	416.76	20.55
Note: For fan coil units, unit heaters and single stage packaged heating/cooling equipment.		
23 09 23 53-0415 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2).....	554.38	20.55
Note: For two or four pipe fan coils, cabinet unit heaters or other equipment using on/off, floating, or proportional 0 to 10 Volt DC control input, three speeds of fan control, and dehumidification capability.		
23 09 23 53-0416 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2).....	417.52	20.55
Note: For VVT systems.		
23 09 23 53-0417 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2).....	539.96	43.85
23 09 23 53-0418 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR).....	659.07	43.85
23 09 23 53-0419 Melink Intelli-Hood IH3 Controls <small>(23 09 23 53)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0420 Kitchen Ventilation Controllers <small>(23 09 23 53-0419)</small>		
23 09 23 53-0421 EA Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001).....	9,395.07	548.10
Note: RS-485 communication protocol supports up to 39 Hood Controllers, 10 graphical user interface devices, 10 auxiliary power supplies, and 10 auxiliary light controllers. Modbus VFD communications interface for support of up to 64 variable frequency drives, programmable I/O points. Includes 3 digital inputs, 4 digital outputs, 1 analog output, and 1 analog input. BACnet over TCP/IP Interface, Real-Time Clock with battery back-up.		
23 09 23 53-0422 EA Graphical User Interface (Melink Intelli-Hood 2KPD-3001).....	1,655.45	113.04
Note: Full color 2.5" display and programming interface device. RS-485 communication protocol for interface with main controller.		
23 09 23 53-0423 EA Hood Controller (Melink Intelli-Hood 2SEN-3001).....	2,908.88	456.29
Note: 6 point field I/O device, RS-485 communication protocol, supports up to 4 field temperature sensors and 1 optic sensor system.		
23 09 23 53-0424 Kitchen Ventilation Sensors <small>(23 09 23 53-0419)</small>		
23 09 23 53-0425 EA Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q).....	513.08	78.93
Note: Includes UL listed mounting compression fitting, stainless steel probe protection sleeve, RJ-45 communication connector.		
23 09 23 53-0426 EA Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28).....	4,253.44	438.48
Note: Includes air purge unit, infrared emitter/receiver with stainless steel housings. Auto-calibration, 0.2 second response time, conformal-coated circuit boards, purge pipe assembly complete with UL listed compression fittings, communication interface cables and blower box assembly.		
23 09 23 53-0427 Siemens Controls <small>(23 09 23 53)</small>		
23 09 23 53-0428 EA Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083).....	403.21	20.55
23 09 23 53-0429 EA Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085).....	292.82	20.55
23 09 23 53-0430 EA SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575).....	332.41	92.57
23 09 23 53-0431 EA -0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591).....	473.34	92.57
23 09 23 53-0432 EA Spring Clip Mounting Kit For Thermostat (Siemens 182-685).....	67.01	13.71
23 09 23 53-0433 EA Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001).....	226.47	137.03
23 09 23 53-0434 EA 3/4" Two Way, Normally Closed, 6.3 Cv, FxF, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012).....	363.21	24.51
23 09 23 53-0435 EA 1" Three Way, 10 Cv, FxF, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079).....	641.53	44.49
23 09 23 53-0436 EA 1" Three Way, 10 Cv, FxF, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203).....	1,260.53	44.49
23 09 23 53-0437 EA 1-1/4" Two Way, 16 Cv, FxF, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006).....	1,079.02	56.36
23 09 23 53-0438 EA 36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36).....	324.01	78.93
23 09 23 53-0439 EA -58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768).....	257.85	43.85
23 09 23 53-0440 EA Unit Conditioner Controller With Secure Mode (Siemens 540-110C).....	1,476.59	219.24
23 09 23 53-0441 EA 9-Pin, Female To RJ-11 Cable (Siemens 540-143).....	98.31	6.85
23 09 23 53-0442 EA Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800).....	1,661.19	219.24
23 09 23 53-0443 EA MMI Extension Cable (Siemens 545-712).....	178.44	6.85
23 09 23 53-0444 EA Remote Pressure Transmitter (Siemens 547-003).....	1,232.65	43.85
23 09 23 53-0445 EA Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400).....	846.96	109.62
23 09 23 53-0446 EA BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433).....	698.48	109.62
23 09 23 53-0447 EA Door Lock And Key Assembly (Siemens 567-225).....	42.54	27.40
23 09 23 53-0448 EA Insight Advanced Software Package (Siemens 571-010-381-USB).....	12,314.19	
Note: Includes one user license and one sentinel key.		
23 09 23 53-0449 EA BACnet Client Option For Insight Advanced Software Package (Siemens 571-188).....	546.09	
23 09 23 53-0450 EA Soft Controller Option For Insight Advanced Software Package (Siemens 571-620).....	2,802.66	
23 09 23 53-0451 EA 1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059).....	427.22	14.80
23 09 23 53-0452 EA 2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03062).....	891.42	25.64
23 09 23 53-0453 EA Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C).....	12,295.57	548.10
23 09 23 53-0454 EA SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modern With HOA (Siemens 986-83482F).....	13,723.18	548.10
23 09 23 53-0455 EA 7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U).....	157.80	20.55
23 09 23 53-0456 EA Two Position, 24 Volt AC/Volt DC, Standard Cabling, Dual Auxiliary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U).....	651.44	115.63
23 09 23 53-0457 EA Modulating, 0 To 10 Volt DC, 24 Volt AC/Volt DC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U).....	676.22	115.63
23 09 23 53-0458 EA License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-36.A).....	3,547.37	
23 09 23 53-0459 EA License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN).....	716.31	
23 09 23 53-0460 EA License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A).....	2,305.37	
23 09 23 53-0461 EA License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM-FPWEB).....	1,650.33	
23 09 23 53-0462 EA License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A).....	1,418.70	
23 09 23 53-0463 EA License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP).....	4,194.32	
23 09 23 53-0464 EA 16-Switch HOA Upgrade Kit (Siemens PXA16-M).....	674.52	2.74
23 09 23 53-0465 EA 16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR).....	751.92	10.96
23 09 23 53-0466 EA 8-Switch HOA Upgrade Kit (Siemens PXA8-M).....	384.70	2.74
23 09 23 53-0467 EA 18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18).....	474.02	27.40
23 09 23 53-0468 EA 19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19).....	752.19	27.40
23 09 23 53-0469 EA 34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34).....	996.48	27.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0470 EA Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24-Point Compact Series (Siemens PXA-HMI.CABLEP5).....	40.81	13.71
23 09 23 53-0471 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA).....	950.16	68.51
23 09 23 53-0472 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA).....	1,348.23	68.51
23 09 23 53-0473 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA).....	1,096.82	68.51
23 09 23 53-0474 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA).....	1,515.86	68.51
23 09 23 53-0475 EA PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A).....	7,316.70	767.34
23 09 23 53-0476 EA PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A).....	5,627.02	219.24
23 09 23 53-0477 EA Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A).....	9,560.78	876.96
23 09 23 53-0478 EA 16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A).....	3,405.81	411.08
23 09 23 53-0479 EA 16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A).....	3,689.99	411.08
23 09 23 53-0480 EA 16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A).....	3,501.69	411.08
23 09 23 53-0481 EA 24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A).....	4,207.99	438.48
23 09 23 53-0482 EA 24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A).....	4,404.21	438.48
23 09 23 53-0483 EA 24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A).....	4,355.53	438.48
23 09 23 53-0484 EA 24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-ERF.A).....	4,531.34	438.48
23 09 23 53-0485 EA 24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A).....	4,351.10	438.48
23 09 23 53-0486 EA 24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A).....	4,530.14	438.48
23 09 23 53-0487 EA 36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A).....	6,879.25	767.34
23 09 23 53-0488 EA 36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A).....	10,556.82	876.96
23 09 23 53-0489 EA License To Enable The Island Bus On PXC00-E96.A and PXC00-PE96.A (Siemens PXF-TXIO.A).....	1,064.24	
23 09 23 53-0490 EA Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S).....	647.53	54.81
23 09 23 53-0491 EA Controller Mounted Operator Display Module (Siemens PXM10T).....	806.66	109.62
23 09 23 53-0492 EA Provides FLN Support For The PXC Modular (Siemens PXX-485.3).....	740.07	27.40
Note: Includes Three RS-485 P1 FLN Connections Or One MS/TP FLN Connection, Maximum Of 96 Devices Supported		
23 09 23 53-0493 EA Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN).....	385.63	78.93
23 09 23 53-0494 EA Digital Temperature Room Unit For TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC).....	262.07	43.85
23 09 23 53-0495 EA 4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010).....	175.36	43.85
23 09 23 53-0496 EA 8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....	233.66	78.93
23 09 23 53-0497 EA 24' Flexible Averaging Probe (Siemens QAM2012.750).....	352.00	78.93
23 09 23 53-0498 EA 2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....	285.17	78.93
23 09 23 53-0499 EA 10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....	3,055.58	441.49
23 09 23 53-0500 EA Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....	37.80	13.71
23 09 23 53-0501 EA Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....	0.70	
23 09 23 53-0502 EA 16 Digital Input Module (Siemens TXM1.16D).....	570.93	13.71
23 09 23 53-0503 EA 6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....	842.06	13.71
23 09 23 53-0504 EA 8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....	1,325.91	27.40
23 09 23 53-0505 EA 1.2 A, 4A Fuse, Power Supply (Siemens TXS1.12F4).....	488.97	43.85
23 09 23 53-0506 Trane Controls (23 09 23 53)		
23 09 23 53-0507 Software (23 09 23 53-0506)		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0508 EA Summit + Building Management Package (Trane 40201152).....	6,180.04	
23 09 23 53-0509 EA Summit Current Version Software (Trane 40201111).....	3,538.43	
23 09 23 53-0510 EA Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113).....	827.11	
23 09 23 53-0511 EA Rover Service Software And Hardware, Complete Kit (Trane X1365150001).....	3,519.30	
23 09 23 53-0512 EA Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000).....	9,519.59	
23 09 23 53-0513 EMCS Central Equipment And Controllers (23 09 23 53-0506)		
23 09 23 53-0514 EA Summit BTMX Operator Display Upgrade (Trane 40201224).....	6,418.87	548.10
23 09 23 53-0515 EA Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531).....	13,131.58	548.10
23 09 23 53-0516 EA Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532).....	13,131.58	548.10
23 09 23 53-0517 EA Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00).....	11,674.01	548.10
23 09 23 53-0518 EA Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10).....	13,368.71	548.10
23 09 23 53-0519 EA Summit CCP Upgrade ROM Kit (Trane 40201095).....	221.40	34.26
23 09 23 53-0520 EA Summit Comm5 Repeater (Trane 49500457).....	1,718.21	274.05
23 09 23 53-0521 EA AHU Controller MP580/581 E Board Only (Trane 40201157).....	2,791.20	342.56
23 09 23 53-0522 EA AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01).....	3,551.74	411.08
23 09 23 53-0523 EA AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00).....	2,878.22	411.08
23 09 23 53-0524 EA AHU Controller MP581 Operator Door Display (Trane 40201156).....	2,498.22	411.08
23 09 23 53-0525 EA AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491).....	2,495.30	411.08
23 09 23 53-0526 EA Controller MP503 I/O Module With Metal Enclosure (Trane 49500590).....	1,075.73	137.03
23 09 23 53-0527 EA Controller MP503 I/O Module With Plastic Cover (Trane 49500490).....	992.01	137.03
23 09 23 53-0528 EA Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500).....	1,816.65	274.05
23 09 23 53-0529 EA Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499).....	1,747.22	274.05
23 09 23 53-0530 EA 2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569).....	961.34	137.03
23 09 23 53-0531 EA 2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469).....	860.53	137.03
23 09 23 53-0532 EA 4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596).....	1,209.41	137.03
23 09 23 53-0533 EA 4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496).....	1,109.14	137.03
23 09 23 53-0534 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 4950049).....	970.32	137.03
23 09 23 53-0535 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496).....	931.44	137.03
23 09 23 53-0536 EA Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570).....	1,050.03	137.03

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0537 EA Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470)	970.32	137.03
23 09 23 53-0538 EA DDC VAV Retrofit Kit (Trane VRTODD01)	1,437.28	274.05
23 09 23 53-0539 EA DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO)	1,536.43	274.05
23 09 23 53-0540 Network, VAV And Special Sensors (23 09 23 53-0506)		
23 09 23 53-0541 EA Digital Display Zone Sensor (Trane X13790464010)	223.91	43.85
23 09 23 53-0542 EA Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010)	158.94	43.85
23 09 23 53-0543 EA Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010)	147.98	43.85
23 09 23 53-0544 EA Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01)	272.83	49.33
23 09 23 53-0545 EA Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121)	173.88	43.85
23 09 23 53-0546 EA Zone Sensor LCD O/C Setpoint (Trane 41901120)	173.88	43.85
23 09 23 53-0547 EA Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010)	558.18	78.93
23 09 23 53-0548 EA Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010)	492.41	43.85
23 09 23 53-0549 EA Transformer 120/24 40 VA (Trane X13550284010)	142.50	43.85
23 09 23 53-0550 EA Transformer 24 Volt AC Wall Plug-In (Trane 35803005)	138.58	43.85
23 09 23 53-0551 EA Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022)	132.32	43.85
23 09 23 53-0552 EA Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010)	1,575.64	274.05
23 09 23 53-0553 EA Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010)	1,522.15	274.05
23 09 23 53-0554 EA Controller UC400 XM32 Module (4 Relay) (Trane X13651563010)	1,410.69	274.05
23 09 23 53-0555 EA Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010)	2,434.34	411.08
23 09 23 53-0556 EA Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010)	1,410.69	274.05
23 09 23 53-0557 EA Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011)	1,467.15	274.05
23 09 23 53-0558 EA Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011)	1,471.75	274.05
23 09 23 53-0559 EA Controller Optional Metal Enclosure, UC210 (Trane 501898)	572.86	272.89
23 09 23 53-0560 EA Controller UC400 PM014 24 Volt AC To 1.4 Amperes, 24 Volt DC (Trane X1365153801)	761.40	272.89
23 09 23 53-0561 EA Controller Tracer UC600 Controller (Trane BMUC600AAA0100011)	2,671.53	411.08
23 09 23 53-0562 EA Controller UC600 Tracer TD7 Display (Trane X13651571010)	2,585.42	411.08
23 09 23 53-0563 EA Controller UC600 TD7 Mounting Bracket (Trane X05010511010)	162.07	54.61
23 09 23 53-0564 EA Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010)	530.99	54.61
23 09 23 53-0565 EA SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010)	2,724.76	411.08
23 09 23 53-0566 EA BACnet Term (2 Pack) (Trane X1365152401)	263.27	98.24
23 09 23 53-0567 EA Tracer ES Add License (Trane X40250125010)	3,330.59	
23 09 23 53-0568 EA Kit - Tracer TU For Controls (Trane X4509151201)	4,778.77	548.10
23 09 23 53-0569 EA Kit - Tracer TU Complete (Trane X4509151301)	6,090.74	548.10
23 09 23 53-0570 EA Tracer TU Adapter Wired/Wireless (Trane X13651529010)	595.18	98.24
23 09 23 53-0571 EA Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010)	364.25	98.24
23 09 23 53-0572 EA Sensor Wireless Display Sensor (Trane X13790822010)	404.96	98.24
23 09 23 53-0573 EA Sensor Wireless Receiver, 100mW (Trane X13790854010)	368.17	98.24
23 09 23 53-0574 EA Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010)	480.63	98.24
23 09 23 53-0575 EA Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010)	518.97	98.24
23 09 23 53-0576 Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators (23 09 23 53)		
23 09 23 53-0577 Current Switches And Current Sensors (23 09 23 53-0576)		
23 09 23 53-0578 EA Up To 20 Amperes, 0 To 5 Volt DC, Current Sensor (Senva C-1203)	150.33	43.85
23 09 23 53-0579 EA Up To 20 Amperes, 4-20mA, Current Sensor (Senva C-1205)	155.02	43.85
23 09 23 53-0580 EA 0.5 To 135 Amperes Range, Split Core, VFD Current Switch (Senva C-2350VFD-L)	223.91	43.85
23 09 23 53-0581 EA 0.15 To 100 Amperes Range, Split Core, Current Switch With NC Command Relay (Senva C-2300 And CR4-24)	144.06	43.85
23 09 23 53-0582 EA 0 To 50/100/200 Amperes (Selectable), 4-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970HCA)	383.60	43.85
23 09 23 53-0583 EA 0 To 20/40/80 Amperes (Selectable), 0-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970LCC)	254.95	43.85
23 09 23 53-0584 EA 1 To 135 Amperes, N.O. Contact, 1 Ampere At 110 Volt, Current Switch (Veris H709)	201.35	43.85
23 09 23 53-0585 EA 0 To 10/20/40 Amperes, 4-20mA Analog Output, Solid Core, Loop Powered, Current Switch (Veris H721)	201.35	43.85
23 09 23 53-0586 EA Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC)	4,775.32	219.24
23 09 23 53-0587 EA 100 Amperes, Modbus RTU, Power Transducer (Veris H8035-0100-2)	1,206.64	43.85
23 09 23 53-0588 EA Note: 3 phase networked transducer. 2,400 Amperes, Three Current Switches, Pulse Output, Phase Loss Alarm Output, Energy Meter (Veris H8163-2400-4-3)	1,819.26	43.85
23 09 23 53-0589 EA Up To 20 Amperes, 0-5 Volt DC, Current Transducer (Kele 4CTV)	213.95	43.85
23 09 23 53-0590 EA Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800)	353.22	116.48
23 09 23 53-0591 EA Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900)	353.60	116.48
23 09 23 53-0592 EA Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708)	372.39	116.48
23 09 23 53-0593 EA Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908)	377.08	116.48
23 09 23 53-0594 EA Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904)	403.70	116.48
23 09 23 53-0595 EA Toggle Switch	148.93	54.81
23 09 23 53-0596 EA Maintained Pushbutton Switch	156.59	54.81
23 09 23 53-0597 EA Manual Time Switch	228.87	54.81
23 09 23 53-0598 EA Emergency Stop Switch	358.10	54.81
23 09 23 53-0599 EA Float Switch	382.89	54.81
23 09 23 53-0600 EA Break Glass Switch	1,125.39	54.81
23 09 23 53-0601 EA Boiler E-Stop Switch	769.17	54.81
23 09 23 53-0602 Relays (23 09 23 53-0576)		
23 09 23 53-0603 EA DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V)	129.19	43.85
23 09 23 53-0604 EA SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1)	138.82	43.85
23 09 23 53-0605 EA SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B)	191.61	54.81
23 09 23 53-0606 EA Note: Box type. Motor Starter Interface, 300msec Pulse (Kele PIL-2)	225.19	43.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0607 EA DP Relay Socket, DIN Rail Mounted (Kele SH2B-05)	122.21	43.85
23 09 23 53-0608 EA SP Relay Socket, DIN Rail Mounted (Kele SH1B-05)	120.80	43.85
23 09 23 53-0609 EA SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V)	129.19	43.85
23 09 23 53-0610 EA DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V)	133.59	43.85
23 09 23 53-0611 EA SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-ULAC24V)	134.79	43.85
23 09 23 53-0612 EA SPDT Pilot Relay, Universal (Kele RIBU1C)	151.04	54.81
Note: Box type.		
23 09 23 53-0613 EA SPST Pilot Relay With HOA Switch (Kele RIBU1S)	190.34	54.81
Note: Box type.		
23 09 23 53-0614 EA SPDT 3 Phase Line Voltage Monitor, 1-5 Minute Delay On Break Timer (ICM400)	311.53	54.81
23 09 23 53-0615 EA SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450)	309.79	54.81
23 09 23 53-0616 Transformers (23 09 23 53-0576)		
23 09 23 53-0617 EA 50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA)	149.29	43.85
23 09 23 53-0618 EA 75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB)	160.22	43.85
23 09 23 53-0619 EA 75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA)	160.22	43.85
23 09 23 53-0620 EA 100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB)	170.11	43.85
23 09 23 53-0621 EA 100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA)	176.20	43.85
23 09 23 53-0622 Power Supplies (23 09 23 53-0576)		
23 09 23 53-0623 EA Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA)	210.77	43.85
23 09 23 53-0624 EA AC/DC Power Supply, 1.2 Amperes At 24 Volt Output (Kele DCPA-1.2)	241.10	43.85
23 09 23 53-0625 EA DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524)	227.43	43.85
23 09 23 53-0626 EA DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D)	233.90	43.85
23 09 23 53-0627 EA DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H)	228.14	43.85
23 09 23 53-0628 EA DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P)	237.78	43.85
23 09 23 53-0629 EA DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amperes (Kele DCP-1.5-W-C)	184.71	43.85
23 09 23 53-0630 Control Damper Actuators (23 09 23 53-0576)		
23 09 23 53-0631 EA 44 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR)	543.64	115.79
23 09 23 53-0632 EA 90 IN-LB, 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR)	580.26	115.79
23 09 23 53-0633 EA 90 IN-LB, 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP)	640.24	115.79
23 09 23 53-0634 EA 175 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR)	668.90	115.79
23 09 23 53-0635 EA 90 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR)	685.91	115.79
23 09 23 53-0636 EA 360 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR)	752.78	115.79
23 09 43 Pneumatic Control System For HVAC (23 09)		
23 09 43 00-0001 Pneumatic Tubing For HVAC Instrumentation and Control Devices (23 09 43)		
23 09 43 00-0002 Polyurethane Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0003 LF 1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing	2.77	1.17
23 09 43 00-0004 LF 5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	3.34	1.20
23 09 43 00-0005 LF 3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	4.16	1.24
23 09 43 00-0006 LF 1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	5.09	1.27
23 09 43 00-0007 Fire Resistant Polyethylene Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0008 LF 1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.55	1.17
23 09 43 00-0009 LF 5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.71	1.20
23 09 43 00-0010 LF 3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	3.02	1.24
23 09 43 00-0011 LF 1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	3.59	1.27
23 09 43 00-0012 Nylon Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0013 LF 1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing	2.86	1.13
23 09 43 00-0014 LF 1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing	3.59	1.17
23 09 43 00-0015 LF 3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing	5.09	1.24
23 09 43 00-0016 LF 1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing	6.33	1.27
23 09 43 00-0017 Flexible Vinyl Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0018 LF 1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing	2.84	1.17
23 09 43 00-0019 LF 3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing	4.18	1.24
23 09 43 00-0020 LF 1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing	4.91	1.27
23 09 43 00-0021 LF 5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing	5.83	1.31
23 09 43 00-0022 LF 3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing	6.51	1.34
23 09 43 00-0023 LF 1" Outside Diameter Flexible Vinyl Pneumatic Tubing	8.63	1.38
23 09 43 00-0024 Braided Vinyl Pneumatic Tubing (23 09 43 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 43 Pneumatic Control System For HVAC**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 43 00-0025	LF		5/8" Outside Diameter Braided Vinyl Pneumatic Tubing.....	3.68	1.31
23 09 43 00-0026	LF		3/4" Outside Diameter Braided Vinyl Pneumatic Tubing.....	4.16	1.34
23 09 43 00-0027	LF		1" Outside Diameter Braided Vinyl Pneumatic Tubing.....	5.02	1.38
23 09 43 00-0028			Copper Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0029	LF		1/4" Outside Diameter Copper Pneumatic Tubing.....	5.94	2.51
23 09 43 00-0030	LF		3/8" Outside Diameter Copper Pneumatic Tubing.....	7.12	2.89
23 09 43 00-0031	LF		1/2" Outside Diameter Copper Pneumatic Tubing.....	8.23	3.33
23 09 43 00-0032	LF		5/8" Outside Diameter Copper Pneumatic Tubing.....	9.96	3.83
23 09 43 00-0033	LF		3/4" Outside Diameter Copper Pneumatic Tubing.....	11.37	4.40
23 09 43 00-0034			Brass Couplings (23 09 43 00-0001)		
			See CSI section 22 11 16 00-0368 for copper tubing.		
23 09 43 00-0035			Straight Brass Couplings (23 09 43 00-0034)		
			Note: Barb x Barb		
23 09 43 00-0036	EA		1/4" x 1/4" Straight Brass Coupling.....	13.33	6.34
23 09 43 00-0037	EA		3/8" x 1/4" Straight Brass Coupling.....	13.44	6.34
23 09 43 00-0038	EA		3/8" x 3/8" Straight Brass Coupling.....	13.54	6.34
23 09 43 00-0039			Elbow Brass Couplings (23 09 43 00-0034)		
			Note: Barb x Barb		
23 09 43 00-0040	EA		1/4" x 1/4" Elbow Brass Coupling.....	13.93	6.34
23 09 43 00-0041	EA		3/8" x 3/8" Elbow Brass Coupling.....	14.29	6.34
23 09 43 00-0042			Tee Brass Couplings (23 09 43 00-0034)		
			Note: Barb x Barb		
23 09 43 00-0043	EA		1/4" x 1/4" x 1/4" Tee Brass Coupling.....	21.38	9.86
23 09 43 00-0044	EA		3/8" x 3/8" x 1/4" Tee Brass Coupling.....	24.09	10.56
23 09 43 00-0045	EA		3/8" x 3/8" x 3/8" Tee Brass Coupling.....	23.70	10.56
23 10 Facility Fuel Systems (23)					
23 11 Facility Fuel Piping (23 10)					
23 11 23 Facility Natural-Gas Piping (23 11)					
23 11 23 00-0001			Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)		
23 11 23 00-0002			Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
			Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.		
23 11 23 00-0003	LF		3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	6.41	2.47
23 11 23 00-0004	LF		1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	7.02	2.68
23 11 23 00-0005	LF		3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	8.27	2.89
23 11 23 00-0006	LF		1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	10.17	3.06
23 11 23 00-0007	LF		1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	11.81	3.22
23 11 23 00-0008	LF		1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	17.23	3.35
23 11 23 00-0009	LF		2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	22.89	3.56
23 11 23 00-0010			Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
23 11 23 00-0011			Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0012	EA		3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	31.05	
23 11 23 00-0013	EA		3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	31.05	
23 11 23 00-0014	EA		1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.25	
23 11 23 00-0015	EA		1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.25	
23 11 23 00-0016	EA		3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	39.09	
23 11 23 00-0017	EA		1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	51.65	
23 11 23 00-0018	EA		1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	51.65	
23 11 23 00-0019	EA		1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	83.12	
23 11 23 00-0020	EA		1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	146.24	
23 11 23 00-0021	EA		2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	232.24	
23 11 23 00-0022			Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0023	EA		3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	30.25	
23 11 23 00-0024	EA		1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0025	EA			1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 33.25	33.25	
23 11 23 00-0026	EA			3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 39.09	39.09	
23 11 23 00-0027	EA			3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 39.09	39.09	
23 11 23 00-0028	EA			1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 49.70	49.70	
23 11 23 00-0029	EA			1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 49.70	49.70	
23 11 23 00-0030				Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0031	EA			3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 39.56	39.56	
23 11 23 00-0032	EA			1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 50.41	50.41	
23 11 23 00-0033				Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0034	EA			3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 39.68	39.68	
23 11 23 00-0035	EA			1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 43.76	43.76	
23 11 23 00-0036	EA			3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 53.72	53.72	
23 11 23 00-0037	EA			1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 74.47	74.47	
23 11 23 00-0038	EA			1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 133.56	133.56	
23 11 23 00-0039	EA			1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 253.90	253.90	
23 11 23 00-0040	EA			2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 416.72	416.72	
23 11 23 00-0041				Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0042	EA			1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 55.36	55.36	
23 11 23 00-0043	EA			3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 84.20	84.20	
23 11 23 00-0044	EA			1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 128.46	128.46	
23 11 23 00-0045	EA			1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 214.59	214.59	
23 11 23 00-0046	EA			1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 230.38	230.38	
23 11 23 00-0047	EA			2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 263.39	263.39	
23 11 23 00-0048				Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0049	EA			3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 36.22	36.22	
23 11 23 00-0050	EA			1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 37.64	37.64	
23 11 23 00-0051	EA			3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 40.79	40.79	
23 11 23 00-0052	EA			1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 52.94	52.94	
23 11 23 00-0053	EA			1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 53.61	53.61	
23 11 23 00-0054				Outdoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0055	EA			3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 39.32	39.32	
23 11 23 00-0056	EA			1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 40.61	40.61	
23 11 23 00-0057	EA			3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 47.08	47.08	
23 11 23 00-0058	EA			1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 54.71	54.71	
23 11 23 00-0059	EA			1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe..... 54.71	54.71	
23 11 23 00-0060				Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0061	EA			3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 68.06	68.06	
23 11 23 00-0062	EA			1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 69.79	69.79	
23 11 23 00-0063	EA			3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 72.81	72.81	
23 11 23 00-0064	EA			1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 106.48	106.48	
23 11 23 00-0065	EA			1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 110.29	110.29	
23 11 23 00-0066	EA			1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 151.92	151.92	
23 11 23 00-0067	EA			2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe 185.07	185.07	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0068 Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0069 EA 3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	71.06	
23 11 23 00-0070 EA 1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.73	
23 11 23 00-0071 EA 3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	78.98	
23 11 23 00-0072 EA 1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	130.09	
23 11 23 00-0073 EA 1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	134.11	
23 11 23 00-0074 EA 1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	178.46	
23 11 23 00-0075 EA 2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	221.03	
23 11 23 00-0076 Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0077 EA 1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.19	
23 11 23 00-0078 EA 3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	42.15	
23 11 23 00-0079 EA 1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	60.59	
23 11 23 00-0080 EA 1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	89.42	
23 11 23 00-0081 EA 1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	166.34	
23 11 23 00-0082 EA 2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	260.10	
23 11 23 00-0083 Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
Note: Includes mounting plate.		
23 11 23 00-0084 EA 1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.99	
23 11 23 00-0085 EA 3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	36.89	
23 11 23 00-0086 EA 1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	34.02	
23 11 23 00-0087 EA 1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	34.11	
23 11 23 00-0088 EA 3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	35.69	
23 11 23 00-0089 EA 1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.57	
23 11 23 00-0090 EA 1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	49.00	
23 11 23 00-0091 Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.		
23 11 23 00-0092 EA 1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	94.04	25.94
23 11 23 00-0093 EA 3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	105.02	27.23
23 11 23 00-0094 Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0095 EA 3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	69.87	22.70
23 11 23 00-0096 EA 1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	81.66	26.97
23 11 23 00-0097 EA 3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	99.76	32.42
23 11 23 00-0098 EA 1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	126.37	43.31
23 11 23 00-0099 Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
Note: Includes mounting hardware.		
23 11 23 00-0100 EA 1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	85.31	26.97
23 11 23 00-0101 EA 3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	97.85	32.42
23 11 23 00-0102 EA 1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	90.25	26.97
23 11 23 00-0103 EA 3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	101.05	32.42
23 11 23 00-0104 EA 2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	203.99	81.05
23 11 23 00-0105 Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0106 EA 1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	89.31	26.97
23 11 23 00-0107 EA 1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	89.31	26.97
23 11 23 00-0108 EA 1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	118.86	26.97
23 11 23 00-0109 EA 3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	129.66	32.42
23 11 23 00-0110 EA 3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	129.66	32.42
23 11 23 00-0111 EA 1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	151.27	43.31
23 11 23 00-0112 EA 1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	216.83	48.63
23 11 23 00-0113 EA 1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	113.63	26.97
23 11 23 00-0114 EA 3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	263.49	32.42



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0115	EA	1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	623.00	48.63
23 11 23 00-0116		Polymer Coated Stainless Steel, Flexible Gas Appliance Connectors (Brass Craft) ^(23 11 23)		
23 11 23 00-0117		3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0118	EA	12" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-12).....	56.02	19.45
23 11 23 00-0119	EA	18" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-18).....	61.43	20.74
23 11 23 00-0120	EA	24" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-24).....	66.62	20.74
23 11 23 00-0121	EA	30" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-30).....	69.90	22.04
23 11 23 00-0122	EA	36" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-36).....	74.05	22.04
23 11 23 00-0123	EA	48" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-48).....	83.39	23.34
23 11 23 00-0124	EA	60" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-60).....	91.88	23.34
23 11 23 00-0125	EA	72" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-72).....	100.26	24.64
23 11 23 00-0126		3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0127	EA	12" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-12).....	56.02	19.45
23 11 23 00-0128	EA	18" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-18).....	61.43	20.74
23 11 23 00-0129	EA	24" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-24).....	66.62	20.74
23 11 23 00-0130	EA	30" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-30).....	69.90	22.04
23 11 23 00-0131	EA	36" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-36).....	74.05	22.04
23 11 23 00-0132	EA	48" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-48).....	83.39	23.34
23 11 23 00-0133	EA	60" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-60).....	91.88	23.34
23 11 23 00-0134	EA	72" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-72).....	100.26	24.64
23 11 23 00-0135		3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0136	EA	12" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-12).....	56.02	19.45
23 11 23 00-0137	EA	18" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-18).....	61.43	20.74
23 11 23 00-0138	EA	24" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-24).....	66.62	20.74
23 11 23 00-0139	EA	30" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-30).....	69.90	22.04
23 11 23 00-0140	EA	36" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-36).....	74.05	22.04
23 11 23 00-0141	EA	48" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-48).....	83.39	23.34
23 11 23 00-0142	EA	60" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-60).....	91.88	23.34
23 11 23 00-0143	EA	72" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-72).....	100.26	24.64
23 11 23 00-0144		3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0145	EA	12" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-12).....	56.02	19.45
23 11 23 00-0146	EA	18" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-18).....	61.43	20.74
23 11 23 00-0147	EA	24" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-24).....	79.62	20.74
23 11 23 00-0148	EA	30" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-30).....	69.90	22.04
23 11 23 00-0149	EA	36" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-36).....	74.05	22.04
23 11 23 00-0150	EA	48" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-48).....	83.39	23.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0151 EA 60" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-60).....	91.88	23.34
23 11 23 00-0152 EA 72" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-72).....	100.26	24.64
23 11 23 00-0153 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0154 EA 12" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-12).....	61.03	19.45
23 11 23 00-0155 EA 18" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-18).....	67.65	20.74
23 11 23 00-0156 EA 24" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-24).....	66.62	20.74
23 11 23 00-0157 EA 30" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-30).....	77.84	22.04
23 11 23 00-0158 EA 36" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-36).....	74.05	22.04
23 11 23 00-0159 EA 48" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-48).....	83.39	23.34
23 11 23 00-0160 EA 60" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-60).....	91.88	23.34
23 11 23 00-0161 EA 72" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-72).....	100.26	24.64
23 11 23 00-0162 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0163 EA 12" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-12).....	56.02	19.45
23 11 23 00-0164 EA 24" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-24).....	73.98	20.74
23 11 23 00-0165 EA 30" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-30).....	69.90	22.04
23 11 23 00-0166 EA 36" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-36).....	74.05	22.04
23 11 23 00-0167 EA 48" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-48).....	83.39	23.34
23 11 23 00-0168 EA 60" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-60).....	105.13	23.34
23 11 23 00-0169 EA 72" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-72).....	100.26	24.64
23 11 23 00-0170 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0171 EA 12" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-12).....	56.02	19.45
23 11 23 00-0172 EA 18" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-18).....	61.43	20.74
23 11 23 00-0173 EA 24" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-24).....	66.62	20.74
23 11 23 00-0174 EA 30" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-30).....	69.90	22.04
23 11 23 00-0175 EA 36" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-36).....	74.05	22.04
23 11 23 00-0176 EA 48" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-48).....	83.39	23.34
23 11 23 00-0177 EA 60" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-60).....	91.88	23.34
23 11 23 00-0178 EA 72" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-72).....	100.26	24.64
23 11 23 00-0179 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0180 EA 12" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-12).....	56.02	19.45
23 11 23 00-0181 EA 18" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-18).....	61.43	20.74
23 11 23 00-0182 EA 24" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-24).....	66.62	20.74
23 11 23 00-0183 EA 30" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-30).....	69.90	22.04
23 11 23 00-0184 EA 36" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-36).....	74.05	22.04
23 11 23 00-0185 EA 48" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-48).....	83.39	23.34
23 11 23 00-0186 EA 60" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-60).....	91.88	23.34
23 11 23 00-0187 EA 72" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-72).....	100.26	24.64



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0188		3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0189	EA	18" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-18).....	67.65	20.74
23 11 23 00-0190	EA	24" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-24).....	66.62	20.74
23 11 23 00-0191	EA	30" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-30).....	77.84	22.04
23 11 23 00-0192	EA	36" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-36).....	82.84	22.04
23 11 23 00-0193	EA	48" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-48).....	94.55	23.34
23 11 23 00-0194		1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0195	EA	12" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-12).....	56.02	19.45
23 11 23 00-0196	EA	18" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-18).....	61.43	20.74
23 11 23 00-0197	EA	24" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-24).....	61.41	20.74
23 11 23 00-0198	EA	30" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-30).....	69.90	22.04
23 11 23 00-0199	EA	36" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-36).....	67.83	22.04
23 11 23 00-0200	EA	48" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-48).....	85.29	23.34
23 11 23 00-0201	EA	60" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-60).....	91.88	23.34
23 11 23 00-0202	EA	72" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-72).....	100.26	24.64
23 11 23 00-0203		1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0204	EA	12" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-12).....	56.02	19.45
23 11 23 00-0205	EA	18" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-18).....	57.19	20.74
23 11 23 00-0206	EA	24" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-24).....	58.54	20.74
23 11 23 00-0207	EA	30" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-30).....	69.90	22.04
23 11 23 00-0208	EA	36" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-36).....	74.05	22.04
23 11 23 00-0209	EA	48" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-48).....	75.27	23.34
23 11 23 00-0210	EA	60" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-60).....	91.88	23.34
23 11 23 00-0211	EA	72" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-72).....	100.26	24.64
23 11 23 00-0212		1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0213	EA	12" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-12).....	56.02	19.45
23 11 23 00-0214	EA	18" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-18).....	61.43	20.74
23 11 23 00-0215	EA	24" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-24).....	66.62	20.74
23 11 23 00-0216	EA	30" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-30).....	69.90	22.04
23 11 23 00-0217	EA	36" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-36).....	63.51	22.04
23 11 23 00-0218	EA	48" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-48).....	83.39	23.34
23 11 23 00-0219	EA	60" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-60).....	91.88	23.34
23 11 23 00-0220	EA	72" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-72).....	100.26	24.64
23 11 23 00-0221		3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0222	EA	12" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-12).....	73.87	19.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0223 EA 18" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-18).....	79.24	20.74
23 11 23 00-0224 EA 24" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-24).....	84.43	20.74
23 11 23 00-0225 EA 30" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-30).....	87.69	22.04
23 11 23 00-0226 EA 36" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-36).....	92.01	22.04
23 11 23 00-0227 EA 48" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-48).....	100.79	23.34
23 11 23 00-0228 EA 60" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-60).....	110.00	23.34
23 11 23 00-0229 EA 72" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-72).....	118.41	24.64
23 11 23 00-0230 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0231 EA 12" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-12).....	86.84	25.94
23 11 23 00-0232 EA 18" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-18).....	92.21	27.23
23 11 23 00-0233 EA 24" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-24).....	97.40	27.23
23 11 23 00-0234 EA 30" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-30).....	100.65	28.53
23 11 23 00-0235 EA 36" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-36).....	104.97	28.53
23 11 23 00-0236 EA 48" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-48).....	113.76	29.83
23 11 23 00-0237 EA 60" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-60).....	122.97	29.83
23 11 23 00-0238 EA 72" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-72).....	131.38	31.12
23 11 23 00-0239 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0240 EA 12" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	86.84	25.94
23 11 23 00-0241 EA 18" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	92.21	27.23
23 11 23 00-0242 EA 24" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	97.40	27.23
23 11 23 00-0243 EA 30" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	100.65	28.53
23 11 23 00-0244 EA 36" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	104.97	28.53
23 11 23 00-0245 EA 48" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	113.76	29.83
23 11 23 00-0246 EA 60" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	122.97	29.83
23 11 23 00-0247 EA 72" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-72).....	131.38	31.12
23 11 23 00-0248 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0249 EA 12" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	101.34	25.94
23 11 23 00-0250 EA 18" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	106.72	27.23
23 11 23 00-0251 EA 24" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	111.91	27.23
23 11 23 00-0252 EA 30" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	115.16	28.53
23 11 23 00-0253 EA 36" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	119.50	28.53
23 11 23 00-0254 EA 48" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	128.28	29.83
23 11 23 00-0255 EA 60" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	137.49	29.83
23 11 23 00-0256 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0257 EA 12" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-12).....	101.34	25.94
23 11 23 00-0258 EA 18" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-18).....	106.72	27.23
23 11 23 00-0259 EA 24" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-24).....	111.91	27.23



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0260	EA	36" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-36).....	119.50	28.53
23 11 23 00-0261	EA	48" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-48).....	128.28	29.83
23 11 23 00-0262	EA	60" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-60).....	137.49	29.83
23 11 23 00-0263		1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0264	EA	12" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-12).....	101.34	25.94
23 11 23 00-0265	EA	18" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-18).....	106.72	27.23
23 11 23 00-0266	EA	24" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-24).....	111.91	27.23
23 11 23 00-0267	EA	30" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-30).....	115.16	28.53
23 11 23 00-0268	EA	36" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-36).....	119.50	28.53
23 11 23 00-0269	EA	48" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-48).....	128.28	29.83
23 11 23 00-0270	EA	60" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-60).....	137.49	29.83
23 11 23 00-0271	EA	72" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-72).....	145.89	31.12
23 11 23 00-0272		1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0273	EA	12" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-12).....	83.01	25.94
23 11 23 00-0274	EA	18" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-18).....	88.41	27.23
23 11 23 00-0275	EA	24" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-24).....	93.62	27.23
23 11 23 00-0276	EA	30" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-30).....	96.83	28.53
23 11 23 00-0277	EA	36" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-36).....	101.17	28.53
23 11 23 00-0278	EA	48" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-48).....	109.93	29.83
23 11 23 00-0279	EA	72" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-72).....	127.52	31.12
23 11 23 00-0280		1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0281	EA	18" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-18).....	98.73	27.23
23 11 23 00-0282	EA	24" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-24).....	105.08	27.23
23 11 23 00-0283		Quarter-Turn, Gas Ball Valve <small>(23 11 23)</small>		
23 11 23 00-0284	EA	3/8" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top™ T-3000 102-102).....	51.41	13.80
23 11 23 00-0285	EA	1/2" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-103).....	51.70	14.09
23 11 23 00-0286	EA	3/4" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-104).....	74.24	15.50
23 11 23 00-0287	EA	3/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-112).....	50.97	13.80
23 11 23 00-0288	EA	1/2" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-113).....	53.78	14.09
23 11 23 00-0289	EA	1/2" Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-118).....	59.92	14.09
23 11 23 00-0290	EA	5/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-121).....	65.18	14.79
23 11 23 00-0291	EA	5/8" (7/8"-14) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-114).....	68.31	14.79
23 11 23 00-0292	EA	5/8" (15/16"-16) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-115).....	68.31	14.79
23 11 23 00-0293	EA	3/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-312).....	53.31	13.80
23 11 23 00-0294	EA	1/2" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-313).....	56.12	14.09
23 11 23 00-0295	EA	5/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-314).....	69.96	14.79
23 11 23 00-0296	EA	1/2" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-413).....	56.43	14.09
23 11 23 00-0297	EA	3/4" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-414).....	76.00	15.50
23 11 23 00-0298	EA	3/8" (9/16"-24) Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-119).....	53.19	13.80
23 11 23 00-0299	EA	3/8" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-612).....	50.66	13.80
23 11 23 00-0300	EA	1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-613).....	51.68	14.09
23 11 23 00-0301	EA	3/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-614).....	70.87	15.50
23 11 23 00-0302	EA	1" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-615).....	95.91	17.61
23 11 23 00-0303	EA	1-1/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-616).....	137.02	18.31
23 11 23 00-0304	EA	1-1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-617).....	162.71	21.13
23 11 23 00-0305	EA	2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-618).....	200.66	25.35

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0306	EA		1/2" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-713)	53.04	14.09
23 11 23 00-0307	EA		3/4" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-714)	70.46	15.50
23 11 23 00-0308			Gas Stops (23 11 23)		
23 11 23 00-0309			Brass/Bronze Gas Stops (23 11 23 00-0308)		
			Note: Flat or square head		
23 11 23 00-0310	EA		3/8" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	58.27	14.09
23 11 23 00-0311	EA		1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	58.95	14.09
23 11 23 00-0312	EA		3/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	77.82	15.50
23 11 23 00-0313	EA		1" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	106.08	17.61
23 11 23 00-0314	EA		1-1/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	139.80	18.74
23 11 23 00-0315	EA		1-1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	173.36	21.69
23 11 23 00-0316	EA		2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	234.23	25.63
23 11 23 00-0317			Iron Body Gas Stops (23 11 23 00-0308)		
23 11 23 00-0318	EA		1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	75.05	14.09
23 11 23 00-0319	EA		3/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	93.66	15.50
23 11 23 00-0320	EA		1" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	115.63	17.61
23 11 23 00-0321	EA		1-1/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	149.08	18.74
23 11 23 00-0322	EA		1-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	185.01	21.69
23 11 23 00-0323	EA		2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	236.88	25.63
23 11 23 00-0324	EA		2-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	438.49	34.62
23 11 23 00-0325	EA		3" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	579.43	40.20
23 11 23 00-0326			Bronze Body Solenoid Valves, 150 PSI Gas (23 11 23)		
23 11 23 00-0327	EA		1/4" Solenoid Valve, Bronze, 150 PSI, Gas	171.14	14.09
23 11 23 00-0328	EA		1/2" Solenoid Valve, Bronze, 150 PSI, Gas	198.87	14.09
23 11 23 00-0329	EA		3/4" Solenoid Valve, Bronze, 150 PSI, Gas	254.18	15.50
23 11 23 00-0330	EA		1" Solenoid Valve, Bronze, 150 PSI, Gas	376.34	17.61
23 11 23 00-0331	EA		1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas	666.27	21.69
23 11 23 00-0332	EA		2" Solenoid Valve, Bronze, 150 PSI, Gas	1,118.27	25.63
23 11 23 00-0333	EA		2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas	1,389.37	34.62
23 11 23 00-0334	EA		3" Solenoid Valve, Bronze, 150 PSI, Gas	2,076.49	40.20
23 11 26 Facility Liquefied-Petroleum Gas Piping (23 11)					
23 11 26 00-0001			Fiberglass Reinforced Plastic Pipe And Fittings (23 11 26)		
23 11 26 00-0002			Fiberglass Reinforced Plastic Pipe (23 11 26 00-0001)		
			Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (add modifier for use as inner pipe).		
23 11 26 00-0003	LF		2" Fiberglass Reinforced Plastic Pipe	21.10	9.34
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-10.46	
23 11 26 00-0004	LF		3" Fiberglass Reinforced Plastic Pipe	25.30	11.15
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-12.55	
23 11 26 00-0005	LF		4" Fiberglass Reinforced Plastic Pipe	34.48	16.47
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-18.48	
23 11 26 00-0006	LF		5" Fiberglass Reinforced Plastic Pipe	40.02	18.93
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-20.81	
23 11 26 00-0007	LF		6" Fiberglass Reinforced Plastic Pipe	46.46	21.14
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-23.82	
23 11 26 00-0008	LF		8" Fiberglass Reinforced Plastic Pipe	58.22	23.17
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-26.03	
23 11 26 00-0009	LF		10" Fiberglass Reinforced Plastic Pipe	75.71	27.55
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-31.04	
23 11 26 00-0010	LF		12" Fiberglass Reinforced Plastic Pipe	144.96	34.70
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-39.05	
23 11 26 00-0011			Fiberglass Reinforced Plastic Fittings (23 11 26 00-0001)		
23 11 26 00-0012			Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 26 00-0011)		
23 11 26 00-0013	EA		2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	175.04	92.98
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-104.58	
23 11 26 00-0014	EA		3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	207.68	111.65
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-125.50	
23 11 26 00-0015	EA		4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	246.28	129.67
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-145.79	
23 11 26 00-0016	EA		5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	277.06	137.07
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-151.20	
23 11 26 00-0017	EA		6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	329.58	153.78
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-172.92	
23 11 26 00-0018	EA		8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	457.62	192.17
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-216.15	
23 11 26 00-0019	EA		10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	579.99	231.48
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-260.31	
23 11 26 00-0020	EA		12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	1,093.03	287.04
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-322.79	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 26 00-0011)				
23 11 26 00-0022	EA 2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	175.31 -104.58	92.98
23 11 26 00-0023	EA 3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	207.76 -125.50	111.65
23 11 26 00-0024	EA 4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	246.59 -145.89	129.80
23 11 26 00-0025	EA 5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	302.42 -170.20	154.19
23 11 26 00-0026	EA 6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	329.48 -172.92	153.78
23 11 26 00-0027	EA 8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	457.62 -216.15	192.17
23 11 26 00-0028	EA 10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	837.69 -260.31	231.48
23 11 26 00-0029	EA 12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	1,093.03 -322.79	287.04
23 11 26 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 26 00-0011)				
23 11 26 00-0031	EA 2" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	311.14 -156.86	139.53
23 11 26 00-0032	EA 3" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	381.67 -188.93	168.06
23 11 26 00-0033	EA 4" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	436.80 -218.85	194.64
23 11 26 00-0034	EA 5" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	540.24 -255.40	231.21
23 11 26 00-0035	EA 6" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	601.45 -260.31	231.48
23 11 26 00-0036	EA 8" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	753.89 -322.79	287.04
23 11 26 00-0037	EA 10" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	1,134.08 -390.47	347.22
23 11 26 00-0038	EA 12" Fiberglass Reinforced Plastic Flanged Tee <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	1,488.79 -474.68	422.15
23 11 26 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 26 00-0011)				
23 11 26 00-0040	EA 2" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	380.17 -156.86	139.53
23 11 26 00-0041	EA 3" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	480.15 -188.69	167.80
23 11 26 00-0042	EA 4" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	562.28 -218.84	194.64
23 11 26 00-0043	EA 5" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	647.09 -255.40	231.21
23 11 26 00-0044	EA 6" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	689.68 -260.31	231.48
23 11 26 00-0045	EA 8" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	893.43 -322.79	287.04
23 11 26 00-0046	EA 10" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	1,310.08 -390.47	347.22
23 11 26 00-0047	EA 12" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	1,680.65 -474.68	422.15
23 11 26 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 26 00-0011)				
23 11 26 00-0049	EA 2" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	225.86 -104.58	92.98
23 11 26 00-0050	EA 3" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	286.47 -125.50	111.65
23 11 26 00-0051	EA 4" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	319.29 -145.89	129.80
23 11 26 00-0052	EA 5" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	371.12 -170.20	154.19
23 11 26 00-0053	EA 6" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	394.13 -172.92	153.78
23 11 26 00-0054	EA 8" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	516.20 -216.15	192.17
23 11 26 00-0055	EA 10" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	650.59 -260.31	231.48
23 11 26 00-0056	EA 12" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	870.08 -322.79	287.04
23 11 26 00-0057 Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 26 00-0011)				
23 11 26 00-0058	EA 2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	195.01 -104.58	92.98
23 11 26 00-0059	EA 3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	.....	227.56 -125.50	111.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0060 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	260.43 -145.89	129.80
23 11 26 00-0061 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	313.46 -170.20	154.19
23 11 26 00-0062 EA 6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	337.72 -172.92	153.78
23 11 26 00-0063 EA 8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	360.75 -216.15	192.17
23 11 26 00-0064 EA 10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	451.34 -260.31	231.48
23 11 26 00-0065 EA 12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	657.08 -322.79	287.04
23 11 26 00-0066 Fiberglass Reinforced Plastic Nipples (23 11 26 00-0011)		
23 11 26 00-0067 EA 2" x 6" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	32.07 -12.55	11.15
23 11 26 00-0068 EA 2" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	64.06 -25.04	22.30
23 11 26 00-0069 EA 3" x 8" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	92.71 -19.25	17.11
23 11 26 00-0070 EA 3" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	107.31 -24.23	21.56
23 11 26 00-0071 EA 4" x 8" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	96.92 -17.30	15.33
23 11 26 00-0072 EA 4" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	119.80 -25.94	23.06
23 11 26 00-0073 EA 6" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	146.58 -28.53	25.82
23 11 26 00-0074 EA 6" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	173.35 -31.16	27.67
23 11 26 00-0075 EA 8" x 18" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	103.64 -36.31	32.28
23 11 26 00-0076 EA 8" x 24" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	142.74 -51.83	46.12
23 11 26 00-0077 EA 10" x 18" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	159.49 -36.91	32.86
23 11 26 00-0078 EA 10" x 24" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	239.32 -55.28	49.11
23 11 26 00-0079 EA 12" x 18" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	183.19 -38.06	33.89
23 11 26 00-0080 EA 12" x 24" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	244.14 -57.10	50.72
23 11 26 00-0081 Fiberglass Reinforced Plastic Sleeve Couplings (23 11 26 00-0011)		
23 11 26 00-0082 EA 2" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	153.53 -104.58	92.98
23 11 26 00-0083 EA 3" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	184.49 -125.50	111.65
23 11 26 00-0084 EA 4" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	213.84 -145.89	129.80
23 11 26 00-0085 EA 5" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	253.64 -170.20	154.19
23 11 26 00-0086 EA 6" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	264.65 -172.92	153.78
23 11 26 00-0087 EA 8" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	338.20 -216.15	192.17
23 11 26 00-0088 EA 10" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	423.21 -260.31	231.48
23 11 26 00-0089 EA 12" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	520.15 -322.79	287.04
23 11 26 00-0090 Fiberglass Reinforced Plastic Flanges (23 11 26 00-0011)		
23 11 26 00-0091 EA 2" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	155.29 -104.58	92.98
23 11 26 00-0092 EA 3" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	186.82 -125.50	111.65
23 11 26 00-0093 EA 4" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	198.97 -129.46	115.16
23 11 26 00-0094 EA 5" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	237.08 -151.31	137.07
23 11 26 00-0095 EA 6" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	274.88 -172.92	153.78
23 11 26 00-0096 EA 8" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	336.11 -206.91	183.98
23 11 26 00-0097 EA 10" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	439.12 -260.31	231.48
23 11 26 00-0098 EA 12" Fiberglass Reinforced Plastic Flange <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	583.78 -322.79	287.04



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0099		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings <small>(23 11 26)</small>		
23 11 26 00-0100		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing <small>(23 11 26 00-0099)</small>		
23 11 26 00-0101	LF	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	104.16	40.07
23 11 26 00-0102	LF	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	123.95	47.47
23 11 26 00-0103	LF	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	165.72	70.02
23 11 26 00-0104	LF	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	226.82	90.78
23 11 26 00-0105	LF	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	293.77	99.14
23 11 26 00-0106	LF	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	388.01	117.59
23 11 26 00-0107	LF	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	494.38	148.36
23 11 26 00-0108		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings <small>(23 11 26 00-0099)</small>		
23 11 26 00-0109		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows <small>(23 11 26 00-0108)</small>		
23 11 26 00-0110	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	1,679.62	495.87
23 11 26 00-0111	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	1,953.41	595.21
23 11 26 00-0112	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	2,401.71	691.69
23 11 26 00-0113	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	3,833.09	819.98
23 11 26 00-0114	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	5,991.99	1,025.17
23 11 26 00-0115	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	7,973.67	1,233.37
23 11 26 00-0116	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	10,562.10	1,527.33
23 11 26 00-0117		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows <small>(23 11 26 00-0108)</small>		
23 11 26 00-0118	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	1,681.65	495.87
23 11 26 00-0119	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	1,949.83	595.21
23 11 26 00-0120	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	2,398.90	691.69
23 11 26 00-0121	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	3,816.59	819.98
23 11 26 00-0122	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	5,968.10	1,025.17
23 11 26 00-0123	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	7,941.68	1,233.95
23 11 26 00-0124	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	10,522.95	1,530.79
23 11 26 00-0125		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees <small>(23 11 26 00-0108)</small>		
23 11 26 00-0126	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	2,381.51	743.82
23 11 26 00-0127	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	2,955.35	896.45
23 11 26 00-0128	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	3,356.71	1,038.05
23 11 26 00-0129	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	5,009.19	1,234.52
23 11 26 00-0130	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	6,312.02	1,530.79
23 11 26 00-0131	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	10,390.11	1,849.65
23 11 26 00-0132	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	13,989.61	2,242.64
23 11 26 00-0133		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes <small>(23 11 26 00-0108)</small>		
23 11 26 00-0134	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	3,238.66	743.82
23 11 26 00-0135	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	4,180.49	895.41
23 11 26 00-0136	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	4,915.09	1,038.05
23 11 26 00-0137	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	6,104.78	1,234.52
23 11 26 00-0138	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	8,044.65	1,530.79
23 11 26 00-0139	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	12,575.51	1,849.65
23 11 26 00-0140	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	16,371.83	2,242.64
23 11 26 00-0141		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers <small>(23 11 26 00-0108)</small>		
23 11 26 00-0142	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	1,816.40	495.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0143 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,371.70	595.21
23 11 26 00-0144 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,586.28	691.69
23 11 26 00-0145 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	3,260.40	819.98
23 11 26 00-0146 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	4,368.10	1,025.17
23 11 26 00-0147 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	5,617.73	1,233.37
23 11 26 00-0148 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	7,749.48	1,527.33
23 11 26 00-0149 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 26 00-0108)		
23 11 26 00-0150 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,433.33	495.87
23 11 26 00-0151 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,640.14	595.21
23 11 26 00-0152 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,855.41	691.69
23 11 26 00-0153 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,559.87	819.98
23 11 26 00-0154 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,437.94	1,025.17
23 11 26 00-0155 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	3,143.65	1,233.37
23 11 26 00-0156 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	5,104.69	1,527.33
23 11 26 00-0157 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 26 00-0108)		
23 11 26 00-0158 EA 2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	279.72	59.52
23 11 26 00-0159 EA 2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	558.97	118.78
23 11 26 00-0160 EA 3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	969.40	91.29
23 11 26 00-0161 EA 3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,103.54	114.94
23 11 26 00-0162 EA 4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,040.08	81.97
23 11 26 00-0163 EA 4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,242.61	123.01
23 11 26 00-0164 EA 6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,858.24	147.79
23 11 26 00-0165 EA 8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	943.95	172.23
23 11 26 00-0166 EA 8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,282.93	245.89
23 11 26 00-0167 EA 10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,631.74	175.00
23 11 26 00-0168 EA 10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,449.37	262.14
23 11 26 00-0169 EA 12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,915.05	180.53
23 11 26 00-0170 EA 12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,492.12	270.79
23 11 26 00-0171 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges (23 11 26 00-0108)		
23 11 26 00-0172 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,247.89	613.98
23 11 26 00-0173 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,779.62	819.98
23 11 26 00-0174 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,219.27	981.49
23 11 26 00-0175 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,991.98	1,233.37
23 11 26 00-0176 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	4,194.65	1,527.33
23 12 Facility Fuel Pumps (23 10)		
23 12 13 Facility Fuel-Oil Pumps (23 12)		
23 12 13 00-0001 Cast Iron Internal Gear Rotary Pump (23 12 13)		
Note: Heavy duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise; diesel oil, and light oil.		
23 12 13 00-0002 10 GPM 1" Discharge (23 12 13 00-0001)		
23 12 13 00-0003 EA 10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge.....	1,464.77	376.23
23 12 13 00-0004 EA 10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge.....	1,556.73	455.36
23 12 13 00-0005 EA 10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge.....	1,718.83	540.99
23 12 13 00-0006 25 GPM 1-1/4" Discharge (23 12 13 00-0001)		
23 12 13 00-0007 EA 25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge.....	1,632.06	376.23
23 12 13 00-0008 EA 25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge.....	1,726.92	455.36
23 12 13 00-0009 EA 25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge.....	1,821.55	540.99
23 12 13 00-0010 Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI (23 12 13)		
23 12 13 00-0011 EA 1/4 HP Pump Fuel Oil/Diesel.....	1,123.50	210.81
23 12 13 00-0012 EA 1/3 HP Pump Fuel Oil/Diesel.....	1,313.41	236.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 12 13 00-0013 EA 1/2 HP Pump Fuel Oil/Diesel	1,440.18	264.66
23 12 13 00-0014 EA 3/4 HP Pump Fuel Oil/Diesel	1,577.35	298.39
23 12 13 00-0015 EA 1 HP Pump Fuel Oil/Diesel	2,162.69	332.12
23 12 13 00-0016 EA 1-1/2 HP Pump Fuel Oil/Diesel	2,623.05	371.68
23 12 13 00-0017 EA 2 HP Pump Fuel Oil/Diesel	2,909.77	416.44
23 12 13 00-0018 EA 3 HP Pump Fuel Oil/Diesel	3,520.96	465.74
23 12 13 00-0019 EA 5 HP Pump Fuel Oil/Diesel	4,133.23	522.18
23 12 13 00-0020 EA 7.5 HP Pump Fuel Oil/Diesel	4,628.43	585.75
23 12 13 00-0021 EA 10 HP Pump Fuel Oil/Diesel	5,189.09	656.58

23 12 23 Facility Natural-Gas Pumps (23 12)

23 12 23 00-0001 Natural Gas Booster Pump (23 12 23)

23 12 23 00-0002 EA Natural Gas Booster Pump, 3/4" Outlet Size	1,101.03	194.60
23 12 23 00-0003 EA Natural Gas Booster Pump, 1" Outlet Size	1,298.16	217.30
23 12 23 00-0004 EA Natural Gas Booster Pump, 1-1/4" Outlet Size	1,445.92	227.04
23 12 23 00-0005 EA Natural Gas Booster Pump, 1-1/2" Outlet Size	1,628.71	236.76
23 12 23 00-0006 EA Natural Gas Booster Pump, 2" Outlet Size	1,828.42	243.25

23 13 Facility Fuel-Storage Tanks (23 10)

23 13 13 Facility Underground Fuel-Oil, Storage Tanks (23 13)

23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks (23 13 13)

23 13 13 13-0001 Coated Underground Double Wall Storage Tanks (23 13 13 13)

Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.

23 13 13 13-0002 EA 250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	13,034.02	803.78
23 13 13 13-0003 EA 500 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	14,059.82	803.78
23 13 13 13-0004 EA 1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	20,263.35	1,004.66
23 13 13 13-0005 EA 2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	27,951.83	1,962.35
23 13 13 13-0006 EA 3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	44,300.48	2,522.87
23 13 13 13-0007 EA 4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	49,381.96	2,897.60
23 13 13 13-0008 EA 5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	53,548.45	3,831.22
23 13 13 13-0009 EA 6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	55,425.58	4,113.48
23 13 13 13-0010 EA 8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	67,590.31	4,859.57
23 13 13 13-0011 EA 10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	78,271.18	5,605.15
23 13 13 13-0012 EA 12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	99,781.44	6,163.93
23 13 13 13-0013 EA 14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	118,349.28	7,483.99
23 13 13 13-0014 EA 15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	122,319.39	7,942.46
23 13 13 13-0015 EA 20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	151,063.42	12,598.40
23 13 13 13-0016 EA 25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	185,943.17	16,337.03
23 13 13 13-0017 EA 30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	218,893.17	18,692.54
23 13 13 13-0018 EA 40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	280,175.69	20,094.49
23 13 13 13-0019 EA 48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	377,299.91	20,609.78

23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks (23 13 13)

23 13 13 23-0001 Underground Fiberglass Storage Tanks (23 13 13 23)

23 13 13 23-0002 Single Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0003 EA 550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	3,383.39	803.78
23 13 13 23-0004 EA 1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	4,247.24	1,004.66
23 13 13 23-0005 EA 2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	5,520.05	1,243.06
23 13 13 23-0006 EA 2,500 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	6,316.07	1,514.10
23 13 13 23-0007 EA 3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	7,103.62	1,775.79
23 13 13 23-0008 EA 4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	8,719.44	2,336.57
23 13 13 23-0009 EA 5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	10,740.52	3,551.58
23 13 13 23-0010 EA 6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	12,355.33	4,486.22
23 13 13 23-0011 EA 8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	14,660.43	5,046.98
23 13 13 23-0012 EA 10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	16,658.08	5,981.61
23 13 13 23-0013 EA 12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	21,154.87	7,103.17
23 13 13 23-0014 EA 15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	26,129.39	8,878.96
23 13 13 23-0015 EA 20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	33,229.37	11,869.77
23 13 13 23-0016 EA 25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	48,350.64	14,767.11
23 13 13 23-0017 EA 30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	58,969.21	17,757.92
23 13 13 23-0018 EA 40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	84,561.15	25,702.25
23 13 13 23-0019 EA 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	118,592.20	32,711.96

23 13 13 23-0020 Double Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0021 EA 550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	6,222.03	803.78
23 13 13 23-0022 EA 1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	8,176.02	1,004.66

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 10 Facility Fuel Systems

23 13 Facility Fuel-Storage Tanks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 13	23-0023	EA	2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	9,807.14	1,215.02
23 13 13	23-0024	EA	3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	12,841.66	1,775.92
23 13 13	23-0025	EA	4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	14,577.02	2,336.57
23 13 13	23-0026	EA	5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	17,179.87	3,551.58
23 13 13	23-0027	EA	6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	19,368.49	4,486.22
23 13 13	23-0028	EA	8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	23,586.27	5,046.98
23 13 13	23-0029	EA	10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	25,583.92	5,981.61
23 13 13	23-0030	EA	12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	30,877.66	7,103.17
23 13 13	23-0031	EA	15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	42,108.24	8,878.96
23 13 13	23-0032	EA	20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	52,515.56	11,869.77
23 13 13	23-0033	EA	30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	80,805.64	17,757.92
23 13 13 23-0034 Underground Storage Tank Pump Enclosures (23 13 13 23)					
23 13 13	23-0035	EA	Secondary Containment Collar	1,873.19	
23 13 13	23-0036	EA	Turbine Enclosure With Lid 4' Long x 42" Diameter	1,873.19	
23 13 13	23-0037	EA	Fitting Kit For Turbine Enclosure	374.64	
23 13 13	23-0038	EA	Grommet Kits For Plumbing And Electrical	749.28	
23 13 13	23-0039	EA	Turbine Electrical Coupling Kit	936.59	
23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks (23 13)					
23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)					
23 13 23 13-0001 Rectangle Double Wall Steel Fuel Day Tank (23 13 23 13)					
Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs.					
23 13 23	13-0002	EA	10 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,229.75	169.07
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0003	EA	15 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,319.27	177.52
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0004	EA	25 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,431.25	190.20
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0005	EA	50 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,639.23	202.88
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0006	EA	60 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,823.04	211.34
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0007	EA	75 Gallon Double Wall Steel Day Tank (Tramont TRX)	2,150.61	253.60
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0008	EA	100 Gallon Double Wall Steel Day Tank (Tramont TRX)	2,879.33	295.87
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0009	EA	150 Gallon Double Wall Steel Day Tank (Tramont TRX)	3,632.03	338.13
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0010	EA	200 Gallon Double Wall Steel Day Tank (Tramont TRX)	4,641.87	380.40
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0011	EA	275 Gallon Double Wall Steel Day Tank (Tramont TRX)	5,173.44	422.67
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0012	EA	300 Gallon Double Wall Steel Day Tank (Tramont TRX)	5,928.03	507.20
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0013	EA	350 Gallon Double Wall Steel Day Tank (Tramont TRX)	6,648.33	591.73
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0014	EA	400 Gallon Double Wall Steel Day Tank (Tramont TRX)	7,389.20	676.27
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0015	EA	450 Gallon Double Wall Steel Day Tank (Tramont TRX)	8,189.90	718.54
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0016	EA	500 Gallon Double Wall Steel Day Tank (Tramont TRX)	8,995.76	760.81
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0017	EA	550 Gallon Double Wall Steel Day Tank (Tramont TRX)	9,909.60	803.07
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0018	EA	600 Gallon Double Wall Steel Day Tank (Tramont TRX)	10,710.31	845.34
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0019	EA	700 Gallon Double Wall Steel Day Tank (Tramont TRX)	11,952.06	1,014.41
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0020	EA	800 Gallon Double Wall Steel Day Tank (Tramont TRX)	12,893.49	1,098.94
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0021	EA	900 Gallon Double Wall Steel Day Tank (Tramont TRX)	14,171.23	1,268.01
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0022	EA	1,000 Gallon Double Wall Steel Day Tank (Tramont TRX)	15,454.13	1,437.08
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0023	EA	10 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,480.03	169.07
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0024	EA	15 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,571.26	177.52
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0025	EA	25 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,683.24	190.20
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0026	EA	50 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,889.51	202.88
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0027	EA	60 Gallon Double Wall Steel Day Tank (Tramont UTRX)	2,073.32	211.34
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0028	EA	75 Gallon Double Wall Steel Day Tank (Tramont UTRX)	2,402.61	253.60
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23	13-0029	EA	100 Gallon Double Wall Steel Day Tank (Tramont UTRX)	3,155.32	295.87
Note: Includes rust-inhibitor coated interior and gray painted exterior.					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0030 EA 150 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	3,908.02	338.13
23 13 23 13-0031 EA 200 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	4,917.86	380.40
23 13 23 13-0032 EA 275 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,449.43	422.67
23 13 23 13-0033 EA 300 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,204.02	507.20
23 13 23 13-0034 EA 350 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,924.32	591.73
23 13 23 13-0035 EA 400 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,665.19	676.27
23 13 23 13-0036 EA 450 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	8,465.90	718.54
23 13 23 13-0037 EA 500 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,271.75	760.81
23 13 23 13-0038 EA 550 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,187.31	803.07
23 13 23 13-0039 EA 600 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,988.02	845.34
23 13 23 13-0040 EA 700 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,228.05	1,014.41
23 13 23 13-0041 EA 800 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	13,169.48	1,098.94
23 13 23 13-0042 EA 900 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	14,447.22	1,268.01
23 13 23 13-0043 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	15,730.13	1,437.08
23 13 23 13-0044 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,428.00	169.07
23 13 23 13-0045 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,508.94	177.52
23 13 23 13-0046 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,583.21	190.20
23 13 23 13-0047 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,858.05	202.88
23 13 23 13-0048 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,963.00	211.34
23 13 23 13-0049 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,280.29	253.60
23 13 23 13-0050 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,945.58	295.87
23 13 23 13-0051 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,969.13	338.13
23 13 23 13-0052 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,588.12	380.40
23 13 23 13-0053 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,281.94	422.67
23 13 23 13-0054 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,238.81	507.20
23 13 23 13-0055 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,825.40	591.73
23 13 23 13-0056 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,614.27	676.27
23 13 23 13-0057 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,378.98	718.54
23 13 23 13-0058 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,383.68	760.81
23 13 23 13-0059 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,808.97	803.07
23 13 23 13-0060 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,191.41	845.34
23 13 23 13-0061 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,959.42	1,014.41
23 13 23 13-0062 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	15,649.97	1,098.94
23 13 23 13-0063 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	17,520.84	1,268.01
23 13 23 13-0064 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	19,420.86	1,437.08
23 13 23 13-0065 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,559.39	169.07
23 13 23 13-0066 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,640.33	177.52
23 13 23 13-0067 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,714.60	190.20
23 13 23 13-0068 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,989.44	202.88
23 13 23 13-0069 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,094.39	211.34
23 13 23 13-0070 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,411.68	253.60
23 13 23 13-0071 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,076.97	295.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0072 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,100.52	338.13
23 13 23 13-0073 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,794.94	380.40
23 13 23 13-0074 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,019.06	422.67
23 13 23 13-0075 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,975.93	507.20
23 13 23 13-0076 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,564.24	591.73
23 13 23 13-0077 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,351.39	676.27
23 13 23 13-0078 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,117.81	718.54
23 13 23 13-0079 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,120.80	760.81
23 13 23 13-0080 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,546.09	803.07
23 13 23 13-0081 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,928.53	845.34
23 13 23 13-0082 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,696.54	1,014.41
23 13 23 13-0083 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	16,388.80	1,098.94
23 13 23 13-0084 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	18,257.96	1,268.01
23 13 23 13-0085 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	20,157.98	1,437.08
23 13 23 13-0086 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,191.94	169.07
23 13 23 13-0087 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,281.45	177.52
23 13 23 13-0088 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,357.44	190.20
23 13 23 13-0089 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,640.85	202.88
23 13 23 13-0090 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,793.80	211.34
23 13 23 13-0091 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,083.66	253.60
23 13 23 13-0092 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,774.66	295.87
23 13 23 13-0093 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,846.21	338.13
23 13 23 13-0094 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,487.49	380.40
23 13 23 13-0095 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,246.45	422.67
23 13 23 13-0096 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,251.32	507.20
23 13 23 13-0097 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,784.77	591.73
23 13 23 13-0098 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,676.49	676.27
23 13 23 13-0099 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,598.90	718.54
23 13 23 13-0100 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,526.47	760.81
23 13 23 13-0101 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,001.47	803.07
23 13 23 13-0102 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,358.19	845.34
23 13 23 13-0103 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,203.35	1,014.41
23 13 23 13-0104 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	17,974.46	1,098.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0105 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	19,925.90	1,268.01
23 13 23 13-0106 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	21,903.07	1,437.08
23 13 23 13-0107 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,323.33	169.07
23 13 23 13-0108 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,412.85	177.52
23 13 23 13-0109 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,488.83	190.20
23 13 23 13-0110 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,772.24	202.88
23 13 23 13-0111 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,925.19	211.34
23 13 23 13-0112 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,211.62	253.60
23 13 23 13-0113 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,906.05	295.87
23 13 23 13-0114 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,977.60	338.13
23 13 23 13-0115 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,618.88	380.40
23 13 23 13-0116 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,983.57	422.67
23 13 23 13-0117 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,988.44	507.20
23 13 23 13-0118 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,693.31	591.73
23 13 23 13-0119 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,413.61	676.27
23 13 23 13-0120 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,336.02	718.54
23 13 23 13-0121 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,263.59	760.81
23 13 23 13-0122 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,738.59	803.07
23 13 23 13-0123 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	15,097.03	845.34
23 13 23 13-0124 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,940.47	1,014.41
23 13 23 13-0125 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	18,711.58	1,098.94
23 13 23 13-0126 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,663.02	1,268.01
23 13 23 13-0127 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	22,640.19	1,437.08
23 13 23 13-0128 EA 150% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,218.57	169.07
23 13 23 13-0129 EA 150% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,318.65	177.52
23 13 23 13-0130 EA 150% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,430.29	190.20
23 13 23 13-0131 EA 150% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,630.18	202.88
23 13 23 13-0132 EA 150% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,148.88	211.34
23 13 23 13-0133 EA 150% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,219.32	253.60
23 13 23 13-0134 EA 150% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,783.06	295.87
23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,435.03	338.13
23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,492.05	380.40
23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,625.99	422.67
23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	6,753.47	507.20
23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,272.24	591.73
23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	7,793.28	676.27
23 13 23 13-0141 EA 150% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	8,549.34	718.54
23 13 23 13-0142 EA 150% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,307.68	760.81
23 13 23 13-0143 EA 150% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	9,968.72	803.07

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 10 Facility Fuel Systems

23 13 Facility Fuel-Storage Tanks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0144	EA		150% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	10,636.53	845.34
23 13 23 13-0145	EA		150% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	12,054.23	1,014.41
23 13 23 13-0146	EA		150% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	13,371.76	1,098.94
23 13 23 13-0147	EA		150% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	14,866.39	1,268.01
23 13 23 13-0148	EA		150% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	16,311.25	1,437.08
23 13 23 13-0149	EA		200% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,284.71	177.52
23 13 23 13-0150	EA		200% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,396.60	190.20
23 13 23 13-0151	EA		200% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,513.27	202.88
23 13 23 13-0152	EA		200% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,716.06	211.34
23 13 23 13-0153	EA		200% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,319.13	253.60
23 13 23 13-0154	EA		200% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,389.58	295.87
23 13 23 13-0155	EA		200% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,980.72	338.13
23 13 23 13-0156	EA		200% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,665.00	380.40
23 13 23 13-0157	EA		200% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,776.82	422.67
23 13 23 13-0158	EA		200% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,969.86	464.94
23 13 23 13-0159	EA		200% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	7,152.14	549.47
23 13 23 13-0160	EA		200% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,691.91	634.00
23 13 23 13-0161	EA		200% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	8,234.06	718.54
23 13 23 13-0162	EA		200% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	9,028.23	760.81
23 13 23 13-0163	EA		200% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,824.77	803.07
23 13 23 13-0164	EA		200% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	10,518.63	845.34
23 13 23 13-0165	EA		200% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	11,290.07	929.88
23 13 23 13-0166	EA		200% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	12,770.86	1,098.94
23 13 23 13-0167	EA		200% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	14,294.66	1,268.01
23 13 23 13-0168	EA		200% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	15,856.68	1,437.08
23 13 23 13-0169	EA		200% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	17,366.15	1,606.14
23 13 23 13-0170	EA		150% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,397.33	169.07
23 13 23 13-0171	EA		150% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,520.04	177.52
23 13 23 13-0172	EA		150% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,645.25	190.20
23 13 23 13-0173	EA		150% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,890.40	202.88
23 13 23 13-0174	EA		150% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,506.40	211.34
23 13 23 13-0175	EA		150% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,576.84	253.60
23 13 23 13-0176	EA		150% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,222.04	295.87
23 13 23 13-0177	EA		150% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	3,980.36	338.13
23 13 23 13-0178	EA		150% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,222.31	380.40
23 13 23 13-0179	EA		150% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	6,612.57	422.67
23 13 23 13-0180	EA		150% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	7,941.43	507.20
23 13 23 13-0181	EA		150% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	8,530.35	591.73
23 13 23 13-0182	EA		150% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	9,123.80	676.27
23 13 23 13-0183	EA		150% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	10,022.42	718.54
23 13 23 13-0184	EA		150% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	10,923.31	760.81
23 13 23 13-0185	EA		150% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	11,690.69	803.07
23 13 23 13-0186	EA		150% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	12,476.17	845.34
23 13 23 13-0187	EA		150% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	14,131.46	1,014.41
23 13 23 13-0188	EA		150% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	15,688.85	1,098.94
23 13 23 13-0189	EA		150% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	17,421.07	1,268.01
23 13 23 13-0190	EA		150% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	19,103.52	1,437.08
23 13 23 13-0191	EA		200% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,473.40	177.52
23 13 23 13-0192	EA		200% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,609.18	190.20
23 13 23 13-0193	EA		200% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,740.18	202.88
23 13 23 13-0194	EA		200% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,990.74	211.34
23 13 23 13-0195	EA		200% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,696.52	253.60
23 13 23 13-0196	EA		200% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,766.97	295.87
23 13 23 13-0197	EA		200% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,444.08	338.13
23 13 23 13-0198	EA		200% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	4,240.63	380.40
23 13 23 13-0199	EA		200% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,547.65	422.67
23 13 23 13-0200	EA		200% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	7,011.25	464.94
23 13 23 13-0201	EA		200% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	8,406.10	549.47
23 13 23 13-0202	EA		200% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	9,019.91	634.00
23 13 23 13-0203	EA		200% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	9,638.50	718.54
23 13 23 13-0204	EA		200% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	10,583.14	760.81
23 13 23 13-0205	EA		200% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	11,530.15	803.07
23 13 23 13-0206	EA		200% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	12,336.26	845.34
23 13 23 13-0207	EA		200% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	13,231.91	929.88
23 13 23 13-0208	EA		200% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	14,963.50	1,098.94
23 13 23 13-0209	EA		200% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	16,740.48	1,268.01
23 13 23 13-0210	EA		200% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	18,553.29	1,437.08
23 13 23 13-0211	EA		200% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	20,313.55	1,606.14

23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)

23 13 23 16-0001 Single Wall Aboveground Storage Tanks (23 13 23 16)

Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, excavation and backfill.

23 13 23 16-0002	EA		300 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	4,315.03	918.88
23 13 23 16-0003	EA		550 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	5,190.95	1,112.32
23 13 23 16-0004	EA		1,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	6,876.59	1,426.38
23 13 23 16-0005	EA		1,500 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	8,866.12	1,782.97
23 13 23 16-0006	EA		2,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	10,651.13	2,296.57
23 13 23 16-0007	EA		3,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	15,663.83	2,364.11
23 13 23 16-0008	EA		5,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	22,586.96	2,922.89



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 13 23 16-0009 EA 8,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	30,777.34	3,349.08
				23 13 23 16-0010 EA 10,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	36,560.40	3,653.52
				23 13 23 16-0011 EA 12,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	42,359.72	4,018.90
				23 13 23 16-0012 EA 15,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	46,898.44	4,465.40
				23 13 23 16-0013 EA 20,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	58,639.49	5,741.23
				23 13 23 16-0014 EA 30,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	79,690.22	6,698.16
23 13 23 16-0015 Double Wall Aboveground Storage Tanks <small>(23 13 23 16)</small>						
Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes pumps, piping, excavation and backfill.						
				23 13 23 16-0016 EA 300 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	6,703.07	1,146.56
				23 13 23 16-0017 EA 550 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	8,059.09	1,387.48
				23 13 23 16-0018 EA 1,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	10,707.95	1,782.97
				23 13 23 16-0019 EA 1,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	13,837.70	2,228.72
				23 13 23 16-0020 EA 2,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	16,475.67	2,870.68
				23 13 23 16-0021 EA 3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	24,829.85	2,955.04
				23 13 23 16-0022 EA 5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	36,073.67	3,640.31
				23 13 23 16-0023 EA 8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	49,555.12	4,186.38
				23 13 23 16-0024 EA 10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	59,058.97	4,566.96
				23 13 23 16-0025 EA 12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	68,553.99	5,023.56
				23 13 23 16-0026 EA 15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	75,889.90	5,581.85
				23 13 23 16-0027 EA 20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	94,795.42	7,176.57
				23 13 23 16-0028 EA 30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	129,479.76	8,372.64
23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks <small>(23 13 23)</small>						
23 13 23 19-0001 Secondary Containment For Above Ground Tanks <small>(23 13 23 19)</small>						
				23 13 23 19-0002 EA Steel Dike For 550 Gallon Tank, Uncoated.....	3,908.86	
				23 13 23 19-0003 EA Steel Dike For 1,000 Gallon Tank, Uncoated.....	4,726.79	
				23 13 23 19-0004 EA Steel Dike For 2,000 Gallon Tank, Uncoated.....	10,217.07	
				23 13 23 19-0005 EA Steel Dike For 3,000 Gallon Tank, Uncoated.....	11,215.79	
				23 13 23 19-0006 EA Steel Dike For 5,000 Gallon Tank, Uncoated.....	15,886.87	
				23 13 23 19-0007 EA Steel Dike For 6,000 Gallon Tank, Uncoated.....	17,797.05	
				23 13 23 19-0008 EA Steel Dike For 8,000 Gallon Tank, Uncoated.....	23,468.09	
				23 13 23 19-0009 EA Steel Dike For 10,000 Gallon Tank, Uncoated.....	27,560.33	
				23 13 23 19-0010 EA Steel Dike For 12,000 Gallon Tank, Uncoated.....	31,290.83	
				23 13 23 19-0011 EA Steel Dike For 15,000 Gallon Tank, Uncoated.....	38,112.32	
				23 13 23 19-0012 EA Steel Dike For 20,000 Gallon Tank, Uncoated.....	48,756.78	
23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks <small>(23 13 23)</small>						
23 13 23 26-0001 Aboveground Concrete Vaulted Storage Tanks <small>(23 13 23 26)</small>						
Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overflow containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping.						
				23 13 23 26-0002 EA 500 Gallon Concrete Vaulted Storage Tank	22,046.75	1,738.28
				For Low Profile Tanks, Add	7,848.50	
				23 13 23 26-0003 EA 1,000 Gallon Concrete Vaulted Storage Tank	27,663.99	1,962.35
				For Low Profile Tanks, Add	9,970.33	
				23 13 23 26-0004 EA 2,000 Gallon Concrete Vaulted Storage Tank	48,563.56	2,336.57
				For Low Profile Tanks, Add	18,121.29	
				23 13 23 26-0005 EA 4,000 Gallon Concrete Vaulted Storage Tank	77,601.48	5,139.33
				23 13 23 26-0006 EA 5,000 Gallon Concrete Vaulted Storage Tank	88,513.82	5,613.00
				23 13 23 26-0007 EA 6,000 Gallon Concrete Vaulted Storage Tank	99,527.44	6,061.62
				23 13 23 26-0008 EA 8,000 Gallon Concrete Vaulted Storage Tank	110,513.62	6,577.66
				23 13 23 26-0009 EA 10,000 Gallon Concrete Vaulted Storage Tank	121,491.46	7,001.60
23 13 33 Facility Fuel-Oil, Storage Tank Accessories <small>(23 13)</small>						
23 13 33 00-0001 EPA Requirements <small>(23 13 33)</small>						
				23 13 33 00-0002 EA Fill Pipe Spill Containment Manhole (5 Gallon).....	928.70	
				23 13 33 00-0003 EA Over-Fill Prevention Valve	1,350.02	
				23 13 33 00-0004 EA Tank Manway With Cover, Fiberglass	3,731.68	
				23 13 33 00-0005 EA Tank Manway With Cover, Steel.....	2,964.31	
				23 13 33 00-0006 EA Vent Fill Alarm (Whistle Vent).....	152.96	
				23 13 33 00-0007 EA Reservoir Sensor, Liquid Level	393.35	
				23 13 33 00-0008 EA Manhole Spill Containment.....	1,484.37	327.81
				23 13 33 00-0009 EA Fill Adapter, 4"	360.71	218.58

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0010 EA Fill Cap, 4"	240.32	81.95
23 13 33 00-0011 EA 2" Vent Cap	148.07	54.68
23 13 33 00-0012 EA 4" x 2" Extractor Fitting	431.04	81.95
23 13 33 00-0013 EA Float Vent Valve.....	461.12	163.90
23 13 33 00-0014 EA Vapor Hose Adapter	433.75	109.22
23 13 33 00-0015 EA Dust Cap	195.62	59.66
23 13 33 00-0016 EA 1" Double Poppet Foot Valve.....	485.23	93.62
23 13 33 00-0017 EA 10" Wood Gage Stick	37.71	
23 13 33 00-0018 EA 1-1/4" Tank Filled Breather, NPT.....	147.87	
23 13 33 00-0019 EA 1-1/2" Tank Filled Breather, Bayonet	195.00	
23 13 33 00-0020 EA 2" Cast Iron Combination Fill Cap And Vent	90.41	
23 13 33 00-0021 EA 3" Cast Iron Combination Fill Cap And Vent	119.43	
23 13 33 00-0022 EA 4" Cast Iron Combination Fill Cap And Vent	182.80	
23 13 33 00-0023 EA Pressure And Vacuum Control Vent	825.50	
23 13 33 00-0024 EA 1/4 HP Fuel/Diesel Pump Set	1,652.70	
23 13 33 00-0025 EA 1/3 HP Fuel/Diesel Pump Set	1,948.59	
23 13 33 00-0026 EA 1/2 HP Fuel/Diesel Pump Set	2,127.36	
23 13 33 00-0027 EA 3/4 HP Fuel/Diesel Pump Set	2,334.73	
23 13 33 00-0028 EA 1 HP Fuel/Diesel Pump Set	3,295.20	
23 13 33 00-0029 EA 1-1/2 HP Fuel/Diesel Pump Set	4,051.96	
23 13 33 00-0030 EA 2 HP Fuel/Diesel Pump Set	4,488.48	
23 13 33 00-0031 EA 3 HP Fuel/Diesel Pump Set	5,494.45	
23 13 33 00-0032 EA 5 HP Fuel/Diesel Pump Set	6,490.27	
23 13 33 00-0033 EA 7.5 HP Fuel/Diesel Pump Set	7,265.52	
23 13 33 00-0034 EA 10 HP Fuel/Diesel Pump Set	8,381.94	
23 13 33 00-0035 Tank Bulkhead Fittings (23 13 33)		
23 13 33 00-0036 Tank Bulkhead Fittings (23 13 33 00-0035)		
23 13 33 00-0037 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0038 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	58.43	
23 13 33 00-0039 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	65.31	
23 13 33 00-0040 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	71.79	
23 13 33 00-0041 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	86.80	
23 13 33 00-0042 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	89.61	
23 13 33 00-0043 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	117.86	
23 13 33 00-0044 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	186.90	
23 13 33 00-0045 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	327.45	
23 13 33 00-0046 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0047 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	68.04	
23 13 33 00-0048 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	74.88	
23 13 33 00-0049 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	81.75	
23 13 33 00-0050 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	102.26	
23 13 33 00-0051 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	109.13	
23 13 33 00-0052 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	135.55	
23 13 33 00-0053 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	210.49	
23 13 33 00-0054 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	360.96	
23 13 33 00-0055 Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0056 EA 1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	70.22	
23 13 33 00-0057 EA 3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	81.17	
23 13 33 00-0058 EA 1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	91.71	
23 13 33 00-0059 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	118.70	
23 13 33 00-0060 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	155.42	
23 13 33 00-0061 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	242.55	
23 13 33 00-0062 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	380.87	
23 13 33 00-0063 Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0064 EA 1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....	82.41	
23 13 33 00-0065 EA 3/4" Polypropylene Bulkhead Fitting, Thread x Thread.....	97.37	
23 13 33 00-0066 EA 1" Polypropylene Bulkhead Fitting, Thread x Thread.....	120.06	
23 13 33 00-0067 EA 1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread.....	146.46	
23 13 33 00-0068 EA 1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....	149.27	
23 13 33 00-0069 EA 2" Polypropylene Bulkhead Fitting, Thread x Thread.....	214.00	
23 13 33 00-0070 EA 3" Polypropylene Bulkhead Fitting, Thread x Thread.....	383.99	
23 13 33 00-0071 EA 4" Polypropylene Bulkhead Fitting, Thread x Thread.....	686.64	
23 13 33 00-0072 Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0073 EA 3/4" Polyethylene Bulkhead Fitting, Thread x Thread.....	72.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0074 EA 1" Polyethylene Bulkhead Fitting, Thread x Thread.....	93.43	
23 13 33 00-0075 EA 1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread.....	96.25	
23 13 33 00-0076 EA 1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread.....	99.06	
23 13 33 00-0077 EA 2" Polyethylene Bulkhead Fitting, Thread x Thread.....	138.47	
23 13 33 00-0078 EA 3" Polyethylene Bulkhead Fitting, Thread x Thread.....	175.22	
23 13 33 00-0079 TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection <small>(23 13 33 00-0036)</small>		
23 13 33 00-0080 EA 1/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....	313.69	
23 13 33 00-0081 EA 1/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....	358.60	
23 13 33 00-0082 EA 3/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....	441.00	
23 13 33 00-0083 EA 1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	508.60	
23 13 33 00-0084 EA 3/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....	586.04	
23 13 33 00-0085 EA 1" TFE Teflon Bulkhead Fitting, Thread x Thread.....	738.34	
23 13 33 00-0086 EA 1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	959.21	
23 13 33 00-0087 EA 2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	1,059.82	
23 13 33 00-0088 Self-Aligning Bulkhead Fittings <small>(23 13 33 00-0035)</small>		
23 13 33 00-0089 EA 3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	321.05	
23 13 33 00-0090 EA 1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	421.40	
23 13 33 00-0091 EA 1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	469.29	
23 13 33 00-0092 EA 2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	479.03	
23 13 33 00-0093 EA 3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	646.52	

23 20 HVAC Piping and Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping and Pumps (23 20)

23 21 13 Hydronic Piping (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)

23 21 13 23-0001 Threaded Black Steel Pipe (23 21 13 23)

23 21 13 23-0002 Threaded Black Steel Pipe Assemblies (23 21 13 23-0001)

23 21 13 23-0003 LF 1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	21.89	5.19
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	5.02	
<i>For Work In Restricted Working Space, Add</i>		
	5.36	
23 21 13 23-0004 LF 3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	23.49	5.57
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	5.47	
<i>For Work In Restricted Working Space, Add</i>		
	5.60	
23 21 13 23-0005 LF 1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	25.44	6.10
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	6.01	
<i>For Work In Restricted Working Space, Add</i>		
	5.91	
23 21 13 23-0006 LF 1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	29.52	6.36
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	7.23	
<i>For Work In Restricted Working Space, Add</i>		
	6.38	
23 21 13 23-0007 LF 1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	30.81	7.53
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	7.64	
<i>For Work In Restricted Working Space, Add</i>		
	6.47	
23 21 13 23-0008 LF 2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	36.04	9.07
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	9.09	
<i>For Work In Restricted Working Space, Add</i>		
	7.28	
23 21 13 23-0009 LF 2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	50.10	10.76
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	13.22	
<i>For Work In Restricted Working Space, Add</i>		
	9.04	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0010	LF	3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.04 16.79 11.07	14.40
23 21	13 23-0011	LF	4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.52 23.08 11.08	15.33
23 21	13 23-0012	LF	5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.45 37.40 13.20	19.59
23 21	13 23-0013	LF	6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.19 44.65 14.95	23.17
23 21	13 23-0014		Threaded Black Steel Pipe And Fittings <small>(23 21 13 23-0001)</small> Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
23 21	13 23-0015		Threaded And Coupled, Black Steel Piping <small>(23 21 13 23-0014)</small> Note: ASTM A-53. Includes coupling.		
23 21	13 23-0016	LF	3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	7.82 1.23 1.97	3.24
23 21	13 23-0017	LF	1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	9.98 1.74 2.36	5.19
23 21	13 23-0018	LF	3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.12 2.07 2.51	5.57
23 21	13 23-0019	LF	1" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.73 2.56 2.72	6.10
23 21	13 23-0020	LF	1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.52 3.17 2.88	6.36
23 21	13 23-0021	LF	1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.15 3.77 3.38	7.53
23 21	13 23-0022	LF	2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.34 4.83 4.10	9.07
23 21	13 23-0023	LF	2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.35 7.08 4.86	10.76
23 21	13 23-0024	LF	3" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.52 9.32 6.48	14.40
23 21	13 23-0025	LF	4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.83 13.00 6.92	15.33
23 21	13 23-0026	LF	5" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.93 17.15 8.80	19.59
23 21	13 23-0027	LF	6" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.37 22.22 10.41	23.17
23 21	13 23-0028	LF	8" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.72 32.00 12.58	28.01
23 21	13 23-0029	LF	10" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.70 44.48 15.37	34.12
23 21	13 23-0030	LF	12" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.86 59.65 20.18	44.85
23 21	13 23-0031		Black Malleable Iron 90 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21	13 23-0032	EA	3/8", 150 LB, Black Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.42 12.79 0.07 8.64	19.20
23 21	13 23-0033	EA	1/2", 150 LB, Black Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.77 9.73 0.05 10.37	23.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	42.56	25.81
<i>For 300 LB Rating, Add</i>	11.56	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.06	
<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow	49.91	28.78
<i>For 300 LB Rating, Add</i>	18.65	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow	59.96	32.68
<i>For 300 LB Rating, Add</i>	29.41	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.18	
<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	69.69	36.83
<i>For 300 LB Rating, Add</i>	38.13	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21 13 23-0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow	95.12	46.81
<i>For 300 LB Rating, Add</i>	64.28	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.40	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	159.50	69.25
<i>For 300 LB Rating, Add</i>	140.05	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.89	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow	218.09	91.03
<i>For 300 LB Rating, Add</i>	204.01	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.31	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow	309.74	89.68
<i>For 300 LB Rating, Add</i>	428.67	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.80	
<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow	652.44	93.60
<i>For 300 LB Rating, Add</i>	1,237.46	
<i>For Standard Weight Cast Iron Fittings, Add</i>	8.19	
<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow	738.27	97.87
<i>For 300 LB Rating, Add</i>	1,428.52	
<i>For Standard Weight Cast Iron Fittings, Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	37.77	21.14
<i>For 300 LB Rating, Add</i>	16.49	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	9.51	
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	42.91	24.38
<i>For 300 LB Rating, Add</i>	17.22	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	11.00	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	42.51	22.57
<i>For 300 LB Rating, Add</i>	23.03	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	10.13	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	49.01	27.36
<i>For 300 LB Rating, Add</i>	21.75	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
<i>For Work In Restricted Working Space, Add</i>	12.29	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	47.57	25.94
<i>For 300 LB Rating, Add</i>	23.14	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	53.10	23.99
<i>For 300 LB Rating, Add</i>	43.13	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	10.81	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	59.59	30.73
<i>For 300 LB Rating, Add</i>	35.19	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	58.89	29.18
<i>For 300 LB Rating, Add</i>	38.82	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.24	
<i>For Work In Restricted Working Space, Add</i>	13.14	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	59.36	27.88
<i>For 300 LB Rating, Add</i>	44.77	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.28	
<i>For Work In Restricted Working Space, Add</i>	12.53	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	71.11	34.75
<i>For 300 LB Rating, Add</i>	48.87	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	15.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0055	EA	1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	68.26	32.81
			<i>For 300 LB Rating, Add</i>	48.70	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
			<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21	13 23-0056	EA	1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	68.75	31.25
			<i>For 300 LB Rating, Add</i>	55.16	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.35	
			<i>For Work In Restricted Working Space, Add</i>	14.08	
23 21	13 23-0057	EA	2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	90.26	41.75
			<i>For 300 LB Rating, Add</i>	70.05	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.44	
			<i>For Work In Restricted Working Space, Add</i>	18.79	
23 21	13 23-0058	EA	2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	90.89	39.68
			<i>For 300 LB Rating, Add</i>	78.88	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	17.85	
23 21	13 23-0059	EA	2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	88.03	37.74
			<i>For 300 LB Rating, Add</i>	78.71	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	17.00	
23 21	13 23-0060	EA	2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	87.67	36.31
			<i>For 300 LB Rating, Add</i>	83.11	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	16.32	
23 21	13 23-0061	EA	2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	162.71	57.97
			<i>For 300 LB Rating, Add</i>	187.11	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.21	
			<i>For Work In Restricted Working Space, Add</i>	26.08	
23 21	13 23-0062	EA	2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	159.72	53.04
			<i>For 300 LB Rating, Add</i>	197.37	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	23.84	
23 21	13 23-0063	EA	3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	261.95	80.14
			<i>For 300 LB Rating, Add</i>	347.60	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.27	
			<i>For Work In Restricted Working Space, Add</i>	36.04	
23 21	13 23-0064	EA	3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	225.82	68.85
			<i>For 300 LB Rating, Add</i>	300.25	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.96	
			<i>For Work In Restricted Working Space, Add</i>	30.99	
23 21	13 23-0065	EA	4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	370.32	85.30
			<i>For 300 LB Rating, Add</i>	589.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.88	
			<i>For Work In Restricted Working Space, Add</i>	38.38	
23 21	13 23-0066		Black Malleable Iron 45 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21	13 23-0067	EA	3/8", 150 LB, Black Malleable Iron 45 Degree Elbow.....	35.75	19.20
			<i>For 300 LB Rating, Add</i>	18.38	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 21	13 23-0068	EA	1/2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	39.86	23.08
			<i>For 300 LB Rating, Add</i>	14.75	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.08	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0069	EA	3/4", 150 LB, Black Malleable Iron 45 Degree Elbow.....	45.23	25.81
			<i>For 300 LB Rating, Add</i>	17.97	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21	13 23-0070	EA	1", 150 LB, Black Malleable Iron 45 Degree Elbow.....	51.43	28.78
			<i>For 300 LB Rating, Add</i>	22.30	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
			<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21	13 23-0071	EA	1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow	63.46	32.68
			<i>For 300 LB Rating, Add</i>	37.81	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21	13 23-0072	EA	1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	73.15	36.83
			<i>For 300 LB Rating, Add</i>	46.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21	13 23-0073	EA	2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	97.26	46.81
			<i>For 300 LB Rating, Add</i>	69.41	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.43	
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-0074	EA	2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	182.36	69.25
			<i>For 300 LB Rating, Add</i>	194.91	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-0075	EA	3", 150 LB, Black Malleable Iron 45 Degree Elbow.....	238.62	91.03
			<i>For 300 LB Rating, Add</i>	253.28	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	40.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow	334.75	89.68
<i>For 300 LB Rating, Add</i>	488.69	
<i>For Standard Weight Cast Iron Fittings, Add</i>	3.20	
<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow	931.37	93.60
<i>For 300 LB Rating, Add</i>	1,906.89	
<i>For Standard Weight Cast Iron Fittings, Add</i>	12.66	
<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow	956.04	97.87
<i>For 300 LB Rating, Add</i>	1,951.17	
<i>For Standard Weight Cast Iron Fittings, Add</i>	12.95	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0079 Black Malleable Iron Tees <small>(23 21 13 23-0014)</small>		
23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee.....	42.71	23.73
<i>For 300 LB Rating, Add</i>	18.22	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
<i>For Work In Restricted Working Space, Add</i>	10.81	
23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee.....	47.49	28.78
<i>For 300 LB Rating, Add</i>	12.84	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....	56.00	33.33
<i>For 300 LB Rating, Add</i>	17.70	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....	69.43	39.30
<i>For 300 LB Rating, Add</i>	28.71	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....	87.08	46.81
<i>For 300 LB Rating, Add</i>	44.98	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....	104.79	55.76
<i>For 300 LB Rating, Add</i>	55.73	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.34	
<i>For Work In Restricted Working Space, Add</i>	25.10	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....	139.75	69.25
<i>For 300 LB Rating, Add</i>	92.65	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.58	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....	214.14	91.03
<i>For 300 LB Rating, Add</i>	194.53	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.24	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....	276.46	108.15
<i>For 300 LB Rating, Add</i>	284.19	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.83	
<i>For Work In Restricted Working Space, Add</i>	48.63	
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....	446.31	113.32
<i>For 300 LB Rating, Add</i>	673.60	
<i>For Standard Weight Cast Iron Fittings, Add</i>	4.42	
<i>For Work In Restricted Working Space, Add</i>	50.97	
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....	1,039.38	134.53
<i>For 300 LB Rating, Add</i>	2,022.44	
<i>For Standard Weight Cast Iron Fittings, Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	60.52	
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....	1,129.49	153.78
<i>For 300 LB Rating, Add</i>	2,171.27	
<i>For Standard Weight Cast Iron Fittings, Add</i>	14.38	
<i>For Work In Restricted Working Space, Add</i>	69.17	
23 21 13 23-0092 Black Malleable Iron Reducing Tees <small>(23 21 13 23-0014)</small>		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....	50.48	28.78
<i>For 300 LB Rating, Add</i>	20.02	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.12	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....	59.35	33.33
<i>For 300 LB Rating, Add</i>	25.74	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....	70.89	39.30
<i>For 300 LB Rating, Add</i>	32.22	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	93.59	46.81
<i>For 300 LB Rating, Add</i>	60.61	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.38	
<i>For Work In Restricted Working Space, Add</i>	21.03	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0097	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.70 67.52 0.42 25.10	55.76
23 21	13 23-0098	EA	2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.54 96.94 0.60 31.12	69.25
23 21	13 23-0099	EA	2-1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.27 290.84 1.88 40.95	91.03
23 21	13 23-0100	EA	3", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.99 333.46 2.16 48.63	108.15
23 21	13 23-0101	EA	4", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	497.04 795.35 5.23 50.97	113.32
23 21	13 23-0102	EA	5", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	960.55 1,833.25 12.14 60.52	134.53
23 21	13 23-0103	EA	6", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,091.23 2,079.44 13.77 69.17	153.78
23 21	13 23-0104		Black Malleable Iron Couplings (23 21 13 23-0014)		
23 21	13 23-0105	EA	3/8", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.54 15.48 0.09 8.64	19.20
23 21	13 23-0106	EA	1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.00 12.68 0.07 10.37	23.08
23 21	13 23-0107	EA	3/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.88 14.73 0.08 11.61	25.81
23 21	13 23-0108	EA	1", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.96 21.17 0.12 12.97	28.78
23 21	13 23-0109	EA	1-1/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.96 27.01 0.16 14.68	32.68
23 21	13 23-0110	EA	1-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.72 35.81 0.22 16.55	36.83
23 21	13 23-0111	EA	2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.17 52.40 0.32 21.03	46.81
23 21	13 23-0112	EA	2-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.14 139.18 0.89 31.12	69.25
23 21	13 23-0113	EA	3", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.40 187.95 1.20 40.95	91.03
23 21	13 23-0114	EA	4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.33 370.09 2.41 40.35	89.68
23 21	13 23-0115	EA	5", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	565.09 1,027.82 6.80 42.10	93.60
23 21	13 23-0116	EA	6", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	630.61 1,170.14 7.74 44.02	97.87

23 21 13 23-0117 **Black Malleable Iron Reducing Couplings** (23 21 13 23-0014)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	40.06	23.08
<i>For 300 LB Rating, Add</i>	15.23	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....	44.51	25.81
<i>For 300 LB Rating, Add</i>	16.24	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....	52.25	28.78
<i>For 300 LB Rating, Add</i>	24.27	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....	60.55	32.68
<i>For 300 LB Rating, Add</i>	30.82	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21 13 23-0122 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	69.86	36.83
<i>For 300 LB Rating, Add</i>	38.54	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling.....	91.36	46.81
<i>For 300 LB Rating, Add</i>	55.25	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.34	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	166.62	69.25
<i>For 300 LB Rating, Add</i>	157.14	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.01	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling.....	212.93	91.03
<i>For 300 LB Rating, Add</i>	191.62	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.22	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling.....	287.69	89.68
<i>For 300 LB Rating, Add</i>	375.75	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.45	
<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling.....	484.68	93.60
<i>For 300 LB Rating, Add</i>	834.84	
<i>For Standard Weight Cast Iron Fittings, Add</i>	5.51	
<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling.....	589.00	97.87
<i>For 300 LB Rating, Add</i>	1,070.28	
<i>For Standard Weight Cast Iron Fittings, Add</i>	7.08	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0129 Black Malleable Iron Caps <small>(23 21 13 23-0014)</small>		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap	18.79	10.24
<i>For 300 LB Rating, Add</i>	8.69	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.05	
<i>For Work In Restricted Working Space, Add</i>	4.67	
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap	21.78	11.54
<i>For 300 LB Rating, Add</i>	11.53	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap	24.74	12.84
<i>For 300 LB Rating, Add</i>	13.86	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.08	
<i>For Work In Restricted Working Space, Add</i>	5.84	
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap	28.98	14.53
<i>For 300 LB Rating, Add</i>	18.03	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap	34.40	16.34
<i>For 300 LB Rating, Add</i>	24.46	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
<i>For Work In Restricted Working Space, Add</i>	7.45	
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap	45.52	20.88
<i>For 300 LB Rating, Add</i>	35.44	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	9.46	
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap	78.75	30.87
<i>For 300 LB Rating, Add</i>	79.77	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.51	
<i>For Work In Restricted Working Space, Add</i>	14.00	
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap	108.72	40.58
<i>For 300 LB Rating, Add</i>	117.18	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	18.43	
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap	141.61	40.00
<i>For 300 LB Rating, Add</i>	198.25	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.30	
<i>For Work In Restricted Working Space, Add</i>	18.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0139	EA	5", 150 LB, Black Malleable Iron Cap..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	256.41 467.61 3.09 18.95	41.73
23 21	13 23-0140	EA	6", 150 LB, Black Malleable Iron Cap..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	420.28 854.19 5.67 19.81	43.58
23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)					
23 21	13 23-0142	EA	3/8", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	44.29 8.64	19.20
23 21	13 23-0143	EA	1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	57.23 12.97	28.78
23 21	13 23-0144	EA	3/4", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	65.97 14.96	33.33
23 21	13 23-0145	EA	1", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	79.94 17.68	39.30
23 21	13 23-0146	EA	1-1/4", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	100.21 21.03	46.81
23 21	13 23-0147	EA	1-1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	121.21 25.10	55.76
23 21	13 23-0148	EA	2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	147.40 31.12	69.25
23 21	13 23-0149	EA	2-1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	283.21 45.94	102.05
23 21	13 23-0150	EA	3", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	358.09 60.45	134.22
23 21	13 23-0151	EA	3/8", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	49.27 8.64	19.20
23 21	13 23-0152	EA	1/2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	66.70 12.97	28.78
23 21	13 23-0153	EA	3/4", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	72.96 14.96	33.33
23 21	13 23-0154	EA	1", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	87.26 17.68	39.30
23 21	13 23-0155	EA	1-1/4", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	117.63 21.03	46.81
23 21	13 23-0156	EA	1-1/2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	138.39 25.10	55.76
23 21	13 23-0157	EA	2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	173.95 31.12	69.25
23 21	13 23-0158	EA	2-1/2", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	373.21 45.94	102.05
23 21	13 23-0159	EA	3", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	459.06 60.45	134.22
23 21	13 23-0160	EA	4", 250 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	655.07 59.56	132.34
23 21	13 23-0161	EA	3/8", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	62.01 8.64	19.20
23 21	13 23-0162	EA	1/2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	70.08 12.97	28.78
23 21	13 23-0163	EA	3/4", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	79.62 14.96	33.33
23 21	13 23-0164	EA	1", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	97.77 17.68	39.30
23 21	13 23-0165	EA	1-1/4", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	133.43 21.03	46.81
23 21	13 23-0166	EA	1-1/2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	149.99 25.10	55.76
23 21	13 23-0167	EA	2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	185.90 31.12	69.25
23 21	13 23-0168	EA	2-1/2", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	418.05 45.94	102.05
23 21	13 23-0169	EA	3", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	544.20 60.45	134.22
23 21	13 23-0170	EA	4", 300 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	1,286.25 59.56	132.34
23 21 13 23-0171 Black Steel Nipples (23 21 13 23-0014)					
23 21	13 23-0172	EA	3/8" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.56 1.02 5.56	12.31
23 21	13 23-0173	EA	1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.24 0.86 5.56	12.31
23 21	13 23-0174	EA	3/4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.50 0.99 5.56	12.31
23 21	13 23-0175	EA	1" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.82 1.44 5.99	13.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple	25.25	14.40
For Schedule 80 Nipples, Add	1.82	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple	26.14	14.40
For Schedule 80 Nipples, Add	2.27	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....	34.06	18.54
For Schedule 80 Nipples, Add	3.09	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple	53.89	23.08
For Schedule 80 Nipples, Add	9.66	
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....	64.78	27.88
For Schedule 80 Nipples, Add	11.48	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....	80.68	30.78
For Schedule 80 Nipples, Add	17.28	
For Work In Restricted Working Space, Add	13.84	
23 21 13 23-0182 EA 3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.84	12.31
For Schedule 80 Nipples, Add	1.16	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0183 EA 1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.24	12.31
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0184 EA 3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.65	12.31
For Schedule 80 Nipples, Add	1.07	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0185 EA 3/8" x 2" Long, Schedule 40 Black Steel Nipple.....	20.84	12.31
For Schedule 80 Nipples, Add	1.16	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0186 EA 1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	20.24	12.31
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0187 EA 3/4" x 2" Long, Schedule 40 Black Steel Nipple.....	20.65	12.31
For Schedule 80 Nipples, Add	1.07	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0188 EA 1" x 2" Long, Schedule 40 Black Steel Nipple.....	23.10	13.36
For Schedule 80 Nipples, Add	1.58	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0189 EA 1-1/4" x 2" Long, Schedule 40 Black Steel Nipple	25.74	14.40
For Schedule 80 Nipples, Add	2.07	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0190 EA 1-1/2" x 2" Long, Schedule 40 Black Steel Nipple	26.50	14.40
For Schedule 80 Nipples, Add	2.45	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0191 EA 3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0192 EA 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	20.56	12.31
For Schedule 80 Nipples, Add	1.02	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0193 EA 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	20.92	12.31
For Schedule 80 Nipples, Add	1.20	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0194 EA 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple	23.29	13.36
For Schedule 80 Nipples, Add	1.67	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0195 EA 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	25.99	14.40
For Schedule 80 Nipples, Add	2.19	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0196 EA 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	27.08	14.40
For Schedule 80 Nipples, Add	2.74	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0197 EA 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	34.97	18.54
For Schedule 80 Nipples, Add	3.54	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0198 EA 3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0199 EA 1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	20.56	12.31
For Schedule 80 Nipples, Add	1.02	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0200 EA 3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	20.92	12.31
For Schedule 80 Nipples, Add	1.20	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0201 EA 1" x 3" Long, Schedule 40 Black Steel Nipple.....	23.29	13.36
For Schedule 80 Nipples, Add	1.67	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0202 EA 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple	25.99	14.40
For Schedule 80 Nipples, Add	2.19	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0203 EA 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple	27.08	14.40
For Schedule 80 Nipples, Add	2.74	
For Work In Restricted Working Space, Add	6.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple.....	34.97	18.54
			<i>For Schedule 80 Nipples, Add</i>	3.54	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	54.40	23.08
			<i>For Schedule 80 Nipples, Add</i>	9.91	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple.....	66.78	27.88
			<i>For Schedule 80 Nipples, Add</i>	12.48	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	22.03	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	20.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.23	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0210	EA	1" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	24.08	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0211	EA	1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	26.80	14.40
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0212	EA	1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	27.74	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0213	EA	2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	36.46	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0214	EA	2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	57.89	23.08
			<i>For Schedule 80 Nipples, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0215	EA	3" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	71.37	27.88
			<i>For Schedule 80 Nipples, Add</i>	14.77	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0216	EA	3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	22.03	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0217	EA	1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	20.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.23	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0218	EA	3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0219	EA	1" x 4" Long, Schedule 40 Black Steel Nipple.....	24.08	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple.....	26.80	14.40
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	27.74	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple.....	36.46	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	57.89	23.08
			<i>For Schedule 80 Nipples, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple.....	71.37	27.88
			<i>For Schedule 80 Nipples, Add</i>	14.77	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple.....	86.11	30.78
			<i>For Schedule 80 Nipples, Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	23.58	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	21.39	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.44	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	22.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	24.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	27.82	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.11	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	29.10	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.75	
			<i>For Work In Restricted Working Space, Add</i>	6.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	37.76	18.54
<i>For Schedule 80 Nipples, Add</i>	4.94	
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	60.19	23.08
<i>For Schedule 80 Nipples, Add</i>	12.81	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple	74.42	27.88
<i>For Schedule 80 Nipples, Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	91.81	30.78
<i>For Schedule 80 Nipples, Add</i>	22.85	
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	23.58	12.31
<i>For Schedule 80 Nipples, Add</i>	2.53	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	21.39	12.31
<i>For Schedule 80 Nipples, Add</i>	1.44	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0238 EA 3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	22.26	12.31
<i>For Schedule 80 Nipples, Add</i>	1.87	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0239 EA 1" x 5" Long, Schedule 40 Black Steel Nipple.....	24.84	13.36
<i>For Schedule 80 Nipples, Add</i>	2.45	
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21 13 23-0240 EA 1-1/4" x 5" Long, Schedule 40 Black Steel Nipple	27.82	14.40
<i>For Schedule 80 Nipples, Add</i>	3.11	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0241 EA 1-1/2" x 5" Long, Schedule 40 Black Steel Nipple	29.10	14.40
<i>For Schedule 80 Nipples, Add</i>	3.75	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0242 EA 2" x 5" Long, Schedule 40 Black Steel Nipple.....	37.76	18.54
<i>For Schedule 80 Nipples, Add</i>	4.94	
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-0243 EA 2-1/2" x 5" Long, Schedule 40 Black Steel Nipple	60.19	23.08
<i>For Schedule 80 Nipples, Add</i>	12.81	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0244 EA 3" x 5" Long, Schedule 40 Black Steel Nipple.....	74.42	27.88
<i>For Schedule 80 Nipples, Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21 13 23-0245 EA 4" x 5" Long, Schedule 40 Black Steel Nipple.....	91.81	30.78
<i>For Schedule 80 Nipples, Add</i>	22.85	
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21 13 23-0246 EA 3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	24.16	12.31
<i>For Schedule 80 Nipples, Add</i>	2.82	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0247 EA 1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	21.73	12.31
<i>For Schedule 80 Nipples, Add</i>	1.61	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0248 EA 3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	22.77	12.31
<i>For Schedule 80 Nipples, Add</i>	2.13	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0249 EA 1" x 6" Long, Schedule 40 Black Steel Nipple.....	25.74	13.36
<i>For Schedule 80 Nipples, Add</i>	2.90	
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21 13 23-0250 EA 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple	28.97	14.40
<i>For Schedule 80 Nipples, Add</i>	3.68	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0251 EA 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple	30.20	14.40
<i>For Schedule 80 Nipples, Add</i>	4.30	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0252 EA 2" x 6" Long, Schedule 40 Black Steel Nipple.....	39.46	18.54
<i>For Schedule 80 Nipples, Add</i>	5.79	
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-0253 EA 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple	61.27	23.08
<i>For Schedule 80 Nipples, Add</i>	13.35	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0254 EA 3" x 6" Long, Schedule 40 Black Steel Nipple.....	77.25	27.88
<i>For Schedule 80 Nipples, Add</i>	17.71	
<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21 13 23-0255 EA 4" x 6" Long, Schedule 40 Black Steel Nipple.....	94.96	30.78
<i>For Schedule 80 Nipples, Add</i>	24.42	
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21 13 23-0256 EA 3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	28.41	12.31
<i>For Schedule 80 Nipples, Add</i>	4.95	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0257 EA 1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	24.31	12.31
<i>For Schedule 80 Nipples, Add</i>	2.90	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0258 EA 3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	25.60	12.31
<i>For Schedule 80 Nipples, Add</i>	3.54	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0259 EA 1" x 8" Long, Schedule 40 Black Steel Nipple.....	29.42	13.36
<i>For Schedule 80 Nipples, Add</i>	4.74	
<i>For Work In Restricted Working Space, Add</i>	5.99	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0260	EA	1-1/4" x 8" Long, Schedule 40 Black Steel Nipple.....	33.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	5.95	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0261	EA	1-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	35.24	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.82	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0262	EA	2" x 8" Long, Schedule 40 Black Steel Nipple.....	47.29	18.54
			<i>For Schedule 80 Nipples, Add</i>	9.70	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0263	EA	2-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	68.55	23.08
			<i>For Schedule 80 Nipples, Add</i>	16.99	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0264	EA	3" x 8" Long, Schedule 40 Black Steel Nipple.....	89.60	27.88
			<i>For Schedule 80 Nipples, Add</i>	23.89	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0265	EA	4" x 8" Long, Schedule 40 Black Steel Nipple.....	102.49	30.78
			<i>For Schedule 80 Nipples, Add</i>	28.19	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0266	EA	3/8" x 10" Long, Schedule 40 Black Steel Nipple.....	29.62	12.31
			<i>For Schedule 80 Nipples, Add</i>	5.55	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0267	EA	1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	25.48	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.48	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0268	EA	3/4" x 10" Long, Schedule 40 Black Steel Nipple.....	26.75	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.12	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0269	EA	1" x 10" Long, Schedule 40 Black Steel Nipple.....	31.01	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.53	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0270	EA	1-1/4" x 10" Long, Schedule 40 Black Steel Nipple.....	35.86	14.40
			<i>For Schedule 80 Nipples, Add</i>	7.13	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0271	EA	1-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	37.56	14.40
			<i>For Schedule 80 Nipples, Add</i>	7.98	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0272	EA	2" x 10" Long, Schedule 40 Black Steel Nipple.....	50.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	11.40	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0273	EA	2-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	72.74	23.08
			<i>For Schedule 80 Nipples, Add</i>	19.08	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0274	EA	3" x 10" Long, Schedule 40 Black Steel Nipple.....	95.50	27.88
			<i>For Schedule 80 Nipples, Add</i>	26.84	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0275	EA	4" x 10" Long, Schedule 40 Black Steel Nipple.....	110.31	30.78
			<i>For Schedule 80 Nipples, Add</i>	32.10	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0276	EA	3/8" x 12" Long, Schedule 40 Black Steel Nipple.....	31.15	12.31
			<i>For Schedule 80 Nipples, Add</i>	6.32	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0277	EA	1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	26.77	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.13	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0278	EA	3/4" x 12" Long, Schedule 40 Black Steel Nipple.....	27.67	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.58	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0279	EA	1" x 12" Long, Schedule 40 Black Steel Nipple.....	32.65	13.36
			<i>For Schedule 80 Nipples, Add</i>	6.35	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0280	EA	1-1/4" x 12" Long, Schedule 40 Black Steel Nipple.....	37.78	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.09	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0281	EA	1-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	39.99	14.40
			<i>For Schedule 80 Nipples, Add</i>	9.19	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0282	EA	2" x 12" Long, Schedule 40 Black Steel Nipple.....	54.14	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.13	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0283	EA	2-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	77.04	23.08
			<i>For Schedule 80 Nipples, Add</i>	21.23	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0284	EA	3" x 12" Long, Schedule 40 Black Steel Nipple.....	101.39	27.88
			<i>For Schedule 80 Nipples, Add</i>	29.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0285	EA	4" x 12" Long, Schedule 40 Black Steel Nipple.....	121.38	30.78
			<i>For Schedule 80 Nipples, Add</i>	37.63	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0286		Black Malleable Iron Bushing <small>(23 21 13 23-0014)</small>		
	23 21	13 23-0287	EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	36.60	21.14
			<i>For Work In Restricted Working Space, Add</i>	9.51	
	23 21	13 23-0288	EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	41.12	22.70
			<i>For Work In Restricted Working Space, Add</i>	10.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.72 11.00	24.38
23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	46.06 10.89	24.25
23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	46.19 11.67	25.94
23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.26 12.29	27.36
23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	50.11 11.75	26.07
23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	52.20 12.53	27.88
23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	53.21 13.14	29.18
23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	55.48 13.82	30.73
23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.71 12.68	28.27
23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.77 13.46	29.95
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.83 14.08	31.25
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.65 14.76	32.81
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	63.98 15.62	34.75
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.12 14.92	33.20
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.30 15.70	34.88
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.60 16.32	36.31
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.89 17.00	37.74
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	73.75 17.85	39.68
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	78.48 18.79	41.75
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	97.10 21.37	47.47
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	99.35 22.04	49.02
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	102.21 22.90	50.84
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	103.57 23.84	53.04
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	110.83 26.08	57.97
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	123.39 26.28	58.35
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	125.64 26.96	59.91
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	128.50 27.82	61.85
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	130.93 28.76	63.93
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	136.08 30.99	68.85
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.39 36.04	80.14
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.08 25.34	56.26
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	155.08 25.94	57.64
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	157.62 26.70	59.37
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	160.39 27.53	61.22
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	163.33 29.52	65.60
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	178.29 34.01	75.62
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	192.85 38.38	85.30
23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	15.28 3.46	7.65
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	17.83 4.15	9.21
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	19.48 4.64	10.37

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0330	EA	1", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	22.31 5.18	11.54
23 21	13 23-0331	EA	1-1/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	25.90 5.87	13.10
23 21	13 23-0332	EA	1-1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	30.90 6.62	14.66
23 21	13 23-0333	EA	2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	40.59 8.41	18.67
23 21	13 23-0334	EA	2-1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	64.34 12.45	27.62
23 21	13 23-0335	EA	3", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	85.97 16.38	36.44
23 21	13 23-0336	EA	4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	119.58 16.14	35.85
23 21	13 23-0337	EA	5", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	197.44 16.84	37.46
23 21	13 23-0338	EA	6", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	233.70 17.61	39.07
23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges (23 21 13 23-0014)					
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.					
23 21	13 23-0340	EA	3/4", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	149.43 23.34	51.87
23 21	13 23-0341	EA	1", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	133.47 26.38	58.61
23 21	13 23-0342	EA	1-1/4", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	145.49 27.30	60.69
23 21	13 23-0343	EA	1-1/2", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	149.35 29.70	66.01
23 21	13 23-0344	EA	2", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	153.58 31.00	68.85
23 21	13 23-0345	EA	2-1/2", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	178.30 35.85	79.75
23 21	13 23-0346	EA	3", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	227.40 45.50	101.15
23 21	13 23-0347	EA	4", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	286.51 55.33	123.01
23 21	13 23-0348	EA	5", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	363.77 65.87	146.52
23 21	13 23-0349	EA	6", 125 LB, Black Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	415.31 75.65	168.20
23 21 13 23-0350 150 LB, Black Malleable Iron Flanges (23 21 13 23-0014)					
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.					
23 21	13 23-0351	EA	1/2", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	86.89 21.32	47.33
23 21	13 23-0352	EA	3/4", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	94.88 23.34	51.87
23 21	13 23-0353	EA	1", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	110.08 26.37	58.61
23 21	13 23-0354	EA	1-1/4", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	114.70 27.30	60.69
23 21	13 23-0355	EA	1-1/2", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	124.86 29.70	66.01
23 21	13 23-0356	EA	2", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	137.05 30.99	68.85
23 21	13 23-0357	EA	2-1/2", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	172.41 35.85	79.75
23 21	13 23-0358	EA	3", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	218.50 45.49	101.15
23 21	13 23-0359	EA	4", 150 LB, Black Malleable Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	297.99 55.32	123.01
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe (23 21 13 23-0014)					
Note: For use when connecting pipe to an existing in-place system.					
23 21	13 23-0361	EA	1/2", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	42.25 12.68	
23 21	13 23-0362	EA	3/4", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	46.48 13.94	
23 21	13 23-0363	EA	1", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	50.71 15.21	
23 21	13 23-0364	EA	1-1/4", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	54.93 16.48	
23 21	13 23-0365	EA	1-1/2", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	57.74 17.32	
23 21	13 23-0366	EA	2", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	60.56 18.17	
23 21	13 23-0367	EA	2-1/2", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	63.38 19.01	
23 21	13 23-0368	EA	3", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	66.19 19.86	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 21	13 23-0369	EA	4", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	69.01 20.70	
	23 21	13 23-0370	EA	6", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	74.64 22.39	
	23 21	13 23-0371	EA	8", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	80.27 24.08	
	23 21	13 23-0372	EA	10", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	87.32 26.20	
	23 21	13 23-0373	EA	12", Cut And Thread Existing In Place Black Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	92.95 27.89	
	23 21	13 23-0374		Welded Black Steel Pipe <small>(23 21 13 23)</small>		
	23 21	13 23-0375		Welded Plain End Black Steel Pipe Assemblies <small>(23 21 13 23-0374)</small>		
				Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
	23 21	13 23-0376	LF	3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	29.80 7.19	9.84
	23 21	13 23-0377	LF	1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	33.25 8.06	10.49
	23 21	13 23-0378	LF	1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	39.64 9.24	11.15
	23 21	13 23-0379	LF	1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	42.34 9.67	11.15
	23 21	13 23-0380	LF	2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	48.55 11.19	11.15
	23 21	13 23-0381	LF	2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	56.27 12.97	11.15
	23 21	13 23-0382	LF	3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	64.64 13.68	10.89
	23 21	13 23-0383	LF	4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	80.41 15.54	12.52
	23 21	13 23-0384	LF	6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	107.75 17.89	18.66
	23 21	13 23-0385	LF	8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	163.33 26.54	23.18
	23 21	13 23-0386	LF	10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	216.51 31.65	28.98
	23 21	13 23-0387	LF	12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	270.94 36.57	35.00
	23 21	13 23-0388	LF	14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	299.52 40.80	45.67
	23 21	13 23-0389	LF	16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	347.51 45.59	57.95
	23 21	13 23-0390	LF	18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	437.75 50.03	71.74
	23 21	13 23-0391	LF	20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	556.29 57.26	88.67
	23 21	13 23-0392	LF	24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... <i>For Work In Restricted Working Space, Add</i>	683.73 62.96	100.49

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 21 13 23-0393		Welded Black Steel Pipe And Fittings <small>(23 21 13 23-0374)</small>			
		Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.			
23 21 13 23-0394		Welded Plain End Black Steel Piping <small>(23 21 13 23-0393)</small>			
		Note: ASTM A-53			
23 21 13 23-0395	LF	3/4" Schedule 40, Welded Plain End Black Steel Pipe	12.84		5.25
		For Schedule 80 Pipe, Add	2.04		
		For Schedule A-106 Pipe, Add	0.28		
		For Work In Restricted Working Space, Add	3.15		
23 21 13 23-0396	LF	1" Schedule 40, Welded Plain End Black Steel Pipe	16.24		6.55
		For Schedule 80 Pipe, Add	2.59		
		For Schedule A-106 Pipe, Add	0.37		
		For Work In Restricted Working Space, Add	3.94		
23 21 13 23-0397	LF	1-1/4" Schedule 40, Welded Plain End Black Steel Pipe	20.32		7.87
		For Schedule 80 Pipe, Add	3.28		
		For Schedule A-106 Pipe, Add	0.55		
		For Work In Restricted Working Space, Add	4.72		
23 21 13 23-0398	LF	1-1/2" Schedule 40, Welded Plain End Black Steel Pipe	24.45		9.18
		For Schedule 80 Pipe, Add	3.97		
		For Schedule A-106 Pipe, Add	0.73		
		For Work In Restricted Working Space, Add	5.51		
23 21 13 23-0399	LF	2" Schedule 40, Welded Plain End Black Steel Pipe	29.05		10.89
		For Schedule 80 Pipe, Add	4.72		
		For Schedule A-106 Pipe, Add	0.87		
		For Work In Restricted Working Space, Add	6.53		
23 21 13 23-0400	LF	2-1/2" Schedule 40, Welded Plain End Black Steel Pipe	33.14		12.33
		For Schedule 80 Pipe, Add	7.28		
		For Schedule A-106 Pipe, Add	1.02		
		For Work In Restricted Working Space, Add	7.40		
23 21 13 23-0401	LF	3" Schedule 40, Welded Plain End Black Steel Pipe	39.97		13.25
		For Schedule 80 Pipe, Add	9.35		
		For Schedule A-106 Pipe, Add	1.62		
		For Work In Restricted Working Space, Add	7.95		
23 21 13 23-0402	LF	4" Schedule 40, Welded Plain End Black Steel Pipe	54.37		16.40
		For Schedule 80 Pipe, Add	13.29		
		For Schedule A-106 Pipe, Add	2.59		
		For Work In Restricted Working Space, Add	9.84		
23 21 13 23-0403	LF	6" Schedule 40, Welded Plain End Black Steel Pipe	76.84		26.56
		For Schedule 80 Pipe, Add	19.78		
		For Schedule A-106 Pipe, Add	4.34		
		For Work In Restricted Working Space, Add	12.20		
23 21 13 23-0404	LF	8" Schedule 40, Welded Plain End Black Steel Pipe	104.38		24.92
		For Schedule 80 Pipe, Add	27.81		
		For Schedule A-106 Pipe, Add	6.54		
		For Schedule 30 Pipe, Deduct	-15.89		
		For Work In Restricted Working Space, Add	14.95		
23 21 13 23-0405	LF	10" Schedule 40, Welded Plain End Black Steel Pipe	137.24		30.02
		For Schedule 80 Pipe, Add	37.53		
		For Schedule A-106 Pipe, Add	9.26		
		For Schedule 30 Pipe, Deduct	-21.44		
		For Work In Restricted Working Space, Add	18.01		
23 21 13 23-0406	LF	12" Schedule 40, Welded Plain End Black Steel Pipe	174.65		36.27
		For Schedule 80 Pipe, Add	48.43		
		For Schedule A-106 Pipe, Add	12.25		
		For Schedule 30 Pipe, Deduct	-27.67		
		For Work In Restricted Working Space, Add	21.77		
23 21 13 23-0407	LF	14" Schedule 40, Welded Plain End Black Steel Pipe	169.59		38.25
		For Schedule 80 Pipe, Add	45.97		
		For Schedule A-106 Pipe, Add	11.17		
		For Schedule 30 Pipe, Deduct	-26.27		
		For Schedule 20 Pipe, Deduct	-47.88		
		For Work In Restricted Working Space, Add	22.95		
23 21 13 23-0408	LF	16" Schedule 40, Welded Plain End Black Steel Pipe	186.34		41.15
		For Schedule 80 Pipe, Add	50.82		
		For Schedule A-106 Pipe, Add	12.49		
		For Schedule 30 Pipe, Deduct	-29.04		
		For Schedule 20 Pipe, Deduct	-52.88		
		For Work In Restricted Working Space, Add	24.69		
23 21 13 23-0409	LF	18" Schedule 40, Welded Plain End Black Steel Pipe	233.22		44.51
		For Schedule 80 Pipe, Add	66.05		
		For Schedule A-106 Pipe, Add	17.31		
		For Schedule 30 Pipe, Deduct	-37.74		
		For Schedule 20 Pipe, Deduct	-68.28		
		For Work In Restricted Working Space, Add	26.70		
23 21 13 23-0410	LF	20" Schedule 40, Welded Plain End Black Steel Pipe	275.96		53.32
		For Schedule 80 Pipe, Add	77.93		
		For Schedule A-106 Pipe, Add	20.32		
		For Work In Restricted Working Space, Add	31.99		
23 21 13 23-0411	LF	24" Schedule 40, Welded Plain End Black Steel Pipe	341.37		61.32
		For Schedule 80 Pipe, Add	98.02		
		For Schedule A-106 Pipe, Add	26.25		
		For Work In Restricted Working Space, Add	36.79		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0412 Welded Plain End Black Steel 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0413 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.81 27.98 33.03	73.49
23 21 13 23-0414 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.59 29.11 34.77	77.31
23 21 13 23-0415 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.81 32.27 39.63	88.09
23 21 13 23-0416 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.25 34.31 42.77	95.04
23 21 13 23-0417 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.12 42.67 55.63	123.68
23 21 13 23-0418 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.72 53.88 69.53	154.62
23 21 13 23-0419 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	300.39 62.21 79.74	177.36
23 21 13 23-0420 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.63 106.75 137.83	306.44
23 21 13 23-0421 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	898.88 190.05 227.48	505.70
23 21 13 23-0422 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,202.74 261.94 282.53	628.11
23 21 13 23-0423 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,555.48 353.63 322.89	717.93
23 21 13 23-0424 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,103.07 463.06 422.47	939.31
23 21 13 23-0425 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,605.07 606.74 499.38	1,110.28
23 21 13 23-0426 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,231.07 765.23 583.13	1,296.54
23 21 13 23-0427 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,824.24 919.69 650.23	1,445.72
23 21 13 23-0428 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,865.49 1,204.46 729.10	1,620.96
23 21 13 23-0429 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,693.84 1,444.46 753.40	1,675.10
23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0431 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	695.55 160.34 138.08	306.96
23 21 13 23-0432 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,209.79 284.23 224.88	499.93
23 21 13 23-0433 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,288.70 307.90 224.88	499.93
23 21 13 23-0434 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,912.53 474.88 282.53	628.11
23 21 13 23-0435 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,100.66 531.31 282.53	628.11
23 21 13 23-0436 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,628.01 675.39 322.89	717.93
23 21 13 23-0437 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,628.01 675.39 322.89	717.93
23 21 13 23-0438 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,316.02 1,144.13 430.51	957.16
23 21 13 23-0439 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,316.02 1,144.13 430.51	957.16

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0440	EA	12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,827.77 1,297.65 430.51	957.16
23 21	13 23-0441		Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)		
23 21	13 23-0442	EA	3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.73 26.91 33.45	74.38
23 21	13 23-0443	EA	1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.67 27.68 34.63	77.00
23 21	13 23-0444	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.73 31.01 39.75	88.42
23 21	13 23-0445	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.21 33.05 42.89	95.37
23 21	13 23-0446	EA	2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	202.20 41.24 55.49	123.31
23 21	13 23-0447	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.24 51.29 69.66	154.92
23 21	13 23-0448	EA	3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	291.02 59.40 79.73	177.23
23 21	13 23-0449	EA	4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	501.06 102.09 137.79	306.30
23 21	13 23-0450	EA	6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	860.06 178.49 227.22	505.17
23 21	13 23-0451	EA	8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,132.31 240.81 282.53	628.11
23 21	13 23-0452	EA	10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,426.18 314.84 322.89	717.93
23 21	13 23-0453	EA	12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,912.93 426.29 421.68	937.57
23 21	13 23-0454	EA	14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,353.49 531.03 500.04	1,111.79
23 21	13 23-0455	EA	16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,881.68 660.62 582.53	1,295.15
23 21	13 23-0456	EA	18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,374.66 785.08 649.48	1,443.97
23 21	13 23-0457	EA	20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,208.35 1,007.32 729.10	1,620.96
23 21	13 23-0458	EA	24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,835.04 1,186.82 753.40	1,675.10
23 21	13 23-0459		Welded Plain End Black Steel Tee (23 21 13 23-0393)		
23 21	13 23-0460	EA	3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.91 56.53 62.97	139.97
23 21	13 23-0461	EA	1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.85 56.52 62.95	139.97
23 21	13 23-0462	EA	1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.12 64.33 70.02	155.71
23 21	13 23-0463	EA	1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.07 69.97 78.71	175.00
23 21	13 23-0464	EA	2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	405.73 84.94 105.08	233.63
23 21	13 23-0465	EA	2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.46 97.42 118.07	262.49
23 21	13 23-0466	EA	3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.78 116.00 143.25	318.76
23 21	13 23-0467	EA	4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	796.53 166.47 207.12	460.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0468 EA 6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,333.83 280.38 342.20	760.84
23 21 13 23-0469 EA 8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,792.67 387.12 430.51	957.16
23 21 13 23-0470 EA 10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,273.85 506.36 502.27	1,116.65
23 21 13 23-0471 EA 12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,064.55 693.35 645.77	1,435.74
23 21 13 23-0472 EA 14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,977.61 929.59 753.40	1,675.10
23 21 13 23-0473 EA 16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,786.24 1,119.45 904.08	2,010.07
23 21 13 23-0474 EA 18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,244.00 1,521.61 1,004.53	2,233.42
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	8,237.36 2,075.67 1,130.10	2,512.64
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	9,509.41 2,426.86 1,217.03	2,705.92
23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees <small>(23 21 13 23-0393)</small>		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	255.36 55.26 61.00	135.64
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	261.85 56.52 62.95	139.97
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	292.79 63.33 70.02	155.71
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	321.74 68.97 78.71	175.00
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	413.22 87.18 105.11	233.63
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	462.62 97.45 118.11	262.62
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	554.13 116.10 143.25	318.76
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	797.02 166.61 207.12	460.57
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,334.67 280.63 342.20	760.84
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,794.28 387.60 430.51	957.16
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,276.59 507.18 502.27	1,116.65
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,068.69 694.59 645.77	1,435.74
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,984.28 931.59 753.40	1,675.10
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,794.30 1,121.86 904.08	2,010.07
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,257.19 1,525.57 1,004.53	2,233.42
23 21 13 23-0493 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	8,365.50 2,114.12 1,130.10	2,512.64
23 21 13 23-0494 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	10,081.78 2,598.57 1,217.03	2,705.92

23 21 13 23-0495 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0496	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.67 51.87 38.37	85.31
23 21	13 23-0497	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.11 54.30 42.10	93.61
23 21	13 23-0498	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.85 53.66 41.12	91.43
23 21	13 23-0499	EA	1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.20 57.24 46.63	103.68
23 21	13 23-0500	EA	1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.02 55.45 43.87	97.55
23 21	13 23-0501	EA	1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.75 54.81 42.89	95.37
23 21	13 23-0502	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	239.98 52.51 55.68	123.79
23 21	13 23-0503	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	267.77 61.46 53.91	119.85
23 21	13 23-0504	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.59 59.67 51.15	113.73
23 21	13 23-0505	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	299.16 64.96 70.82	157.47
23 21	13 23-0506	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.77 63.49 63.55	141.28
23 21	13 23-0507	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	339.69 80.29 61.78	137.34
23 21	13 23-0508	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	334.06 72.39 79.50	176.70
23 21	13 23-0509	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	338.95 73.86 79.50	176.70
23 21	13 23-0510	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	349.29 76.96 79.50	176.70
23 21	13 23-0511	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	550.56 116.84 138.09	306.96
23 21	13 23-0512	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	555.44 118.30 138.09	306.96
23 21	13 23-0513	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	570.14 122.71 138.09	306.96
23 21	13 23-0514	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	935.56 201.96 224.88	499.93
23 21	13 23-0515	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,041.05 233.61 224.88	499.93
23 21	13 23-0516	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,377.78 293.56 342.21	760.84
23 21	13 23-0517	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,574.07 352.45 342.21	760.84
23 21	13 23-0518	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,622.28 348.95 393.54	874.97
23 21	13 23-0519	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,858.28 419.75 393.54	874.97
23 21	13 23-0520	EA	10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,168.78 512.90 -274.24 393.54	874.97
23 21	13 23-0521	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,916.82 424.65 429.70	955.30
23 21	13 23-0522	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,192.51 507.36 429.70	955.30
23 21	13 23-0523	EA	12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,658.53 647.17 -392.39 429.70	955.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0524 EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,909.00 422.31 -152.54 429.70	955.30
23 21 13 23-0525 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,524.67 581.61 502.26	1,116.65
23 21 13 23-0526 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,669.85 625.16 502.26	1,116.65
23 21 13 23-0527 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,117.31 1,059.40 502.26	1,116.65
23 21 13 23-0528 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,184.18 757.49 565.05	1,256.32
23 21 13 23-0529 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,611.59 885.71 565.05	1,256.32
23 21 13 23-0530 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,777.98 935.63 -606.24 565.05	1,256.32
23 21 13 23-0531 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,652.36 1,497.94 565.05	1,256.32
23 21 13 23-0532 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,585.06 1,777.75 565.05	1,256.32
23 21 13 23-0533 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,495.65 1,122.68 645.77	1,435.74
23 21 13 23-0534 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,572.70 545.79 -134.44 645.77	1,435.74
23 21 13 23-0535 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,720.24 1,190.05 -821.66 645.77	1,435.74
23 21 13 23-0536 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,051.39 1,289.40 645.77	1,435.74
23 21 13 23-0537 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,850.96 2,129.27 645.77	1,435.74
23 21 13 23-0538 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,373.20 1,356.78 -941.72 729.10	1,620.96
23 21 13 23-0539 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,365.59 1,354.49 -939.29 729.10	1,620.96
23 21 13 23-0540 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9,069.21 2,465.58 -2,124.44 729.10	1,620.96
23 21 13 23-0541 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,554.77 2,911.25 729.10	1,620.96
23 21 13 23-0542 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,783.18 3,579.77 729.10	1,620.96
23 21 13 23-0543 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,369.92 1,647.29 -1,234.75 753.40	1,675.10
23 21 13 23-0544 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,818.91 1,781.98 -1,378.43 753.40	1,675.10
23 21 13 23-0545 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,904.96 2,407.80 -2,045.96 753.40	1,675.10
23 21 13 23-0546 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,786.93 3,572.39 753.40	1,675.10
23 21 13 23-0547 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,697.70 4,445.62 753.40	1,675.10

23 21 13 23-0548 Welded Plain End Black Steel Concentric Reducers (23 21 13 23-0393)

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0549	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.16 44.82 38.37	85.31
23 21	13 23-0550	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.60 47.25 42.10	93.61
23 21	13 23-0551	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.34 46.61 41.12	91.43
23 21	13 23-0552	EA	1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.69 50.19 46.63	103.68
23 21	13 23-0553	EA	1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.51 48.40 43.87	97.55
23 21	13 23-0554	EA	1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.24 47.76 42.89	95.37
23 21	13 23-0555	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.00 48.91 55.68	123.79
23 21	13 23-0556	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	222.10 47.76 53.91	119.85
23 21	13 23-0557	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.24 50.87 51.15	113.73
23 21	13 23-0558	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.47 62.35 70.82	157.47
23 21	13 23-0559	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.88 62.02 63.55	141.28
23 21	13 23-0560	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.36 67.89 61.78	137.34
23 21	13 23-0561	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	309.05 64.89 79.50	176.70
23 21	13 23-0562	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	312.31 65.87 79.50	176.70
23 21	13 23-0563	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.39 67.99 79.50	176.70
23 21	13 23-0564	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.85 106.72 138.09	306.96
23 21	13 23-0565	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	529.35 110.47 138.09	306.96
23 21	13 23-0566	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	529.35 110.47 138.09	306.96
23 21	13 23-0567	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	868.15 181.74 224.88	499.93
23 21	13 23-0568	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	893.15 189.24 224.88	499.93
23 21	13 23-0569	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,296.21 269.09 342.21	760.84
23 21	13 23-0570	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,340.81 282.47 342.21	760.84
23 21	13 23-0571	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,613.59 346.34 393.54	874.97
23 21	13 23-0572	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,595.10 340.79 393.54	874.97
23 21	13 23-0573	EA	10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,827.83 410.61 393.54	874.97
23 21	13 23-0574	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,805.35 391.21 429.70	955.30
23 21	13 23-0575	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,861.23 407.98 429.70	955.30
23 21	13 23-0576	EA	12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,881.47 414.05 429.70	955.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0577 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,474.73 592.03 429.70	955.30
23 21 13 23-0578 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,235.38 494.82 502.26	1,116.65
23 21 13 23-0579 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,442.55 556.97 502.26	1,116.65
23 21 13 23-0580 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,622.54 610.97 502.26	1,116.65
23 21 13 23-0581 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,318.15 819.65 502.26	1,116.65
23 21 13 23-0582 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,865.53 661.89 565.05	1,256.32
23 21 13 23-0583 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,865.53 661.89 565.05	1,256.32
23 21 13 23-0584 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,968.85 692.89 565.05	1,256.32
23 21 13 23-0585 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,311.96 795.82 565.05	1,256.32
23 21 13 23-0586 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,732.96 1,222.12 565.05	1,256.32
23 21 13 23-0587 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,225.42 741.61 645.77	1,435.74
23 21 13 23-0588 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,490.24 821.05 645.77	1,435.74
23 21 13 23-0589 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,601.16 854.33 645.77	1,435.74
23 21 13 23-0590 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,902.94 944.86 645.77	1,435.74
23 21 13 23-0591 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,371.00 1,985.28 645.77	1,435.74
23 21 13 23-0592 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,271.52 1,026.27 729.10	1,620.96
23 21 13 23-0593 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,271.52 1,026.27 729.10	1,620.96
23 21 13 23-0594 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,347.11 1,048.95 729.10	1,620.96
23 21 13 23-0595 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,794.64 1,183.21 729.10	1,620.96
23 21 13 23-0596 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	5,573.30 1,416.81 729.10	1,620.96
23 21 13 23-0597 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,593.98 1,114.50 753.40	1,675.10
23 21 13 23-0598 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,641.27 1,128.69 753.40	1,675.10
23 21 13 23-0599 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,733.71 1,156.42 753.40	1,675.10
23 21 13 23-0600 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,873.99 1,798.51 753.40	1,675.10
23 21 13 23-0601 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,296.50 1,925.26 753.40	1,675.10
23 21 13 23-0602 Welded Plain End Black Steel Caps (23 21 13 23-0393)		
23 21 13 23-0603 EA 1" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	76.62 14.79 19.68	43.81
23 21 13 23-0604 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	83.86 16.14 21.65	48.14

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0605	EA	1-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.17 16.80 22.43	49.85
23 21	13 23-0606	EA	2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.18 20.48 28.73	63.88
23 21	13 23-0607	EA	2-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.84 23.92 34.63	77.00
23 21	13 23-0608	EA	3" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.10 28.68 39.95	88.81
23 21	13 23-0609	EA	4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.98 47.43 69.04	153.48
23 21	13 23-0610	EA	6" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	425.51 80.12 114.07	253.57
23 21	13 23-0611	EA	8" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	600.87 113.65 159.88	355.49
23 21	13 23-0612	EA	10" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	791.93 153.49 201.81	448.76
23 21	13 23-0613	EA	12" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	849.90 167.37 210.25	467.45
23 21	13 23-0614	EA	14" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,117.31 230.55 251.13	558.32
23 21	13 23-0615	EA	16" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,297.61 267.77 291.64	648.39
23 21	13 23-0616	EA	18" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,450.63 300.65 322.89	717.93
23 21	13 23-0617		150 LB, Welded Plain End Black Steel Neck Flanges <small>(23 21 13 23-0393)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21	13 23-0618	EA	2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.78 40.41 44.49	98.91
23 21	13 23-0619	EA	2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.53 44.27 55.51	123.44
23 21	13 23-0620	EA	3", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.10 47.09 63.47	141.15
23 21	13 23-0621	EA	4", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	324.37 60.99 83.73	186.14
23 21	13 23-0622	EA	6", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	492.81 93.19 126.95	282.30
23 21	13 23-0623	EA	8", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.31 119.11 122.17	271.68
23 21	13 23-0624	EA	10", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	670.15 165.19 153.23	340.65
23 21	13 23-0625	EA	12", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	811.91 223.51 173.86	386.55
23 21	13 23-0626	EA	14", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,053.60 320.52 210.25	467.45
23 21	13 23-0627	EA	16", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,365.61 471.31 244.34	543.26
23 21	13 23-0628	EA	18", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,678.33 631.47 273.96	609.09
23 21	13 23-0629	EA	20", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,128.14 800.05 347.72	773.10
23 21	13 23-0630	EA	24", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,406.40 937.36 376.70	837.54
23 21	13 23-0631		150 LB, Welded Black Steel Slip-On Flanges <small>(23 21 13 23-0393)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0632 EA 2", 150 LB, Welded Black Steel Slip-On Flanges	135.05	98.91
For 300 LB Rating, Add	27.68	
For Work In Restricted Working Space, Add	35.42	
23 21 13 23-0633 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange	166.09	123.44
For 300 LB Rating, Add	34.77	
For Work In Restricted Working Space, Add	43.29	
23 21 13 23-0634 EA 3", 150 LB, Welded Black Steel Slip-On Flange	196.19	141.15
For 300 LB Rating, Add	41.00	
For Work In Restricted Working Space, Add	51.16	
23 21 13 23-0635 EA 4", 150 LB, Welded Black Steel Slip-On Flange	258.01	186.14
For 300 LB Rating, Add	54.92	
For Work In Restricted Working Space, Add	66.90	
23 21 13 23-0636 EA 6", 150 LB, Welded Black Steel Slip-On Flange	381.82	282.30
For 300 LB Rating, Add	82.92	
For Work In Restricted Working Space, Add	98.39	
23 21 13 23-0637 EA 8", 150 LB, Welded Black Steel Slip-On Flange	452.87	271.68
For 300 LB Rating, Add	112.71	
For Work In Restricted Working Space, Add	111.27	
23 21 13 23-0638 EA 10", 150 LB, Welded Black Steel Slip-On Flange	605.12	340.65
For 300 LB Rating, Add	176.02	
For Work In Restricted Working Space, Add	139.09	
23 21 13 23-0639 EA 12", 150 LB, Welded Black Steel Slip-On Flange	779.60	386.55
For 300 LB Rating, Add	259.34	
For Work In Restricted Working Space, Add	166.91	
23 21 13 23-0640 EA 14", 150 LB, Welded Black Steel Slip-On Flange	975.25	467.45
For 300 LB Rating, Add	361.71	
For Work In Restricted Working Space, Add	194.72	
23 21 13 23-0641 EA 16", 150 LB, Welded Black Steel Slip-On Flange	1,157.78	543.26
For 300 LB Rating, Add	470.69	
For Work In Restricted Working Space, Add	215.59	
23 21 13 23-0642 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,280.57	609.09
For 300 LB Rating, Add	525.92	
For Work In Restricted Working Space, Add	236.45	
23 21 13 23-0643 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,417.40	773.10
For 300 LB Rating, Add	593.78	
For Work In Restricted Working Space, Add	257.31	
23 21 13 23-0644 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,625.66	837.54
For 300 LB Rating, Add	670.64	
For Work In Restricted Working Space, Add	299.04	
23 21 13 23-0645 150 LB, Forged Steel Blind Flanges <small>(23 21 13 23-0393)</small>		
23 21 13 23-0646 EA 2", 150 LB, Forged Steel Blind Flange	90.48	35.22
For 300 LB Rating, Add	23.42	
For 600 LB Rating, Add	58.64	
For Work In Restricted Working Space, Add	21.14	
23 21 13 23-0647 EA 2-1/2", 150 LB, Forged Steel Blind Flange	117.01	42.27
For 300 LB Rating, Add	34.86	
For 600 LB Rating, Add	90.63	
For Work In Restricted Working Space, Add	25.36	
23 21 13 23-0648 EA 3", 150 LB, Forged Steel Blind Flange	146.31	56.36
For 300 LB Rating, Add	38.71	
For 600 LB Rating, Add	97.55	
For Work In Restricted Working Space, Add	33.81	
23 21 13 23-0649 EA 4", 150 LB, Forged Steel Blind Flange	187.19	70.45
For 300 LB Rating, Add	51.83	
For 600 LB Rating, Add	132.25	
For Work In Restricted Working Space, Add	42.27	
23 21 13 23-0650 EA 6", 150 LB, Forged Steel Blind Flange	253.32	91.58
For 300 LB Rating, Add	75.36	
For 600 LB Rating, Add	195.86	
For Work In Restricted Working Space, Add	54.95	
23 21 13 23-0651 EA 8", 150 LB, Forged Steel Blind Flange	322.64	105.67
For 300 LB Rating, Add	111.23	
For 600 LB Rating, Add	298.82	
For Work In Restricted Working Space, Add	63.40	
23 21 13 23-0652 EA 10", 150 LB, Forged Steel Blind Flange	470.94	126.80
For 300 LB Rating, Add	200.50	
For 600 LB Rating, Add	559.66	
For Work In Restricted Working Space, Add	76.08	
23 21 13 23-0653 EA 12", 150 LB, Forged Steel Blind Flange	603.48	147.93
For 300 LB Rating, Add	277.15	
For 600 LB Rating, Add	782.64	
For Work In Restricted Working Space, Add	88.76	
23 21 13 23-0654 EA 14", 150 LB, Forged Steel Blind Flange	971.49	169.07
For 300 LB Rating, Add	542.19	
For Work In Restricted Working Space, Add	101.44	
23 21 13 23-0655 EA 16", 150 LB, Forged Steel Blind Flange	1,048.00	190.20
For 300 LB Rating, Add	574.02	
For Work In Restricted Working Space, Add	114.12	
23 21 13 23-0656 EA 18", 150 LB, Forged Steel Blind Flange	1,190.04	232.46
For 300 LB Rating, Add	628.90	
For Work In Restricted Working Space, Add	139.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0657	EA	20", 150 LB, Forged Steel Blind Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,499.99 847.49 152.16	253.60
23 21	13 23-0658	EA	24", 150 LB, Forged Steel Blind Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,013.07 1,199.20 177.52	295.87
23 21 13 23-0659 3,000 LB, Forge Steel Thread-O-Lets <small>(23 21 13 23-0393)</small>					
23 21	13 23-0660	EA	1/2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.52 5.44 36.08 24.79	
23 21	13 23-0661	EA	3/4", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.35 6.39 38.39 25.97	
23 21	13 23-0662	EA	1", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.15 7.16 41.05 27.55	
23 21	13 23-0663	EA	1-1/4", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.69 10.16 46.12 29.51	
23 21	13 23-0664	EA	1-1/2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.81 10.16 51.10 33.45	
23 21	13 23-0665	EA	2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.16 12.70 66.31 43.73	
23 21	13 23-0666	EA	2-1/2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.57 46.09 110.85 56.22	
23 21	13 23-0667	EA	3", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	355.08 46.36 139.57 78.71	
23 21	13 23-0668	EA	4", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	509.44 90.75 202.66 98.39	
23 21 13 23-0669 Class 150 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>					
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.					
23 21	13 23-0670	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	13.88 3.89 5.55 9.72	
23 21	13 23-0671	EA	2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	17.64 4.94 7.06 12.35	
23 21	13 23-0672	EA	2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	17.83 4.99 7.13 12.48	
23 21	13 23-0673	EA	3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	17.91 5.01 7.16 12.54	
23 21	13 23-0674	EA	4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	40.15 11.24 16.06 28.11	
23 21	13 23-0675	EA	5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	57.34 16.06 22.94 40.14	
23 21	13 23-0676	EA	6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	61.99 17.36 24.80 43.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0677 EA 8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	67.91	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.01	
For Hot Dip Galvanized, Add	27.16	
For Advanced Fluoropolymer (Blue Coating), Add	47.54	
23 21 13 23-0678 EA 10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	150.29	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	42.08	
For Hot Dip Galvanized, Add	60.12	
For Advanced Fluoropolymer (Blue Coating), Add	105.20	
23 21 13 23-0679 EA 12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	153.08	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	42.86	
For Hot Dip Galvanized, Add	61.23	
For Advanced Fluoropolymer (Blue Coating), Add	107.16	
23 21 13 23-0680 EA 14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	171.68	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	48.07	
For Hot Dip Galvanized, Add	68.67	
For Advanced Fluoropolymer (Blue Coating), Add	120.18	
23 21 13 23-0681 EA 16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	285.39	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	79.91	
For Hot Dip Galvanized, Add	114.16	
For Advanced Fluoropolymer (Blue Coating), Add	199.77	
23 21 13 23-0682 EA 18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	411.68	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	115.27	
For Hot Dip Galvanized, Add	164.67	
For Advanced Fluoropolymer (Blue Coating), Add	288.18	
23 21 13 23-0683 EA 20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	520.10	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	145.63	
For Hot Dip Galvanized, Add	208.04	
For Advanced Fluoropolymer (Blue Coating), Add	364.07	
23 21 13 23-0684 EA 24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	741.44	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	207.60	
For Hot Dip Galvanized, Add	296.58	
For Advanced Fluoropolymer (Blue Coating), Add	519.01	
23 21 13 23-0685 EA 30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,170.54	
Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	327.75	
For Hot Dip Galvanized, Add	468.22	
For Advanced Fluoropolymer (Blue Coating), Add	819.38	
23 21 13 23-0686 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,666.00	
Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	466.48	
For Hot Dip Galvanized, Add	666.40	
For Advanced Fluoropolymer (Blue Coating), Add	1,166.20	
23 21 13 23-0687 Class 300 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0688 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	22.13	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	6.20	
For Hot Dip Galvanized, Add	8.85	
For Advanced Fluoropolymer (Blue Coating), Add	15.49	
23 21 13 23-0689 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	40.80	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	11.42	
For Hot Dip Galvanized, Add	16.32	
For Advanced Fluoropolymer (Blue Coating), Add	28.56	
23 21 13 23-0690 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	63.63	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	17.82	
For Hot Dip Galvanized, Add	25.45	
For Advanced Fluoropolymer (Blue Coating), Add	44.54	
23 21 13 23-0691 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	69.14	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.36	
For Hot Dip Galvanized, Add	27.66	
For Advanced Fluoropolymer (Blue Coating), Add	48.40	
23 21 13 23-0692 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	70.57	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.76	
For Hot Dip Galvanized, Add	28.23	
For Advanced Fluoropolymer (Blue Coating), Add	49.40	
23 21 13 23-0693 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	75.70	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	21.20	
For Hot Dip Galvanized, Add	30.28	
For Advanced Fluoropolymer (Blue Coating), Add	52.99	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0694	EA	6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	109.18	
			Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	30.57	
			For Hot Dip Galvanized, Add	43.67	
			For Advanced Fluoropolymer (Blue Coating), Add	76.43	
23 21	13 23-0695	EA	8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	169.43	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	47.44	
			For Hot Dip Galvanized, Add	67.77	
			For Advanced Fluoropolymer (Blue Coating), Add	118.60	
23 21	13 23-0696	EA	10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	310.29	
			Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
			For Zinc Plated, Add	86.88	
			For Hot Dip Galvanized, Add	124.12	
			For Advanced Fluoropolymer (Blue Coating), Add	217.20	
23 21	13 23-0697	EA	12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	447.81	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	125.39	
			For Hot Dip Galvanized, Add	179.12	
			For Advanced Fluoropolymer (Blue Coating), Add	313.47	
23 21	13 23-0698	EA	14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	612.91	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	171.61	
			For Hot Dip Galvanized, Add	245.16	
			For Advanced Fluoropolymer (Blue Coating), Add	429.04	
23 21	13 23-0699	EA	16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	846.27	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	236.96	
			For Hot Dip Galvanized, Add	338.51	
			For Advanced Fluoropolymer (Blue Coating), Add	592.39	
23 21	13 23-0700	EA	18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,086.77	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	304.30	
			For Hot Dip Galvanized, Add	434.71	
			For Advanced Fluoropolymer (Blue Coating), Add	760.74	
23 21	13 23-0701	EA	20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,153.33	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	322.93	
			For Hot Dip Galvanized, Add	461.33	
			For Advanced Fluoropolymer (Blue Coating), Add	807.33	
23 21	13 23-0702	EA	24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,462.00	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
			For Zinc Plated, Add	409.36	
			For Hot Dip Galvanized, Add	584.80	
			For Advanced Fluoropolymer (Blue Coating), Add	1,023.40	
23 21	13 23-0703	EA	30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,295.69	
			Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	642.79	
			For Hot Dip Galvanized, Add	918.28	
			For Advanced Fluoropolymer (Blue Coating), Add	1,606.98	
23 21	13 23-0704	EA	36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	3,482.97	
			Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
			For Zinc Plated, Add	975.23	
			For Hot Dip Galvanized, Add	1,393.19	
			For Advanced Fluoropolymer (Blue Coating), Add	2,438.08	
23 21	13 23-0705		Class 150 Flange, Stainless Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0706	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	13.88	
			Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
23 21	13 23-0707	EA	2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.31	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0708	EA	2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	41.39	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0709	EA	3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.47	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0710	EA	4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	87.50	
			Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0711	EA	5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	111.05	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0712	EA	6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	125.31	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0713	EA	8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	126.11	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0714	EA	10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	324.91	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21	13 23-0715	EA	12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	326.43	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21	13 23-0716	EA	14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	493.77	
			Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
23 21	13 23-0717	EA	16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	657.71	
			Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
23 21	13 23-0718	EA	18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	1,707.40	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0719 EA 20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	1,978.35	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
23 21 13 23-0720 EA 24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,284.27	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
23 21 13 23-0721 150 LB, Rubber Flange Gasket Replacement <small>(23 21 13 23-0393)</small>		
Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21 13 23-0722 EA 1/2", 150 LB, Rubber Flange Gasket Replacement.....	39.24	
For 300 LB Rating Gasket Set, Add	0.11	
For 150 LB Rating Teflon Gasket Set, Add	2.47	
For 300 LB Rating Teflon Gasket Set, Add	2.85	
For Work In Restricted Working Space, Add	11.68	
23 21 13 23-0723 EA 3/4", 150 LB, Rubber Flange Gasket Replacement.....	41.95	
For 300 LB Rating Gasket Set, Add	0.15	
For 150 LB Rating Teflon Gasket Set, Add	3.32	
For 300 LB Rating Teflon Gasket Set, Add	3.83	
For Work In Restricted Working Space, Add	12.46	
23 21 13 23-0724 EA 1", 150 LB, Rubber Flange Gasket Replacement.....	46.15	
For 300 LB Rating Gasket Set, Add	0.26	
For 150 LB Rating Teflon Gasket Set, Add	5.80	
For 300 LB Rating Teflon Gasket Set, Add	6.68	
For Work In Restricted Working Space, Add	13.62	
23 21 13 23-0725 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement.....	50.16	
For 300 LB Rating Gasket Set, Add	0.30	
For 150 LB Rating Teflon Gasket Set, Add	6.65	
For 300 LB Rating Teflon Gasket Set, Add	7.65	
For Work In Restricted Working Space, Add	14.79	
23 21 13 23-0726 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement.....	55.57	
For 300 LB Rating Gasket Set, Add	0.38	
For 150 LB Rating Teflon Gasket Set, Add	8.35	
For 300 LB Rating Teflon Gasket Set, Add	9.61	
For Work In Restricted Working Space, Add	16.35	
23 21 13 23-0727 EA 2", 150 LB, Rubber Flange Gasket Replacement.....	61.19	
For 300 LB Rating Gasket Set, Add	0.53	
For 150 LB Rating Teflon Gasket Set, Add	11.67	
For 300 LB Rating Teflon Gasket Set, Add	13.44	
For Work In Restricted Working Space, Add	17.90	
23 21 13 23-0728 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement.....	72.10	
For 300 LB Rating Gasket Set, Add	0.72	
For 150 LB Rating Teflon Gasket Set, Add	15.85	
For 300 LB Rating Teflon Gasket Set, Add	18.25	
For Work In Restricted Working Space, Add	21.02	
23 21 13 23-0729 EA 3", 150 LB, Rubber Flange Gasket Replacement.....	76.32	
For 300 LB Rating Gasket Set, Add	0.83	
For 150 LB Rating Teflon Gasket Set, Add	18.32	
For 300 LB Rating Teflon Gasket Set, Add	21.09	
For Work In Restricted Working Space, Add	22.19	
23 21 13 23-0730 EA 4", 150 LB, Rubber Flange Gasket Replacement.....	101.18	
For 300 LB Rating Gasket Set, Add	1.36	
For 150 LB Rating Teflon Gasket Set, Add	29.99	
For 300 LB Rating Teflon Gasket Set, Add	34.53	
For Work In Restricted Working Space, Add	29.19	
23 21 13 23-0731 EA 5", 150 LB, Rubber Flange Gasket Replacement.....	117.18	
For 300 LB Rating Gasket Set, Add	1.51	
For 150 LB Rating Teflon Gasket Set, Add	33.32	
For 300 LB Rating Teflon Gasket Set, Add	38.36	
For Work In Restricted Working Space, Add	33.86	
23 21 13 23-0732 EA 6", 150 LB, Rubber Flange Gasket Replacement.....	134.04	
For 300 LB Rating Gasket Set, Add	1.96	
For 150 LB Rating Teflon Gasket Set, Add	43.29	
For 300 LB Rating Teflon Gasket Set, Add	49.84	
For Work In Restricted Working Space, Add	38.53	
23 21 13 23-0733 EA 8", 150 LB, Rubber Flange Gasket Replacement.....	163.88	
For 300 LB Rating Gasket Set, Add	2.87	
For 150 LB Rating Teflon Gasket Set, Add	63.31	
For 300 LB Rating Teflon Gasket Set, Add	72.89	
For Work In Restricted Working Space, Add	46.71	
23 21 13 23-0734 EA 10", 150 LB, Rubber Flange Gasket Replacement.....	177.70	
For 300 LB Rating Gasket Set, Add	4.07	
For 150 LB Rating Teflon Gasket Set, Add	89.98	
For 300 LB Rating Teflon Gasket Set, Add	103.60	
For Work In Restricted Working Space, Add	49.82	
23 21 13 23-0735 EA 12", 150 LB, Rubber Flange Gasket Replacement.....	202.99	
For 300 LB Rating Gasket Set, Add	5.20	
For 150 LB Rating Teflon Gasket Set, Add	114.95	
For 300 LB Rating Teflon Gasket Set, Add	132.34	
For Work In Restricted Working Space, Add	56.44	
23 21 13 23-0736 EA 14", 150 LB, Rubber Flange Gasket Replacement.....	212.39	
For 300 LB Rating Gasket Set, Add	6.22	
For 150 LB Rating Teflon Gasket Set, Add	137.44	
For 300 LB Rating Teflon Gasket Set, Add	158.24	
For Work In Restricted Working Space, Add	58.38	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0737 EA 16", 150 LB, Rubber Flange Gasket Replacement	279.30	
For 300 LB Rating Gasket Set, Add	6.94	
For 150 LB Rating Teflon Gasket Set, Add	153.29	
For 300 LB Rating Teflon Gasket Set, Add	176.49	
For Work In Restricted Working Space, Add	77.84	
23 21 13 23-0738 EA 18", 150 LB, Rubber Flange Gasket Replacement	304.80	
For 300 LB Rating Gasket Set, Add	7.24	
For 150 LB Rating Teflon Gasket Set, Add	159.93	
For 300 LB Rating Teflon Gasket Set, Add	184.14	
For Work In Restricted Working Space, Add	85.23	
23 21 13 23-0739 EA 20", 150 LB, Rubber Flange Gasket Replacement	368.56	
For 300 LB Rating Gasket Set, Add	7.77	
For 150 LB Rating Teflon Gasket Set, Add	171.61	
For 300 LB Rating Teflon Gasket Set, Add	197.58	
For Work In Restricted Working Space, Add	103.91	
23 21 13 23-0740 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393)		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0741 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	28.17	
For Work In Restricted Working Space, Add	8.45	
23 21 13 23-0742 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	30.42	
For Work In Restricted Working Space, Add	9.13	
23 21 13 23-0743 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe	34.22	
For Work In Restricted Working Space, Add	10.27	
23 21 13 23-0744 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	35.91	
For Work In Restricted Working Space, Add	10.77	
23 21 13 23-0745 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	38.02	
For Work In Restricted Working Space, Add	11.41	
23 21 13 23-0746 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	40.84	
For Work In Restricted Working Space, Add	12.25	
23 21 13 23-0747 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	43.67	
For Work In Restricted Working Space, Add	13.10	
23 21 13 23-0748 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe	47.89	
For Work In Restricted Working Space, Add	14.37	
23 21 13 23-0749 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	52.11	
For Work In Restricted Working Space, Add	15.63	
23 21 13 23-0750 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe	56.34	
For Work In Restricted Working Space, Add	16.90	
23 21 13 23-0751 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe	60.56	
For Work In Restricted Working Space, Add	18.17	
23 21 13 23-0752 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe	66.20	
For Work In Restricted Working Space, Add	19.86	
23 21 13 23-0753 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe	71.83	
For Work In Restricted Working Space, Add	21.55	
23 21 13 23-0754 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe	77.47	
For Work In Restricted Working Space, Add	23.24	
23 21 13 23-0755 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe	83.10	
For Work In Restricted Working Space, Add	24.93	
23 21 13 23-0756 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe	87.32	
For Work In Restricted Working Space, Add	26.20	
23 21 13 23-0757 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe	91.54	
For Work In Restricted Working Space, Add	27.46	
23 21 13 23-0758 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe	97.18	
For Work In Restricted Working Space, Add	29.15	
23 21 13 23-0759 Welded Plain End Electric Resistance Black Steel Pipe (23 21 13 23-0393)		
Note: ASTM A-135.		
23 21 13 23-0760 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	28.55	14.43
For Work In Restricted Working Space, Add	7.08	
23 21 13 23-0761 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	31.20	15.74
For Work In Restricted Working Space, Add	7.08	
23 21 13 23-0762 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	32.50	15.48
For Work In Restricted Working Space, Add	6.95	
23 21 13 23-0763 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	40.79	19.67
For Work In Restricted Working Space, Add	8.85	
23 21 13 23-0764 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	65.53	29.12
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-0765 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	78.42	31.64
For Work In Restricted Working Space, Add	14.26	
23 21 13 23-0766 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	105.01	39.41
For Work In Restricted Working Space, Add	17.74	
23 21 13 23-0767 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	127.37	47.53
For Work In Restricted Working Space, Add	21.37	
23 21 13 23-0768 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	162.90	61.67
For Work In Restricted Working Space, Add	27.74	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0769				Flanged Steel Fittings <small>(23 21 13 23)</small> See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0617 for welded neck flange ends.		
23 21 13 23-0770				Flanged Steel Fittings, Standard Weight <small>(23 21 13 23-0769)</small> Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0771				Flanged Steel, 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0772	EA			2" Standard Weight, Flanged Steel, 90 Degree Elbow 480.03		60.55
				<i>For Galvanized Fittings, Add</i> 311.40		
				<i>For Extra Heavy Weight Fittings, Add</i> 467.10		
23 21 13 23-0773	EA			2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow 535.39		67.44
				<i>For Galvanized Fittings, Add</i> 347.39		
				<i>For Extra Heavy Weight Fittings, Add</i> 521.09		
23 21 13 23-0774	EA			3" Standard Weight, Flanged Steel, 90 Degree Elbow 534.02		74.44
				<i>For Galvanized Fittings, Add</i> 338.00		
				<i>For Extra Heavy Weight Fittings, Add</i> 507.00		
23 21 13 23-0775	EA			4" Standard Weight, Flanged Steel, 90 Degree Elbow 675.40		86.49
				<i>For Galvanized Fittings, Add</i> 436.58		
				<i>For Extra Heavy Weight Fittings, Add</i> 654.88		
23 21 13 23-0776	EA			5" Standard Weight, Flanged Steel, 90 Degree Elbow 937.42		96.86
				<i>For Galvanized Fittings, Add</i> 633.75		
				<i>For Extra Heavy Weight Fittings, Add</i> 950.63		
23 21 13 23-0777	EA			6" Standard Weight, Flanged Steel, 90 Degree Elbow 994.01		112.43
				<i>For Galvanized Fittings, Add</i> 660.35		
				<i>For Extra Heavy Weight Fittings, Add</i> 990.53		
23 21 13 23-0778	EA			8" Standard Weight, Flanged Steel, 90 Degree Elbow 1,256.08		124.49
				<i>For Galvanized Fittings, Add</i> 855.48		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,283.22		
23 21 13 23-0779				Flanged Steel, Reducing 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0780	EA			2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 882.28		64.06
				<i>For Galvanized Fittings, Add</i> 629.06		
				<i>For Extra Heavy Weight Fittings, Add</i> 943.58		
23 21 13 23-0781	EA			3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 920.04		70.94
				<i>For Galvanized Fittings, Add</i> 650.97		
				<i>For Extra Heavy Weight Fittings, Add</i> 976.45		
23 21 13 23-0782	EA			4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 1,143.60		80.39
				<i>For Galvanized Fittings, Add</i> 818.40		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,227.60		
23 21 13 23-0783	EA			5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 1,411.53		85.59
				<i>For Galvanized Fittings, Add</i> 1,026.53		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,539.79		
23 21 13 23-0784	EA			6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 1,608.33		99.46
				<i>For Galvanized Fittings, Add</i> 1,167.36		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,751.04		
23 21 13 23-0785	EA			8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 2,237.36		118.52
				<i>For Galvanized Fittings, Add</i> 1,647.76		
				<i>For Extra Heavy Weight Fittings, Add</i> 2,471.64		
23 21 13 23-0786				Flanged Steel, 45 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0787	EA			2" Standard Weight, Flanged Steel, 45 Degree Elbow 620.86		60.55
				<i>For Galvanized Fittings, Add</i> 424.06		
				<i>For Extra Heavy Weight Fittings, Add</i> 636.10		
23 21 13 23-0788	EA			2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow 648.84		67.44
				<i>For Galvanized Fittings, Add</i> 438.15		
				<i>For Extra Heavy Weight Fittings, Add</i> 657.23		
23 21 13 23-0789	EA			3" Standard Weight, Flanged Steel, 45 Degree Elbow 674.86		74.44
				<i>For Galvanized Fittings, Add</i> 450.67		
				<i>For Extra Heavy Weight Fittings, Add</i> 676.01		
23 21 13 23-0790	EA			4" Standard Weight, Flanged Steel, 45 Degree Elbow 839.71		86.49
				<i>For Galvanized Fittings, Add</i> 568.03		
				<i>For Extra Heavy Weight Fittings, Add</i> 852.05		
23 21 13 23-0791	EA			5" Standard Weight, Flanged Steel, 45 Degree Elbow 1,203.44		96.86
				<i>For Galvanized Fittings, Add</i> 846.57		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,269.85		
23 21 13 23-0792	EA			6" Standard Weight, Flanged Steel, 45 Degree Elbow 1,177.88		112.43
				<i>For Galvanized Fittings, Add</i> 807.45		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,211.17		
23 21 13 23-0793	EA			8" Standard Weight, Flanged Steel, 45 Degree Elbow 1,387.02		124.49
				<i>For Galvanized Fittings, Add</i> 960.23		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,440.35		
23 21 13 23-0794				Flanged Steel, Tees <small>(23 21 13 23-0770)</small>		
23 21 13 23-0795	EA			2" Standard Weight, Flanged Steel, Tee 619.30		90.78
				<i>For Galvanized Fittings, Add</i> 386.51		
				<i>For Extra Heavy Weight Fittings, Add</i> 579.77		
23 21 13 23-0796	EA			2-1/2" Standard Weight, Flanged Steel, Tee 795.24		101.15
				<i>For Galvanized Fittings, Add</i> 514.82		
				<i>For Extra Heavy Weight Fittings, Add</i> 772.24		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0797 EA 3" Standard Weight, Flanged Steel, Tee.....	730.63	111.52
For Galvanized Fittings, Add	450.68	
For Extra Heavy Weight Fittings, Add	676.02	
23 21 13 23-0798 EA 4" Standard Weight, Flanged Steel, Tee.....	1,035.58	129.80
For Galvanized Fittings, Add	672.86	
For Extra Heavy Weight Fittings, Add	1,009.28	
23 21 13 23-0799 EA 5" Standard Weight, Flanged Steel, Tee.....	1,525.20	145.36
For Galvanized Fittings, Add	1,045.88	
For Extra Heavy Weight Fittings, Add	1,568.82	
23 21 13 23-0800 EA 6" Standard Weight, Flanged Steel, Tee.....	1,859.02	168.71
For Galvanized Fittings, Add	1,284.93	
For Extra Heavy Weight Fittings, Add	1,927.39	
23 21 13 23-0801 EA 8" Standard Weight, Flanged Steel, Tee.....	2,060.75	195.42
For Galvanized Fittings, Add	1,414.15	
For Extra Heavy Weight Fittings, Add	2,121.23	
23 21 13 23-0802 Flanged Steel, Reducing Tees (23 21 13 23-0770)		
23 21 13 23-0803 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee.....	966.11	97.78
For Galvanized Fittings, Add	655.66	
For Extra Heavy Weight Fittings, Add	983.50	
23 21 13 23-0804 EA 3" Standard Weight, Flanged Steel, Reducing Tee.....	1,114.69	108.15
For Galvanized Fittings, Add	762.07	
For Extra Heavy Weight Fittings, Add	1,143.11	
23 21 13 23-0805 EA 4" Standard Weight, Flanged Steel, Reducing Tee.....	1,900.75	123.71
For Galvanized Fittings, Add	1,372.26	
For Extra Heavy Weight Fittings, Add	2,058.38	
23 21 13 23-0806 EA 5" Standard Weight, Flanged Steel, Reducing Tee.....	2,056.33	140.18
For Galvanized Fittings, Add	1,477.01	
For Extra Heavy Weight Fittings, Add	2,215.51	
23 21 13 23-0807 EA 6" Standard Weight, Flanged Steel, Reducing Tee.....	2,580.66	160.93
For Galvanized Fittings, Add	1,871.58	
For Extra Heavy Weight Fittings, Add	2,807.36	
23 21 13 23-0808 EA 8" Standard Weight, Flanged Steel, Reducing Tee.....	3,216.79	180.77
For Galvanized Fittings, Add	2,356.62	
For Extra Heavy Weight Fittings, Add	3,534.94	
23 21 13 23-0809 Flanged Steel, Concentric Reducers (23 21 13 23-0770)		
23 21 13 23-0810 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer.....	908.30	70.94
For Galvanized Fittings, Add	641.58	
For Extra Heavy Weight Fittings, Add	962.36	
23 21 13 23-0811 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer.....	1,032.11	80.39
For Galvanized Fittings, Add	729.21	
For Extra Heavy Weight Fittings, Add	1,093.81	
23 21 13 23-0812 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer.....	1,524.29	91.68
For Galvanized Fittings, Add	1,109.46	
For Extra Heavy Weight Fittings, Add	1,664.20	
23 21 13 23-0813 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer.....	1,680.70	99.46
For Galvanized Fittings, Add	1,225.26	
For Extra Heavy Weight Fittings, Add	1,837.88	
23 21 13 23-0814 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer.....	1,969.38	118.52
For Galvanized Fittings, Add	1,433.38	
For Extra Heavy Weight Fittings, Add	2,150.06	
23 21 13 23-0815 Flanged Steel, Eccentric Reducers (23 21 13 23-0770)		
23 21 13 23-0816 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer.....	982.82	80.39
For Galvanized Fittings, Add	689.78	
For Extra Heavy Weight Fittings, Add	1,034.66	
23 21 13 23-0817 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer.....	1,331.42	91.68
For Galvanized Fittings, Add	955.17	
For Extra Heavy Weight Fittings, Add	1,432.75	
23 21 13 23-0818 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0819 Plain End Piping System Couplings (23 21 13 23-0818)		
23 21 13 23-0820 Plainlock Plain End Piping System Couplings (23 21 13 23-0819)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0821 EA 1" Plainlock Plain End Piping System Coupling.....	180.30	7.78
For Galvanized Fittings, Add	33.72	
23 21 13 23-0822 EA 1-1/2" Plainlock Plain End Piping System Coupling.....	184.83	10.76
For Galvanized Fittings, Add	33.72	
23 21 13 23-0823 EA 2" Plainlock Plain End Piping System Coupling.....	190.09	14.27
For Galvanized Fittings, Add	33.72	
23 21 13 23-0824 EA 2-1/2" Plainlock Plain End Piping System Coupling.....	194.57	17.24
For Galvanized Fittings, Add	33.72	
23 21 13 23-0825 EA 3" Plainlock Plain End Piping System Coupling.....	230.13	20.74
For Galvanized Fittings, Add	39.80	
23 21 13 23-0826 EA 4" Plainlock Plain End Piping System Coupling.....	317.23	27.62
For Galvanized Fittings, Add	55.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0827 EA 6" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	533.02 93.12	45.00
23 21 13 23-0828 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0819) Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0829 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	217.58 50.34	10.76
23 21 13 23-0830 EA 2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	222.84 50.34	14.27
23 21 13 23-0831 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	227.33 50.34	17.37
23 21 13 23-0832 EA 3" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	329.41 74.58	20.74
23 21 13 23-0833 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	381.55 86.30	24.25
23 21 13 23-0834 EA 4" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	386.69 86.30	27.62
23 21 13 23-0835 EA 5" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	545.09 123.30	34.62
23 21 13 23-0836 EA 6" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	669.80 150.59	45.00
23 21 13 23-0837 EA 8" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,148.55 267.02	53.68
23 21 13 23-0838 EA 10" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,484.90 347.39	63.54
23 21 13 23-0839 EA 12" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,856.43 435.90	75.21
23 21 13 23-0840 EA 14" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	2,600.62 618.98	83.12
23 21 13 23-0841 EA 16" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	3,531.54 847.65	94.02
23 21 13 23-0842 Plain End Piping System Fittings (23 21 13 23-0818) Note: Cast ductile iron bodies.		
23 21 13 23-0843 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0844 EA 1" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	180.37 31.84	14.14
23 21 13 23-0845 EA 1-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	191.27 31.84	21.40
23 21 13 23-0846 EA 2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	201.56 31.84	28.27
23 21 13 23-0847 EA 2-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	210.80 31.84	34.50
23 21 13 23-0848 EA 3" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	253.78 38.24	41.75
23 21 13 23-0849 EA 4" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	361.31 55.76	54.98
23 21 13 23-0850 EA 5" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,068.36 193.02	68.85
23 21 13 23-0851 EA 6" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	902.51 153.49	90.12
23 21 13 23-0852 EA 8" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,781.36 324.17	106.98
23 21 13 23-0853 EA 10" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	2,224.58 407.44	125.00
23 21 13 23-0854 EA 12" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	2,818.94 518.76	150.16
23 21 13 23-0855 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0856 EA 1" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	180.37 31.84	14.14
23 21 13 23-0857 EA 1-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	191.27 31.84	21.40
23 21 13 23-0858 EA 2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	201.56 31.84	28.27
23 21 13 23-0859 EA 2-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	210.80 31.84	34.50
23 21 13 23-0860 EA 3" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	253.78 38.24	41.75
23 21 13 23-0861 EA 4" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	361.31 55.76	54.98
23 21 13 23-0862 EA 5" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,068.36 193.02	68.85
23 21 13 23-0863 EA 6" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	905.46 154.08	90.12
23 21 13 23-0864 EA 8" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,051.10 178.12	106.98
23 21 13 23-0865 EA 10" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,430.30 248.58	125.00

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0866	EA	12" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,830.81 321.13	150.16
23 21	13 23-0867		Plain End Piping System, Tees <small>(23 21 13 23-0842)</small>		
23 21	13 23-0868	EA	1" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	246.45 42.87	21.40
23 21	13 23-0869	EA	1-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	262.53 42.87	32.16
23 21	13 23-0870	EA	2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	276.71 42.87	41.63
23 21	13 23-0871	EA	2-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	290.82 42.87	50.97
23 21	13 23-0872	EA	3" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	402.45 61.70	62.64
23 21	13 23-0873	EA	4" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	550.43 85.80	81.05
23 21	13 23-0874	EA	5" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,101.32 188.48	105.95
23 21	13 23-0875	EA	6" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,361.99 232.62	132.66
23 21	13 23-0876	EA	8" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,853.51 322.31	161.32
23 21	13 23-0877	EA	10" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	2,742.94 492.21	188.03
23 21	13 23-0878	EA	12" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	3,666.91 665.84	225.25
23 21	13 23-0879		Plain End Piping System, Reducing Tees <small>(23 21 13 23-0842)</small>		
23 21	13 23-0880	EA	1-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	475.37 84.74	34.50
23 21	13 23-0881	EA	2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	486.04 84.74	41.63
23 21	13 23-0882	EA	2-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	500.15 84.74	50.97
23 21	13 23-0883	EA	3" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	517.66 84.74	62.64
23 21	13 23-0884	EA	4" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	746.93 125.10	81.05
23 21	13 23-0885	EA	6" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,261.08 212.44	132.66
23 21	13 23-0886	EA	8" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,640.78 279.77	161.32
23 21	13 23-0887	EA	10" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	2,438.45 431.31	188.03
23 21	13 23-0888	EA	12" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	3,579.78 648.42	225.25
23 21	13 23-0889		Plain End Piping System, Wyes <small>(23 21 13 23-0842)</small>		
23 21	13 23-0890	EA	2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	690.22 125.57	41.63
23 21	13 23-0891	EA	2-1/2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	704.33 125.57	50.97
23 21	13 23-0892	EA	3" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	799.73 141.15	62.64
23 21	13 23-0893	EA	4" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,169.00 209.52	81.05
23 21	13 23-0894	EA	5" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,433.69 254.95	105.95
23 21	13 23-0895	EA	6" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,954.30 351.08	132.66
23 21	13 23-0896	EA	8" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	2,515.32 454.68	161.32
23 21	13 23-0897	EA	10" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	3,634.29 670.48	188.03
23 21	13 23-0898	EA	12" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	5,505.67 1,033.60	225.25
23 21	13 23-0899		Plain End Piping System, Laterals <small>(23 21 13 23-0842)</small>		
23 21	13 23-0900	EA	2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	734.63 134.46	41.63
23 21	13 23-0901	EA	2-1/2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	748.74 134.46	50.97
23 21	13 23-0902	EA	3" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	843.84 149.97	62.64
23 21	13 23-0903	EA	4" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,253.24 226.36	81.05
23 21	13 23-0904	EA	5" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,634.33 295.08	105.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0905 EA 6" Plain End Piping System, Lateral	2,083.39	132.66
<i>For Galvanized Fittings, Add</i>	376.90	
23 21 13 23-0906 EA 8" Plain End Piping System, Lateral	2,989.46	161.32
<i>For Galvanized Fittings, Add</i>	549.50	
23 21 13 23-0907 EA 10" Plain End Piping System, Lateral	4,160.37	188.03
<i>For Galvanized Fittings, Add</i>	775.69	
23 21 13 23-0908 EA 12" Plain End Piping System, Lateral	5,583.86	225.25
<i>For Galvanized Fittings, Add</i>	1,049.23	
23 21 13 23-0909 Plain End Piping System, Crosses (23 21 13 23-0842)		
23 21 13 23-0910 EA 2" Plain End Piping System, Cross	823.38	62.38
<i>For Galvanized Fittings, Add</i>	91.25	
23 21 13 23-0911 EA 2-1/2" Plain End Piping System, Cross	844.51	76.38
<i>For Galvanized Fittings, Add</i>	91.25	
23 21 13 23-0912 EA 3" Plain End Piping System, Cross	987.60	94.02
<i>For Galvanized Fittings, Add</i>	105.83	
23 21 13 23-0913 EA 4" Plain End Piping System, Cross	1,345.23	121.50
<i>For Galvanized Fittings, Add</i>	145.39	
23 21 13 23-0914 EA 5" Plain End Piping System, Cross	1,890.37	158.99
<i>For Galvanized Fittings, Add</i>	206.50	
23 21 13 23-0915 EA 6" Plain End Piping System, Cross	2,478.74	198.40
<i>For Galvanized Fittings, Add</i>	272.67	
23 21 13 23-0916 EA 8" Plain End Piping System, Cross	3,158.63	240.29
<i>For Galvanized Fittings, Add</i>	349.80	
23 21 13 23-0917 EA 10" Plain End Piping System, Cross	4,504.10	280.88
<i>For Galvanized Fittings, Add</i>	510.39	
23 21 13 23-0918 EA 12" Plain End Piping System, Cross	6,394.02	337.93
<i>For Galvanized Fittings, Add</i>	735.93	
23 21 13 23-0919 Plain End Piping System, Adapter Nipples (23 21 13 23-0842)		
Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0920 EA 1" Plain End Piping System, Adapter Nipple	37.30	7.78
<i>For Galvanized Fittings, Add</i>	6.41	
23 21 13 23-0921 EA 1-1/2" Plain End Piping System, Adapter Nipple	42.54	10.76
<i>For Galvanized Fittings, Add</i>	6.58	
23 21 13 23-0922 EA 2" Plain End Piping System, Adapter Nipple	47.66	14.27
<i>For Galvanized Fittings, Add</i>	6.58	
23 21 13 23-0923 EA 2-1/2" Plain End Piping System, Adapter Nipple	56.79	17.24
<i>For Galvanized Fittings, Add</i>	7.71	
23 21 13 23-0924 EA 3" Plain End Piping System, Adapter Nipple	69.24	20.74
<i>For Galvanized Fittings, Add</i>	9.53	
23 21 13 23-0925 EA 4" Plain End Piping System, Adapter Nipple	105.25	27.62
<i>For Galvanized Fittings, Add</i>	15.94	
23 21 13 23-0926 EA 6" Plain End Piping System, Adapter Nipple	224.28	34.62
<i>For Galvanized Fittings, Add</i>	43.10	
23 21 13 23-0927 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0842)		
23 21 13 23-0928 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple	114.01	18.54
<i>For Galvanized Fittings, Add</i>	21.53	
23 21 13 23-0929 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple	119.21	22.04
<i>For Galvanized Fittings, Add</i>	21.53	
23 21 13 23-0930 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple	124.45	25.54
<i>For Galvanized Fittings, Add</i>	21.53	
23 21 13 23-0931 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple	123.18	24.77
<i>For Galvanized Fittings, Add</i>	21.53	
23 21 13 23-0932 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple	128.28	28.14
<i>For Galvanized Fittings, Add</i>	21.53	
23 21 13 23-0933 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple	133.45	31.51
<i>For Galvanized Fittings, Add</i>	21.53	
23 21 13 23-0934 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple	147.62	28.53
<i>For Galvanized Fittings, Add</i>	26.23	
23 21 13 23-0935 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple	152.22	31.51
<i>For Galvanized Fittings, Add</i>	26.23	
23 21 13 23-0936 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple	133.23	35.01
<i>For Galvanized Fittings, Add</i>	20.17	
23 21 13 23-0937 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple	143.27	41.75
<i>For Galvanized Fittings, Add</i>	20.17	
23 21 13 23-0938 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple	163.87	45.00
<i>For Galvanized Fittings, Add</i>	24.12	
23 21 13 23-0939 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple	200.66	35.40
<i>For Galvanized Fittings, Add</i>	36.88	
23 21 13 23-0940 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple	205.20	38.51
<i>For Galvanized Fittings, Add</i>	36.88	
23 21 13 23-0941 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple	174.65	42.01
<i>For Galvanized Fittings, Add</i>	27.93	
23 21 13 23-0942 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple	179.10	45.00
<i>For Galvanized Fittings, Add</i>	27.93	
23 21 13 23-0943 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple	184.39	48.50
<i>For Galvanized Fittings, Add</i>	27.93	
23 21 13 23-0944 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple	189.45	51.87
<i>For Galvanized Fittings, Add</i>	27.93	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0945 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	484.11	48.88
For Galvanized Fittings, Add	102.69	
23 21 13 23-0946 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	399.96	55.24
For Galvanized Fittings, Add	79.26	
23 21 13 23-0947 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	354.32	62.38
For Galvanized Fittings, Add	65.23	
23 21 13 23-0948 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	861.75	52.78
For Galvanized Fittings, Add	195.67	
23 21 13 23-0949 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	866.23	55.76
For Galvanized Fittings, Add	195.67	
23 21 13 23-0950 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	667.71	59.26
For Galvanized Fittings, Add	144.73	
23 21 13 23-0951 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	672.32	62.38
For Galvanized Fittings, Add	144.73	
23 21 13 23-0952 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	473.70	65.75
For Galvanized Fittings, Add	93.79	
23 21 13 23-0953 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	478.41	68.85
For Galvanized Fittings, Add	93.79	
23 21 13 23-0954 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	393.31	72.62
For Galvanized Fittings, Add	71.13	
23 21 13 23-0955 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	445.42	79.49
For Galvanized Fittings, Add	81.56	
23 21 13 23-0956 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	563.86	74.31
For Galvanized Fittings, Add	113.12	
23 21 13 23-0957 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	574.33	81.31
For Galvanized Fittings, Add	113.12	
23 21 13 23-0958 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	647.06	88.31
For Galvanized Fittings, Add	128.68	
23 21 13 23-0959 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple.....	725.00	98.68
For Galvanized Fittings, Add	144.24	
23 21 13 23-0960 Plain End Piping System, Bull Plugs (23 21 13 23-0842)		
23 21 13 23-0961 EA 1" Plain End Piping System, Bull Plug.....	357.77	7.78
For Galvanized Fittings, Add	103.83	
23 21 13 23-0962 EA 1-1/2" Plain End Piping System, Bull Plug.....	362.31	10.76
For Galvanized Fittings, Add	103.83	
23 21 13 23-0963 EA 2" Plain End Piping System, Bull Plug.....	367.43	14.27
For Galvanized Fittings, Add	103.83	
23 21 13 23-0964 EA 2-1/2" Plain End Piping System, Bull Plug.....	372.03	17.24
For Galvanized Fittings, Add	103.83	
23 21 13 23-0965 EA 3" Plain End Piping System, Bull Plug.....	538.46	20.74
For Galvanized Fittings, Add	152.20	
23 21 13 23-0966 EA 4" Plain End Piping System, Bull Plug.....	696.80	27.62
For Galvanized Fittings, Add	196.59	
23 21 13 23-0967 EA 5" Plain End Piping System, Bull Plug.....	1,209.94	34.62
For Galvanized Fittings, Add	347.42	
23 21 13 23-0968 EA 6" Plain End Piping System, Bull Plug.....	1,612.02	45.00
For Galvanized Fittings, Add	463.38	
23 21 13 23-0969 EA 8" Plain End Piping System, Bull Plug.....	2,984.28	53.55
For Galvanized Fittings, Add	871.17	
23 21 13 23-0970 EA 10" Plain End Piping System, Bull Plug.....	5,365.52	62.64
For Galvanized Fittings, Add	1,581.47	
23 21 13 23-0971 EA 12" Plain End Piping System, Bull Plug.....	8,219.49	75.21
For Galvanized Fittings, Add	2,432.01	
23 21 13 23-0972 Carbon Steel Piping Systems (23 21 13 23)		
23 21 13 23-0973 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0972)		
Note: ASTM A105		
23 21 13 23-0974 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0975 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	45.55	25.67
23 21 13 23-0976 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	51.15	28.66
23 21 13 23-0977 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.05	32.03
23 21 13 23-0978 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	82.37	36.31
23 21 13 23-0979 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	93.89	40.85
23 21 13 23-0980 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	125.73	52.00
23 21 13 23-0981 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	236.68	76.89
23 21 13 23-0982 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	332.89	101.15
23 21 13 23-0983 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	534.30	99.72
23 21 13 23-0984 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0985 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	48.69	25.67
23 21 13 23-0986 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	55.91	28.66
23 21 13 23-0987 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	64.51	32.03
23 21 13 23-0988 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	84.22	36.31
23 21 13 23-0989 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	98.32	40.85
23 21 13 23-0990 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	125.64	52.00
23 21 13 23-0991 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	263.80	76.89
23 21 13 23-0992 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	355.84	101.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0993 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	524.37	99.72
23 21 13 23-0994 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0995 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	56.13	32.03
23 21 13 23-0996 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	67.11	36.96
23 21 13 23-0997 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	86.18	43.70
23 21 13 23-0998 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	111.62	52.00
23 21 13 23-0999 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	134.80	61.98
23 21 13 23-1000 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	175.99	76.89
23 21 13 23-1001 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	297.87	101.15
23 21 13 23-1002 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	399.64	120.08
23 21 13 23-1003 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	704.55	125.89
23 21 13 23-1004 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1005 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	56.99	32.03
23 21 13 23-1006 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	68.00	36.96
23 21 13 23-1007 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	87.25	43.70
23 21 13 23-1008 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	114.14	52.00
23 21 13 23-1009 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	137.76	61.98
23 21 13 23-1010 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	180.53	76.89
23 21 13 23-1011 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	308.65	101.15
23 21 13 23-1012 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	415.16	120.08
23 21 13 23-1013 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	649.30	125.89
23 21 13 23-1014 Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1015 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	41.68	25.67
23 21 13 23-1016 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	46.87	28.66
23 21 13 23-1017 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	53.94	32.03
23 21 13 23-1018 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	61.82	36.31
23 21 13 23-1019 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	71.34	40.85
23 21 13 23-1020 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	92.53	52.00
23 21 13 23-1021 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB.....	152.11	76.89
23 21 13 23-1022 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	202.47	101.15
23 21 13 23-1023 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	250.81	99.72
23 21 13 23-1024 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1025 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	43.43	25.67
23 21 13 23-1026 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	48.79	28.66
23 21 13 23-1027 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	57.02	32.03
23 21 13 23-1028 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	65.54	36.31
23 21 13 23-1029 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	76.85	40.85
23 21 13 23-1030 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	98.43	52.00
23 21 13 23-1031 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	165.09	76.89
23 21 13 23-1032 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	228.58	101.15
23 21 13 23-1033 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	305.08	99.72
23 21 13 23-1034 Caps, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1035 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	23.16	12.06
23 21 13 23-1036 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	25.96	12.84
23 21 13 23-1037 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	30.32	14.78
23 21 13 23-1038 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	34.66	16.08
23 21 13 23-1039 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	38.56	16.08
23 21 13 23-1040 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	49.98	20.61
23 21 13 23-1041 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	83.14	25.67
23 21 13 23-1042 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	116.94	31.00
23 21 13 23-1043 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	161.09	34.12
23 21 13 23-1044 Black Cast Iron Square Head Plug (23 21 13 23-0973)		
23 21 13 23-1045 EA 1/2" Square Head Plug, Black, Cast Iron.....	16.43	10.24
23 21 13 23-1046 EA 3/4" Square Head Plug, Black, Cast Iron.....	18.10	10.24
23 21 13 23-1047 EA 1" Square Head Plug, Black, Cast Iron.....	26.34	15.56
23 21 13 23-1048 EA 1-1/4" Square Head Plug, Black, Cast Iron.....	26.67	15.56
23 21 13 23-1049 EA 1-1/2" Square Head Plug, Black, Cast Iron.....	28.06	15.56
23 21 13 23-1050 EA 2" Square Head Plug, Black, Cast Iron.....	37.24	20.61
23 21 13 23-1051 EA 2-1/2" Square Head Plug, Black, Cast Iron.....	47.48	25.67
23 21 13 23-1052 EA 3" Square Head Plug, Black, Cast Iron.....	61.03	31.00
23 21 13 23-1053 EA 4" Square Head Plug, Black, Cast Iron.....	68.30	34.12
23 21 13 23-1054 Unions, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-1055 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	66.27	32.03
23 21 13 23-1056 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	74.13	36.96
23 21 13 23-1057 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	92.86	43.70
23 21 13 23-1058 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	115.65	52.00

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1059 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	139.05	61.98
23 21 13 23-1060 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	173.51	76.89
23 21 13 23-1061 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	274.44	83.51
23 21 13 23-1062 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	363.07	101.15
23 21 13 23-1063 Class 6,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0972)		
Note: ASTM A105		
23 21 13 23-1064 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1065 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	49.33	25.67
23 21 13 23-1066 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	55.48	28.66
23 21 13 23-1067 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	71.03	32.03
23 21 13 23-1068 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	97.24	36.31
23 21 13 23-1069 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	111.20	40.85
23 21 13 23-1070 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	151.15	52.00
23 21 13 23-1071 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	301.16	76.89
23 21 13 23-1072 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	429.14	101.15
23 21 13 23-1073 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	738.70	99.72
23 21 13 23-1074 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1075 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	54.50	25.67
23 21 13 23-1076 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	63.21	28.66
23 21 13 23-1077 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	73.84	32.03
23 21 13 23-1078 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	101.12	36.31
23 21 13 23-1079 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	119.28	40.85
23 21 13 23-1080 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	152.68	52.00
23 21 13 23-1081 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	347.90	76.89
23 21 13 23-1082 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	471.45	101.15
23 21 13 23-1083 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	736.66	99.72
23 21 13 23-1084 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1085 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	63.63	32.03
23 21 13 23-1086 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	77.94	36.96
23 21 13 23-1087 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	105.35	43.70
23 21 13 23-1088 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	142.87	52.00
23 21 13 23-1089 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	173.55	61.98
23 21 13 23-1090 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	232.25	76.89
23 21 13 23-1091 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	433.29	101.15
23 21 13 23-1092 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	602.98	120.08
23 21 13 23-1093 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,182.27	125.89
23 21 13 23-1094 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1095 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	56.99	32.03
23 21 13 23-1096 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	68.00	36.96
23 21 13 23-1097 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	87.25	43.70
23 21 13 23-1098 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	114.14	52.00
23 21 13 23-1099 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	137.76	61.98
23 21 13 23-1100 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	180.53	76.89
23 21 13 23-1101 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	308.65	101.15
23 21 13 23-1102 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	415.16	120.08
23 21 13 23-1103 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	649.30	125.89
23 21 13 23-1104 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1105 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	43.25	25.67
23 21 13 23-1106 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	48.73	28.66
23 21 13 23-1107 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	56.80	32.03
23 21 13 23-1108 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	65.43	36.31
23 21 13 23-1109 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	76.18	40.85
23 21 13 23-1110 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	99.62	52.00
23 21 13 23-1111 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	169.93	76.89
23 21 13 23-1112 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	227.05	101.15
23 21 13 23-1113 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	299.84	99.72
23 21 13 23-1114 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1115 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	45.83	25.67
23 21 13 23-1116 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	51.56	28.66
23 21 13 23-1117 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	61.33	32.03
23 21 13 23-1118 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	70.90	36.31
23 21 13 23-1119 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	84.31	40.85
23 21 13 23-1120 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	108.29	52.00
23 21 13 23-1121 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	189.00	76.89
23 21 13 23-1122 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	265.51	101.15
23 21 13 23-1123 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	379.79	99.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1124 Caps, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1063)</small>		
23 21 13 23-1125 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	26.61	12.06
23 21 13 23-1126 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	30.49	12.84
23 21 13 23-1127 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	35.80	14.78
23 21 13 23-1128 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	41.80	16.08
23 21 13 23-1129 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	48.33	16.08
23 21 13 23-1130 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	62.72	20.61
23 21 13 23-1131 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	113.16	25.67
23 21 13 23-1132 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	164.22	31.00
23 21 13 23-1133 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	234.81	34.12
23 21 13 23-1134 Black Cast Iron Square Head Plug <small>(23 21 13 23-1063)</small>		
23 21 13 23-1135 EA 1/2" Square Head Plug, Black Cast Iron.....	16.43	10.24
23 21 13 23-1136 EA 3/4" Square Head Plug, Black Cast Iron.....	18.11	10.24
23 21 13 23-1137 EA 1" Square Head Plug, Black Cast Iron.....	26.36	15.56
23 21 13 23-1138 EA 1-1/4" Square Head Plug, Black Cast Iron.....	26.69	15.56
23 21 13 23-1139 EA 1-1/2" Square Head Plug, Black Cast Iron.....	28.08	15.56
23 21 13 23-1140 EA 2" Square Head Plug, Black Cast Iron.....	37.27	20.61
23 21 13 23-1141 EA 2-1/2" Square Head Plug, Black Cast Iron.....	47.53	25.67
23 21 13 23-1142 EA 3" Square Head Plug, Black Cast Iron.....	61.10	31.00
23 21 13 23-1143 EA 4" Square Head Plug, Black Cast Iron.....	68.39	34.12
23 21 13 23-1144 Unions, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1063)</small>		
23 21 13 23-1145 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	77.43	32.03
23 21 13 23-1146 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	85.58	36.96
23 21 13 23-1147 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	109.59	43.70
23 21 13 23-1148 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	138.75	52.00
23 21 13 23-1149 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	167.24	61.98
23 21 13 23-1150 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	209.13	76.89
23 21 13 23-1151 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	365.65	83.51
23 21 13 23-1152 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	492.34	101.15
23 21 13 23-1153 Carbon Steel, Seamless Piping System <small>(23 21 13 23-0972)</small>		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
23 21 13 23-1154 Schedule 40, Carbon Steel, Seamless Piping <small>(23 21 13 23-1153)</small>		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1155 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.30	4.80
For Schedule 80, Add	1.12	
23 21 13 23-1156 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.69	5.19
For Schedule 80, Add	1.02	
For Schedule 160, Add	4.25	
23 21 13 23-1157 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	11.84	5.57
For Schedule 80, Add	1.25	
For Schedule 160, Add	5.21	
23 21 13 23-1158 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40.....	12.63	6.10
For Schedule 80, Add	1.29	
For Schedule 160, Add	5.36	
23 21 13 23-1159 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	16.54	7.53
For Schedule 80, Add	1.89	
For Schedule 160, Add	7.89	
23 21 13 23-1160 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	20.58	9.07
For Schedule 80, Add	2.49	
For Schedule 160, Add	10.40	
23 21 13 23-1161 90 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1162 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	34.02	19.71
23 21 13 23-1163 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	40.75	23.08
23 21 13 23-1164 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	45.56	25.81
23 21 13 23-1165 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	51.85	28.78
23 21 13 23-1166 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	77.46	36.83
23 21 13 23-1167 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	98.20	46.81
23 21 13 23-1168 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	35.45	19.71
23 21 13 23-1169 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	41.28	23.08
23 21 13 23-1170 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	47.33	25.81
23 21 13 23-1171 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	55.70	28.78
23 21 13 23-1172 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	86.65	36.83
23 21 13 23-1173 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	108.37	46.81
23 21 13 23-1174 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	46.29	23.08
23 21 13 23-1175 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	53.63	25.81
23 21 13 23-1176 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	62.32	28.78
23 21 13 23-1177 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	105.26	36.83
23 21 13 23-1178 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	157.73	46.81
23 21 13 23-1179 45 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1180 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	37.14	19.71

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1181	EA	1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	41.90	23.08
23 21	13 23-1182	EA	3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	47.05	25.81
23 21	13 23-1183	EA	1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	52.98	28.78
23 21	13 23-1184	EA	1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	73.78	36.83
23 21	13 23-1185	EA	2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	103.87	46.81
23 21	13 23-1186	EA	1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	37.37	19.71
23 21	13 23-1187	EA	1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	43.21	23.08
23 21	13 23-1188	EA	3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	48.56	25.81
23 21	13 23-1189	EA	1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	56.91	28.78
23 21	13 23-1190	EA	1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	85.23	36.83
23 21	13 23-1191	EA	2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	111.54	46.81
23 21	13 23-1192	EA	1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	49.75	23.08
23 21	13 23-1193	EA	3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	59.87	25.81
23 21	13 23-1194	EA	1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	64.66	28.78
23 21	13 23-1195	EA	1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	118.54	36.83
23 21	13 23-1196	EA	2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	158.60	46.81
23 21 13 23-1197 Straight Tees, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1198	EA	1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	45.23	27.36
23 21	13 23-1199	EA	1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	51.21	28.78
23 21	13 23-1200	EA	3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	60.77	33.33
23 21	13 23-1201	EA	1" Tee, Straight, 2,000 LB, Screwed Carbon Steel	73.84	39.30
23 21	13 23-1202	EA	1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	115.00	55.76
23 21	13 23-1203	EA	2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	142.59	69.25
23 21	13 23-1204	EA	1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	46.45	27.36
23 21	13 23-1205	EA	1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	52.01	28.78
23 21	13 23-1206	EA	3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	63.43	33.33
23 21	13 23-1207	EA	1" Tee, Straight, 3,000 LB, Screwed Carbon Steel	76.12	39.30
23 21	13 23-1208	EA	1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	122.89	55.76
23 21	13 23-1209	EA	2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	155.65	69.25
23 21	13 23-1210	EA	1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	58.01	28.78
23 21	13 23-1211	EA	3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel	69.88	33.33
23 21	13 23-1212	EA	1" Tee, Straight, 6,000 LB, Screwed Carbon Steel	92.08	39.30
23 21	13 23-1213	EA	1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	141.02	55.76
23 21	13 23-1214	EA	2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	213.44	69.25
23 21 13 23-1215 Crosses, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1216	EA	1/4" Cross, 2,000 LB, Screwed Carbon Steel	65.80	34.62
23 21	13 23-1217	EA	1/2" Cross, 2,000 LB, Screwed Carbon Steel	76.90	38.90
23 21	13 23-1218	EA	3/4" Cross, 2,000 LB, Screwed Carbon Steel	82.46	41.50
23 21	13 23-1219	EA	1" Cross, 2,000 LB, Screwed Carbon Steel	101.46	50.05
23 21	13 23-1220	EA	1-1/2" Cross, 2,000 LB, Screwed Carbon Steel	168.55	70.02
23 21	13 23-1221	EA	2" Cross, 2,000 LB, Screwed Carbon Steel	215.74	86.49
23 21	13 23-1222	EA	1/2" Cross, 3,000 LB, Screwed Carbon Steel	78.41	38.90
23 21	13 23-1223	EA	3/4" Cross, 3,000 LB, Screwed Carbon Steel	91.09	41.50
23 21	13 23-1224	EA	1" Cross, 3,000 LB, Screwed Carbon Steel	109.02	50.05
23 21	13 23-1225	EA	1-1/2" Cross, 3,000 LB, Screwed Carbon Steel	179.44	70.02
23 21	13 23-1226	EA	2" Cross, 3,000 LB, Screwed Carbon Steel	235.63	86.49
23 21	13 23-1227	EA	1/2" Cross, 6,000 LB, Screwed Carbon Steel	106.52	38.90
23 21	13 23-1228	EA	3/4" Cross, 6,000 LB, Screwed Carbon Steel	167.82	41.50
23 21	13 23-1229	EA	1" Cross, 6,000 LB, Screwed Carbon Steel	227.25	50.05
23 21	13 23-1230	EA	1-1/2" Cross, 6,000 LB, Screwed Carbon Steel	355.25	70.02
23 21	13 23-1231	EA	2" Cross, 6,000 LB, Screwed Carbon Steel	393.72	86.49
23 21 13 23-1232 Straight Couplings, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1233	EA	1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	32.31	19.71
23 21	13 23-1234	EA	1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	37.07	23.08
23 21	13 23-1235	EA	3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	42.14	25.81
23 21	13 23-1236	EA	1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	48.39	28.78
23 21	13 23-1237	EA	1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	68.18	36.83
23 21	13 23-1238	EA	2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	86.55	46.81
23 21	13 23-1239	EA	1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	35.92	19.71
23 21	13 23-1240	EA	1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	39.35	23.08
23 21	13 23-1241	EA	3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	43.89	25.81
23 21	13 23-1242	EA	1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	50.72	28.78
23 21	13 23-1243	EA	1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	71.74	36.83
23 21	13 23-1244	EA	2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	99.57	46.81
23 21 13 23-1245 Reducing Couplings, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1246	EA	1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	32.81	21.01
23 21	13 23-1247	EA	1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	38.25	23.08
23 21	13 23-1248	EA	3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	43.95	25.81
23 21	13 23-1249	EA	1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	50.89	28.78
23 21	13 23-1250	EA	1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	68.83	36.83
23 21	13 23-1251	EA	2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	90.06	46.81
23 21	13 23-1252	EA	1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	84.40	23.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1253 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	88.53	25.81
23 21 13 23-1254 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	102.85	28.78
23 21 13 23-1255 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	145.69	36.83
23 21 13 23-1256 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	206.39	46.81
23 21 13 23-1257 Caps, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1258 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel	15.39	8.81
23 21 13 23-1259 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel	17.86	10.24
23 21 13 23-1260 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel	20.63	11.54
23 21 13 23-1261 EA 1" Cap, 3,000 LB, Screwed Carbon Steel	24.38	12.84
23 21 13 23-1262 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel	32.71	16.34
23 21 13 23-1263 EA 2" Cap, 3,000 LB, Screwed Carbon Steel	43.80	20.88
23 21 13 23-1264 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel	19.71	8.81
23 21 13 23-1265 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel	20.63	10.24
23 21 13 23-1266 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel	25.14	11.54
23 21 13 23-1267 EA 1" Cap, 6,000 LB, Screwed Carbon Steel	27.68	12.84
23 21 13 23-1268 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel	46.15	16.34
23 21 13 23-1269 EA 2" Cap, 6,000 LB, Screwed Carbon Steel	56.89	20.88
23 21 13 23-1270 Nipples, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1271 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel	19.76	11.80
23 21 13 23-1272 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel	20.16	12.31
23 21 13 23-1273 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel	20.05	12.31
23 21 13 23-1274 EA 1" Nipple, 2" Long, Screwed Carbon Steel	22.14	13.36
23 21 13 23-1275 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel	24.91	14.40
23 21 13 23-1276 EA 2" Nipple, 2" Long, Screwed Carbon Steel	30.38	18.54
23 21 13 23-1277 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel	20.58	11.80
23 21 13 23-1278 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel	20.82	12.31
23 21 13 23-1279 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel	20.79	12.31
23 21 13 23-1280 EA 1" Nipple, 4" Long, Screwed Carbon Steel	23.14	13.36
23 21 13 23-1281 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel	26.69	14.40
23 21 13 23-1282 EA 2" Nipple, 4" Long, Screwed Carbon Steel	32.99	18.54
23 21 13 23-1283 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel	22.56	11.80
23 21 13 23-1284 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel	21.86	12.31
23 21 13 23-1285 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel	21.95	12.31
23 21 13 23-1286 EA 1" Nipple, 6" Long, Screwed Carbon Steel	24.57	13.36
23 21 13 23-1287 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel	29.13	14.40
23 21 13 23-1288 EA 2" Nipple, 6" Long, Screwed Carbon Steel	35.14	18.54
23 21 13 23-1289 Unions, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1290 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel	41.82	28.66
23 21 13 23-1291 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel	44.63	28.78
23 21 13 23-1292 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel	51.32	33.33
23 21 13 23-1293 EA 1" Union, 3,000 LB, Screwed Carbon Steel	61.06	39.30
23 21 13 23-1294 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel	87.23	55.76
23 21 13 23-1295 EA 2" Union, 3,000 LB, Screwed Carbon Steel	108.25	69.25
23 21 13 23-1296 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel	60.96	28.66
23 21 13 23-1297 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel	67.77	28.78
23 21 13 23-1298 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel	79.34	33.33
23 21 13 23-1299 EA 1" Union, 6,000 LB, Screwed Carbon Steel	95.59	39.30
23 21 13 23-1300 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel	157.83	55.76
23 21 13 23-1301 EA 2" Union, 6,000 LB, Screwed Carbon Steel	195.15	69.25
23 21 13 23-1302 Weld Neck Flanges, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1303 EA 1/2" Flange, 150 LB, Screwed Carbon Steel	90.54	53.55
23 21 13 23-1304 EA 3/4" Flange, 150 LB, Screwed Carbon Steel	94.75	56.15
23 21 13 23-1305 EA 1" Flange, 150 LB, Screwed Carbon Steel	98.40	58.61
23 21 13 23-1306 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel	109.86	66.01
23 21 13 23-1307 EA 2" Flange, 150 LB, Screwed Carbon Steel	114.18	68.85
23 21 13 23-1308 EA 1/2" Flange, 300 LB, Screwed Carbon Steel	91.18	53.55
<i>For Ring Type Joint, Add</i>	10.82	
<i>For Blind Flange, Deduct</i>	-34.31	
23 21 13 23-1309 EA 3/4" Flange, 300 LB, Screwed Carbon Steel	95.44	56.15
<i>For Ring Type Joint, Add</i>	11.19	
<i>For Blind Flange, Deduct</i>	-35.94	
23 21 13 23-1310 EA 1" Flange, 300 LB, Screwed Carbon Steel	99.44	58.61
<i>For Ring Type Joint, Add</i>	11.54	
<i>For Blind Flange, Deduct</i>	-37.47	
23 21 13 23-1311 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel	112.34	66.01
<i>For Ring Type Joint, Add</i>	13.35	
<i>For Blind Flange, Deduct</i>	-42.27	
23 21 13 23-1312 EA 2" Flange, 300 LB, Screwed Carbon Steel	116.66	68.85
<i>For Ring Type Joint, Add</i>	13.35	
<i>For Blind Flange, Deduct</i>	-43.99	
23 21 13 23-1313 EA 1/2" Flange, 600 LB, Screwed Carbon Steel	95.44	53.55
<i>For Ring Type Joint, Add</i>	15.08	
<i>For Blind Flange, Deduct</i>	-35.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1314 EA 3/4" Flange, 600 LB, Screwed Carbon Steel.....	99.33	56.15
For Ring Type Joint, Add	15.08	
For Blind Flange, Deduct	-36.72	
23 21 13 23-1315 EA 1" Flange, 600 LB, Screwed Carbon Steel.....	103.67	58.61
For Ring Type Joint, Add	15.77	
For Blind Flange, Deduct	-38.31	
23 21 13 23-1316 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel	117.58	66.01
For Ring Type Joint, Add	18.59	
For Blind Flange, Deduct	-43.31	
23 21 13 23-1317 EA 2" Flange, 600 LB, Screwed Carbon Steel.....	120.61	68.85
For Ring Type Joint, Add	17.30	
For Blind Flange, Deduct	-44.78	
23 21 13 23-1318 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1319 EA 1/4" Square Head Plug, Screwed Carbon Steel.....	6.37	3.63
23 21 13 23-1320 EA 1/2" Square Head Plug, Screwed Carbon Steel.....	7.63	4.28
23 21 13 23-1321 EA 3/4" Square Head Plug, Screwed Carbon Steel.....	8.81	4.93
23 21 13 23-1322 EA 1" Square Head Plug, Screwed Carbon Steel.....	12.86	7.26
23 21 13 23-1323 EA 1-1/2" Square Head Plug, Screwed Carbon Steel	15.38	7.26
23 21 13 23-1324 EA 2" Square Head Plug, Screwed Carbon Steel.....	21.70	9.47
23 21 13 23-1325 Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1326 EA 1/4" Hex Head Plug, Screwed Carbon Steel.....	6.12	3.63
23 21 13 23-1327 EA 1/2" Hex Head Plug, Screwed Carbon Steel.....	7.40	4.28
23 21 13 23-1328 EA 3/4" Hex Head Plug, Screwed Carbon Steel.....	8.66	4.93
23 21 13 23-1329 EA 1" Hex Head Plug, Screwed Carbon Steel.....	12.73	7.26
23 21 13 23-1330 EA 1-1/2" Hex Head Plug, Screwed Carbon Steel.....	14.82	7.26
23 21 13 23-1331 EA 2" Hex Head Plug, Screwed Carbon Steel.....	22.09	9.47
23 21 13 23-1332 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1333 EA 1/4" Round Head Plug, Screwed Carbon Steel.....	6.94	3.63
23 21 13 23-1334 EA 1/2" Round Head Plug, Screwed Carbon Steel.....	7.67	4.28
23 21 13 23-1335 EA 3/4" Round Head Plug, Screwed Carbon Steel.....	8.70	4.93
23 21 13 23-1336 EA 1" Round Head Plug, Screwed Carbon Steel.....	12.95	7.26
23 21 13 23-1337 EA 1-1/2" Round Head Plug, Screwed Carbon Steel	16.07	7.26
23 21 13 23-1338 EA 2" Round Head Plug, Screwed Carbon Steel.....	21.94	9.47
23 21 13 23-1339 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1340 EA 1/4" Hex Bushing, Screwed Carbon Steel.....	6.31	3.63
23 21 13 23-1341 EA 1/2" Hex Bushing, Screwed Carbon Steel.....	7.39	4.28
23 21 13 23-1342 EA 3/4" Hex Bushing, Screwed Carbon Steel.....	8.59	4.93
23 21 13 23-1343 EA 1" Hex Bushing, Screwed Carbon Steel.....	12.91	7.26
23 21 13 23-1344 EA 1-1/2" Hex Bushing, Screwed Carbon Steel	14.78	7.26
23 21 13 23-1345 EA 2" Hex Bushing, Screwed Carbon Steel.....	21.51	9.47
23 21 13 23-1346 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1153)		
23 21 13 23-1347 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	38.60	19.71
23 21 13 23-1348 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	44.34	23.08
23 21 13 23-1349 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	51.26	25.81
23 21 13 23-1350 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	59.27	28.78
23 21 13 23-1351 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	89.54	36.83
23 21 13 23-1352 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel	119.16	46.81
23 21 13 23-1353 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	57.42	23.08
23 21 13 23-1354 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	77.85	25.81
23 21 13 23-1355 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	103.77	28.78
23 21 13 23-1356 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel	211.95	36.83
23 21 13 23-1357 Screwed Carbon Steel Laterals (23 21 13 23-1153)		
23 21 13 23-1358 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	133.30	28.78
23 21 13 23-1359 EA 3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	159.54	33.33
23 21 13 23-1360 EA 1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	194.46	39.30
23 21 13 23-1361 EA 1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	252.87	55.76
23 21 13 23-1362 EA 2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	315.26	69.25
23 21 13 23-1363 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel	163.86	28.78
23 21 13 23-1364 EA 3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	204.98	33.33
23 21 13 23-1365 EA 1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	243.04	39.30
23 21 13 23-1366 EA 1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel	342.19	55.76
23 21 13 23-1367 Grooved-Joint Pipe (23 21 13 23)		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
23 21 13 23-1368 Schedule 10 Black Grooved Pipe (23 21 13 23-1367)		
23 21 13 23-1369 LF 2" Black Schedule 10 Grooved Pipe.....	34.11	16.47
23 21 13 23-1370 LF 2-1/2" Black Schedule 10 Grooved Pipe.....	46.14	22.57



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include pipe specifications for Schedule 40 and Schedule 80 in both black and galvanized steel.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1440 Painted Grooved-Joint Pipe Fittings <small>(23 21 13 23)</small> Note: Couplings are not included with fittings.		
23 21 13 23-1441 Grooved Elbows <small>(23 21 13 23-1440)</small>		
23 21 13 23-1442 90 Degree Grooved Elbows <small>(23 21 13 23-1441)</small> Note: Victaulic No. 10		
23 21 13 23-1443 EA 3/4", Ductile Iron, Grooved 90 Degree Elbow .....107.15		14.14
<i>For Galvanized Fittings, Add</i> .....28.37		
23 21 13 23-1444 EA 1", Ductile Iron, Grooved 90 Degree Elbow .....107.15		14.14
<i>For Galvanized Fittings, Add</i> .....28.37		
23 21 13 23-1445 EA 1-1/4", Ductile Iron, Grooved 90 Degree Elbow .....112.45		17.64
<i>For Galvanized Fittings, Add</i> .....28.37		
23 21 13 23-1446 EA 1-1/2", Ductile Iron, Grooved 90 Degree Elbow .....118.06		21.40
<i>For Galvanized Fittings, Add</i> .....28.37		
23 21 13 23-1447 EA 2", Ductile Iron, Grooved 90 Degree Elbow .....128.34		28.27
<i>For Galvanized Fittings, Add</i> .....28.37		
23 21 13 23-1448 EA 2-1/2", Ductile Iron, Grooved 90 Degree Elbow .....137.58		34.50
<i>For Galvanized Fittings, Add</i> .....28.37		
23 21 13 23-1449 EA 3", Ductile Iron, Grooved 90 Degree Elbow .....215.29		41.75
<i>For Galvanized Fittings, Add</i> .....50.39		
23 21 13 23-1450 EA 4", Ductile Iron, Grooved 90 Degree Elbow .....248.93		55.11
<i>For Galvanized Fittings, Add</i> .....54.89		
23 21 13 23-1451 EA 5", Ductile Iron, Grooved 90 Degree Elbow .....508.12		68.85
<i>For Galvanized Fittings, Add</i> .....133.61		
23 21 13 23-1452 EA 6", Ductile Iron, Grooved 90 Degree Elbow .....605.61		90.12
<i>For Galvanized Fittings, Add</i> .....155.27		
23 21 13 23-1453 EA 8", Ductile Iron, Grooved 90 Degree Elbow .....1,151.12		107.25
<i>For Galvanized Fittings, Add</i> .....326.80		
23 21 13 23-1454 EA 10", Ductile Iron, Grooved 90 Degree Elbow .....1,730.52		125.13
<i>For Galvanized Fittings, Add</i> .....509.16		
23 21 13 23-1455 EA 12", Ductile Iron, Grooved 90 Degree Elbow .....2,698.17		150.16
<i>For Galvanized Fittings, Add</i> .....816.10		
23 21 13 23-1456 EA 14", Steel, Grooved 90 Degree Elbow .....5,397.19		169.49
<i>For Galvanized Fittings, Add</i> .....1,697.20		
23 21 13 23-1457 EA 16", Steel, Grooved 90 Degree Elbow .....7,011.08		187.64
<i>For Galvanized Fittings, Add</i> .....2,220.80		
23 21 13 23-1458 EA 18", Steel, Grooved 90 Degree Elbow .....8,842.54		205.01
<i>For Galvanized Fittings, Add</i> .....2,816.62		
23 21 13 23-1459 EA 20", Steel, Grooved 90 Degree Elbow .....11,535.87		213.18
<i>For Galvanized Fittings, Add</i> .....3,701.33		
23 21 13 23-1460 EA 24", Steel, Grooved 90 Degree Elbow .....16,518.16		252.09
<i>For Galvanized Fittings, Add</i> .....5,326.31		
23 21 13 23-1461 45 Degree Grooved Elbows <small>(23 21 13 23-1441)</small> Note: Victaulic No. 11		
23 21 13 23-1462 EA 3/4", Ductile Iron, Grooved 45 Degree Elbow .....107.09		14.14
<i>For Galvanized Fittings, Add</i> .....20.62		
23 21 13 23-1463 EA 1", Ductile Iron, Grooved 45 Degree Elbow .....107.09		14.14
<i>For Galvanized Fittings, Add</i> .....20.62		
23 21 13 23-1464 EA 1-1/4", Ductile Iron, Grooved 45 Degree Elbow .....112.39		17.64
<i>For Galvanized Fittings, Add</i> .....20.62		
23 21 13 23-1465 EA 1-1/2", Ductile Iron, Grooved 45 Degree Elbow .....118.00		21.40
<i>For Galvanized Fittings, Add</i> .....20.62		
23 21 13 23-1466 EA 2", Ductile Iron, Grooved 45 Degree Elbow .....128.28		28.27
<i>For Galvanized Fittings, Add</i> .....20.62		
23 21 13 23-1467 EA 2-1/2", Ductile Iron, Grooved 45 Degree Elbow .....137.52		34.50
<i>For Galvanized Fittings, Add</i> .....20.62		
23 21 13 23-1468 EA 3", Ductile Iron, Grooved 45 Degree Elbow .....215.23		41.75
<i>For Galvanized Fittings, Add</i> .....36.64		
23 21 13 23-1469 EA 4", Ductile Iron, Grooved 45 Degree Elbow .....248.93		55.11
<i>For Galvanized Fittings, Add</i> .....39.92		
23 21 13 23-1470 EA 5", Ductile Iron, Grooved 45 Degree Elbow .....508.12		68.85
<i>For Galvanized Fittings, Add</i> .....97.17		
23 21 13 23-1471 EA 6", Ductile Iron, Grooved 45 Degree Elbow .....605.61		90.12
<i>For Galvanized Fittings, Add</i> .....112.93		
23 21 13 23-1472 EA 8", Ductile Iron, Grooved 45 Degree Elbow .....1,151.12		107.25
<i>For Galvanized Fittings, Add</i> .....237.67		
23 21 13 23-1473 EA 10", Ductile Iron, Grooved 45 Degree Elbow .....1,730.52		125.13
<i>For Galvanized Fittings, Add</i> .....370.30		
23 21 13 23-1474 EA 12", Ductile Iron, Grooved 45 Degree Elbow .....2,698.17		150.16
<i>For Galvanized Fittings, Add</i> .....593.53		
23 21 13 23-1475 EA 14", Steel, Grooved 45 Degree Elbow .....5,397.19		169.49
<i>For Galvanized Fittings, Add</i> .....1,234.32		
23 21 13 23-1476 EA 16", Steel, Grooved 45 Degree Elbow .....7,011.08		187.64
<i>For Galvanized Fittings, Add</i> .....1,615.13		
23 21 13 23-1477 EA 18", Steel, Grooved 45 Degree Elbow .....8,842.54		205.01
<i>For Galvanized Fittings, Add</i> .....2,048.45		
23 21 13 23-1478 EA 20", Steel, Grooved 45 Degree Elbow .....11,536.44		213.58
<i>For Galvanized Fittings, Add</i> .....2,691.88		
23 21 13 23-1479 EA 24", Steel, Grooved 45 Degree Elbow .....16,518.16		252.09
<i>For Galvanized Fittings, Add</i> .....3,873.68		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1480 22-1/2 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 12		
23 21 13 23-1481 EA 1", Ductile Iron, Grooved 22-1/2 Degree Elbow 112.75	112.75	14.14
For Galvanized Fittings, Add	21.97	
23 21 13 23-1482 EA 1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow 118.05	118.05	17.64
For Galvanized Fittings, Add	21.97	
23 21 13 23-1483 EA 1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow 123.66	123.66	21.40
For Galvanized Fittings, Add	21.97	
23 21 13 23-1484 EA 2", Ductile Iron, Grooved 22-1/2 Degree Elbow 133.94	133.94	28.27
For Galvanized Fittings, Add	21.97	
23 21 13 23-1485 EA 2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow 143.18	143.18	34.50
For Galvanized Fittings, Add	21.97	
23 21 13 23-1486 EA 3", Ductile Iron, Grooved 22-1/2 Degree Elbow 196.49	196.49	41.75
For Galvanized Fittings, Add	32.14	
23 21 13 23-1487 EA 4", Ductile Iron, Grooved 22-1/2 Degree Elbow 262.16	262.16	55.11
For Galvanized Fittings, Add	43.09	
23 21 13 23-1488 EA 5", Ductile Iron, Grooved 22-1/2 Degree Elbow 660.07	660.07	68.85
For Galvanized Fittings, Add	133.64	
23 21 13 23-1489 EA 6", Ductile Iron, Grooved 22-1/2 Degree Elbow 643.77	643.77	90.12
For Galvanized Fittings, Add	122.09	
23 21 13 23-1490 EA 8", Ductile Iron, Grooved 22-1/2 Degree Elbow 1,225.15	1,225.15	107.25
For Galvanized Fittings, Add	255.44	
23 21 13 23-1491 EA 10", Steel, Grooved 22-1/2 Degree Elbow 1,648.82	1,648.82	125.13
For Galvanized Fittings, Add	350.69	
23 21 13 23-1492 EA 12", Steel, Grooved 22-1/2 Degree Elbow 2,200.56	2,200.56	150.16
For Galvanized Fittings, Add	474.10	
23 21 13 23-1493 EA 14", Steel, Grooved 22-1/2 Degree Elbow 2,535.83	2,535.83	169.49
For Galvanized Fittings, Add	547.60	
23 21 13 23-1494 EA 16", Steel, Grooved 22-1/2 Degree Elbow 3,017.93	3,017.93	187.64
For Galvanized Fittings, Add	656.77	
23 21 13 23-1495 EA 18", Steel, Grooved 22-1/2 Degree Elbow 3,621.48	3,621.48	205.01
For Galvanized Fittings, Add	795.40	
23 21 13 23-1496 EA 20", Steel, Grooved 22-1/2 Degree Elbow 4,237.93	4,237.93	213.18
For Galvanized Fittings, Add	940.37	
23 21 13 23-1497 EA 24", Steel, Grooved 22-1/2 Degree Elbow 5,643.08	5,643.08	252.09
For Galvanized Fittings, Add	1,263.66	
23 21 13 23-1498 11-1/4 Degree Grooved Elbows (23 21 13 23-1441)		
Note: Victaulic No. 13		
23 21 13 23-1499 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow 112.75	112.75	14.14
For Galvanized Fittings, Add	21.97	
23 21 13 23-1500 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow 118.05	118.05	17.64
For Galvanized Fittings, Add	21.97	
23 21 13 23-1501 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow 123.66	123.66	21.40
For Galvanized Fittings, Add	21.97	
23 21 13 23-1502 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow 133.94	133.94	28.27
For Galvanized Fittings, Add	21.97	
23 21 13 23-1503 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow 143.18	143.18	34.50
For Galvanized Fittings, Add	21.97	
23 21 13 23-1504 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow 196.48	196.48	41.75
For Galvanized Fittings, Add	32.14	
23 21 13 23-1505 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow 262.15	262.15	55.11
For Galvanized Fittings, Add	43.09	
23 21 13 23-1506 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow 660.05	660.05	68.85
For Galvanized Fittings, Add	133.63	
23 21 13 23-1507 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow 643.74	643.74	90.12
For Galvanized Fittings, Add	122.08	
23 21 13 23-1508 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow 1,225.08	1,225.08	107.25
For Galvanized Fittings, Add	255.42	
23 21 13 23-1509 EA 10", Steel, Grooved 11-1/4 Degree Elbow 1,648.74	1,648.74	125.13
For Galvanized Fittings, Add	350.67	
23 21 13 23-1510 EA 12", Steel, Grooved 11-1/4 Degree Elbow 2,200.45	2,200.45	150.16
For Galvanized Fittings, Add	474.07	
23 21 13 23-1511 EA 14", Steel, Grooved 11-1/4 Degree Elbow 2,535.72	2,535.72	169.49
For Galvanized Fittings, Add	547.57	
23 21 13 23-1512 EA 16", Steel, Grooved 11-1/4 Degree Elbow 3,017.82	3,017.82	187.77
For Galvanized Fittings, Add	656.73	
23 21 13 23-1513 EA 18", Steel, Grooved 11-1/4 Degree Elbow 3,621.27	3,621.27	205.01
For Galvanized Fittings, Add	795.36	
23 21 13 23-1514 EA 20", Steel, Grooved 11-1/4 Degree Elbow 4,237.71	4,237.71	213.18
For Galvanized Fittings, Add	940.32	
23 21 13 23-1515 EA 24", Steel, Grooved 11-1/4 Degree Elbow 5,642.80	5,642.80	252.09
For Galvanized Fittings, Add	1,263.59	
23 21 13 23-1516 90 Degree Grooved Long Radius Elbows (23 21 13 23-1441)		
Note: Victaulic No. 100		
23 21 13 23-1517 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow 238.90	238.90	28.27
For Galvanized Fittings, Add	47.16	
23 21 13 23-1518 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow 621.86	621.86	34.50
For Galvanized Fittings, Add	136.86	
23 21 13 23-1519 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow 259.10	259.10	41.75
For Galvanized Fittings, Add	47.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1520	EA	4", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	376.99 70.65	55.11
23 21	13 23-1521	EA	5", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	1,612.16 362.14	68.85
23 21	13 23-1522	EA	6", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	996.29 206.69	90.12
23 21	13 23-1523	EA	8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	2,226.55 495.78	107.25
23 21	13 23-1524	EA	10", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	4,470.76 1,027.96	125.13
23 21	13 23-1525	EA	12", Ductile Iron, Grooved 90 Degree Long Radius Elbow <i>For Galvanized Fittings, Add</i>	5,332.80 1,225.84	150.16
23 21	13 23-1526		Grooved Tees, Wyes And Crosses (23 21 13 23-1440)		
23 21	13 23-1527		Grooved Tees (23 21 13 23-1526) Note: Victaulic No. 20		
23 21	13 23-1528	EA	3/4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	159.23 39.41	18.54
23 21	13 23-1529	EA	1", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	163.45 39.41	21.40
23 21	13 23-1530	EA	1-1/4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	170.59 39.41	26.20
23 21	13 23-1531	EA	1-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	179.51 39.41	32.16
23 21	13 23-1532	EA	2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	193.67 39.41	41.63
23 21	13 23-1533	EA	2-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	207.83 39.41	50.97
23 21	13 23-1534	EA	3", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	277.86 55.20	62.64
23 21	13 23-1535	EA	4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	403.71 84.68	81.05
23 21	13 23-1536	EA	5", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	821.04 198.66	105.95
23 21	13 23-1537	EA	6", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	963.98 229.60	132.53
23 21	13 23-1538	EA	8", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	1,913.00 501.54	160.93
23 21	13 23-1539	EA	10", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	3,266.75 895.60	187.64
23 21	13 23-1540	EA	12", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	4,517.16 1,253.84	225.25
23 21	13 23-1541	EA	14", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	4,934.64 1,367.83	250.28
23 21	13 23-1542	EA	16", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	6,185.20 1,742.35	251.69
23 21	13 23-1543	EA	18", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	7,689.59 2,182.01	277.63
23 21	13 23-1544	EA	20", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	10,844.32 3,126.46	282.05
23 21	13 23-1545	EA	24", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	16,531.81 4,803.68	346.50
23 21	13 23-1546		Grooved Wyes (90 Degree True Wye) (23 21 13 23-1526) Note: Victaulic No. 33		
23 21	13 23-1547	EA	1", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	586.32 88.68	21.40
23 21	13 23-1548	EA	1-1/4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	593.46 88.68	26.20
23 21	13 23-1549	EA	1-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	602.38 88.68	32.16
23 21	13 23-1550	EA	2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	616.54 88.68	41.63
23 21	13 23-1551	EA	2-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	630.70 88.68	50.97
23 21	13 23-1552	EA	3", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	756.34 106.00	62.64
23 21	13 23-1553	EA	4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	989.20 138.84	81.05
23 21	13 23-1554	EA	5", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,402.62 199.00	105.95
23 21	13 23-1555	EA	6", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,737.56 246.23	132.53
23 21	13 23-1556	EA	8", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	2,457.67 354.63	160.93
23 21	13 23-1557	EA	10", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	4,106.98 612.09	187.64
23 21	13 23-1558	EA	12", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	4,564.06 676.22	225.25
23 21	13 23-1559	EA	14", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	5,201.26 772.17	250.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1560 EA 16", Steel, Grooved Wye	6,645.37	251.44
For Galvanized Fittings, Add	1,002.95	
23 21 13 23-1561 EA 18", Steel, Grooved Wye	7,587.01	277.89
For Galvanized Fittings, Add	1,147.25	
23 21 13 23-1562 EA 20", Steel, Grooved Wye	10,821.52	281.52
For Galvanized Fittings, Add	1,663.90	
23 21 13 23-1563 EA 24", Steel, Grooved Wye	16,687.69	346.50
For Galvanized Fittings, Add	2,586.90	
23 21 13 23-1564 Grooved Crosses (23 21 13 23-1526)		
Note: Victaulic No. 35		
23 21 13 23-1565 EA 3/4", Steel, Grooved Cross	400.64	27.88
For Galvanized Fittings, Add	53.82	
23 21 13 23-1566 EA 1", Steel, Grooved Cross	406.98	32.16
For Galvanized Fittings, Add	53.82	
23 21 13 23-1567 EA 1-1/4", Steel, Grooved Cross	491.92	39.30
For Galvanized Fittings, Add	64.96	
23 21 13 23-1568 EA 1-1/2", Steel, Grooved Cross	538.88	48.24
For Galvanized Fittings, Add	70.00	
23 21 13 23-1569 EA 2", Steel, Grooved Cross	357.20	62.38
For Galvanized Fittings, Add	39.56	
23 21 13 23-1570 EA 2-1/2", Steel, Grooved Cross	378.44	76.51
For Galvanized Fittings, Add	39.56	
23 21 13 23-1571 EA 3", Steel, Grooved Cross	614.68	93.89
For Galvanized Fittings, Add	71.08	
23 21 13 23-1572 EA 4", Steel, Grooved Cross	971.05	121.50
For Galvanized Fittings, Add	118.33	
23 21 13 23-1573 EA 5", Steel, Grooved Cross	1,849.83	158.86
For Galvanized Fittings, Add	241.74	
23 21 13 23-1574 EA 6", Steel, Grooved Cross	2,371.41	198.80
For Galvanized Fittings, Add	311.02	
23 21 13 23-1575 EA 8", Steel, Grooved Cross	3,092.55	241.32
For Galvanized Fittings, Add	409.61	
23 21 13 23-1576 EA 10", Steel, Grooved Cross	5,079.54	281.52
For Galvanized Fittings, Add	698.61	
23 21 13 23-1577 EA 12", Steel, Grooved Cross	7,227.58	337.93
For Galvanized Fittings, Add	1,008.15	
23 21 13 23-1578 EA 14", Steel, Grooved Cross	7,526.16	375.41
For Galvanized Fittings, Add	1,044.50	
23 21 13 23-1579 EA 16", Steel, Grooved Cross	9,675.22	377.61
For Galvanized Fittings, Add	1,366.37	
23 21 13 23-1580 EA 18", Steel, Grooved Cross	11,789.95	416.39
For Galvanized Fittings, Add	1,674.85	
23 21 13 23-1581 EA 20", Steel, Grooved Cross	16,452.65	422.88
For Galvanized Fittings, Add	2,372.79	
23 21 13 23-1582 EA 24", Steel, Grooved Cross	25,199.72	519.74
For Galvanized Fittings, Add	3,663.06	
23 21 13 23-1583 Grooved Reducing Tees (23 21 13 23-1526)		
Note: Victaulic No. 25		
23 21 13 23-1584 EA 1", Steel, Grooved Reducing Tee	285.55	21.40
For Galvanized Fittings, Add	50.69	
23 21 13 23-1585 EA 1-1/4", Steel, Grooved Reducing Tee	300.65	26.20
For Galvanized Fittings, Add	52.28	
23 21 13 23-1586 EA 1-1/2", Steel, Grooved Reducing Tee	316.08	32.16
For Galvanized Fittings, Add	53.58	
23 21 13 23-1587 EA 2", Steel, Grooved Reducing Tee	375.98	41.63
For Galvanized Fittings, Add	62.73	
23 21 13 23-1588 EA 2-1/2", Steel, Grooved Reducing Tee	422.42	50.97
For Galvanized Fittings, Add	69.19	
23 21 13 23-1589 EA 3", Steel, Grooved Reducing Tee	472.50	62.64
For Galvanized Fittings, Add	75.73	
23 21 13 23-1590 EA 4", Steel, Grooved Reducing Tee	632.12	81.05
For Galvanized Fittings, Add	102.13	
23 21 13 23-1591 EA 5", Steel, Grooved Reducing Tee	833.13	105.95
For Galvanized Fittings, Add	134.86	
23 21 13 23-1592 EA 6", Steel, Grooved Reducing Tee	1,147.20	132.53
For Galvanized Fittings, Add	189.71	
23 21 13 23-1593 EA 8", Steel, Grooved Reducing Tee	1,806.32	160.93
For Galvanized Fittings, Add	313.02	
23 21 13 23-1594 EA 10", Steel, Grooved Reducing Tee	2,588.71	187.64
For Galvanized Fittings, Add	461.46	
23 21 13 23-1595 EA 12", Steel, Grooved Reducing Tee	3,741.34	225.25
For Galvanized Fittings, Add	680.73	
23 21 13 23-1596 EA 14", Steel, Grooved Reducing Tee	4,241.03	250.28
For Galvanized Fittings, Add	773.16	
23 21 13 23-1597 EA 16", Steel, Grooved Reducing Tee	5,398.99	251.69
For Galvanized Fittings, Add	1,004.32	
23 21 13 23-1598 EA 18", Steel, Grooved Reducing Tee	6,563.85	277.63
For Galvanized Fittings, Add	1,229.54	
23 21 13 23-1599 EA 20", Steel, Grooved Reducing Tee	9,214.98	281.92
For Galvanized Fittings, Add	1,758.46	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1600	EA	24", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	14,682.13 2,832.52	346.50
23 21	13 23-1601		Grooved 45 Degree Lateral Wyes <small>(23 21 13 23-1626)</small> Note: Victaulic No. 30		
23 21	13 23-1602	EA	3/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	552.73 94.47	18.54
23 21	13 23-1603	EA	1", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	556.95 94.47	21.40
23 21	13 23-1604	EA	1-1/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	564.09 94.47	26.20
23 21	13 23-1605	EA	1-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	573.01 94.47	32.16
23 21	13 23-1606	EA	2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	587.17 94.47	41.63
23 21	13 23-1607	EA	2-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	601.33 94.47	50.97
23 21	13 23-1608	EA	3", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	547.28 81.62	62.64
23 21	13 23-1609	EA	3-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	876.42 138.28	72.22
23 21	13 23-1610	EA	4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	1,015.69 160.96	81.05
23 21	13 23-1611	EA	5", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	1,465.71 235.24	105.95
23 21	13 23-1612	EA	6", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	2,304.25 379.01	132.53
23 21	13 23-1613	EA	8", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	3,274.05 545.91	160.93
23 21	13 23-1614	EA	10", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	4,562.20 770.54	187.64
23 21	13 23-1615	EA	12", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	5,513.36 931.62	225.25
23 21	13 23-1616	EA	14", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	7,929.44 1,359.76	250.28
23 21	13 23-1617	EA	16", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	9,814.65 1,698.71	251.69
23 21	13 23-1618	EA	18", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	10,965.86 1,898.95	277.63
23 21	13 23-1619	EA	20", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	16,424.81 2,880.39	281.92
23 21	13 23-1620	EA	24", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	25,385.67 4,475.90	346.50
23 21	13 23-1621		Grooved 45 Degree Lateral Reducing Wyes <small>(23 21 13 23-1626)</small> Note: Victaulic No. 30R		
23 21	13 23-1622	EA	3", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	547.28 58.95	62.64
23 21	13 23-1623	EA	4", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,015.69 116.25	81.05
23 21	13 23-1624	EA	5", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,465.71 169.89	105.95
23 21	13 23-1625	EA	6", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,887.13 219.50	132.53
23 21	13 23-1626	EA	8", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	2,678.69 316.87	160.93
23 21	13 23-1627	EA	10", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	3,266.63 388.08	187.64
23 21	13 23-1628	EA	12", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	3,965.47 471.61	225.25
23 21	13 23-1629	EA	14", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	4,439.25 528.32	250.28
23 21	13 23-1630	EA	16", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	5,630.52 682.91	251.69
23 21	13 23-1631	EA	18", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	8,482.33 1,048.60	277.63
23 21	13 23-1632	EA	20", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	12,229.45 1,534.88	281.92
23 21	13 23-1633	EA	24", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	19,635.16 2,485.03	346.50
23 21	13 23-1634		Mechanical-T Outlet <small>(23 21 13 23-1526)</small> Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21	13 23-1635	EA	2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	180.64 21.65	46.68
23 21	13 23-1636	EA	2" x 1" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	180.64 21.65	46.68
23 21	13 23-1637	EA	2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	194.27 25.03	46.68
23 21	13 23-1638	EA	2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	194.27	46.68
23 21	13 23-1639	EA	2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	192.31	52.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1640 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	192.31	52.52
23 21 13 23-1641 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	228.29	52.52
23 21 13 23-1642 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	217.22	58.35
23 21 13 23-1643 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	217.22	58.35
23 21 13 23-1644 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	246.18	58.35
23 21 13 23-1645 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	246.18	58.35
23 21 13 23-1646 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	266.02	58.35
23 21 13 23-1647 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	283.76	77.81
23 21 13 23-1648 EA 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	283.76	77.81
23 21 13 23-1649 EA 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	306.37	77.81
23 21 13 23-1650 EA 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	312.72	77.81
23 21 13 23-1651 EA 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	312.72	77.81
23 21 13 23-1652 EA 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	319.07	77.81
23 21 13 23-1653 EA 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	331.24	77.81
23 21 13 23-1654 EA 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.92	106.98
23 21 13 23-1655 EA 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.92	106.98
23 21 13 23-1656 EA 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	417.90	106.98
23 21 13 23-1657 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	431.65	106.98
23 21 13 23-1658 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	469.77	136.16
23 21 13 23-1659 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	469.77	136.16
23 21 13 23-1660 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	485.90	136.16
23 21 13 23-1661 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	499.53	136.16
23 21 13 23-1662 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	523.73	136.16
23 21 13 23-1663 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	709.90	180.24
23 21 13 23-1664 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	709.90	180.24
23 21 13 23-1665 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	729.35	180.24
23 21 13 23-1666 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	740.85	180.24
23 21 13 23-1667 Installation-Ready™ Grooved Fittings <small>(23 21 13 23-1440)</small>		
23 21 13 23-1668 Installation-Ready™ 90 Degree Grooved Elbows <small>(23 21 13 23-1667)</small>		
<i>Note: Victaulic No. 101</i>		
23 21 13 23-1669 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	218.09	12.84
<i>For Galvanized Fittings, Add</i>		65.55
<i>For Galvanized Fittings, Add</i>		50.85
23 21 13 23-1670 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	227.83	15.40
<i>For Galvanized Fittings, Add</i>		67.48
<i>For Galvanized Fittings, Add</i>		52.35
23 21 13 23-1671 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	237.07	20.54
<i>For Galvanized Fittings, Add</i>		67.96
<i>For Galvanized Fittings, Add</i>		52.72
23 21 13 23-1672 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	287.20	25.67
<i>For Galvanized Fittings, Add</i>		81.94
<i>For Galvanized Fittings, Add</i>		63.56
23 21 13 23-1673 Installation-Ready™ 45 Degree Grooved Elbows <small>(23 21 13 23-1667)</small>		
<i>Note: Victaulic No. 103</i>		
23 21 13 23-1674 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	218.09	12.84
<i>For Galvanized Fittings, Add</i>		47.67
<i>For Galvanized Fittings, Add</i>		50.85
23 21 13 23-1675 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	227.83	15.40
<i>For Galvanized Fittings, Add</i>		49.08
<i>For Galvanized Fittings, Add</i>		52.35
23 21 13 23-1676 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	237.07	20.54
<i>For Galvanized Fittings, Add</i>		49.43
<i>For Galvanized Fittings, Add</i>		52.72
23 21 13 23-1677 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	287.20	25.67
<i>For Galvanized Fittings, Add</i>		59.59
<i>For Galvanized Fittings, Add</i>		63.56
23 21 13 23-1678 Installation-Ready™ Grooved Tees <small>(23 21 13 23-1667)</small>		
<i>Note: Victaulic No. 102</i>		
23 21 13 23-1679 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee.....	332.67	17.11
<i>For Galvanized Fittings, Add</i>		92.02
<i>For Galvanized Fittings, Add</i>		78.52
23 21 13 23-1680 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	348.07	20.54
<i>For Galvanized Fittings, Add</i>		95.09
<i>For Galvanized Fittings, Add</i>		81.14
23 21 13 23-1681 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	362.83	27.38
<i>For Galvanized Fittings, Add</i>		96.40
<i>For Galvanized Fittings, Add</i>		82.26
23 21 13 23-1682 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	422.86	34.24
<i>For Galvanized Fittings, Add</i>		111.30
<i>For Galvanized Fittings, Add</i>		94.97
23 21 13 23-1683 Grooved Fittings <small>(23 21 13 23-1440)</small>		
23 21 13 23-1684 Flanged Adapter Nipple, Grooved <small>(23 21 13 23-1683)</small>		
<i>Note: Victaulic No. 41 and 45</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1685	EA	1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	392.71 66.49 55.41	15.56
23 21	13 23-1686	EA	1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	395.31 66.49 55.41	17.24
23 21	13 23-1687	EA	1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	401.79 66.49 55.41	21.66
23 21	13 23-1688	EA	2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	415.44 66.49 55.41	30.73
23 21	13 23-1689	EA	2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	425.18 66.49 55.41	37.21
23 21	13 23-1690	EA	3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	539.24 85.07 70.89	44.48
23 21	13 23-1691	EA	4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	653.44 101.46 84.55	59.91
23 21	13 23-1692	EA	5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	914.10 144.98 120.81	72.49
23 21	13 23-1693	EA	6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	1,065.78 165.41 137.84	97.91
23 21	13 23-1694	EA	8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	1,467.11 228.32 190.27	132.53
23 21	13 23-1695	EA	10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	2,311.16 372.59 310.49	160.93
23 21	13 23-1696	EA	12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	3,111.68 509.45 424.54	187.64
23 21	13 23-1697	EA	14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	3,675.34 600.78 500.65	225.25
23 21	13 23-1698	EA	16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	5,515.27 925.21 771.01	250.28
23 21	13 23-1699	EA	18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	6,600.23 1,086.73 905.61	375.41
23 21	13 23-1700	EA	20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	6,968.33 1,132.73 943.94	450.49
23 21	13 23-1701	EA	24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	11,606.53 1,954.10 1,628.41	500.54
23 21	13 23-1702	Grooved Concentric Reducers (23 21 13 23-1683) Note: Victaulic No. 50			
23 21	13 23-1703	EA	1-1/4" x 3/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	417.31 17.33	15.56
23 21	13 23-1704	EA	1-1/4" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	436.37 18.12	16.47
23 21	13 23-1705	EA	1-1/2" x 3/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	491.58 55.89	17.77
23 21	13 23-1706	EA	1-1/2" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	491.58 11.97	18.54
23 21	13 23-1707	EA	1-1/2" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	414.60 46.33	19.45
23 21	13 23-1708	EA	2" x 3/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	131.35 11.97	21.14
23 21	13 23-1709	EA	2" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	132.65 11.97	22.04
23 21	13 23-1710	EA	2" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	143.95 13.17	22.95
23 21	13 23-1711	EA	2" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	137.91 11.97	25.54
23 21	13 23-1712	EA	2-1/2" x 3/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	846.21 97.41	23.86
23 21	13 23-1713	EA	2-1/2" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	672.79 76.42	24.77
23 21	13 23-1714	EA	2-1/2" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	613.83 69.18	25.54
23 21	13 23-1715	EA	2-1/2" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	141.72 11.97	28.14
23 21	13 23-1716	EA	2-1/2" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	146.90 11.97	31.51
23 21	13 23-1717	EA	3" x 3/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	857.24 123.98	27.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1718 EA 3" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	152.71 16.72	28.53
23 21 13 23-1719 EA 3" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	675.85 96.03	29.44
23 21 13 23-1720 EA 3" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	634.39 89.23	31.51
23 21 13 23-1721 EA 3" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	139.86 13.28	35.01
23 21 13 23-1722 EA 3" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	182.94 18.29	41.75
23 21 13 23-1723 EA 3-1/2" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	195.68 19.49	45.00
23 21 13 23-1724 EA 4" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	185.37 22.67	35.40
23 21 13 23-1725 EA 4" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,099.57 179.23	36.31
23 21 13 23-1726 EA 4" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	856.71 137.03	38.51
23 21 13 23-1727 EA 4" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	179.18 19.94	42.01
23 21 13 23-1728 EA 4" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	213.20 25.00	45.00
23 21 13 23-1729 EA 4" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	218.38 25.00	48.50
23 21 13 23-1730 EA 4" x 3-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	223.57 25.00	51.87
23 21 13 23-1731 EA 5" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,544.06 252.24	48.88
23 21 13 23-1732 EA 5" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,218.95 195.70	51.87
23 21 13 23-1733 EA 5" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	253.61 29.26	55.37
23 21 13 23-1734 EA 5" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	297.13 34.94	62.24
23 21 13 23-1735 EA 6" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	350.09 50.56	52.78
23 21 13 23-1736 EA 6" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,630.05 288.56	55.76
23 21 13 23-1737 EA 6" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	359.79 50.56	59.26
23 21 13 23-1738 EA 6" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,648.60 290.21	62.24
23 21 13 23-1739 EA 6" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	369.54 50.56	65.75
23 21 13 23-1740 EA 6" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	344.93 44.04	72.62
23 21 13 23-1741 EA 6" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	468.43 65.14	79.62
23 21 13 23-1742 EA 8" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	595.73 90.35	74.44
23 21 13 23-1743 EA 8" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	606.08 90.35	81.31
23 21 13 23-1744 EA 8" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	616.48 90.35	88.18
23 21 13 23-1745 EA 8" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	765.29 115.22	98.55
23 21 13 23-1746 EA 10" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,288.37 215.12	90.38
23 21 13 23-1747 EA 10" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,687.17 474.20	97.26
23 21 13 23-1748 EA 10" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,422.15 235.25	107.63
23 21 13 23-1749 EA 10" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,435.09 235.25	116.32
23 21 13 23-1750 EA 12" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	3,970.61 572.45	102.96
23 21 13 23-1751 EA 12" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,683.86 225.55	120.21
23 21 13 23-1752 EA 12" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,451.92 338.81	128.90
23 21 13 23-1753 EA 12" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,465.61 338.81	137.97
23 21 13 23-1754 EA 14" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,858.04 235.28	129.55
23 21 13 23-1755 EA 14" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,705.64 138.10	138.23
23 21 13 23-1756 EA 14" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,019.00 116.60	147.31
23 21 13 23-1757 EA 14" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,037.76 116.60	159.76
23 21 13 23-1758 EA 16" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,151.98 212.78	147.44
23 21 13 23-1759 EA 16" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,642.71 196.72	156.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1760	EA	16" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,148.94 180.99	169.10
23 21	13 23-1761	EA	16" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,162.95 180.99	178.43
23 21	13 23-1762	EA	18" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	9,296.20 277.79	165.20
23 21	13 23-1763	EA	18" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,425.04 250.47	177.66
23 21	13 23-1764	EA	18" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,666.42 226.75	187.00
23 21	13 23-1765	EA	18" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,680.43 226.75	196.46
23 21	13 23-1766	EA	20" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	10,228.54 306.22	169.49
23 21	13 23-1767	EA	20" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,776.84 261.07	182.07
23 21	13 23-1768	EA	20" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,790.86 261.07	191.40
23 21	13 23-1769	EA	20" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,845.22 231.62	200.61
23 21	13 23-1770	EA	20" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,359.10 246.99	209.30
23 21	13 23-1771	EA	24" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	22,509.37 682.36	188.54
23 21	13 23-1772	EA	24" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	21,991.49 665.88	201.13
23 21	13 23-1773	EA	24" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	19,173.16 578.93	210.34
23 21	13 23-1774	EA	24" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	19,187.26 578.93	219.80
23 21	13 23-1775	EA	24" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	16,438.52 494.15	228.35
23 21	13 23-1776	EA	24" x 20", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	15,019.36 450.38	232.77
23 21 13 23-1777 Grooved Eccentric Reducers (23 21 13 23-1683)					
Note: Victaulic No. 51					
23 21	13 23-1778	EA	1-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	507.63 57.82	17.77
23 21	13 23-1779	EA	1-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	462.10 52.19	18.54
23 21	13 23-1780	EA	1-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	453.93 51.05	19.45
23 21	13 23-1781	EA	2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	966.51 112.36	21.14
23 21	13 23-1782	EA	2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	512.54 57.63	22.04
23 21	13 23-1783	EA	2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	560.01 63.18	22.95
23 21	13 23-1784	EA	2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	478.34 52.89	25.54
23 21	13 23-1785	EA	2-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,255.97 146.67	23.86
23 21	13 23-1786	EA	2-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,173.84 136.64	24.77
23 21	13 23-1787	EA	2-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	698.54 79.36	25.54
23 21	13 23-1788	EA	2-1/2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	565.28 62.88	28.14
23 21	13 23-1789	EA	2-1/2" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	258.05 25.33	31.51
23 21	13 23-1790	EA	3" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,262.14 146.57	28.53
23 21	13 23-1791	EA	3" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,147.95 132.69	29.44
23 21	13 23-1792	EA	3" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	652.42 72.73	31.51
23 21	13 23-1793	EA	3" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	294.69 29.11	35.01
23 21	13 23-1794	EA	3" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	304.75 29.11	41.75
23 21	13 23-1795	EA	3-1/2" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,407.19 161.04	45.00
23 21	13 23-1796	EA	4" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,524.85 423.89	35.40
23 21	13 23-1797	EA	4" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,552.57 256.37	38.51
23 21	13 23-1798	EA	4" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	359.00 50.78	42.01
23 21	13 23-1799	EA	4" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	363.55 50.78	45.00
23 21	13 23-1800	EA	4" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	368.73 50.78	48.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1801 EA 5" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,721.64 282.69	48.88
23 21 13 23-1802 EA 5" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,482.17 240.85	51.87
23 21 13 23-1803 EA 5" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,439.47 232.63	55.37
23 21 13 23-1804 EA 5" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	496.68 69.17	62.24
23 21 13 23-1805 EA 6" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,641.56 478.15	52.78
23 21 13 23-1806 EA 6" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,425.66 436.06	59.26
23 21 13 23-1807 EA 6" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,876.02 519.24	62.24
23 21 13 23-1808 EA 6" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	635.52 100.20	65.75
23 21 13 23-1809 EA 6" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	578.94 87.70	72.62
23 21 13 23-1810 EA 6" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	683.11 105.20	79.62
23 21 13 23-1811 EA 8" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,826.69 506.65	74.44
23 21 13 23-1812 EA 8" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,494.76 442.78	81.31
23 21 13 23-1813 EA 8" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,341.53 412.25	88.18
23 21 13 23-1814 EA 8" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,100.86 177.84	98.55
23 21 13 23-1815 EA 10" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,489.85 812.52	90.38
23 21 13 23-1816 EA 10" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,248.31 765.51	97.26
23 21 13 23-1817 EA 10" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	3,255.07 577.27	107.63
23 21 13 23-1818 EA 10" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,792.74 488.58	116.32
23 21 13 23-1819 EA 12" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,581.89 668.12	102.96
23 21 13 23-1820 EA 12" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,313.00 623.64	120.21
23 21 13 23-1821 EA 12" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,220.24 607.68	128.90
23 21 13 23-1822 EA 12" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	3,813.92 544.30	137.97
23 21 13 23-1823 EA 14" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,622.01 320.13	129.55
23 21 13 23-1824 EA 14" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	6,873.98 204.67	138.23
23 21 13 23-1825 EA 14" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	6,567.11 194.83	147.31
23 21 13 23-1826 EA 14" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	6,585.87 194.83	159.76
23 21 13 23-1827 EA 16" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	11,737.29 353.55	147.44
23 21 13 23-1828 EA 16" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,876.54 326.70	156.52
23 21 13 23-1829 EA 16" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,252.93 306.98	169.10
23 21 13 23-1830 EA 16" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,266.94 306.98	178.43
23 21 13 23-1831 EA 18" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	14,721.54 444.35	165.20
23 21 13 23-1832 EA 18" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	13,857.35 417.24	177.66
23 21 13 23-1833 EA 18" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	12,628.46 379.08	187.00
23 21 13 23-1834 EA 18" x 16", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	12,642.47 379.08	196.46
23 21 13 23-1835 EA 20" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	19,327.20 585.55	169.49
23 21 13 23-1836 EA 20" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	14,381.07 433.12	182.07
23 21 13 23-1837 EA 20" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	13,513.10 406.04	191.40
23 21 13 23-1838 EA 20" x 16", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	13,312.91 399.47	200.61
23 21 13 23-1839 EA 20" x 18", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	12,827.46 384.17	209.30
23 21 13 23-1840 EA 24" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	27,912.34 847.65	201.13
23 21 13 23-1841 EA 24" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	23,847.65 722.44	210.34
23 21 13 23-1842 EA 24" x 16", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	23,861.75 722.44	219.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1843	EA	24" x 18", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	22,538.81 681.43	228.35
23 21	13 23-1844	EA	24" x 20", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	20,604.39 621.84	232.77
23 21	13 23-1845		Close Nipple, Grooved (23 21 13 23-1683) Note: Victaulic No. 143		
23 21	13 23-1846	EA	1-1/4" Ductile Iron, Grooved, Close Nipple <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	58.56 5.87 4.89 8.35	17.11
23 21	13 23-1847	EA	1-1/2" Ductile Iron, Grooved, Close Nipple <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	67.96 6.40 5.33 9.10	21.40
23 21	13 23-1848	EA	2" Ductile Iron, Grooved, Close Nipple..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	85.64 7.71 6.43 10.97	28.24
23 21	13 23-1849	EA	2-1/2" Ductile Iron, Grooved, Close Nipple <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	102.50 9.11 7.59 12.96	34.24
23 21	13 23-1850		Grooved Couplings (23 21 13 23-1440)		
23 21	13 23-1851		Flexible Grooved Coupling (23 21 13 23-1850) Note: Victaulic Style 77		
23 21	13 23-1852	EA	3/4" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	58.16 13.32	7.00
23 21	13 23-1853	EA	1" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	58.16 13.32	7.00
23 21	13 23-1854	EA	1-1/4" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	76.51 17.72	8.81
23 21	13 23-1855	EA	1-1/2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	84.97 19.36	10.50
23 21	13 23-1856	EA	2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	94.27 20.46	14.14
23 21	13 23-1857	EA	2-1/2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	113.29 24.49	17.24
23 21	13 23-1858	EA	3" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	118.29 24.49	20.61
23 21	13 23-1859	EA	3-1/2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	177.15 39.46	24.12
23 21	13 23-1860	EA	4" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	182.22 39.46	27.50
23 21	13 23-1861	EA	5" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	267.68 60.50	34.50
23 21	13 23-1862	EA	6" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	322.94 71.51	45.00
23 21	13 23-1863	EA	8" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	496.72 116.57	53.68
23 21	13 23-1864	EA	10" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	788.39 193.73	64.32
23 21	13 23-1865	EA	12" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	893.32 220.58	70.41
23 21	13 23-1866	EA	14" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	1,097.74 267.97	93.89
23 21	13 23-1867	EA	16" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	1,424.18 351.49	112.69
23 21	13 23-1868	EA	18" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	1,657.78 411.65	125.13
23 21	13 23-1869	EA	20" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	2,523.88 647.59	140.83
23 21	13 23-1870	EA	24" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	2,796.11 710.18	173.24
23 21	13 23-1871		Zero-Flex® Rigid Coupling (23 21 13 23-1850) Note: Victaulic Style 07		
23 21	13 23-1872	EA	1" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	76.75 16.21	7.00
23 21	13 23-1873	EA	1-1/4" Grooved Rigid Coupling <i>For Galvanized Fittings, Add</i>	79.40 16.21	8.81
23 21	13 23-1874	EA	1-1/2" Grooved Rigid Coupling <i>For Galvanized Fittings, Add</i>	81.98 16.21	10.50
23 21	13 23-1875	EA	2" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	89.04 16.62	14.14
23 21	13 23-1876	EA	2-1/2" Grooved Rigid Coupling <i>For Galvanized Fittings, Add</i>	104.04 19.16	17.24
23 21	13 23-1877	EA	3" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	109.04 19.16	20.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1878 EA 3-1/2" Grooved Rigid Coupling	127.63	24.12
For Galvanized Fittings, Add	22.39	
23 21 13 23-1879 EA 4" Grooved Rigid Coupling	170.82	27.50
For Galvanized Fittings, Add	31.73	
23 21 13 23-1880 EA 5" Grooved Rigid Coupling	219.83	34.50
For Galvanized Fittings, Add	41.21	
23 21 13 23-1881 EA 6" Grooved Rigid Coupling	292.38	45.00
For Galvanized Fittings, Add	55.09	
23 21 13 23-1882 EA 8" Grooved Rigid Coupling	434.63	53.68
For Galvanized Fittings, Add	86.79	
23 21 13 23-1883 EA 10" Grooved Rigid Coupling	731.20	64.32
For Galvanized Fittings, Add	155.51	
23 21 13 23-1884 EA 12" Grooved Rigid Coupling	815.80	70.41
For Galvanized Fittings, Add	174.02	
23 21 13 23-1885 EA 14" Grooved Rigid Coupling	1,068.68	93.89
For Galvanized Fittings, Add	227.35	
23 21 13 23-1886 EA 16" Grooved Rigid Coupling	1,379.13	112.69
For Galvanized Fittings, Add	296.52	
23 21 13 23-1887 EA 18" Grooved Rigid Coupling	1,586.71	125.13
For Galvanized Fittings, Add	342.78	
23 21 13 23-1888 EA 20" Grooved Rigid Coupling	1,876.78	140.83
For Galvanized Fittings, Add	408.10	
23 21 13 23-1889 EA 24" Grooved Rigid Coupling	2,713.27	173.24
For Galvanized Fittings, Add	601.11	
23 21 13 23-1890 Large Diameter Grooved Coupling (23 21 13 23-1850)		
Note: Victaulic Style 770		
23 21 13 23-1891 EA 28" Grooved Coupling.....	2,995.75	34.50
For Galvanized Fittings, Add	412.18	
23 21 13 23-1892 EA 30" Grooved Coupling.....	3,457.15	45.00
For Galvanized Fittings, Add	474.55	
23 21 13 23-1893 EA 32" Grooved Coupling.....	5,156.56	53.68
For Galvanized Fittings, Add	710.66	
23 21 13 23-1894 EA 36" Grooved Coupling.....	6,859.16	64.32
For Galvanized Fittings, Add	946.78	
23 21 13 23-1895 EA 42" Grooved Coupling.....	13,782.41	70.41
For Galvanized Fittings, Add	1,914.76	
23 21 13 23-1896 Flexible Coupling (23 21 13 23-1850)		
Note: Victaulic Style 75		
23 21 13 23-1897 EA 1-1/2" Grooved Flexible Coupling	75.96	10.50
For Galvanized Fittings, Add	15.40	
23 21 13 23-1898 EA 2" Grooved Flexible Coupling	82.87	14.14
For Galvanized Fittings, Add	15.79	
23 21 13 23-1899 EA 2-1/2" Grooved Flexible Coupling	97.31	17.24
For Galvanized Fittings, Add	18.30	
23 21 13 23-1900 EA 3" Grooved Flexible Coupling	113.94	20.61
For Galvanized Fittings, Add	21.28	
23 21 13 23-1901 EA 3-1/2" Grooved Flexible Coupling	153.98	24.12
For Galvanized Fittings, Add	30.14	
23 21 13 23-1902 EA 4" Grooved Flexible Coupling	159.05	27.50
For Galvanized Fittings, Add	30.14	
23 21 13 23-1903 EA 5" Grooved Flexible Coupling	221.51	34.50
For Galvanized Fittings, Add	43.49	
23 21 13 23-1904 EA 6" Grooved Flexible Coupling	272.20	45.00
For Galvanized Fittings, Add	52.39	
23 21 13 23-1905 EA 8" Grooved Flexible Coupling	402.10	53.68
For Galvanized Fittings, Add	82.36	
23 21 13 23-1906 Installation-Ready™ Coupling (23 21 13 23-1850)		
Note: Victaulic Style 009N		
23 21 13 23-1907 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling	67.39	6.55
For Galvanized Fittings, Add	14.71	
23 21 13 23-1908 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling	70.51	7.83
For Galvanized Fittings, Add	15.01	
23 21 13 23-1909 EA 2" Ductile Iron, Installation-Ready™ Coupling	82.29	10.52
For Galvanized Fittings, Add	16.98	
23 21 13 23-1910 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling	95.75	12.76
For Galvanized Fittings, Add	19.56	
23 21 13 23-1911 EA 3" Ductile Iron, Installation-Ready™ Coupling	109.69	15.32
For Galvanized Fittings, Add	22.14	
23 21 13 23-1912 EA 4" Ductile Iron, Installation-Ready™ Coupling	152.44	20.45
For Galvanized Fittings, Add	31.09	
23 21 13 23-1913 EA 5" Ductile Iron, Installation-Ready™ Coupling	237.41	25.59
For Galvanized Fittings, Add	50.85	
23 21 13 23-1914 EA 6" Ductile Iron, Installation-Ready™ Coupling	288.06	33.46
For Galvanized Fittings, Add	60.76	
23 21 13 23-1915 EA 8" Ductile Iron, Installation-Ready™ Coupling	456.86	39.80
For Galvanized Fittings, Add	101.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1916			Grooved Strainers And Suction Diffusers (23 21 13 23-1440)		
23 21 13 23-1917			Grooved Wye Strainers (23 21 13 23-1916)		
			Note: Victaulic Style 732		
23 21 13 23-1918	EA		2" Grooved Wye Strainer	1,562.10	28.53
23 21 13 23-1919	EA		2-1/2" Grooved Wye Strainer	1,647.95	34.62
23 21 13 23-1920	EA		3" Grooved Wye Strainer	1,855.52	41.50
23 21 13 23-1921	EA		4" Grooved Wye Strainer	2,112.09	55.37
23 21 13 23-1922	EA		5" Grooved Wye Strainer	3,043.11	69.25
23 21 13 23-1923	EA		6" Grooved Wye Strainer	3,326.68	89.99
23 21 13 23-1924	EA		8" Grooved Wye Strainer	5,053.68	107.25
23 21 13 23-1925	EA		10" Grooved Wye Strainer	8,053.13	125.39
23 21 13 23-1926	EA		12" Grooved Wye Strainer	13,965.56	150.56
23 21 13 23-1927			Grooved Tee Type Strainers (23 21 13 23-1916)		
			Note: Victaulic Style 730		
23 21 13 23-1928	EA		1-1/2" Grooved Tee Type Strainer	1,204.85	21.66
23 21 13 23-1929	EA		2" Grooved Tee Type Strainer	1,543.35	28.53
23 21 13 23-1930	EA		2-1/2" Grooved Tee Type Strainer	1,628.45	34.62
23 21 13 23-1931	EA		3" Grooved Tee Type Strainer	1,833.50	41.50
23 21 13 23-1932	EA		4" Grooved Tee Type Strainer	2,087.12	55.37
23 21 13 23-1933	EA		5" Grooved Tee Type Strainer	3,006.76	69.25
23 21 13 23-1934	EA		6" Grooved Tee Type Strainer	3,287.48	89.99
23 21 13 23-1935	EA		8" Grooved Tee Type Strainer	4,992.99	107.25
23 21 13 23-1936	EA		10" Grooved Tee Type Strainer	7,284.99	125.39
23 21 13 23-1937	EA		12" Grooved Tee Type Strainer	9,361.40	150.56
23 21 13 23-1938	EA		14" Grooved Tee Type Strainer	32,819.01	169.49
23 21 13 23-1939	EA		16" Grooved Tee Type Strainer	40,754.66	187.64
23 21 13 23-1940	EA		18" Grooved Tee Type Strainer	53,541.45	205.01
23 21 13 23-1941			Grooved Suction Diffuser (23 21 13 23-1916)		
			Note: Victaulic Style 731		
23 21 13 23-1942	EA		2-1/2" Grooved x 2" Flanged Suction Diffuser	3,163.90	32.03
23 21 13 23-1943	EA		3" Grooved x 2" Flanged Suction Diffuser	3,359.81	35.40
23 21 13 23-1944	EA		3" Grooved x 2-1/2" Flanged Suction Diffuser	2,439.68	41.50
23 21 13 23-1945	EA		3" Grooved x 3" Flanged Suction Diffuser	2,476.14	45.00
23 21 13 23-1946	EA		4" Grooved x 2-1/2" Flanged Suction Diffuser	2,679.42	45.00
23 21 13 23-1947	EA		4" Grooved x 3" Flanged Suction Diffuser	2,890.70	48.50
23 21 13 23-1948	EA		4" Grooved x 4" Flanged Suction Diffuser	3,336.74	48.50
23 21 13 23-1949	EA		5" Grooved x 4" Flanged Suction Diffuser	3,731.31	62.24
23 21 13 23-1950	EA		5" Grooved x 5" Flanged Suction Diffuser	3,921.10	65.75
23 21 13 23-1951	EA		6" Grooved x 4" Flanged Suction Diffuser	3,987.75	72.62
23 21 13 23-1952	EA		6" Grooved x 5" Flanged Suction Diffuser	4,759.31	79.62
23 21 13 23-1953	EA		6" Grooved x 6" Flanged Suction Diffuser	4,944.82	84.81
23 21 13 23-1954	EA		8" Grooved x 5" Flanged Suction Diffuser	5,074.67	88.18
23 21 13 23-1955	EA		8" Grooved x 6" Flanged Suction Diffuser	5,359.55	98.55
23 21 13 23-1956	EA		8" Grooved x 8" Flanged Suction Diffuser	9,129.52	107.25
23 21 13 23-1957	EA		10" Grooved x 8" Flanged Suction Diffuser	10,294.47	115.93
23 21 13 23-1958	EA		10" Grooved x 10" Flanged Suction Diffuser	12,374.97	120.21
23 21 13 23-1959	EA		12" Grooved x 10" Flanged Suction Diffuser	14,641.68	138.36
23 21 13 23-1960	EA		12" Grooved x 12" Flanged Suction Diffuser	20,298.38	147.06
23 21 13 23-1961	EA		14" Grooved x 10" Flanged Suction Diffuser	18,906.71	147.06
23 21 13 23-1962	EA		14" Grooved x 12" Flanged Suction Diffuser	21,113.02	160.02
23 21 13 23-1963	EA		14" Grooved x 14" Flanged Suction Diffuser	25,601.55	169.49
23 21 13 23-1964	EA		16" Grooved x 14" Flanged Suction Diffuser	26,359.77	178.17
23 21 13 23-1965			Grooved Steel Valves (23 21 13 23-1440)		
23 21 13 23-1966			Grooved Butterfly Valves With Standard Trim (23 21 13 23-1965)		
23 21 13 23-1967	EA		1-1/2" Butterfly Valve, Grooved, With Standard Trim	281.02	14.14
23 21 13 23-1968	EA		2" Butterfly Valve, Grooved, With Standard Trim	287.72	18.54
23 21 13 23-1969	EA		3" Butterfly Valve, Grooved, With Standard Trim	471.26	27.50
23 21 13 23-1970	EA		4" Butterfly Valve, Grooved, With Standard Trim	632.78	36.18
23 21 13 23-1971	EA		6" Butterfly Valve, Grooved, With Standard Trim	1,375.66	59.26
23 21 13 23-1972	EA		8" Butterfly Valve, Grooved, With Standard Trim	1,906.80	83.38
23 21 13 23-1973	EA		10" Butterfly Valve, Grooved, With Standard Trim	2,860.00	112.69
23 21 13 23-1974			Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1965)		
23 21 13 23-1975	EA		1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim	420.22	14.14
23 21 13 23-1976	EA		2" Butterfly Valve, Grooved, With Stainless Steel Trim	426.91	18.54
23 21 13 23-1977	EA		3" Butterfly Valve, Grooved, With Stainless Steel Trim	659.95	27.50
23 21 13 23-1978	EA		4" Butterfly Valve, Grooved, With Stainless Steel Trim	840.03	36.18
23 21 13 23-1979	EA		6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,604.56	59.26
23 21 13 23-1980	EA		8" Butterfly Valve, Grooved, With Stainless Steel Trim	2,661.55	83.38
23 21 13 23-1981	EA		10" Butterfly Valve, Grooved, With Stainless Steel Trim	4,190.11	112.69



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1982			Grooved Ball Valves With Standard Trim And Handle <small>(23 21 13 23-1965)</small>		
			Note: Victaulic No. 721		
23 21 13 23-1983	EA		1-1/2" Ball Valve, Grooved, With Standard Trim.....	237.76	13.87
23 21 13 23-1984	EA		2" Ball Valve, Grooved, With Standard Trim.....	273.05	19.06
23 21 13 23-1985	EA		2-1/2" Ball Valve, Grooved, With Standard Trim.....	617.87	23.34
23 21 13 23-1986	EA		3" Ball Valve, Grooved, With Standard Trim.....	1,010.15	27.62
23 21 13 23-1987	EA		4" Ball Valve, Grooved, With Standard Trim.....	1,571.16	36.31
23 21 13 23-1988	EA		6" Ball Valve, Grooved, With Standard Trim.....	4,869.90	59.65
23 21 13 23-1989			Grooved Ball Valves With Stainless Steel Trim And Handle <small>(23 21 13 23-1965)</small>		
			Note: Victaulic No. 721		
23 21 13 23-1990	EA		1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	253.00	13.87
23 21 13 23-1991	EA		2" Ball Valve, Grooved, With Stainless Steel Trim.....	431.31	19.06
23 21 13 23-1992	EA		2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,116.87	23.34
23 21 13 23-1993	EA		3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,443.57	27.62
23 21 13 23-1994	EA		4" Ball Valve, Grooved, With Stainless Steel Trim.....	1,971.68	36.31
23 21 13 23-1995	EA		6" Ball Valve, Grooved, With Stainless Steel Trim.....	5,366.19	59.65
23 21 13 23-1996			Grooved Check Valves <small>(23 21 13 23-1965)</small>		
			Note: Victaulic No. 712		
23 21 13 23-1997	EA		2" Check Valve, Grooved.....	360.18	19.06
23 21 13 23-1998	EA		2-1/2" Check Valve, Grooved.....	582.68	23.34
23 21 13 23-1999	EA		3" Check Valve, Grooved.....	679.03	27.62
23 21 13 23-2000	EA		4" Check Valve, Grooved.....	961.69	36.31
23 21 13 23-2001			Grooved Vic-Check Check Valves <small>(23 21 13 23-1965)</small>		
			Note: Victaulic No. 716		
23 21 13 23-2002	EA		2-1/2" "Vic-Check" Check Valve, Grooved.....	466.95	23.34
23 21 13 23-2003	EA		3" "Vic-Check" Check Valve, Grooved.....	473.26	27.62
23 21 13 23-2004	EA		4" "Vic-Check" Check Valve, Grooved.....	593.58	36.31
23 21 13 23-2005	EA		6" "Vic-Check" Check Valve, Grooved.....	1,153.91	59.65
23 21 13 23-2006	EA		8" "Vic-Check" Check Valve, Grooved.....	1,579.31	82.99
23 21 13 23-2007	EA		10" "Vic-Check" Check Valve, Grooved.....	4,380.00	112.43
23 21 13 23-2008	EA		12" "Vic-Check" Check Valve, Grooved.....	5,185.74	129.80
23 21 13 23-2009			Grooved Plug Valves With Lever Operator <small>(23 21 13 23-1965)</small>		
			Note: Victaulic No. 377		
23 21 13 23-2010	EA		3" Balancing Plug Valve, Grooved, With Lever Handle.....	601.32	27.62
23 21 13 23-2011	EA		4" Balancing Plug Valve, Grooved, With Lever Handle.....	670.59	36.31
23 21 13 23-2012	EA		6" Balancing Plug Valve, Grooved, With Lever Handle.....	1,194.12	59.65
23 21 13 23-2013			Grooved Plug Valve With Gear Operator <small>(23 21 13 23-1965)</small>		
			Note: Victaulic No. 377		
23 21 13 23-2014	EA		3" Balancing Plug Valve, Grooved, With Gear Operator.....	1,052.98	27.62
23 21 13 23-2015	EA		4" Balancing Plug Valve, Grooved, With Gear Operator.....	1,122.28	36.31
23 21 13 23-2016	EA		6" Balancing Plug Valve, Grooved, With Gear Operator.....	1,645.82	59.65
23 21 13 23-2017	EA		8" Balancing Plug Valve, Grooved, With Gear Operator.....	2,203.39	82.99
23 21 13 23-2018	EA		10" Balancing Plug Valve, Grooved, With Gear Operator.....	3,447.22	112.43
23 21 13 23-2019	EA		12" Balancing Plug Valve, Grooved, With Gear Operator.....	4,970.43	129.80
23 21 13 23-2020			Prepare Pipe For Groove <small>(23 21 13 23-1440)</small>		
23 21 13 23-2021			Cut Grooved Pipe <small>(23 21 13 23-2020)</small>		
			Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2022	EA		Cut 3/4" Groove Pipe.....	13.58	
23 21 13 23-2023	EA		Cut 1" Groove Pipe.....	14.75	
23 21 13 23-2024	EA		Cut 1-1/4" Groove Pipe.....	16.65	
23 21 13 23-2025	EA		Cut 1-1/2" Groove Pipe.....	18.11	
23 21 13 23-2026	EA		Cut 2" Groove Pipe.....	19.86	
23 21 13 23-2027	EA		Cut 2-1/2" Groove Pipe.....	21.51	
23 21 13 23-2028	EA		Cut 3" Groove Pipe.....	23.46	
23 21 13 23-2029	EA		Cut 3-1/2" Groove Pipe.....	24.88	
23 21 13 23-2030	EA		Cut 4" Groove Pipe.....	26.47	
23 21 13 23-2031	EA		Cut 5" Groove Pipe.....	28.68	
23 21 13 23-2032	EA		Cut 6" Groove Pipe.....	29.50	
23 21 13 23-2033	EA		Cut 8" Groove Pipe.....	38.24	
23 21 13 23-2034	EA		Cut 10" Groove Pipe.....	54.34	
23 21 13 23-2035	EA		Cut 12" Groove Pipe.....	68.83	
23 21 13 23-2036	EA		Cut 14" Groove Pipe.....	103.24	
23 21 13 23-2037	EA		Cut 16" Groove Pipe.....	108.67	
23 21 13 23-2038	EA		Cut 18" Groove Pipe.....	114.72	
23 21 13 23-2039	EA		Cut 20" Groove Pipe.....	121.46	
23 21 13 23-2040	EA		Cut 24" Groove Pipe.....	137.66	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 21 13 23-2041****Roll Grooved Pipe** (23 21 13 23-2020)

Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.

23 21 13 23-2042	EA	Roll 3/4" Groove.....	7.77	
23 21 13 23-2043	EA	Roll 1" Groove.....	9.05	
23 21 13 23-2044	EA	Roll 1-1/4" Groove.....	10.32	
23 21 13 23-2045	EA	Roll 1-1/2" Groove.....	11.60	
23 21 13 23-2046	EA	Roll 2" Groove.....	17.80	
23 21 13 23-2047	EA	Roll 2-1/2" Groove.....	18.77	
23 21 13 23-2048	EA	Roll 3" Groove.....	20.64	
23 21 13 23-2049	EA	Roll 3-1/2" Groove.....	21.96	
23 21 13 23-2050	EA	Roll 4" Groove.....	24.01	
23 21 13 23-2051	EA	Roll 5" Groove.....	24.58	
23 21 13 23-2052	EA	Roll 6" Groove.....	25.82	
23 21 13 23-2053	EA	Roll 8" Groove.....	31.29	
23 21 13 23-2054	EA	Roll 10" Groove.....	35.60	
23 21 13 23-2055	EA	Roll 12" Groove.....	44.89	
23 21 13 23-2056	EA	Roll 14" Groove.....	68.83	
23 21 13 23-2057	EA	Roll 16" Groove.....	73.74	
23 21 13 23-2058	EA	Roll 18" Groove.....	76.48	
23 21 13 23-2059	EA	Roll 20" Groove.....	82.60	
23 21 13 23-2060	EA	Roll 24" Groove.....	89.78	

23 21 13 23-2061**Standard Gaskets** (23 21 13 23-2020)

Note: For use on replacement of existing gaskets.

23 21 13 23-2062	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	39.71	
23 21 13 23-2063	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	40.79	
23 21 13 23-2064	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	42.49	
23 21 13 23-2065	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	46.49	
23 21 13 23-2066	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	47.26	
23 21 13 23-2067	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	55.94	
23 21 13 23-2068	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	61.19	
23 21 13 23-2069	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	76.10	
23 21 13 23-2070	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	76.72	
23 21 13 23-2071	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	96.91	
23 21 13 23-2072	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	104.36	
23 21 13 23-2073	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	142.40	
23 21 13 23-2074	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	179.82	
23 21 13 23-2075	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	211.15	
23 21 13 23-2076	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	293.99	
23 21 13 23-2077	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	396.88	
23 21 13 23-2078	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	472.98	
23 21 13 23-2079	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	709.53	
23 21 13 23-2080	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	976.16	

23 21 13 23-2081**Copper Grooved-Joint Pipe Fittings** (23 21 13 23)

Note: Couplings are not included with fittings.

23 21 13 23-2082**Grooved Fittings** (23 21 13 23-2081)**23 21 13 23-2083****Grooved 90 Degree Elbows** (23 21 13 23-2082)

23 21 13 23-2084	EA	2" Copper 90 Degree Elbow, Grooved.....	76.19	21.14
23 21 13 23-2085	EA	2-1/2" Copper 90 Degree Elbow, Grooved.....	88.21	25.81
23 21 13 23-2086	EA	3" Copper 90 Degree Elbow, Grooved.....	113.84	31.25
23 21 13 23-2087	EA	4" Copper 90 Degree Elbow, Grooved.....	200.25	41.24
23 21 13 23-2088	EA	5" Copper 90 Degree Elbow, Grooved.....	436.72	51.61
23 21 13 23-2089	EA	6" Copper 90 Degree Elbow, Grooved.....	667.25	67.56
23 21 13 23-2090	EA	8" Copper 90 Degree Elbow, Grooved.....	1,159.86	80.39

23 21 13 23-2091**Grooved 45 Degree Elbows** (23 21 13 23-2082)

23 21 13 23-2092	EA	2" Copper 45 Degree Elbow, Grooved.....	76.19	21.14
23 21 13 23-2093	EA	2-1/2" Copper 45 Degree Elbow, Grooved.....	88.21	25.81
23 21 13 23-2094	EA	3" Copper 45 Degree Elbow, Grooved.....	113.84	31.25
23 21 13 23-2095	EA	4" Copper 45 Degree Elbow, Grooved.....	200.25	41.24
23 21 13 23-2096	EA	5" Copper 45 Degree Elbow, Grooved.....	436.72	51.61
23 21 13 23-2097	EA	6" Copper 45 Degree Elbow, Grooved.....	667.25	67.56
23 21 13 23-2098	EA	8" Copper 45 Degree Elbow, Grooved.....	1,159.86	80.39

23 21 13 23-2099**Grooved Tees** (23 21 13 23-2082)

23 21 13 23-2100	EA	2" Copper Tee, Grooved.....	117.75	31.12
23 21 13 23-2101	EA	2-1/2" Copper Tee, Grooved.....	135.30	38.25
23 21 13 23-2102	EA	3" Copper Tee, Grooved.....	181.39	46.94
23 21 13 23-2103	EA	4" Copper Tee, Grooved.....	313.37	60.69
23 21 13 23-2104	EA	5" Copper Tee, Grooved.....	1,003.31	79.36
23 21 13 23-2105	EA	6" Copper Tee, Grooved.....	862.06	99.33
23 21 13 23-2106	EA	8" Copper Tee, Grooved.....	1,425.83	120.60



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2107				Grooved Reducing Tees <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2108 EA 2-1/2" Copper Tee, Reducing, Grooved.....	164.17	38.25
				23 21 13 23-2109 EA 3" Copper Tee, Reducing, Grooved.....	242.68	46.94
				23 21 13 23-2110 EA 4" Copper Tee, Reducing, Grooved.....	373.58	60.82
				23 21 13 23-2111 EA 5" Copper Tee, Reducing, Grooved.....	928.31	79.49
				23 21 13 23-2112 EA 6" Copper Tee, Reducing, Grooved.....	1,138.10	99.33
23 21 13 23-2113				Grooved X Cup Reducing Tees <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2114 EA 2" Copper Tee, Reducing, Grooved X Cup.....	133.19	31.12
				23 21 13 23-2115 EA 2-1/2" Copper Tee, Reducing, Grooved X Cup.....	164.48	38.25
				23 21 13 23-2116 EA 3" Copper Tee, Reducing, Grooved X Cup.....	256.57	46.94
				23 21 13 23-2117 EA 4" Copper Tee, Reducing, Grooved X Cup.....	373.58	60.69
23 21 13 23-2118				Grooved Flanged Adapter Nipples <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2119 EA 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	191.94	22.95
				23 21 13 23-2120 EA 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	207.71	27.88
				23 21 13 23-2121 EA 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	225.74	33.33
				23 21 13 23-2122 EA 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	264.23	44.87
				23 21 13 23-2123 EA 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	343.17	54.34
				23 21 13 23-2124 EA 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	401.99	73.39
23 21 13 23-2125				Grooved Concentric Reducers <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2126 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved.....	95.80	23.60
				23 21 13 23-2127 EA 3" x 2" Copper Concentric Reducer, Grooved.....	101.00	26.33
				23 21 13 23-2128 EA 3" x 2-1/2" Copper Concentric Reducer, Grooved.....	111.06	31.25
				23 21 13 23-2129 EA 4" x 2" Copper Concentric Reducer, Grooved.....	162.02	31.51
				23 21 13 23-2130 EA 4" x 2-1/2" Copper Concentric Reducer, Grooved.....	166.57	33.71
				23 21 13 23-2131 EA 4" x 3" Copper Concentric Reducer, Grooved.....	171.75	36.31
				23 21 13 23-2132 EA 5" x 3" Copper Concentric Reducer, Grooved.....	361.83	41.50
				23 21 13 23-2133 EA 5" x 4" Copper Concentric Reducer, Grooved.....	372.20	46.68
				23 21 13 23-2134 EA 6" x 3" Copper Concentric Reducer, Grooved.....	400.39	49.28
				23 21 13 23-2135 EA 6" x 4" Copper Concentric Reducer, Grooved.....	410.77	54.47
				23 21 13 23-2136 EA 6" x 5" Copper Concentric Reducer, Grooved.....	421.15	59.65
				23 21 13 23-2137 EA 8" x 6" Copper Concentric Reducer, Grooved.....	677.54	73.91
23 21 13 23-2138				Grooved X Cup Concentric Reducers <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2139 EA 2" x 1" Copper Concentric Reducer, Grooved X Cup.....	73.21	16.60
				23 21 13 23-2140 EA 2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	74.51	17.24
				23 21 13 23-2141 EA 2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	78.47	19.20
				23 21 13 23-2142 EA 2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup.....	86.15	18.54
				23 21 13 23-2143 EA 2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	87.43	19.20
				23 21 13 23-2144 EA 2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	91.24	21.14
				23 21 13 23-2145 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup.....	96.42	23.60
				23 21 13 23-2146 EA 3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	108.30	23.60
				23 21 13 23-2147 EA 3" x 2" Copper Concentric Reducer, Grooved X Cup.....	113.50	26.33
				23 21 13 23-2148 EA 4" x 2" Copper Concentric Reducer, Grooved X Cup.....	176.07	31.38
23 21 13 23-2149				Grooved Standard Couplings <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2150 EA 2" Copper Standard Coupling, Grooved.....	32.85	10.63
				23 21 13 23-2151 EA 2-1/2" Copper Standard Coupling, Grooved.....	39.18	12.97
				23 21 13 23-2152 EA 3" Copper Standard Coupling, Grooved.....	45.53	15.43
				23 21 13 23-2153 EA 4" Copper Standard Coupling, Grooved.....	63.81	20.74
				23 21 13 23-2154 EA 5" Copper Standard Coupling, Grooved.....	89.91	25.81
				23 21 13 23-2155 EA 6" Copper Standard Coupling, Grooved.....	118.12	33.71
				23 21 13 23-2156 EA 8" Copper Standard Coupling, Grooved.....	159.14	40.20
23 21 13 23-2157				Grooved Caps <small>(23 21 13 23-2082)</small>		
				23 21 13 23-2158 EA 2" Copper Cap, Grooved.....	44.50	10.63
				23 21 13 23-2159 EA 2-1/2" Copper Cap, Grooved.....	60.40	12.97
				23 21 13 23-2160 EA 3" Copper Cap, Grooved.....	73.74	15.43
				23 21 13 23-2161 EA 4" Copper Cap, Grooved.....	105.68	20.61
				23 21 13 23-2162 EA 5" Copper Cap, Grooved.....	165.77	25.81
				23 21 13 23-2163 EA 6" Copper Cap, Grooved.....	198.92	33.71
23 21 13 23-2164				Grooved Valves <small>(23 21 13 23-2081)</small>		
23 21 13 23-2165				Grooved Butterfly Valves, Standard Trim, Without Operator <small>(23 21 13 23-2164)</small>		
				Note: Copper body.		
				23 21 13 23-2166 EA 2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	462.68	13.87
				For Chain Wheel, Add	43.45	
				For Valve Bracket Insulation, Add	38.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2167	EA	3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	528.30	20.61
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2168	EA	4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	698.30	27.10
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2169	EA	6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	935.29	44.48
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2170	EA	8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	1,036.87	62.51
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2171		Grooved Butterfly Valves, Standard Trim, With Operator <small>(23 21 13 23-2164)</small>		
			Note: Copper body.		
23 21	13 23-2172	EA	2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	563.91	13.87
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2173	EA	3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	629.61	20.61
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2174	EA	4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	799.60	27.10
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2175	EA	6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	1,036.66	44.48
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2176	EA	8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	1,138.18	62.51
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2177		Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23)</small>		
			Note: Socket or back weld.		
23 21	13 23-2178		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2177)</small>		
			Note: ASTM D1785 with D2466 fittings.		
23 21	13 23-2179		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2178)</small>		
23 21	13 23-2180	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	6.11	3.71
			<i>For Work In Restricted Working Space, Add</i>	1.67	
23 21	13 23-2181	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	7.65	4.63
			<i>For Work In Restricted Working Space, Add</i>	2.09	
23 21	13 23-2182	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	8.43	4.94
			<i>For Work In Restricted Working Space, Add</i>	2.22	
23 21	13 23-2183	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	9.31	5.31
			<i>For Work In Restricted Working Space, Add</i>	2.39	
23 21	13 23-2184	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	9.63	5.40
			<i>For Work In Restricted Working Space, Add</i>	2.43	
23 21	13 23-2185	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	11.79	6.47
			<i>For Work In Restricted Working Space, Add</i>	2.92	
23 21	13 23-2186	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	14.81	7.69
			<i>For Work In Restricted Working Space, Add</i>	3.46	
23 21	13 23-2187	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	18.20	9.30
			<i>For Work In Restricted Working Space, Add</i>	4.18	
23 21	13 23-2188	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	27.05	13.94
			<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21	13 23-2189	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	38.59	18.59
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-2190	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	49.49	22.16
			<i>For Work In Restricted Working Space, Add</i>	9.98	
23 21	13 23-2191	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	86.83	24.76
			<i>For Work In Restricted Working Space, Add</i>	11.12	
23 21	13 23-2192		Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2178)</small>		
23 21	13 23-2193	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	21.60	14.00
			<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21	13 23-2194	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	28.85	18.54
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-2195	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	36.29	23.08
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-2196	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	52.08	32.68
			<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21	13 23-2197	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	58.53	36.83
			<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21	13 23-2198	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	75.36	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-2199	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	119.76	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-2200	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	155.74	91.03
			<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21	13 23-2201	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	196.47	108.15
			<i>For Work In Restricted Working Space, Add</i>	48.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2202 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	267.55 55.58	123.58
23 21 13 23-2203 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	428.02 64.84	144.20
23 21 13 23-2204 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	639.79 96.68	215.00
23 21 13 23-2205 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2178)</small>		
23 21 13 23-2206 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	21.95 6.28	14.00
23 21 13 23-2207 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	29.53 8.37	18.54
23 21 13 23-2208 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	37.25 10.37	23.08
23 21 13 23-2209 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	52.70 14.68	32.68
23 21 13 23-2210 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	59.90 16.55	36.83
23 21 13 23-2211 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	76.25 21.03	46.81
23 21 13 23-2212 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	119.76 31.12	69.25
23 21 13 23-2213 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	161.49 40.95	91.03
23 21 13 23-2214 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	206.94 48.63	108.15
23 21 13 23-2215 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	268.51 55.58	123.58
23 21 13 23-2216 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	416.45 64.84	144.20
23 21 13 23-2217 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	639.79 96.68	215.00
23 21 13 23-2218 Schedule 40 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2178)</small>		
23 21 13 23-2219 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	35.40 10.37	23.08
23 21 13 23-2220 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	42.72 12.55	27.88
23 21 13 23-2221 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	56.89 16.55	36.83
23 21 13 23-2222 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	72.83 21.03	46.81
23 21 13 23-2223 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	87.01 25.10	55.76
23 21 13 23-2224 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	108.60 31.12	69.25
23 21 13 23-2225 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	152.66 40.95	91.03
23 21 13 23-2226 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	183.26 48.63	108.15
23 21 13 23-2227 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	254.46 64.84	144.20
23 21 13 23-2228 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	408.13 83.66	185.96
23 21 13 23-2229 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	645.67 103.74	230.69
23 21 13 23-2230 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	1,690.19 155.04	344.67
23 21 13 23-2231 Schedule 40 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2178)</small>		
23 21 13 23-2232 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	44.51 12.97	28.78
23 21 13 23-2233 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	53.68 15.68	34.88
23 21 13 23-2234 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	71.67 20.69	46.04
23 21 13 23-2235 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	91.91 26.29	58.48
23 21 13 23-2236 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	109.84 31.37	69.77
23 21 13 23-2237 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	137.29 38.90	86.49
23 21 13 23-2238 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	195.96 51.19	113.86
23 21 13 23-2239 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	235.78 60.79	135.12
23 21 13 23-2240 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	330.26 81.05	180.24
23 21 13 23-2241 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	551.07 104.53	232.38

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2242 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses	902.10	288.13
<i>For Work In Restricted Working Space, Add</i>	129.61	
23 21 13 23-2243 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses	2,485.73	431.04
<i>For Work In Restricted Working Space, Add</i>	193.89	
23 21 13 23-2244 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2178)		
23 21 13 23-2245 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	22.31	14.27
<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21 13 23-2246 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	29.07	18.28
<i>For Work In Restricted Working Space, Add</i>	8.33	
23 21 13 23-2247 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	38.82	24.51
<i>For Work In Restricted Working Space, Add</i>	11.13	
23 21 13 23-2248 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	48.05	30.47
<i>For Work In Restricted Working Space, Add</i>	13.88	
23 21 13 23-2249 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	58.70	36.70
<i>For Work In Restricted Working Space, Add</i>	16.71	
23 21 13 23-2250 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	82.05	50.97
<i>For Work In Restricted Working Space, Add</i>	23.18	
23 21 13 23-2251 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	113.96	70.41
<i>For Work In Restricted Working Space, Add</i>	32.03	
23 21 13 23-2252 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	148.93	87.53
<i>For Work In Restricted Working Space, Add</i>	39.81	
23 21 13 23-2253 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	194.70	101.92
<i>For Work In Restricted Working Space, Add</i>	46.31	
23 21 13 23-2254 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	410.25	117.75
<i>For Work In Restricted Working Space, Add</i>	53.52	
23 21 13 23-2255 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	496.67	157.94
<i>For Work In Restricted Working Space, Add</i>	71.78	
23 21 13 23-2256 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2178)		
23 21 13 23-2257 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	22.36	14.00
<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21 13 23-2258 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	29.33	18.54
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-2259 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	36.36	23.08
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-2260 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	51.67	32.68
<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21 13 23-2261 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	58.33	36.83
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21 13 23-2262 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	74.40	46.81
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-2263 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	109.97	69.25
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-2264 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	143.69	91.03
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-2265 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	178.32	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	
23 21 13 23-2266 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2178)		
23 21 13 23-2267 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	22.84	14.00
<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21 13 23-2268 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	29.81	18.54
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-2269 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	37.32	23.08
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-2270 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	52.22	32.68
<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21 13 23-2271 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	59.56	36.83
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21 13 23-2272 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	75.50	46.81
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-2273 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	111.20	69.25
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-2274 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	147.45	91.03
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-2275 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	176.14	108.15
<i>For Work In Restricted Working Space, Add</i>	48.63	
23 21 13 23-2276 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2178)		
23 21 13 23-2277 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	21.60	14.00
<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21 13 23-2278 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	28.78	18.54
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-2279 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	35.61	23.08
<i>For Work In Restricted Working Space, Add</i>	10.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2280 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	50.57 14.68	32.68
23 21 13 23-2281 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	57.10 16.55	36.83
23 21 13 23-2282 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	72.69 21.03	46.81
23 21 13 23-2283 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	115.04 31.12	69.25
23 21 13 23-2284 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	151.70 40.95	91.03
23 21 13 23-2285 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	187.22 48.63	108.15
23 21 13 23-2286 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2178)		
23 21 13 23-2287 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	33.53 8.56	19.06
23 21 13 23-2288 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2178)		
23 21 13 23-2289 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	21.33 6.28	14.00
23 21 13 23-2290 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	28.44 8.37	18.54
23 21 13 23-2291 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	35.61 10.37	23.08
23 21 13 23-2292 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	50.30 14.68	32.68
23 21 13 23-2293 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	56.69 16.55	36.83
23 21 13 23-2294 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	72.42 21.03	46.81
23 21 13 23-2295 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	108.94 31.12	69.25
23 21 13 23-2296 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	144.65 40.95	91.03
23 21 13 23-2297 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	173.94 48.63	108.15
23 21 13 23-2298 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	222.78 55.58	123.58
23 21 13 23-2299 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	286.22 64.84	144.20
23 21 13 23-2300 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	553.43 69.50	154.57
23 21 13 23-2301 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2178)		
23 21 13 23-2302 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	38.59 10.37	23.08
23 21 13 23-2303 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	53.40 12.55	27.88
23 21 13 23-2304 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	68.12 16.55	36.83
23 21 13 23-2305 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	101.58 21.03	46.81
23 21 13 23-2306 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	116.52 25.10	55.76
23 21 13 23-2307 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	148.04 31.12	69.25
23 21 13 23-2308 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	216.88 40.95	91.03
23 21 13 23-2309 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	247.27 48.63	108.15
23 21 13 23-2310 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	385.01 64.84	144.20
23 21 13 23-2311 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	505.15 83.63	185.96
23 21 13 23-2312 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	719.15 103.69	230.57
23 21 13 23-2313 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,044.84 128.75	286.19
23 21 13 23-2314 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2178)		
23 21 13 23-2315 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	10.07 2.86	6.30
23 21 13 23-2316 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	13.24 3.77	8.30
23 21 13 23-2317 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	16.66 4.67	10.24
23 21 13 23-2318 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	23.78 6.68	14.69

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2319 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	26.47 7.45	16.34
23 21 13 23-2320 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	33.53 9.46	20.88
23 21 13 23-2321 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	53.18 14.00	30.87
23 21 13 23-2322 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	68.48 18.43	40.58
23 21 13 23-2323 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	89.10 21.88	48.11
23 21 13 23-2324 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	122.05 25.01	54.98
23 21 13 23-2325 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	226.66 29.18	64.19
23 21 13 23-2326 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	623.78 43.50	95.70
23 21 13 23-2327 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <small>(23 21 13 23-2178)</small>		
23 21 13 23-2328 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges..... <i>For Work In Restricted Working Space, Add</i>	48.34 10.37	23.08
23 21 13 23-2329 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	62.92 12.55	27.88
23 21 13 23-2330 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	78.66 16.55	36.83
23 21 13 23-2331 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	94.26 21.03	46.81
23 21 13 23-2332 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	108.37 25.10	55.76
23 21 13 23-2333 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	136.60 31.12	69.25
23 21 13 23-2334 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	187.23 40.95	91.03
23 21 13 23-2335 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	218.10 48.63	108.15
23 21 13 23-2336 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	287.05 64.84	144.20
23 21 13 23-2337 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	390.27 83.63	185.96
23 21 13 23-2338 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	597.22 103.69	230.57
23 21 13 23-2339 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	995.55 128.54	285.80
23 21 13 23-2340 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2177)</small> Note: ASTM D1785 with D2467 fittings.		
23 21 13 23-2341 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2340)</small>		
23 21 13 23-2342 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.26 1.67	3.76
23 21 13 23-2343 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.85 2.09	4.67
23 21 13 23-2344 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.67 2.50	5.57
23 21 13 23-2345 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.55 2.93	6.48
23 21 13 23-2346 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.28 3.34	7.39
23 21 13 23-2347 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.06 4.18	9.34
23 21 13 23-2348 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	19.99 4.60	10.24
23 21 13 23-2349 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	22.90 5.02	11.15
23 21 13 23-2350 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	29.98 6.28	14.00
23 21 13 23-2351 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	45.11 8.37	18.54
23 21 13 23-2352 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	59.49 9.98	22.17
23 21 13 23-2353 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	116.64 10.74	23.86
23 21 13 23-2354 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2340)</small>		
23 21 13 23-2355 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	23.38 6.28 3.14	14.00
23 21 13 23-2356 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	31.11 8.37 4.18	18.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2357 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.78 10.37 5.19	23.08
23 21 13 23-2358 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	55.85 14.68 7.34	32.68
23 21 13 23-2359 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.57 16.55 8.28	36.83
23 21 13 23-2360 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	79.06 21.03 10.51	46.81
23 21 13 23-2361 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	124.76 31.12 15.56	69.25
23 21 13 23-2362 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	160.12 40.95 20.48	91.03
23 21 13 23-2363 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	197.97 48.63 24.32	108.15
23 21 13 23-2364 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	314.86 55.58 27.79	123.58
23 21 13 23-2365 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	497.85 64.84 32.42	144.20
23 21 13 23-2366 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	639.79 96.68 48.34	215.00
23 21 13 23-2367 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2340)</small>		
23 21 13 23-2368 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.64 6.28 3.14	14.00
23 21 13 23-2369 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	35.08 8.37 4.18	18.54
23 21 13 23-2370 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	45.40 10.37 5.19	23.08
23 21 13 23-2371 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.76 14.68 7.34	32.68
23 21 13 23-2372 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.47 16.55 8.28	36.83
23 21 13 23-2373 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	91.25 21.03 10.51	46.81
23 21 13 23-2374 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	148.24 31.12 15.56	69.25
23 21 13 23-2375 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	190.66 40.95 20.48	91.03
23 21 13 23-2376 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	259.67 48.63 24.32	108.15
23 21 13 23-2377 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	308.09 55.58 27.79	123.58
23 21 13 23-2378 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	482.46 64.84 32.42	144.20
23 21 13 23-2379 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	622.49 96.68 48.34	215.00
23 21 13 23-2380 Schedule 80 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2340)</small>		
23 21 13 23-2381 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.88 9.85 4.92	21.91
23 21 13 23-2382 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	49.22 12.55 6.27	27.88
23 21 13 23-2383 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	64.42 16.55 8.28	36.83
23 21 13 23-2384 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	95.63 21.03 10.51	46.81

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2385	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	109.20 25.10 12.55	55.76
23 21	13 23-2386	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	135.71 31.12 15.56	69.25
23 21	13 23-2387	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	171.28 40.95 20.48	91.03
23 21	13 23-2388	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	205.51 48.63 24.32	108.15
23 21	13 23-2389	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	266.44 64.84 32.42	144.20
23 21	13 23-2390	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	450.79 83.66 41.83	185.96
23 21	13 23-2391	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	744.56 103.74 51.87	230.69
23 21	13 23-2392	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,690.27 155.04 77.52	344.67
23 21	13 23-2393		Schedule 80 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2340)</small>		
23 21	13 23-2394	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	52.09 12.31 6.16	27.36
23 21	13 23-2395	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	63.87 15.68 7.84	34.88
23 21	13 23-2396	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	83.47 20.69 10.35	46.04
23 21	13 23-2397	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	127.65 26.29 13.14	58.48
23 21	13 23-2398	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	144.61 31.37 15.69	69.77
23 21	13 23-2399	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	179.79 38.90 19.45	86.49
23 21	13 23-2400	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	225.16 51.19 25.59	113.86
23 21	13 23-2401	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	270.67 60.79 30.39	135.12
23 21	13 23-2402	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	349.05 81.05 40.52	180.24
23 21	13 23-2403	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	617.95 104.53 52.27	232.38
23 21	13 23-2404	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,057.12 129.61 64.80	288.13
23 21	13 23-2405	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	2,485.85 193.89 96.95	431.04
23 21	13 23-2406		Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2340)</small>		
23 21	13 23-2407	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	29.33 8.37	18.54
23 21	13 23-2408	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	38.76 10.37	23.08
23 21	13 23-2409	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	55.50 14.68	32.68
23 21	13 23-2410	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	64.15 16.55	36.83
23 21	13 23-2411	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	82.89 21.03	46.81
23 21	13 23-2412	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	125.92 31.12	69.25
23 21	13 23-2413	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	171.76 40.95	91.03
23 21	13 23-2414	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	210.98 48.63	108.15
23 21	13 23-2415	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	239.48 55.58	123.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2416 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	336.48 64.84	144.20
23 21 13 23-2417 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	508.49 75.32	167.41
23 21 13 23-2418 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2340)		
23 21 13 23-2419 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	21.40 6.28	14.00
23 21 13 23-2420 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	30.56 8.37	18.54
23 21 13 23-2421 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	38.76 10.37	23.08
23 21 13 23-2422 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	57.42 14.68	32.68
23 21 13 23-2423 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	65.86 16.55	36.83
23 21 13 23-2424 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	83.17 21.03	46.81
23 21 13 23-2425 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	131.40 31.12	69.25
23 21 13 23-2426 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	187.71 40.95	91.03
23 21 13 23-2427 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	240.83 48.63	108.15
23 21 13 23-2428 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2340)		
23 21 13 23-2429 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	26.74 6.28	14.00
23 21 13 23-2430 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.33 8.37	18.54
23 21 13 23-2431 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	45.81 10.37	23.08
23 21 13 23-2432 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	62.08 14.68	32.68
23 21 13 23-2433 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	74.08 16.55	36.83
23 21 13 23-2434 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	94.74 21.03	46.81
23 21 13 23-2435 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	131.81 31.12	69.25
23 21 13 23-2436 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	167.65 40.95	91.03
23 21 13 23-2437 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	217.49 48.63	108.15
23 21 13 23-2438 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2340)		
23 21 13 23-2439 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.17 6.28	14.00
23 21 13 23-2440 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.19 8.37	18.54
23 21 13 23-2441 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	43.89 10.37	23.08
23 21 13 23-2442 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	64.06 14.68	32.68
23 21 13 23-2443 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	73.73 16.55	36.83
23 21 13 23-2444 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	102.40 21.03	46.81
23 21 13 23-2445 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	154.81 31.12	69.25
23 21 13 23-2446 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	194.01 40.95	91.03
23 21 13 23-2447 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	260.96 48.63	108.15
23 21 13 23-2448 Schedule 80 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2340)		
23 21 13 23-2449 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.44 6.28 3.14	14.00
23 21 13 23-2450 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.98 8.37 4.18	18.54
23 21 13 23-2451 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	40.88 10.37 5.19	23.08

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2452	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	58.58 14.68 7.34	32.68
23 21	13 23-2453	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	65.59 16.55 8.28	36.83
23 21	13 23-2454	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	81.18 21.03 10.51	46.81
23 21	13 23-2455	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	131.19 31.12 15.56	69.25
23 21	13 23-2456	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	168.06 40.95 20.48	91.03
23 21	13 23-2457	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	201.67 48.63 24.32	108.15
23 21	13 23-2458	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	270.36 55.58 27.79	123.58
23 21	13 23-2459	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	331.96 64.84 32.42	144.20
23 21	13 23-2460	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	573.97 69.50 34.75	154.57
23 21	13 23-2461		Schedule 80 Polyvinyl Chloride (PVC) Unions <small>(23 21 13 23-2340)</small>		
23 21	13 23-2462	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	44.71 10.37	23.08
23 21	13 23-2463	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	53.54 12.55	27.88
23 21	13 23-2464	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	68.53 16.55	36.83
23 21	13 23-2465	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	103.50 21.03	46.81
23 21	13 23-2466	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	126.65 25.10	55.76
23 21	13 23-2467	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	162.00 31.12	69.25
23 21	13 23-2468	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	244.98 40.95	91.03
23 21	13 23-2469	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	301.93 48.63	108.15
23 21	13 23-2470	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	385.43 64.84	144.20
23 21	13 23-2471	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	505.15 83.63	185.96
23 21	13 23-2472	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	719.15 103.69	230.57
23 21	13 23-2473	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,044.16 128.54	285.80
23 21	13 23-2474		Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions <small>(23 21 13 23-2340)</small>		
23 21	13 23-2475	EA	1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	49.22	28.81
23 21	13 23-2476	EA	3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	58.30	33.33
23 21	13 23-2477	EA	1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	70.21	39.30
23 21	13 23-2478	EA	1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	91.53	46.81
23 21	13 23-2479	EA	1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	110.07	55.76
23 21	13 23-2480	EA	2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	144.08	69.25
23 21	13 23-2481	EA	3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	303.48	134.22
23 21	13 23-2482	EA	4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	330.39	148.87
23 21	13 23-2483		Schedule 80 Polyvinyl Chloride (PVC) Caps <small>(23 21 13 23-2340)</small>		
23 21	13 23-2484	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	15.79 2.83 1.41	6.23
23 21	13 23-2485	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.27 3.77 1.88	8.30
23 21	13 23-2486	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	27.47 4.67 2.33	10.24
23 21	13 23-2487	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	36.40 6.61 3.30	14.53
23 21	13 23-2488	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.21 7.45 3.72	16.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2489 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	53.11 9.46 4.73	20.88
23 21 13 23-2490 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	90.98 14.00 7.00	30.87
23 21 13 23-2491 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	115.58 18.43 9.21	40.58
23 21 13 23-2492 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	160.03 21.88 10.94	48.11
23 21 13 23-2493 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	299.72 25.01 12.51	54.98
23 21 13 23-2494 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	394.46 29.18 14.59	64.19
23 21 13 23-2495 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	692.24 43.50 21.75	95.70
23 21 13 23-2496 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2340)		
23 21 13 23-2497 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	54.23 10.37 5.19	23.08
23 21 13 23-2498 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.92 12.55 6.27	27.88
23 21 13 23-2499 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	78.66 16.55 8.28	36.83
23 21 13 23-2500 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	94.26 21.03 10.51	46.81
23 21 13 23-2501 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	108.38 25.10 12.55	55.76
23 21 13 23-2502 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	136.60 31.12 15.56	69.25
23 21 13 23-2503 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	187.23 40.95 20.48	91.03
23 21 13 23-2504 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	218.10 48.63 24.32	108.15
23 21 13 23-2505 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	287.05 64.84 32.42	144.20
23 21 13 23-2506 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	390.28 83.63 41.81	185.96
23 21 13 23-2507 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	597.22 103.69 51.84	230.57
23 21 13 23-2508 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	995.55 128.54 64.27	285.80
23 21 13 23-2509 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2177)		
Note: In place pipe.		
23 21 13 23-2510 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.04 2.11	
23 21 13 23-2511 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.60 2.28	
23 21 13 23-2512 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.56 2.57	
23 21 13 23-2513 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.98 2.69	
23 21 13 23-2514 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.50 2.85	
23 21 13 23-2515 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.46 3.14	
23 21 13 23-2516 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.26 3.38	
23 21 13 23-2517 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.30 3.99	
23 21 13 23-2518 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.96 5.39	
23 21 13 23-2519 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	25.66 7.70	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2520 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	34.22	
For Work In Restricted Working Space, Add	10.27	
23 21 13 23-2521 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	41.84	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-2522 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2523 Small Diameter Tubing (23 21 13 23-2522)		
23 21 13 23-2524 Tubing (23 21 13 23-2523)		
23 21 13 23-2525 LF 1/4" Polyethylene Tubing.....	4.04	
For Work In Restricted Working Space, Add	1.17	
23 21 13 23-2526 LF 5/16" Polyethylene Tubing.....	4.24	
For Work In Restricted Working Space, Add	1.20	
23 21 13 23-2527 LF 3/8" Polyethylene Tubing.....	4.39	
For Work In Restricted Working Space, Add	1.22	
23 21 13 23-2528 LF 1/2" Polyethylene Tubing.....	4.64	
For Work In Restricted Working Space, Add	1.32	
23 21 13 23-2529 Chrome Plated Pipe (23 21 13 23)		
23 21 13 23-2530 Chrome Plated Nipples (23 21 13 23-2529)		
23 21 13 23-2531 Close (23 21 13 23-2530)		
23 21 13 23-2532 EA 1/4" Diameter Chrome Plated Nipple, Close.....	23.77	11.26
23 21 13 23-2533 EA 3/8" Diameter Chrome Plated Nipple, Close.....	23.17	12.25
23 21 13 23-2534 EA 1/2" Diameter Chrome Plated Nipple, Close.....	28.47	14.09
23 21 13 23-2535 EA 3/4" Diameter Chrome Plated Nipple, Close.....	37.16	17.89
23 21 13 23-2536 EA 1" Diameter Chrome Plated Nipple, Close.....	49.63	23.52
23 21 13 23-2537 EA 1-1/4" Diameter Chrome Plated Nipple, Close.....	70.19	32.81
23 21 13 23-2538 EA 1-1/2" Diameter Chrome Plated Nipple, Close.....	85.16	38.45
23 21 13 23-2539 EA 2" Diameter Chrome Plated Nipple, Close.....	109.23	47.89
23 21 13 23-2540 1-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2541 EA 1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	25.30	11.69
23 21 13 23-2542 EA 3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	24.40	12.67
23 21 13 23-2543 EA 1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	29.21	14.51
23 21 13 23-2544 EA 3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	38.43	18.31
23 21 13 23-2545 2" Nipples (23 21 13 23-2530)		
23 21 13 23-2546 EA 1/4" Diameter, 2" Length, Chrome Plated Nipple.....	26.32	12.25
23 21 13 23-2547 EA 3/8" Diameter, 2" Length, Chrome Plated Nipple.....	25.26	13.09
23 21 13 23-2548 EA 1/2" Diameter, 2" Length, Chrome Plated Nipple.....	31.28	15.07
23 21 13 23-2549 EA 3/4" Diameter, 2" Length, Chrome Plated Nipple.....	40.20	18.74
23 21 13 23-2550 EA 1" Diameter, 2" Length, Chrome Plated Nipple.....	52.37	24.37
23 21 13 23-2551 EA 1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	74.48	33.80
23 21 13 23-2552 EA 1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	90.09	39.43
23 21 13 23-2553 2-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2554 EA 1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	27.76	12.67
23 21 13 23-2555 EA 3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	26.17	13.66
23 21 13 23-2556 EA 1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	32.57	15.50
23 21 13 23-2557 EA 3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	41.17	19.30
23 21 13 23-2558 EA 1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	53.80	24.93
23 21 13 23-2559 EA 1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	78.49	34.22
23 21 13 23-2560 EA 1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	95.38	39.85
23 21 13 23-2561 EA 2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	120.90	49.30
23 21 13 23-2562 3" Nipples (23 21 13 23-2530)		
23 21 13 23-2563 EA 1/4" Diameter, 3" Length, Chrome Plated Nipple.....	28.91	13.09
23 21 13 23-2564 EA 3/8" Diameter, 3" Length, Chrome Plated Nipple.....	27.63	14.09
23 21 13 23-2565 EA 1/2" Diameter, 3" Length, Chrome Plated Nipple.....	32.07	15.07
23 21 13 23-2566 EA 3/4" Diameter, 3" Length, Chrome Plated Nipple.....	44.13	19.72
23 21 13 23-2567 EA 1" Diameter, 3" Length, Chrome Plated Nipple.....	59.69	25.35
23 21 13 23-2568 EA 1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	82.85	34.79
23 21 13 23-2569 EA 1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	107.69	40.42
23 21 13 23-2570 EA 2" Diameter, 3" Length, Chrome Plated Nipple.....	130.57	49.86
23 21 13 23-2571 3-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2572 EA 1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.18	13.66
23 21 13 23-2573 EA 3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.01	14.51
23 21 13 23-2574 EA 1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	35.31	16.48
23 21 13 23-2575 EA 3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	48.44	20.14
23 21 13 23-2576 EA 1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	62.05	25.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2577 EA 1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	91.28	35.21
23 21 13 23-2578 EA 1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	111.47	40.84
23 21 13 23-2579 EA 2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	138.30	50.28
23 21 13 23-2580 4" Nipples (23 21 13 23-2530)		
23 21 13 23-2581 EA 1/4" Diameter, 4" Length, Chrome Plated Nipple.....	31.45	14.09
23 21 13 23-2582 EA 3/8" Diameter, 4" Length, Chrome Plated Nipple.....	30.79	15.07
23 21 13 23-2583 EA 1/2" Diameter, 4" Length, Chrome Plated Nipple.....	35.43	15.92
23 21 13 23-2584 EA 3/4" Diameter, 4" Length, Chrome Plated Nipple.....	50.23	20.71
23 21 13 23-2585 EA 1" Diameter, 4" Length, Chrome Plated Nipple.....	64.30	26.34
23 21 13 23-2586 EA 1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	97.74	35.63
23 21 13 23-2587 EA 1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	119.10	41.26
23 21 13 23-2588 EA 2" Diameter, 4" Length, Chrome Plated Nipple.....	147.70	50.71
23 21 13 23-2589 4-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2590 EA 1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	32.60	14.51
23 21 13 23-2591 EA 3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	33.18	15.50
23 21 13 23-2592 EA 1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	38.82	17.33
23 21 13 23-2593 EA 3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	52.26	21.13
23 21 13 23-2594 EA 1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	71.75	26.76
23 21 13 23-2595 EA 1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	103.93	36.19
23 21 13 23-2596 EA 1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	122.58	41.84
23 21 13 23-2597 EA 2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	156.35	51.27
23 21 13 23-2598 5" Nipples (23 21 13 23-2530)		
23 21 13 23-2599 EA 1/4" Diameter, 5" Length, Chrome Plated Nipple.....	36.20	15.07
23 21 13 23-2600 EA 3/8" Diameter, 5" Length, Chrome Plated Nipple.....	34.71	15.92
23 21 13 23-2601 EA 1/2" Diameter, 5" Length, Chrome Plated Nipple.....	40.18	17.89
23 21 13 23-2602 EA 3/4" Diameter, 5" Length, Chrome Plated Nipple.....	54.20	21.55
23 21 13 23-2603 EA 1" Diameter, 5" Length, Chrome Plated Nipple.....	76.33	27.18
23 21 13 23-2604 EA 1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	109.58	36.62
23 21 13 23-2605 EA 1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	130.24	42.26
23 21 13 23-2606 EA 2" Diameter, 5" Length, Chrome Plated Nipple.....	161.99	51.69
23 21 13 23-2607 5-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2608 EA 1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	37.37	15.50
23 21 13 23-2609 EA 3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	35.96	16.48
23 21 13 23-2610 EA 1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	43.77	18.31
23 21 13 23-2611 EA 3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	56.15	22.11
23 21 13 23-2612 EA 1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	78.78	27.75
23 21 13 23-2613 EA 1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	116.39	37.04
23 21 13 23-2614 EA 1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	136.37	42.68
23 21 13 23-2615 EA 2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	169.15	52.11
23 21 13 23-2616 6" Nipples (23 21 13 23-2530)		
23 21 13 23-2617 EA 1/4" Diameter, 6" Length, Chrome Plated Nipple.....	38.72	15.92
23 21 13 23-2618 EA 3/8" Diameter, 6" Length, Chrome Plated Nipple.....	36.70	16.91
23 21 13 23-2619 EA 1/2" Diameter, 6" Length, Chrome Plated Nipple.....	45.03	18.74
23 21 13 23-2620 EA 3/4" Diameter, 6" Length, Chrome Plated Nipple.....	57.75	22.54
23 21 13 23-2621 EA 1" Diameter, 6" Length, Chrome Plated Nipple.....	86.02	28.17
23 21 13 23-2622 EA 1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	120.63	37.60
23 21 13 23-2623 EA 1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	145.74	43.24
23 21 13 23-2624 EA 2" Diameter, 6" Length, Chrome Plated Nipple.....	175.69	52.68
23 21 13 23-2625 8" Nipples (23 21 13 23-2530)		
23 21 13 23-2626 EA 3/8" Diameter, 8" Length, Chrome Plated Nipple.....	43.26	17.89
23 21 13 23-2627 EA 1/2" Diameter, 8" Length, Chrome Plated Nipple.....	62.43	19.72
23 21 13 23-2628 EA 3/4" Diameter, 8" Length, Chrome Plated Nipple.....	75.79	23.52
23 21 13 23-2629 EA 1" Diameter, 8" Length, Chrome Plated Nipple.....	100.26	29.15
23 21 13 23-2630 EA 1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	143.11	38.45
23 21 13 23-2631 EA 1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	175.06	44.09
23 21 13 23-2632 EA 2" Diameter, 8" Length, Chrome Plated Nipple.....	215.51	53.52
23 21 13 23-2633 10" Nipples (23 21 13 23-2530)		
23 21 13 23-2634 EA 3/8" Diameter, 10" Length, Chrome Plated Nipple.....	49.29	17.89
23 21 13 23-2635 EA 1/2" Diameter, 10" Length, Chrome Plated Nipple.....	70.02	19.72
23 21 13 23-2636 EA 3/4" Diameter, 10" Length, Chrome Plated Nipple.....	84.58	23.52
23 21 13 23-2637 EA 1" Diameter, 10" Length, Chrome Plated Nipple.....	113.56	29.15
23 21 13 23-2638 EA 1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	171.59	38.45
23 21 13 23-2639 EA 1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	196.76	44.09
23 21 13 23-2640 EA 2" Diameter, 10" Length, Chrome Plated Nipple.....	250.19	53.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2641		12" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2642	EA 3/8" Diameter, 12" Length, Chrome Plated Nipple.....	54.95	19.72
	23 21	13 23-2643	EA 1/2" Diameter, 12" Length, Chrome Plated Nipple.....	73.31	20.71
	23 21	13 23-2644	EA 3/4" Diameter, 12" Length, Chrome Plated Nipple.....	93.08	24.37
	23 21	13 23-2645	EA 1" Diameter, 12" Length, Chrome Plated Nipple.....	132.60	30.98
	23 21	13 23-2646	EA 1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	191.87	40.42
	23 21	13 23-2647	EA 2" Diameter, 12" Length, Chrome Plated Nipple.....	280.81	55.49
23 21	13 23-2648		18" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2649	EA 3/8" Diameter, 18" Length, Chrome Plated Nipple.....	69.07	20.71
23 21	13 23-2650		24" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2651	EA 3/8" Diameter, 24" Length, Chrome Plated Nipple.....	82.59	21.55
23 21	13 23-2652		30" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2653	EA 3/8" Diameter, 30" Length, Chrome Plated Nipple.....	91.28	22.54
23 21	13 23-2654		36" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2655	EA 3/8" Diameter, 36" Length, Chrome Plated Nipple.....	100.00	23.52
23 21	13 23-2656		Chrome Plated Fittings <small>(23 21 13 23-2529)</small>		
23 21	13 23-2657		Chrome Plated 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2658	EA 1/4" 90 Degree Elbow, Chrome Plated.....	29.86	13.09
	23 21	13 23-2659	EA 3/8" 90 Degree Elbow, Chrome Plated.....	30.62	14.09
	23 21	13 23-2660	EA 1/2" 90 Degree Elbow, Chrome Plated.....	34.26	15.07
	23 21	13 23-2661	EA 3/4" 90 Degree Elbow, Chrome Plated.....	43.85	19.72
	23 21	13 23-2662	EA 1" 90 Degree Elbow, Chrome Plated.....	59.20	25.35
	23 21	13 23-2663	EA 1-1/4" 90 Degree Elbow, Chrome Plated.....	90.08	34.79
	23 21	13 23-2664	EA 1-1/2" 90 Degree Elbow, Chrome Plated.....	107.90	40.42
	23 21	13 23-2665	EA 2" 90 Degree Elbow, Chrome Plated.....	146.44	49.86
23 21	13 23-2666		Chrome Plated Street 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2667	EA 1/4" Street 90 Degree Elbow, Chrome Plated.....	34.11	13.09
	23 21	13 23-2668	EA 3/8" Street 90 Degree Elbow, Chrome Plated.....	35.28	14.09
	23 21	13 23-2669	EA 1/2" Street 90 Degree Elbow, Chrome Plated.....	37.50	15.07
	23 21	13 23-2670	EA 3/4" Street 90 Degree Elbow, Chrome Plated.....	48.63	19.72
	23 21	13 23-2671	EA 1" Street 90 Degree Elbow, Chrome Plated.....	68.02	25.35
	23 21	13 23-2672	EA 1-1/4" Street 90 Degree Elbow, Chrome Plated.....	99.12	34.79
	23 21	13 23-2673	EA 1-1/2" Street 90 Degree Elbow, Chrome Plated.....	120.56	40.42
	23 21	13 23-2674	EA 2" Street 90 Degree Elbow, Chrome Plated.....	176.23	49.86
23 21	13 23-2675		Chrome Plated 45 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2676	EA 1/4" 45 Degree Elbow, Chrome Plated.....	30.79	13.09
	23 21	13 23-2677	EA 3/8" 45 Degree Elbow, Chrome Plated.....	31.96	14.09
	23 21	13 23-2678	EA 1/2" 45 Degree Elbow, Chrome Plated.....	35.22	15.07
	23 21	13 23-2679	EA 3/4" 45 Degree Elbow, Chrome Plated.....	47.50	19.72
	23 21	13 23-2680	EA 1" 45 Degree Elbow, Chrome Plated.....	63.29	25.35
	23 21	13 23-2681	EA 1-1/4" 45 Degree Elbow, Chrome Plated.....	94.98	34.79
	23 21	13 23-2682	EA 1-1/2" 45 Degree Elbow, Chrome Plated.....	114.46	40.42
	23 21	13 23-2683	EA 2" 45 Degree Elbow, Chrome Plated.....	164.46	49.86
23 21	13 23-2684		Chrome Plated Street 45 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2685	EA 1/2" Street 45 Degree Elbow, Chrome Plated.....	41.06	15.07
23 21	13 23-2686		Chrome Plated Couplings <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2687	EA 1/4" Coupling, Chrome Plated.....	29.28	13.09
	23 21	13 23-2688	EA 3/8" Coupling, Chrome Plated.....	30.69	14.09
	23 21	13 23-2689	EA 1/2" Coupling, Chrome Plated.....	34.50	15.07
	23 21	13 23-2690	EA 3/4" Coupling, Chrome Plated.....	43.94	19.72
	23 21	13 23-2691	EA 1" Coupling, Chrome Plated.....	57.19	25.35
	23 21	13 23-2692	EA 1-1/4" Coupling, Chrome Plated.....	82.73	34.79
	23 21	13 23-2693	EA 1-1/2" Coupling, Chrome Plated.....	101.75	40.42
	23 21	13 23-2694	EA 2" Coupling, Chrome Plated.....	138.93	49.86
23 21	13 23-2695		Chrome Plated Unions <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2696	EA 1/4" Union, Chrome Plated.....	45.62	15.07
	23 21	13 23-2697	EA 3/8" Union, Chrome Plated.....	47.05	15.92
	23 21	13 23-2698	EA 1/2" Union, Chrome Plated.....	56.54	17.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2699 EA 3/4" Union, Chrome Plated	70.42	23.52
23 21 13 23-2700 EA 1" Union, Chrome Plated	89.13	30.00
23 21 13 23-2701 EA 1-1/4" Union, Chrome Plated	142.64	40.42
23 21 13 23-2702 EA 1-1/2" Union, Chrome Plated	177.06	47.89
23 21 13 23-2703 EA 2" Union, Chrome Plated	230.07	58.31
23 21 13 23-2704 Chrome Plated Caps (23 21 13 23-2656)		
23 21 13 23-2705 EA 1/4" Cap, Chrome Plated	19.18	6.62
23 21 13 23-2706 EA 3/8" Cap, Chrome Plated	19.88	7.04
23 21 13 23-2707 EA 1/2" Cap, Chrome Plated	22.57	7.46
23 21 13 23-2708 EA 3/4" Cap, Chrome Plated	28.28	9.86
23 21 13 23-2709 EA 1" Cap, Chrome Plated	33.83	12.67
23 21 13 23-2710 EA 1-1/4" Cap, Chrome Plated	49.62	17.33
23 21 13 23-2711 EA 1-1/2" Cap, Chrome Plated	64.77	20.14
23 21 13 23-2712 EA 2" Cap, Chrome Plated	93.98	26.34
23 21 13 23-2713 Chrome Plated Plugs (23 21 13 23-2656)		
23 21 13 23-2714 EA 1/4" Plug, Chrome Plated	15.94	6.62
23 21 13 23-2715 EA 3/8" Plug, Chrome Plated	16.64	7.04
23 21 13 23-2716 EA 1/2" Plug, Chrome Plated	19.16	7.46
23 21 13 23-2717 EA 3/4" Plug, Chrome Plated	25.85	9.86
23 21 13 23-2718 EA 1" Plug, Chrome Plated	31.98	12.67
23 21 13 23-2719 EA 1-1/4" Plug, Chrome Plated	43.24	17.33
23 21 13 23-2720 EA 1-1/2" Plug, Chrome Plated	53.07	20.14
23 21 13 23-2721 EA 2" Plug, Chrome Plated	73.63	26.34
23 21 13 23-2722 Chrome Plated Tees (23 21 13 23-2656)		
23 21 13 23-2723 EA 1/4" Chrome Plated Tee	41.81	19.72
23 21 13 23-2724 EA 3/8" Chrome Plated Tee	44.62	21.55
23 21 13 23-2725 EA 1/2" Chrome Plated Tee	49.60	23.52
23 21 13 23-2726 EA 3/4" Chrome Plated Tee	61.75	29.15
23 21 13 23-2727 EA 1" Chrome Plated Tee	86.94	37.60
23 21 13 23-2728 EA 1-1/4" Chrome Plated Tee	119.83	51.69
23 21 13 23-2729 EA 1-1/2" Chrome Plated Tee	152.04	60.14
23 21 13 23-2730 EA 2" Chrome Plated Tee	206.73	74.23
23 21 13 23-2731 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2656)		
23 21 13 23-2732 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	47.44	23.52
23 21 13 23-2733 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	55.89	29.15
23 21 13 23-2734 Chrome Plated Bell Reducers (23 21 13 23-2656)		
23 21 13 23-2735 EA 1/2" x 3/8" Bell Reducer, Chrome Plated	51.35	23.52
23 21 13 23-2736 EA 3/4" x 1/2" Bell Reducer, Chrome Plated	62.64	29.15
23 21 13 23-2737 EA 1" x 1/2" Bell Reducer, Chrome Plated	79.71	37.60
23 21 13 23-2738 Chrome Plated Reducing Tees (23 21 13 23-2656)		
23 21 13 23-2739 EA 3/4" x 1/2" Reducing Tee, Chrome Plated	67.61	29.15
23 21 13 23-2740 Chrome Plated Bushings (23 21 13 23-2656)		
23 21 13 23-2741 EA 3/8" x 1/4" Bushing, Chrome Plated	15.84	6.62
23 21 13 23-2742 EA 1/2" x 1/4" Bushing, Chrome Plated	17.05	7.04
23 21 13 23-2743 EA 1/2" x 3/8" Bushing, Chrome Plated	17.75	7.46
23 21 13 23-2744 EA 3/4" x 1/2" Bushing, Chrome Plated	22.63	9.86
23 21 13 23-2745 EA 1" x 3/4" Bushing, Chrome Plated	32.60	12.67
23 21 13 23-2746 EA 1-1/4" x 1" Bushing, Chrome Plated	47.45	17.33
23 21 13 23-2747 Aluminum Tubing Assemblies (23 21 13 23)		
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2748 LF 1/8" Inside Diameter Aluminum Pipe/Tubing Assembly	11.45	4.93
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2749 LF 3/16" Inside Diameter Aluminum Pipe/Tubing Assembly	13.07	5.63
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2750 LF 1/4" Inside Diameter Aluminum Pipe/Tubing Assembly	14.58	6.34
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2751 LF 5/16" Inside Diameter Aluminum Pipe/Tubing Assembly	16.05	7.04
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2752	LF		3/8" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	17.73	7.74
23 21 13 23-2753	LF		1/2" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	20.01	8.45
23 21 13 23-2754	LF		5/8" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	23.32	9.73
23 21 13 23-2755	LF		3/4" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	27.96	11.03
23 21 13 23-2756	LF		7/8" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	32.08	12.31
23 21 13 23-2757	LF		1" Inside Diameter Aluminum Pipe/Tubing Assembly	37.07	12.97
23 21 16 Hydronic Piping Specialties (23 21)					
23 21 16 00-0001 Vent Valves (23 21 16)					
23 21 16 00-0002	EA		1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A)	79.81	21.14
23 21 16 00-0003	EA		1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74)	175.21	22.73
23 21 16 00-0004	EA		1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75)	167.68	22.73
23 21 16 00-0005	EA		1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H)	172.95	22.73
23 21 16 00-0006	EA		3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78)	219.06	22.73
23 21 16 00-0007	EA		1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79)	165.61	22.73
23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)					
23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)					
23 21 16 00-0010	EA		2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	277.39	35.42
			<i>For Flanged Inlet, Add</i>	93.22	
23 21 16 00-0011	EA		3" Cast Iron, Threaded Inlet, Drip-Pan Elbow	316.44	41.98
			<i>For Flanged Inlet, Add</i>	100.08	
23 21 16 00-0012	EA		3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	394.34	48.54
			<i>For Flanged Inlet, Add</i>	135.01	
23 21 16 00-0013	EA		4" Cast Iron, Threaded Inlet, Drip-Pan Elbow	571.67	55.10
			<i>For Flanged Inlet, Add</i>	237.54	
23 21 16 00-0014	EA		5" Cast Iron, Threaded Inlet, Drip-Pan Elbow	648.53	65.59
			<i>For Flanged Inlet, Add</i>	262.60	
23 21 16 00-0015	EA		6" Cast Iron, Threaded Inlet, Drip-Pan Elbow	892.29	82.64
			<i>For Flanged Inlet, Add</i>	383.75	
23 21 16 00-0016	EA		8" Cast Iron, Threaded Inlet, Drip-Pan Elbow	1,938.95	108.88
			<i>For Flanged Inlet, Add</i>	1,021.15	
23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)					
23 21 16 00-0018	EA		2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	593.91	35.42
			<i>For Flanged Inlet, Add</i>	308.45	
23 21 16 00-0019	EA		3" Cast Steel, Threaded Inlet, Drip-Pan Elbow	718.92	41.98
			<i>For Flanged Inlet, Add</i>	373.76	
23 21 16 00-0020	EA		3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,014.95	48.54
			<i>For Flanged Inlet, Add</i>	557.03	
23 21 16 00-0021	EA		4" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,041.50	55.10
			<i>For Flanged Inlet, Add</i>	557.03	
23 21 16 00-0022	EA		5" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,484.56	65.59
			<i>For Flanged Inlet, Add</i>	831.10	
23 21 16 00-0023	EA		6" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,550.15	82.64
			<i>For Flanged Inlet, Add</i>	831.10	
23 21 16 00-0024	EA		8" Cast Steel, Threaded Inlet, Drip-Pan Elbow	2,536.07	108.88
			<i>For Flanged Inlet, Add</i>	1,427.19	
23 21 16 00-0025 Y-Type Strainers (23 21 16)					
23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)					
23 21 16 00-0027	EA		1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	86.47	15.78
			<i>For Galvanized Body, Add</i>	20.69	
			<i>For Work In Restricted Working Space, Add</i>	13.53	
23 21 16 00-0028	EA		1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	87.17	16.07
			<i>For Galvanized Body, Add</i>	20.69	
			<i>For Work In Restricted Working Space, Add</i>	13.74	
23 21 16 00-0029	EA		3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	111.38	21.70
			<i>For Galvanized Body, Add</i>	24.70	
			<i>For Work In Restricted Working Space, Add</i>	18.60	
23 21 16 00-0030	EA		1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	140.71	25.92
			<i>For Galvanized Body, Add</i>	33.37	
			<i>For Work In Restricted Working Space, Add</i>	22.19	
23 21 16 00-0031	EA		1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	183.02	32.05
			<i>For Galvanized Body, Add</i>	45.72	
			<i>For Work In Restricted Working Space, Add</i>	27.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	208.76	34.52
<i>For Galvanized Body, Add</i>	55.07	
<i>For Work In Restricted Working Space, Add</i>	29.99	
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	282.24	39.44
<i>For Galvanized Body, Add</i>	84.77	
<i>For Work In Restricted Working Space, Add</i>	33.81	
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	522.00	49.31
<i>For Galvanized Body, Add</i>	190.56	
<i>For Work In Restricted Working Space, Add</i>	42.27	
23 21 16 00-0035 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	674.02	61.71
<i>For Galvanized Body, Add</i>	248.96	
<i>For Work In Restricted Working Space, Add</i>	52.83	
23 21 16 00-0036 Flanged, 125 LB, Iron Body , Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	330.31	147.93
<i>For Galvanized Body, Add</i>	72.47	
<i>For Work In Restricted Working Space, Add</i>	55.61	
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	391.66	187.81
<i>For Galvanized Body, Add</i>	78.42	
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	673.65	239.52
<i>For Galvanized Body, Add</i>	186.95	
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	927.47	401.54
<i>For Galvanized Body, Add</i>	212.15	
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	979.45	404.43
<i>For Galvanized Body, Add</i>	237.34	
<i>For Work In Restricted Working Space, Add</i>	151.43	
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,153.25	449.37
<i>For Galvanized Body, Add</i>	294.77	
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,874.37	574.19
<i>For Galvanized Body, Add</i>	580.55	
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,461.63	699.02
<i>For Galvanized Body, Add</i>	1,293.93	
<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,939.04	624.12
<i>For Galvanized Body, Add</i>	1,345.40	
<i>For Work In Restricted Working Space, Add</i>	374.47	
23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	73.12	16.07
<i>For 300 LB Rating, Add</i>	46.46	
<i>For Work In Restricted Working Space, Add</i>	13.74	
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	97.52	21.70
<i>For 300 LB Rating, Add</i>	60.40	
<i>For Work In Restricted Working Space, Add</i>	18.60	
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	118.73	25.92
<i>For 300 LB Rating, Add</i>	76.09	
<i>For Work In Restricted Working Space, Add</i>	22.19	
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	147.62	32.05
<i>For 300 LB Rating, Add</i>	95.27	
<i>For Work In Restricted Working Space, Add</i>	27.47	
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	171.41	34.52
<i>For 300 LB Rating, Add</i>	123.73	
<i>For Work In Restricted Working Space, Add</i>	29.59	
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	230.93	39.44
<i>For 300 LB Rating, Add</i>	200.97	
<i>For Work In Restricted Working Space, Add</i>	33.81	
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	335.99	49.31
<i>For 300 LB Rating, Add</i>	331.67	
<i>For Work In Restricted Working Space, Add</i>	42.27	
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	580.63	61.71
<i>For 300 LB Rating, Add</i>	687.68	
<i>For Work In Restricted Working Space, Add</i>	52.83	
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	979.04	73.97
<i>For 300 LB Rating, Add</i>	1,305.09	
<i>For Work In Restricted Working Space, Add</i>	63.40	
23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	574.38	187.81
<i>For 300 LB Rating, Add</i>	203.74	
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	602.12	204.29
<i>For 300 LB Rating, Add</i>	207.58	
<i>For Work In Restricted Working Space, Add</i>	76.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0059 EA 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	695.92	239.52
For 300 LB Rating, Add	237.70	
For Work In Restricted Working Space, Add	89.93	
23 21 16 00-0060 EA 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,465.78	401.54
For 300 LB Rating, Add	577.56	
For Work In Restricted Working Space, Add	150.95	
23 21 16 00-0061 EA 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	2,022.86	449.37
For 300 LB Rating, Add	875.48	
For Work In Restricted Working Space, Add	169.12	
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	3,203.41	574.19
For 300 LB Rating, Add	1,494.08	
For Work In Restricted Working Space, Add	213.98	
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	9,811.19	699.02
For 300 LB Rating, Add	5,362.45	
For Work In Restricted Working Space, Add	262.13	
23 21 16 00-0064 Cast Iron Body, Suction Diffusers <small>(23 21 16)</small>		
Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	499.51	55.51
For Work In Restricted Working Space, Add	27.18	
23 21 16 00-0066 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	525.92	61.57
For Work In Restricted Working Space, Add	30.19	
23 21 16 00-0067 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	535.08	64.66
For Work In Restricted Working Space, Add	31.71	
23 21 16 00-0068 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,024.94	204.29
For Work In Restricted Working Space, Add	76.85	
23 21 16 00-0069 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	556.23	75.24
For Work In Restricted Working Space, Add	36.83	
23 21 16 00-0070 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	625.75	75.24
For Work In Restricted Working Space, Add	36.83	
23 21 16 00-0071 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,075.36	222.37
For Work In Restricted Working Space, Add	83.39	
23 21 16 00-0072 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,101.25	239.52
For Work In Restricted Working Space, Add	89.93	
23 21 16 00-0073 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,346.08	321.18
For Work In Restricted Working Space, Add	120.44	
23 21 16 00-0074 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,590.92	401.54
For Work In Restricted Working Space, Add	150.95	
23 21 16 00-0075 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,805.15	403.81
For Work In Restricted Working Space, Add	151.43	
23 21 16 00-0076 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	2,170.79	449.37
For Work In Restricted Working Space, Add	169.12	
23 21 16 00-0077 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	2,471.65	574.19
For Work In Restricted Working Space, Add	213.98	
23 21 16 00-0078 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	3,735.23	574.19
For Work In Restricted Working Space, Add	213.98	
23 21 16 00-0079 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	4,280.11	699.02
For Work In Restricted Working Space, Add	262.13	
23 21 16 00-0080 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	4,971.19	699.02
For Work In Restricted Working Space, Add	262.13	
23 21 16 00-0081 Duplex Strainers <small>(23 21 16)</small>		
23 21 16 00-0082 Iron Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0083 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small>		
Note: With brass or stainless steel basket.		
23 21 16 00-0084 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	767.24	35.08
For Work In Restricted Working Space, Add	21.06	
23 21 16 00-0085 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	857.26	40.15
For Work In Restricted Working Space, Add	24.11	
23 21 16 00-0086 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,158.03	47.20
For Work In Restricted Working Space, Add	28.30	
23 21 16 00-0087 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,453.34	51.43
For Work In Restricted Working Space, Add	30.86	
23 21 16 00-0088 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,944.61	62.69
For Work In Restricted Working Space, Add	37.74	
23 21 16 00-0089 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,447.69	80.31
For Work In Restricted Working Space, Add	48.17	
23 21 16 00-0090 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small>		
Note: With brass or stainless steel basket.		
23 21 16 00-0091 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,667.15	187.81
For Work In Restricted Working Space, Add	70.45	
23 21 16 00-0092 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,761.10	204.29
For Work In Restricted Working Space, Add	76.85	
23 21 16 00-0093 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	3,530.77	239.52
For Work In Restricted Working Space, Add	89.93	
23 21 16 00-0094 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	5,528.29	355.75
For Work In Restricted Working Space, Add	133.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,728.70 169.12	449.37
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	20,317.17 213.98	574.19
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	28,028.79 262.13	699.02
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	31,967.57 528.92	881.26
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	37,842.17 374.47	998.60
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	47,260.68 411.92	1,098.45
23 21 16 00-0101 Bronze Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers <small>(23 21 16 00-0101)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,413.44 21.06	35.22
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,568.81 24.11	40.15
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,290.70 28.30	47.20
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,007.13 30.86	51.43
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,883.21 37.74	62.69
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,771.11 48.17	80.31
23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers <small>(23 21 16 00-0101)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,462.52 70.45	187.81
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,629.08 76.85	204.29
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	7,705.67 89.93	239.52
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	12,135.53 133.74	355.75
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	26,266.60 169.12	449.37
23 21 16 00-0115 Cast Steel Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers <small>(23 21 16 00-0115)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,194.52 24.11	40.15
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,701.78 28.30	47.20
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,203.62 30.86	51.43
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,411.16 37.74	62.69
23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers <small>(23 21 16 00-0115)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,555.42 70.45	187.81
23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,105.29 76.85	204.29
23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	8,016.39 89.93	239.52
23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	11,756.48 133.74	355.75
23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	20,013.85 169.12	449.37
23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	38,908.83 213.98	574.19
23 21 16 00-0128 Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0128)</small> Note: With stainless steel basket.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0130 EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	4,462.10	40.15
<i>For Work In Restricted Working Space, Add</i>	24.11	
23 21 16 00-0131 EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	5,636.39	47.20
<i>For Work In Restricted Working Space, Add</i>	28.30	
23 21 16 00-0132 EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	6,797.16	51.43
<i>For Work In Restricted Working Space, Add</i>	30.86	
23 21 16 00-0133 EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	10,877.23	62.69
<i>For Work In Restricted Working Space, Add</i>	37.74	
23 21 16 00-0134 Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0128)</small>		
Note: With stainless steel basket.		
23 21 16 00-0135 EA 2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	11,432.54	187.81
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0136 EA 2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	12,021.88	204.29
<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0137 EA 3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	18,800.34	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0138 EA 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	23,003.52	355.75
<i>For Work In Restricted Working Space, Add</i>	133.74	
23 21 16 00-0139 EA 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	40,323.73	449.37
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0140 EA 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	74,391.01	574.19
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0141 Pressure Regulating Valve <small>(23 21 16)</small>		
23 21 16 00-0142 Screwed Ends, Iron Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating		
23 21 16 00-0143 EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	231.95	17.61
<i>For Work In Restricted Working Space, Add</i>	21.13	
23 21 16 00-0144 EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	284.12	19.72
<i>For Work In Restricted Working Space, Add</i>	23.48	
23 21 16 00-0145 EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	369.87	21.13
<i>For Work In Restricted Working Space, Add</i>	24.86	
23 21 16 00-0146 EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	624.44	23.66
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 21 16 00-0147 EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	844.53	28.17
<i>For Work In Restricted Working Space, Add</i>	33.80	
23 21 16 00-0148 EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	1,212.55	43.18
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 21 16 00-0149 EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	1,320.32	48.63
<i>For Work In Restricted Working Space, Add</i>	58.36	
23 21 16 00-0150 EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve.....	1,451.24	140.70
<i>For Work In Restricted Working Space, Add</i>	64.84	
23 21 16 00-0151 Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0141)</small>		
Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0152 Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
23 21 16 00-0153 EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	385.45	23.67
<i>For Work In Restricted Working Space, Add</i>	28.37	
23 21 16 00-0154 EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	486.09	33.53
<i>For Work In Restricted Working Space, Add</i>	40.25	
23 21 16 00-0155 EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	622.94	40.85
<i>For Work In Restricted Working Space, Add</i>	49.15	
23 21 16 00-0156 EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	827.28	49.60
<i>For Work In Restricted Working Space, Add</i>	57.12	
23 21 16 00-0157 EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,102.15	56.36
<i>For Work In Restricted Working Space, Add</i>	65.03	
23 21 16 00-0158 EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,290.44	78.71
<i>For Work In Restricted Working Space, Add</i>	78.71	
23 21 16 00-0159 Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160 EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	2,896.07	190.21
<i>For Work In Restricted Working Space, Add</i>	71.55	
23 21 16 00-0161 EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	3,597.33	223.00
<i>For Work In Restricted Working Space, Add</i>	83.73	
23 21 16 00-0162 EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	4,650.66	373.86
<i>For Work In Restricted Working Space, Add</i>	140.55	
23 21 16 00-0163 EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	11,412.77	415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 21 16 00-0164 Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0141)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0165				Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0166	EA			1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,080.25	17.19
				<i>For Work In Restricted Working Space, Add</i>	25.78	
23 21 16 00-0167	EA			3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,123.50	17.19
				<i>For Work In Restricted Working Space, Add</i>	25.78	
23 21 16 00-0168	EA			1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,266.19	21.70
				<i>For Work In Restricted Working Space, Add</i>	32.55	
23 21 16 00-0169	EA			1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,665.80	27.61
				<i>For Work In Restricted Working Space, Add</i>	41.42	
23 21 16 00-0170	EA			1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	3,052.16	31.84
				<i>For Work In Restricted Working Space, Add</i>	47.76	
23 21 16 00-0171	EA			2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	3,781.96	37.47
				<i>For Work In Restricted Working Space, Add</i>	56.22	
23 21 16 00-0172				Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0173	EA			2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	4,674.04	190.21
				<i>For Work In Restricted Working Space, Add</i>	71.55	
23 21 16 00-0174	EA			3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	5,762.25	223.00
				<i>For Work In Restricted Working Space, Add</i>	83.73	
23 21 16 00-0175	EA			4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	8,738.88	373.86
				<i>For Work In Restricted Working Space, Add</i>	140.55	
23 21 16 00-0176	EA			6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	19,074.92	415.01
				<i>For Work In Restricted Working Space, Add</i>	156.19	
23 21 16 00-0177				Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
23 21 16 00-0178	EA			1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	258.51	18.31
23 21 16 00-0179	EA			3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	317.97	20.28
23 21 16 00-0180	EA			1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	417.06	21.55
23 21 16 00-0181	EA			1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	711.67	24.51
23 21 16 00-0182	EA			1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	964.83	29.29
23 21 16 00-0183	EA			2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,383.49	44.87
23 21 16 00-0184	EA			2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,498.94	48.88
23 21 16 00-0185	EA			3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,654.33	56.28
23 21 16 00-0186				Screwed Ends, Bronze Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
				Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187	EA			1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	191.38	17.61
23 21 16 00-0188	EA			3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	210.55	19.72
23 21 16 00-0189	EA			1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	257.72	21.83
23 21 16 00-0190	EA			1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	582.98	23.66
23 21 16 00-0191	EA			1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	634.83	28.17
23 21 16 00-0192	EA			2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	996.42	43.18
23 21 16 00-0193				Dual Unit Reducing And Relief Valve <small>(23 21 16)</small>		
23 21 16 00-0194	EA			1/2" Dual Unit Reducing And Relief Valve.....	217.79	42.98
23 21 16 00-0195				Safety Relief Valve <small>(23 21 16)</small>		
				Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0196				Threaded Inlet, Bronze Body Safety Valves <small>(23 21 16 00-0195)</small>		
				Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197	EA			1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve.....	91.36	17.61
23 21 16 00-0198	EA			3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve.....	121.55	19.37
23 21 16 00-0199	EA			1" x 1" Threaded Inlet, Bronze Body Safety Valve.....	171.19	23.59
23 21 16 00-0200	EA			1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve.....	215.88	25.00
23 21 16 00-0201	EA			1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve.....	296.28	33.45
23 21 16 00-0202	EA			2" x 2" Threaded Inlet, Bronze Body Safety Valve.....	392.02	39.43
23 21 16 00-0203	EA			2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve.....	449.09	49.30
23 21 16 00-0204				Threaded, Bronze Body, Temperature And Pressure Relief Valves <small>(23 21 16)</small>		
23 21 16 00-0205	EA			1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	97.43	35.91
				<i>For Cast Iron Body, Add</i>	48.44	
23 21 16 00-0206	EA			3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	124.41	43.10
				<i>For Cast Iron Body, Add</i>	67.48	
23 21 16 00-0207	EA			1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	179.88	57.46
				<i>For Cast Iron Body, Add</i>	107.48	
23 21 16 00-0208	EA			1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	283.34	61.55
				<i>For Cast Iron Body, Add</i>	228.41	
23 21 16 00-0209	EA			1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	462.19	69.01
				<i>For Cast Iron Body, Add</i>	436.95	
23 21 16 00-0210	EA			2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	542.74	99.20
				<i>For Cast Iron Body, Add</i>	475.80	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 16 00-0211		Horizontal Steel Expansion Tanks ^(23 21 16)		
		Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212	EA	10 Gallon Horizontal Steel Expansion Tank.....	628.53	140.89
23 21 16 00-0213	EA	15 Gallon Horizontal Steel Expansion Tank.....	872.35	176.11
23 21 16 00-0214	EA	30 Gallon Horizontal Steel Expansion Tank.....	1,129.20	211.34
23 21 16 00-0215	EA	40 Gallon Horizontal Steel Expansion Tank.....	1,302.20	246.56
23 21 16 00-0216	EA	60 Gallon Horizontal Steel Expansion Tank.....	1,473.43	249.64
23 21 16 00-0217		Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks ^(23 21 16)		
		Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
23 21 16 00-0218	EA	7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,563.51	105.67
23 21 16 00-0219	EA	10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,638.02	123.27
23 21 16 00-0220	EA	21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,424.45	140.89
23 21 16 00-0221	EA	33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,529.01	158.50
23 21 16 00-0222	EA	44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,412.52	176.11
23 21 16 00-0223	EA	55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,602.61	193.72
23 21 16 00-0224	EA	68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,275.77	211.34
23 21 16 00-0225	EA	77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,576.81	228.94
23 21 16 00-0226	EA	90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,041.96	246.56
23 21 16 00-0227	EA	110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,195.60	281.78
23 21 16 00-0228	EA	132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,502.64	317.00
23 21 16 00-0229	EA	158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,451.42	352.23
23 21 16 00-0230	EA	211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	8,655.56	422.67
23 21 16 00-0231		Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX)		
		^(23 21 16) Note: ASME. Precharged with working pressure 125 psi		
23 21 16 00-0232	EA	8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,776.16	105.67
23 21 16 00-0233	EA	11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,839.11	123.27
23 21 16 00-0234	EA	22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,618.61	140.89
23 21 16 00-0235	EA	34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,799.44	158.50
23 21 16 00-0236	EA	44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,548.90	176.11
23 21 16 00-0237	EA	56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,736.67	193.72
23 21 16 00-0238	EA	67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,546.21	211.34
23 21 16 00-0239	EA	77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,914.28	228.94
23 21 16 00-0240	EA	91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,432.58	246.56
23 21 16 00-0241	EA	111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,579.29	281.78
23 21 16 00-0242	EA	132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	6,851.67	317.00
23 21 16 00-0243	EA	158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,943.74	352.23
23 21 16 00-0244	EA	211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	9,157.13	422.67
23 21 16 00-0245		Diaphragm Type (Residential Style) Steel Expansion Tanks ^(23 21 16)		
23 21 16 00-0246	EA	2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1)	91.79	12.97
23 21 16 00-0247	EA	4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1)	128.10	12.97
23 21 16 00-0248		Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks ^(23 21 16)		
23 21 16 00-0249	EA	15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,215.96	422.81
23 21 16 00-0250	EA	20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,253.64	422.81
23 21 16 00-0251	EA	30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,291.31	422.81
23 21 16 00-0252	EA	40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,389.26	422.81
23 21 16 00-0253	EA	47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,704.45	563.41
23 21 16 00-0254	EA	60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,930.28	563.70
23 21 16 00-0255	EA	80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,975.03	563.70
23 21 16 00-0256	EA	87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,019.78	563.70
23 21 16 00-0257	EA	120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,560.21	704.44
23 21 16 00-0258	EA	187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	6,354.52	704.44
23 21 16 00-0259	EA	264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	8,043.38	845.06
23 21 16 00-0260		ASME Construction Compression Tanks ^(23 21 16)		
		Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.		
23 21 16 00-0261	EA	15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	974.26	247.97
		<i>For Galvanized Steel Tanks, Add</i>	299.28	
23 21 16 00-0262	EA	24 Gallon, 13" x 51" ASME Construction Compression Tank	994.82	255.01
		<i>For Galvanized Steel Tanks, Add</i>	303.69	
23 21 16 00-0263	EA	30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	1,077.91	263.47
		<i>For Galvanized Steel Tanks, Add</i>	338.90	
23 21 16 00-0264	EA	40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,172.61	273.33
		<i>For Galvanized Steel Tanks, Add</i>	378.50	
23 21 16 00-0265	EA	60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,352.19	288.82
		<i>For Galvanized Steel Tanks, Add</i>	457.72	
23 21 16 00-0266	EA	80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,405.13	300.10
		<i>For Galvanized Steel Tanks, Add</i>	475.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0267 EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	1,717.87 611.76	326.87
23 21 16 00-0268 EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	1,869.59 668.97	350.82
23 21 16 00-0269 EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	2,306.39 853.43	395.90
23 21 16 00-0270 EA 180 Gallon, 30" x 60" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	2,905.44 1,109.09	453.66
23 21 16 00-0271 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	3,460.55 1,349.50	502.97
23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	3,783.01 1,477.13	546.65
23 21 16 00-0273 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,734.63 1,912.84	600.19
23 21 16 00-0274 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,895.69 1,962.02	641.05
23 21 16 00-0275 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,241.86 2,599.12	688.95
23 21 16 00-0276 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	10,231.36 4,503.12	808.70
23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)		
23 21 16 00-0278 EA 9" To 24" Diameter Compression Tank Air Fittings.....	211.73	39.44
23 21 16 00-0279 EA >100 Gallon Compression Tank Air Fittings	649.47	46.50
23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	77.44	22.73
23 21 16 00-0282 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	94.57	30.63
23 21 16 00-0283 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	126.13	37.08
23 21 16 00-0284 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	183.23	46.97
23 21 16 00-0285 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	77.44	22.73
23 21 16 00-0286 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	94.57	30.63
23 21 16 00-0287 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	126.13	37.08
23 21 16 00-0288 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	183.23	46.97
23 21 16 00-0289 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	93.53	17.61
23 21 16 00-0290 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	137.61	24.66
23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0292 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	133.19	
23 21 16 00-0293 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	165.89	
23 21 16 00-0294 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	165.84	
23 21 16 00-0295 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	189.22	
23 21 16 00-0296 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	431.83	
23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0298 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,323.83	300.10
<i>For 300 PSIG, Add</i>	130.40	
23 21 16 00-0299 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)	1,622.64	343.77
<i>For 300 PSIG, Add</i>	165.12	
23 21 16 00-0300 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	2,423.27	404.36
<i>For 300 PSIG, Add</i>	271.61	
23 21 16 00-0301 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F)	2,587.96	428.12
<i>For 300 PSIG, Add</i>	290.90	
23 21 16 00-0302 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F)	3,349.46	570.83
<i>For 300 PSIG, Add</i>	372.69	
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F)	4,201.83	679.05
<i>For 300 PSIG, Add</i>	476.08	
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F)	4,966.47	768.91
<i>For 300 PSIG, Add</i>	570.22	
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F)	7,046.19	922.45
<i>For 300 PSIG, Add</i>	847.22	
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F)	10,652.48	1,048.52
<i>For 300 PSIG, Add</i>	1,359.57	
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F)	14,339.26	1,356.84
<i>For 300 PSIG, Add</i>	1,842.50	
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F).....	29,258.18	1,647.68
<i>For 300 PSIG, Add</i>	4,014.26	
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	36,090.70	1,977.21
<i>For 300 PSIG, Add</i>	4,964.24	
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	46,947.13	2,306.75
<i>For 300 PSIG, Add</i>	6,517.81	
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F).....	54,897.27	2,636.29
<i>For 300 PSIG, Add</i>	7,635.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0312 Vortex Air Separators ^(23 21 16) Note: Without system strainer.		
23 21 16 00-0313 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N).....	1,154.08	300.10
For 300 PSIG, Add	104.94	
23 21 16 00-0314 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N).....	1,437.46	343.77
For 300 PSIG, Add	137.35	
23 21 16 00-0315 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N).....	2,376.98	404.36
For 300 PSIG, Add	264.66	
23 21 16 00-0316 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F).....	2,181.58	428.12
For 300 PSIG, Add	229.94	
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	2,922.51	570.83
For 300 PSIG, Add	308.64	
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	3,754.30	679.05
For 300 PSIG, Add	408.95	
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	4,359.47	768.91
For 300 PSIG, Add	479.17	
23 21 16 00-0320 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F).....	5,749.89	922.45
For 300 PSIG, Add	652.78	
23 21 16 00-0321 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F).....	7,879.84	1,048.52
For 300 PSIG, Add	943.67	
23 21 16 00-0322 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F).....	12,009.65	1,356.84
For 300 PSIG, Add	1,493.06	
23 21 16 00-0323 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F).....	20,103.36	1,647.68
For 300 PSIG, Add	2,641.03	
23 21 16 00-0324 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F).....	25,411.85	1,977.21
For 300 PSIG, Add	3,362.41	
23 21 16 00-0325 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F).....	33,802.29	2,306.75
For 300 PSIG, Add	4,546.08	
23 21 16 00-0326 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F).....	45,958.36	2,636.29
For 300 PSIG, Add	6,294.60	
23 21 16 00-0327 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F).....	56,144.83	2,965.83
For 300 PSIG, Add	7,747.67	
23 21 16 00-0328 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F).....	66,331.30	3,295.35
For 300 PSIG, Add	9,200.75	
23 21 16 00-0329 Grooved, With Strainer, Vortex Air Separators ^(23 21 16)		
23 21 16 00-0330 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	2,252.48	342.49
23 21 16 00-0331 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G).....	3,176.05	456.38
23 21 16 00-0332 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G).....	3,996.21	542.73
23 21 16 00-0333 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G).....	4,733.38	615.14
23 21 16 00-0334 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G).....	6,756.29	738.16
23 21 16 00-0335 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G).....	10,735.94	838.82
23 21 16 00-0336 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G).....	16,245.92	1,085.60
23 21 16 00-0337 Grooved Vortex Air Separators ^(23 21 16) Note: Without system strainer.		
23 21 16 00-0338 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	1,830.67	342.49
23 21 16 00-0339 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G).....	2,749.10	456.38
23 21 16 00-0340 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G).....	3,548.68	542.73
23 21 16 00-0341 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G).....	4,126.38	615.14
23 21 16 00-0342 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G).....	5,470.28	738.16
23 21 16 00-0343 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G).....	7,922.15	838.82
23 21 16 00-0344 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G).....	13,000.99	1,085.60
23 21 16 00-0345 Removable Head, Air Eliminator And Dirt Separator ^(23 21 16) Note: Spirovent VDN.		
23 21 16 00-0346 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,554.05	300.10
23 21 16 00-0347 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,856.46	343.77
23 21 16 00-0348 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,126.34	404.36
23 21 16 00-0349 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,924.43	619.91
23 21 16 00-0350 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	8,596.98	766.44
23 21 16 00-0351 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	11,015.41	867.88
23 21 16 00-0352 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	17,072.04	195.84
23 21 16 00-0353 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	25,061.00	1,183.48
23 21 16 00-0354 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	32,392.00	1,531.47
23 21 16 00-0355 Swivel Joints ^(23 21 16)		
23 21 16 00-0356 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) ^(23 21 16 00-0356) Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	333.50	37.05
23 21 16 00-0358 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	479.72	54.24
23 21 16 00-0359 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	665.93	63.40
23 21 16 00-0360 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,000.39	108.49
23 21 16 00-0361 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,260.53	123.27
For Stainless Steel, Add	1,520.96	
23 21 16 00-0362 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	943.46	187.81
For Stainless Steel, Add	1,062.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0363 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,270.08	149.83
23 21 16 00-0364 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,650.77	401.53
23 21 16 00-0365 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	2,981.32	507.20
23 21 16 00-0366 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) ^(23 21 16 00-0366)		
<i>Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.</i>		
23 21 16 00-0367 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	418.80	37.05
<i>For Stainless Steel, Add</i>	516.98	
23 21 16 00-0368 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	520.01	54.24
<i>For Stainless Steel, Add</i>	617.45	
23 21 16 00-0369 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	695.82	63.40
<i>For Stainless Steel, Add</i>	851.61	
23 21 16 00-0370 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,121.26	108.49
<i>For Stainless Steel, Add</i>	1,356.77	
23 21 16 00-0371 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,457.95	123.27
<i>For Stainless Steel, Add</i>	1,817.09	
23 21 16 00-0372 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	970.78	187.81
<i>For Stainless Steel, Add</i>	1,103.94	
23 21 16 00-0373 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,426.54	149.83
<i>For Stainless Steel, Add</i>	1,690.17	
23 21 16 00-0374 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,831.41	401.53
<i>For Stainless Steel, Add</i>	1,992.35	
23 21 16 00-0375 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	3,106.06	507.20
<i>For Stainless Steel, Add</i>	3,704.67	
23 21 16 00-0376 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) ^(23 21 16 00-0376)		
<i>Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.</i>		
23 21 16 00-0377 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	489.20	37.05
<i>For Stainless Steel, Add</i>	622.58	
23 21 16 00-0378 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	573.73	54.24
<i>For Stainless Steel, Add</i>	698.03	
23 21 16 00-0379 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	830.85	63.40
<i>For Stainless Steel, Add</i>	1,054.16	
23 21 16 00-0380 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,283.76	108.49
<i>For Stainless Steel, Add</i>	1,600.52	
23 21 16 00-0381 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,511.67	123.27
<i>For Stainless Steel, Add</i>	1,897.67	
23 21 16 00-0382 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,105.08	187.81
<i>For Stainless Steel, Add</i>	1,305.39	
23 21 16 00-0383 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,593.07	149.83
<i>For Stainless Steel, Add</i>	1,939.97	
23 21 16 00-0384 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	2,003.31	401.53
<i>For Stainless Steel, Add</i>	2,250.20	
23 21 16 00-0385 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	3,475.38	507.20
<i>For Stainless Steel, Add</i>	4,258.65	
23 21 16 00-0386 Basket Strainers ^(23 21 16 00-0386)		
23 21 16 00-0387 Bronze Body Basket Strainers ^(23 21 16 00-0387)		
23 21 16 00-0388 Screwed Ends, Bronze Body Basket Strainers ^(23 21 16 00-0388)		
23 21 16 00-0389 EA 1/2" Screwed Ends, Bronze Body Basket Strainer.....	278.09	28.18
<i>For Work In Restricted Working Space, Add</i>	16.77	
23 21 16 00-0390 EA 3/4" Screwed Ends, Bronze Body Basket Strainer.....	328.53	33.11
<i>For Work In Restricted Working Space, Add</i>	19.71	
23 21 16 00-0391 EA 1" Screwed Ends, Bronze Body Basket Strainer.....	381.78	39.44
<i>For Work In Restricted Working Space, Add</i>	23.48	
23 21 16 00-0392 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer.....	472.09	43.68
<i>For Work In Restricted Working Space, Add</i>	26.18	
23 21 16 00-0393 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer.....	555.95	49.31
<i>For Work In Restricted Working Space, Add</i>	29.56	
23 21 16 00-0394 EA 2" Screwed Ends, Bronze Body Basket Strainer.....	817.12	56.36
<i>For Work In Restricted Working Space, Add</i>	33.85	
23 21 16 00-0395 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer.....	1,153.11	75.38
<i>For Work In Restricted Working Space, Add</i>	45.34	
23 21 16 00-0396 EA 3" Screwed Ends, Bronze Body Basket Strainer.....	1,605.17	80.31
<i>For Work In Restricted Working Space, Add</i>	48.09	
23 21 16 00-0397 Flanged, Bronze Body Basket Strainers ^(23 21 16 00-0397)		
23 21 16 00-0398 EA 2" Flanged, Bronze Body Basket Strainer.....	1,302.14	187.81
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0399 EA 2-1/2" Flanged, Bronze Body Basket Strainer.....	1,926.12	204.29
<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0400 EA 3" Flanged, Bronze Body Basket Strainer.....	2,187.54	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0401 EA 4" Flanged, Bronze Body Basket Strainer.....	3,697.89	401.54
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0402 EA 6" Flanged, Bronze Body Basket Strainer.....	6,880.53	449.37
<i>For Work In Restricted Working Space, Add</i>	169.12	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0403 EA 8" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,439.31 213.98	574.19
23 21 16 00-0404 Iron Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0405 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0406 EA 1/2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	365.10 16.77	28.18
23 21 16 00-0407 EA 3/4" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	411.76 19.71	33.11
23 21 16 00-0408 EA 1" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	486.75 23.48	39.44
23 21 16 00-0409 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	634.74 26.18	43.68
23 21 16 00-0410 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	697.06 29.56	49.31
23 21 16 00-0411 EA 2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	827.66 33.85	56.36
23 21 16 00-0412 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,172.31 45.34	75.38
23 21 16 00-0413 EA 3" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,323.30 48.09	80.31
23 21 16 00-0414 Flanged, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0415 EA 2" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	860.38 70.45	187.81
23 21 16 00-0416 EA 2-1/2" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,099.31 76.85	204.29
23 21 16 00-0417 EA 3" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,197.30 89.93	239.52
23 21 16 00-0418 EA 4" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,854.03 150.95	401.54
23 21 16 00-0419 EA 6" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,192.89 169.12	449.37
23 21 16 00-0420 EA 8" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,563.64 213.98	574.19
23 21 16 00-0421 EA 10" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	8,171.98 262.13	699.02
23 21 16 00-0422 EA 12" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,420.47 528.70	881.26
23 21 16 00-0423 EA 14" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,172.89 374.47	998.60
23 21 16 00-0424 EA 16" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,796.35 411.92	1,098.45
23 21 16 00-0425 Cast Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0426 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0427 EA 1" Screwed Ends, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	786.40 23.48	39.44
23 21 16 00-0428 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,032.43 26.18	43.68
23 21 16 00-0429 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,163.68 29.55	49.31
23 21 16 00-0430 EA 2" Screwed Ends, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,628.07 33.85	56.36
23 21 16 00-0431 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,281.46 45.33	75.38
23 21 16 00-0432 EA 3" Screwed Ends, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,950.78 48.10	80.31
23 21 16 00-0433 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0434 EA 2" Flanged, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,440.19 70.45	187.81
23 21 16 00-0435 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,481.70 76.85	204.29
23 21 16 00-0436 EA 3" Flanged, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,825.35 89.93	239.52
23 21 16 00-0437 EA 4" Flanged, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,454.00 150.95	401.54
23 21 16 00-0438 EA 6" Flanged, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	9,490.21 169.12	449.37
23 21 16 00-0439 EA 8" Flanged, Cast Steel Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,340.72 213.98	574.19
23 21 16 00-0440 Stainless Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0441 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0442 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	481.33 23.48	39.44
23 21 16 00-0443 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	683.87 26.18	43.68
23 21 16 00-0444 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	709.07 29.55	49.31
23 21 16 00-0445 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,036.65 33.85	56.36
23 21 16 00-0446 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,462.02 45.33	75.38
23 21 16 00-0447 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,045.89 48.10	80.31
23 21 16 00-0448 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		
23 21 16 00-0449 EA 2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,609.59 70.45	187.81
23 21 16 00-0450 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,397.13 76.85	204.29
23 21 16 00-0451 EA 3" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,718.08 89.93	239.52
23 21 16 00-0452 EA 4" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,593.58 150.95	401.54
23 21 16 00-0453 EA 6" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	6,948.73 169.12	449.37
23 21 16 00-0454 EA 8" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	11,966.86 213.98	574.19
23 21 16 00-0455 Air Vents (23 21 16)		
23 21 16 00-0456 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0455) Note: With guided free floating lever.		
23 21 16 00-0457 EA 1/2" NPT, Cast Iron, Automatic Air Vent	336.52	40.85
23 21 16 00-0458 EA 3/4" NPT, Cast Iron, Automatic Air Vent	413.15	54.24
23 21 16 00-0459 EA 1" NPT, Cast Iron, Automatic Air Vent	919.43	56.36
23 21 16 00-0460 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	1,364.46	87.07
23 21 16 00-0461 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	2,257.98	93.69
23 21 16 00-0462 EA 2" NPT, Cast Iron, Automatic Air Vent	2,598.02	123.56
23 21 16 00-0463 Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0455) Note: With guided free floating lever.		
23 21 16 00-0464 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	1,594.56	47.20
23 21 16 00-0465 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	1,994.97	54.24
23 21 16 00-0466 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	2,374.45	56.36
23 21 16 00-0467 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	3,891.87	87.35
23 21 16 00-0468 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	4,490.11	93.69
23 21 16 00-0469 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	6,590.80	123.27
23 21 16 00-0470 Automatic Air Vent (23 21 16 00-0455)		
23 21 16 00-0471 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	235.43	54.24
23 21 16 00-0472 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	255.90	56.36
23 21 16 00-0473 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	366.89	87.07
23 21 16 00-0474 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	444.77	93.69
23 21 16 00-0475 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	555.88	100.96
23 21 16 00-0476 Manual Air Vent (23 21 16 00-0455)		
23 21 16 00-0477 EA Manual Air Vent.....	102.86	50.86
23 21 16 00-0478 Air Release Valves (23 21 16 00-0455)		
23 21 16 00-0479 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) (23 21 16 00-0478) Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0480 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	186.73	21.14
23 21 16 00-0481 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	192.37	23.95
23 21 16 00-0482 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	203.63	29.59
23 21 16 00-0483 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) (23 21 16 00-0478) Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0484 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A).....	734.23	29.59
23 21 16 00-0485 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	889.35	51.43
23 21 16 00-0486 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	1,170.26	119.90
23 21 16 00-0487 Cast Iron, Air/Vacuum Valves (23 21 16 00-0478) Note: Up to 150 psi. Stainless steel float.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	16 00-0488	EA	1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	358.70	21.14
23 21	16 00-0489	EA	1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	444.39	29.59
23 21	16 00-0490	EA	2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	767.82	51.43
23 21	16 00-0491	EA	3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	1,115.23	119.90
23 21	16 00-0492	EA	4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	1,748.92	201.27
23 21	16 00-0493	EA	6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	2,645.53	254.51
23 21 16 00-0494 Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0478)</small>					
Note: Up to 150 psi. Stainless Steel float.					
23 21	16 00-0495	EA	1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C)	637.01	29.59
23 21	16 00-0496	EA	2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C)	981.07	51.43
23 21	16 00-0497	EA	3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C)	1,791.67	119.90
23 21	16 00-0498	EA	4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C)	2,338.22	201.27
23 21 23 Hydronic Pumps <small>(23 21)</small>					
23 21 23 13 In-Line Centrifugal Hydronic Pumps <small>(23 21 23)</small>					
23 21 23 13-0001 Cast Iron Single Stage In-Line Centrifugal Pump <small>(23 21 23 13)</small>					
Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.					
23 21	23 13-0002	EA	3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,205.62	376.23
			<i>For Mechanical Seal, Add</i>	326.20	
			<i>For Cast Steel Case, Add</i>	733.95	
23 21	23 13-0003	EA	5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,736.80	455.36
			<i>For Mechanical Seal, Add</i>	349.69	
			<i>For Cast Steel Case, Add</i>	786.81	
23 21	23 13-0004	EA	7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	6,647.96	540.99
			<i>For Mechanical Seal, Add</i>	402.10	
			<i>For Cast Steel Case, Add</i>	904.73	
23 21	23 13-0005	EA	10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	7,582.15	721.32
			<i>For Mechanical Seal, Add</i>	433.59	
			<i>For Cast Steel Case, Add</i>	975.59	
23 21	23 13-0006	EA	15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump	8,644.95	786.18
			<i>For Mechanical Seal, Add</i>	502.89	
			<i>For Cast Steel Case, Add</i>	1,131.51	
23 21	23 13-0007	EA	30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	12,556.90	865.32
			<i>For Mechanical Seal, Add</i>	796.98	
			<i>For Cast Steel Case, Add</i>	1,793.20	
23 21	23 13-0008	EA	40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	14,831.89	1,080.68
			<i>For Mechanical Seal, Add</i>	927.08	
			<i>For Cast Steel Case, Add</i>	2,085.94	
23 21	23 13-0009	EA	50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	20,316.19	1,235.06
			<i>For Mechanical Seal, Add</i>	1,328.76	
			<i>For Cast Steel Case, Add</i>	2,989.71	
23 21	23 13-0010	EA	75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	25,513.89	1,294.43
			<i>For Mechanical Seal, Add</i>	1,730.44	
			<i>For Cast Steel Case, Add</i>	3,893.48	
23 21	23 13-0011	EA	100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	28,155.13	1,663.91
			<i>For Mechanical Seal, Add</i>	1,852.97	
			<i>For Cast Steel Case, Add</i>	4,169.19	
23 21 23 13-0012 Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump <small>(23 21 23 13)</small>					
Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.					
23 21	23 13-0013	EA	1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	2,049.46	216.01
23 21	23 13-0014	EA	3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,498.44	246.89
23 21	23 13-0015	EA	1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,809.79	276.46
23 21	23 13-0016	EA	1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,015.46	300.59
23 21	23 13-0017	EA	2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,190.86	329.14
23 21	23 13-0018	EA	3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,361.60	363.77
23 21	23 13-0019	EA	5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,144.57	432.01
23 21	23 13-0020	EA	7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,177.74	531.78
23 21	23 13-0021	EA	10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	9,133.99	576.01
23 21	23 13-0022	EA	15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	10,614.40	609.87
23 21	23 13-0023	EA	20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	13,508.20	648.02
23 21	23 13-0024	EA	25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,240.12	669.69
23 21	23 13-0025	EA	30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,972.04	691.22
23 21	23 13-0026	EA	40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	17,699.58	740.65
23 21	23 13-0027	EA	50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	18,932.10	766.03
23 21	23 13-0028	EA	60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	21,110.64	1,106.42
23 21	23 13-0029	EA	75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	25,589.38	2,212.86
23 21	23 13-0030	EA	100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	29,497.73	2,655.42

23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0001				Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002	EA			5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T).....	6,186.22	411.26
23 21 23 16-0003	EA			7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T).....	6,920.63	411.77
23 21 23 16-0004	EA			10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T).....	9,105.64	540.99
23 21 23 16-0005	EA			15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T).....	10,023.64	665.53
23 21 23 16-0006	EA			15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T).....	11,170.46	665.53
23 21 23 16-0007	EA			20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T).....	10,911.57	721.32
23 21 23 16-0008	EA			20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T).....	11,563.58	721.32
23 21 23 16-0009	EA			25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T).....	12,628.06	756.35
23 21 23 16-0010	EA			30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T).....	14,116.66	961.33
23 21 23 16-0011	EA			40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T).....	14,979.57	1,080.68
23 21 23 16-0012	EA			60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T).....	22,920.56	2,326.24
23 21 23 16-0013	EA			75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T).....	32,966.63	2,790.98
23 21 23 16-0014	EA			100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS).....	37,533.96	3,488.73
23 21 23 16-0015				Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0016	EA			1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	4,618.64	302.27
				<i>For 300 LB Flanges, Add</i>	1,018.39	
23 21 23 16-0017	EA			2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	5,729.67	324.34
				<i>For 300 LB Flanges, Add</i>	1,310.79	
23 21 23 16-0018	EA			3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	7,157.28	346.39
				<i>For 300 LB Flanges, Add</i>	1,645.17	
23 21 23 16-0019	EA			5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	8,399.38	411.26
				<i>For 300 LB Flanges, Add</i>	1,914.51	
23 21 23 16-0020	EA			7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	8,827.06	411.77
				<i>For 300 LB Flanges, Add</i>	2,012.16	
23 21 23 16-0021	EA			10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,343.77	540.99
				<i>For 300 LB Flanges, Add</i>	2,092.69	
23 21 23 16-0022	EA			10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,536.19	540.99
				<i>For 300 LB Flanges, Add</i>	2,140.80	
23 21 23 16-0023	EA			10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,962.41	540.99
				<i>For 300 LB Flanges, Add</i>	2,247.35	
23 21 23 16-0024	EA			15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,615.39	665.53
				<i>For 300 LB Flanges, Add</i>	2,604.46	
23 21 23 16-0025	EA			17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,817.51	665.01
				<i>For 300 LB Flanges, Add</i>	2,642.92	
23 21 23 16-0026	EA			20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	12,445.13	721.32
				<i>For 300 LB Flanges, Add</i>	2,786.95	
23 21 23 16-0027	EA			25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	13,639.58	756.35
				<i>For 300 LB Flanges, Add</i>	3,059.64	
23 21 23 16-0028	EA			30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	15,209.19	961.33
				<i>For 300 LB Flanges, Add</i>	3,369.85	
23 21 23 16-0029	EA			40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	17,241.36	1,080.68
				<i>For 300 LB Flanges, Add</i>	3,823.84	
23 21 23 16-0030	EA			60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	27,479.75	2,326.24
				<i>For 300 LB Flanges, Add</i>	5,748.56	
23 21 23 16-0031	EA			75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	32,713.25	2,790.98
				<i>For 300 LB Flanges, Add</i>	6,832.66	
23 21 23 16-0032	EA			100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	40,000.60	3,488.73
				<i>For 300 LB Flanges, Add</i>	8,318.08	
23 21 23 16-0033				Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0034	EA			1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	4,453.27	302.27
				<i>For 300 LB Flanges, Add</i>	977.04	
23 21 23 16-0035	EA			2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	4,589.99	324.34
				<i>For 300 LB Flanges, Add</i>	1,001.53	
23 21 23 16-0036	EA			3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	4,726.87	346.39
				<i>For 300 LB Flanges, Add</i>	1,026.04	
23 21 23 16-0037	EA			5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,105.36	354.17
				<i>For 300 LB Flanges, Add</i>	1,116.83	
23 21 23 16-0038	EA			7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	8,101.20	411.26
				<i>For 300 LB Flanges, Add</i>	1,839.97	
23 21 23 16-0039	EA			10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	9,770.80	540.99
				<i>For 300 LB Flanges, Add</i>	2,232.37	
23 21 23 16-0040	EA			15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	11,007.35	583.80
				<i>For 300 LB Flanges, Add</i>	2,508.59	
23 21 23 16-0041	EA			20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	11,768.71	648.66
				<i>For 300 LB Flanges, Add</i>	2,642.79	
23 21 23 16-0042	EA			25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	12,978.35	647.84
				<i>For 300 LB Flanges, Add</i>	2,953.33	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0043 EA 40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	14,686.88	832.57
For 300 LB Flanges, Add	3,297.25	
23 21 23 16-0044 EA 50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	18,391.53	930.74
For 300 LB Flanges, Add	4,149.33	
23 21 23 16-0045 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	23,443.90	1,162.50
For 300 LB Flanges, Add	5,300.29	
23 21 23 16-0046 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP.....	29,401.45	1,395.49
For 300 LB Flanges, Add	6,677.53	
23 21 23 16-0047 EA 150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	34,719.06	1,549.99
For 300 LB Flanges, Add	7,932.18	
23 21 23 16-0048 EA 200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	40,212.13	1,993.56
For 300 LB Flanges, Add	9,091.85	
23 21 23 16-0049 Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump ^(23 21 23 16)		
Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050 EA 40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	26,596.14	665.53
For 300 LB Flanges, Add	6,349.65	
23 21 23 16-0051 EA 50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	28,714.87	721.32
For 300 LB Flanges, Add	6,854.38	
23 21 23 16-0052 EA 75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	38,197.40	915.24
For 300 LB Flanges, Add	9,130.27	
23 21 23 16-0053 EA 100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	44,841.97	1,257.61
For 300 LB Flanges, Add	10,634.26	
23 21 23 16-0054 EA 200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	62,132.18	1,676.81
For 300 LB Flanges, Add	14,764.73	
23 21 23 16-0055 Cast Iron Close Coupling Pumps ^(23 21 23 16)		
23 21 23 16-0056 Foot Mounted Cast Iron Close Coupled Pumps ^(23 21 23 16-0055)		
23 21 23 16-0057 EA 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....	5,551.29	389.20
23 21 23 16-0058 EA 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM).....	6,020.33	389.20
23 21 23 16-0059 EA 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM).....	6,680.51	410.83
23 21 23 16-0060 EA 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....	7,095.43	410.83
23 21 23 16-0061 EA 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....	8,129.30	432.01
23 21 23 16-0062 EA 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....	9,639.59	520.11
23 21 23 16-0063 EA 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....	12,627.67	640.73
23 21 23 16-0064 EA 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....	13,522.89	693.47
23 21 23 16-0065 EA 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....	15,627.27	748.94
23 21 23 16-0066 Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt ^(23 21 23 16)		
23 21 23 16-0067 EA 1/3 HP, Centrifugal Pump, Polypropylene Body.....	1,422.62	201.05
23 21 23 16-0068 EA 1/2 HP, Centrifugal Pump, Polypropylene Body.....	1,517.06	213.17
23 21 23 16-0069 EA 3/4 HP, Centrifugal Pump, Polypropylene Body.....	1,758.95	226.97
23 21 23 23 Vertical-Turbine Hydronic Pumps ^(23 21 23)		
See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 23-0001 Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps ^(23 21 23 23)		
Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002 EA 2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage.....	9,503.80	961.33
For Each Extra Column Assembly <60", Add	817.96	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	322.49	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	227.45	
23 21 23 23-0003 EA 3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage.....	10,780.27	1,080.68
For Each Extra Column Assembly <60", Add	920.55	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	373.09	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	265.28	
23 21 23 23-0004 EA 15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage.....	12,701.17	930.74
For Each Extra Column Assembly <60", Add	1,082.84	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	441.30	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	314.29	
23 21 23 23-0005 EA 25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage.....	14,800.39	1,074.03
For Each Extra Column Assembly <60", Add	1,253.04	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	523.01	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	375.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 23-0006 EA 50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage.....	18,043.65	1,162.50
For Each Extra Column Assembly <60", Add	1,518.25	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	646.99	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	466.55	
23 21 23 23-0007 EA 100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage.....	23,570.31	1,395.49
For Each Extra Column Assembly <60", Add	1,975.34	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	853.10	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	617.40	
23 21 23 23-0008 EA 150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage.....	28,298.28	1,744.36
For Each Extra Column Assembly <60", Add	2,376.00	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	1,019.79	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	736.81	
23 21 23 23-0009 EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage.....	44,381.86	1,993.56
For Each Extra Column Assembly <60", Add	3,678.71	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	1,647.12	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	1,203.30	
23 21 23 23-0010 EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage.....	57,856.75	2,326.24
For Each Extra Column Assembly <60", Add	4,778.06	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	2,164.75	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	1,586.19	
23 21 23 23-0011 EA 300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage.....	80,449.34	2,790.98
For Each Extra Column Assembly <60", Add	6,615.37	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	3,038.55	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	2,234.06	
 23 21 29 Automatic Condensate Pump Units (23 21)		
23 21 29 00-0001 Automatic Shallow Pan Condensate Pump (23 21 29)		
23 21 29 00-0002 EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	249.84	42.16
23 21 29 00-0003 EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	270.54	42.16
23 21 29 00-0004 EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	419.76	48.65
 23 21 29 00-0005 Automatic Condensate Pump With Tank (23 21 29)		
23 21 29 00-0006 EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL).....	138.17	32.43
23 21 29 00-0007 EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20).....	147.01	32.43
23 21 29 00-0008 EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS).....	243.07	42.16
23 21 29 00-0009 EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS).....	262.81	48.65
23 21 29 00-0010 EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS).....	480.91	55.14
 23 22 Steam and Condensate Piping and Pumps (23 20)		
23 22 16 Steam and Condensate Heating Piping Specialties (23 22)		
23 22 16 00-0001 Steam Temperature Regulator, Iron Body (23 22 16)		
23 22 16 00-0002 Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
Note: Up to 150 PSI.		
23 22 16 00-0003 EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,289.68	20.28
23 22 16 00-0004 EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,359.71	27.32
23 22 16 00-0005 EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,803.30	33.66
23 22 16 00-0006 EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,993.57	42.54
23 22 16 00-0007 EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,048.10	48.87
23 22 16 00-0008 EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,418.01	53.17
23 22 16 00-0009 EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,092.07	97.39
23 22 16 00-0010 EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,444.21	106.20
23 22 16 00-0011 EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,691.90	248.59
23 22 16 00-0012 EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,996.25	291.77
 23 22 16 00-0013 Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0014 EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,907.40	20.28
23 22 16 00-0015 EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,978.38	27.32
23 22 16 00-0016 EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,068.96	33.66
23 22 16 00-0017 EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,477.58	42.54
23 22 16 00-0018 EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,655.85	48.87
23 22 16 00-0019 EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,014.82	53.17
23 22 16 00-0020 EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,627.82	97.39
23 22 16 00-0021 EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,335.16	106.20
23 22 16 00-0022 EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,736.37	248.59
23 22 16 00-0023 EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,520.24	291.77
 23 22 16 00-0024 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0025 EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,596.14	20.28
23 22 16 00-0026 EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,637.06	27.32

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0027 EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,887.78	33.66
23 22 16 00-0028 EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,147.20	42.54
23 22 16 00-0029 EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,263.60	48.87
23 22 16 00-0030 EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,680.82	53.17
23 22 16 00-0031 EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	6,811.34	97.39
23 22 16 00-0032 EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,670.41	106.20
23 22 16 00-0033 EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,043.73	248.59
23 22 16 00-0034 EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	8,408.84	291.77
23 22 16 00-0035 Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0036 EA 1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,323.98	20.28
23 22 16 00-0037 EA 3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,361.27	27.32
23 22 16 00-0038 EA 1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,652.01	33.66
23 22 16 00-0039 EA 1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,809.51	42.54
23 22 16 00-0040 EA 1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,958.68	48.87
23 22 16 00-0041 EA 2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,310.40	53.17
23 22 16 00-0042 EA 2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,175.26	97.39
23 22 16 00-0043 EA 3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,903.04	106.20
23 22 16 00-0044 EA 4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,276.35	248.59
23 22 16 00-0045 EA 6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	8,641.47	291.77
23 22 16 00-0046 High Temperature Safety Relief Valve (23 22 16)		
Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0047 Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0046)		
Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0048 Threaded (23 22 16 00-0047)		
23 22 16 00-0049 EA 3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	494.49	21.13
23 22 16 00-0050 EA 1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	519.99	25.00
23 22 16 00-0051 EA 1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	577.12	31.69
23 22 16 00-0052 EA 1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	708.50	35.21
23 22 16 00-0053 EA 2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	905.55	43.31
23 22 16 00-0054 EA 2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,389.76	49.30
23 22 16 00-0055 EA 3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,508.57	56.69
23 22 16 00-0056 Flanged (23 22 16 00-0047)		
23 22 16 00-0057 EA 1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,395.24	147.88
23 22 16 00-0058 EA 2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	3,965.81	222.30
23 22 16 00-0059 EA 2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	4,370.67	204.67
23 22 16 00-0060 EA 2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,320.95	295.61
23 22 16 00-0061 EA 3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,654.20	220.45
23 22 16 00-0062 EA 3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	6,652.72	295.61
23 22 16 00-0063 EA 4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	11,113.48	419.50
23 22 16 00-0064 EA 6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	22,010.12	468.50
23 22 16 00-0065 Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0046)		
Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.		
23 22 16 00-0066 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	535.03	19.37
23 22 16 00-0067 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	549.11	21.13
23 22 16 00-0068 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	641.49	23.24
23 22 16 00-0069 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	707.84	25.00
23 22 16 00-0070 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam.....	818.35	28.17
23 22 16 00-0071 EA 1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	825.24	31.69
23 22 16 00-0072 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	926.38	33.45
23 22 16 00-0073 EA 1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,008.53	35.21
23 22 16 00-0074 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,392.61	39.43
23 22 16 00-0075 EA 2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,522.13	43.31
23 22 16 00-0076 EA 2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	1,814.25	49.30
23 22 16 00-0077 Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046)		
Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	260.08	19.37
23 22 16 00-0079 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	295.62	21.13
23 22 16 00-0080 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Water	404.64	23.24
23 22 16 00-0081 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water.....	445.07	25.00
23 22 16 00-0082 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water.....	637.34	28.17
23 22 16 00-0083 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water.....	856.10	33.45
23 22 16 00-0084 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,241.24	39.43
23 22 16 00-0085 Steam Traps (23 22 16)		
23 22 16 00-0086 Inverted Bucket Steam Traps (23 22 16 00-0085)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0087 EA 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	285.30	42.27
For Work In Restricted Working Space, Add	25.36	
23 22 16 00-0088 EA 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	288.82	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0089 EA 1" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	417.12	46.92
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0090 EA 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	666.73	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0091 EA 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	981.17	78.90
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	1,263.77	117.41
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	301.14	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	389.36	46.96
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	485.55	64.04
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	651.12	78.27
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,173.37	117.36
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	375.33	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	407.32	46.92
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	534.51	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	758.84	78.20
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,282.73	117.40
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	478.16	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	531.37	46.96
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	803.84	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	832.30	78.20
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,591.22	117.41
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	484.69	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	531.37	46.96
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap.....	803.84	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap.....	832.30	78.20
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,591.22	117.40
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0114 Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	160.26	42.27
For Work In Restricted Working Space, Add	25.36	
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	249.63	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	303.23	46.92
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0118 Thermodynamic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	317.68	38.04
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	440.37	42.27
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	540.18	44.03
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	715.81	46.92
23 22 16 00-0123 Steam Moisture Separator (23 22 16 00-0085)		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1)	663.75	70.45
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1)	716.90	95.10
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded (Spirax Sarco S1)	858.42	107.08
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2)	1,327.50	122.57
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	1,650.34	187.81
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3)	2,448.09	204.29
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,826.22	239.52
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	3,876.72	401.53

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	7,420.50	507.20
23 22 16 00-0133 Steam/Condensate Meter ^(23 22 16)		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	5,468.14	116.71
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0135 EA 2" Steam/Condensate Meter.....	6,171.17	137.14
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter.....	6,553.17	170.19
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0137 EA 3" Steam/Condensate Meter.....	6,962.39	223.69
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0138 EA 4" Steam/Condensate Meter.....	7,877.94	347.53
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0139 EA 6" Steam/Condensate Meter.....	13,445.06	439.60
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0140 EA 8" Steam/Condensate Meter.....	13,956.05	555.01
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0141 EA 10" Steam/Condensate Meter.....	14,630.17	680.80
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0142 EA 12" Steam/Condensate Meter.....	15,369.08	826.68
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0143 EA 14" Steam/Condensate Meter.....	16,389.57	972.56
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0144 EA 16" Steam/Condensate Meter.....	16,988.55	1,069.82
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	

23 22 23 Steam Condensate Pumps ^(23 22)**23 22 23 13 Electric-Driven Steam Condensate Pumps** ^(23 22 23)**23 22 23 13-0001 Simplex Condensate Pumps And Motors** ^(23 22 23 13)

Note: Cast iron receiver, float switch.

23 22 23 13-0002 20 PSI Discharge Pressure ^(23 22 23 13-0001)

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,503.90	660.34
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,206.28	678.51
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,354.12	723.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,689.68	731.70
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,121.51	796.56
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,035.95	796.56
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,138.53	851.05
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,478.76	889.97
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,556.92	928.90
23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	2,870.69	705.75
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,728.19	723.91
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,872.53	771.91
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,474.90	834.18
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,138.53	852.35
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,308.62	882.18
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,501.62	928.90
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	7,536.73	988.57
23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,201.25	809.53
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,035.92	874.40
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,721.02	864.03
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,278.21	882.18
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,412.62	919.81
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	7,556.92	928.90
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	7,665.98	988.57
23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	5,990.41	877.00
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,355.63	895.16
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,996.84	901.65
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	6,520.15	980.78
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	10,254.42	1,057.33
23 22 23 13-0035 Duplex Condensate Pumps And Motors (23 22 23 13)		
Note: Cast iron receiver, float switch, alternator assembly.		
23 22 23 13-0036 20 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,117.84	886.08
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,365.96	973.00
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,765.37	980.78
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,323.25	1,069.00
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,389.75	1,069.00
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,535.35	1,152.04
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	8,914.83	1,202.64
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	9,137.93	1,262.31

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 22 Steam and Condensate Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0045 30 PSI Discharge Pressure (23 22 23 13-0035)					
23 22 23 13-0046	EA		9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,322.54	954.84
23 22 23 13-0047	EA		15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,576.07	1,043.05
23 22 23 13-0048	EA		22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,169.77	1,017.12
23 22 23 13-0049	EA		30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,535.35	1,152.04
23 22 23 13-0050	EA		45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,750.77	1,194.84
23 22 23 13-0051	EA		60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	8,833.81	1,262.31
23 22 23 13-0052	EA		75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	9,274.16	1,353.12
23 22 23 13-0053 40 PSI Discharge Pressure (23 22 23 13-0035)					
23 22 23 13-0054	EA		9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,782.50	1,126.09
23 22 23 13-0055	EA		22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,382.13	1,176.69
23 22 23 13-0056	EA		30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,769.02	1,194.84
23 22 23 13-0057	EA		45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,993.64	1,254.52
23 22 23 13-0058	EA		60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	9,139.45	1,262.31
23 22 23 13-0059	EA		75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	9,310.65	1,353.12
23 22 23 13-0060 50 PSI Discharge Pressure (23 22 23 13-0035)					
23 22 23 13-0061	EA		9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	6,034.92	1,126.09
23 22 23 13-0062	EA		22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	6,515.52	1,237.66
23 22 23 13-0063	EA		30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	8,166.35	1,344.04
23 22 23 13-0064	EA		60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	14,136.10	1,455.61
23 23 Refrigerant Piping (23 20)					
23 23 13 Refrigerant Piping Valves (23 23)					
23 23 13 00-0001 Ball Valves (23 23 13)					
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)					
23 23 13 00-0003	EA		3/8" Refrigeration Ball Valve, Sweated	52.65	14.09
23 23 13 00-0004	EA		1/2" Refrigeration Ball Valve, Sweated	54.92	14.09
23 23 13 00-0005	EA		5/8" Refrigeration Ball Valve, Sweated	68.77	14.09
23 23 13 00-0006	EA		7/8" Refrigeration Ball Valve, Sweated	92.20	15.50
23 23 13 00-0007	EA		1-1/8" Refrigeration Ball Valve, Sweated	125.48	17.61
23 23 13 00-0008	EA		1-5/8" Refrigeration Ball Valve, Sweated	200.46	21.69
23 23 13 00-0009 Shut-Off Valves (23 23 13)					
23 23 13 00-0010 Packless (23 23 13 00-0009)					
23 23 13 00-0011	EA		1/2" Refrigeration Valve, Packless	61.27	14.66
23 23 13 00-0012	EA		5/8" Refrigeration Valve, Packless	75.13	16.07
23 23 13 00-0013	EA		7/8" Refrigeration Valve, Packless	147.20	21.98
23 23 13 00-0014 Packed (23 23 13 00-0009)					
23 23 13 00-0015	EA		1-1/8" Refrigeration Valve, Packed	257.05	31.98
23 23 13 00-0016	EA		1 3/8" Refrigeration Valve, Packed	341.33	39.16
23 23 13 00-0017	EA		1-5/8" Refrigeration Valve, Packed	413.49	44.10
23 23 13 00-0018	EA		2-1/8" Refrigeration Valve, Packed	582.86	50.30
23 23 13 00-0019	EA		2-5/8" Refrigeration Valve, Packed	1,003.34	140.89
23 23 13 00-0020	EA		3-1/8" Refrigeration Valve, Packed	1,311.08	176.11
23 23 13 00-0021	EA		4-1/8" Refrigeration Valve, Packed	1,854.51	234.86
23 23 13 00-0022 Check Valves (23 23 13)					
23 23 13 00-0023	EA		5/8" Check Valve, Refrigeration	80.08	14.09
23 23 13 00-0024	EA		7/8" Check Valve, Refrigeration	226.82	15.50
23 23 13 00-0025	EA		1-1/8" Check Valve, Refrigeration	264.05	17.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration.....	353.74	18.74
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration.....	460.88	21.70
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration.....	673.07	25.64
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration.....	943.31	37.61
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration.....	1,238.14	49.31
23 23 13 00-0031 Solenoid Valves ^(23 23 13)		
23 23 13 00-0032 Solenoid Valve, 24 Volt Coil ^(23 23 13 00-0031)		
23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration.....	218.37	14.09
23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration.....	223.40	14.09
23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration.....	277.23	15.50
23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration.....	277.23	15.50
23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration.....	385.77	17.61
23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration.....	614.12	18.74
23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration.....	1,117.34	21.70
23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration.....	1,137.04	25.64
23 23 16 Refrigerant Piping Specialties ^(23 23)		
23 23 16 00-0001 Soft Refrigeration Copper Tubing ^(23 23 16)		
Note: Based on outside diameter. Nitrogenized. Lengths up to 100'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing.....	5.73	3.35
23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing.....	5.98	3.44
23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing.....	6.24	3.54
23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing.....	6.63	3.59
23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing.....	6.81	3.65
23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing.....	7.58	3.83
23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing.....	8.25	3.87
23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing.....	8.96	4.01
23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing.....	11.42	4.71
23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing.....	14.36	5.39
23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing.....	20.34	6.38
23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing.....	24.37	7.14
23 23 16 00-0014 Type L Drawn, ACR Copper Tubing ^(23 23 16)		
Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	7.52	3.94
<i>For Medical Applications "Oxygen Clean", Add</i>		
	0.68	
23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing.....	8.31	3.94
<i>For Medical Applications "Oxygen Clean", Add</i>		
	0.72	
23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	8.81	3.94
<i>For Medical Applications "Oxygen Clean", Add</i>		
	0.74	
23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing.....	12.74	5.92
<i>For Medical Applications "Oxygen Clean", Add</i>		
	1.08	
23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	13.90	6.34
<i>For Medical Applications "Oxygen Clean", Add</i>		
	1.17	
23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	15.88	6.34
<i>For Medical Applications "Oxygen Clean", Add</i>		
	1.27	
23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	19.63	7.32
<i>For Medical Applications "Oxygen Clean", Add</i>		
	1.54	
23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	23.62	8.45
<i>For Medical Applications "Oxygen Clean", Add</i>		
	1.82	
23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	33.01	10.56
<i>For Medical Applications "Oxygen Clean", Add</i>		
	2.44	
23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	49.56	15.92
<i>For Medical Applications "Oxygen Clean", Add</i>		
	3.68	
23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	63.85	19.73
<i>For Medical Applications "Oxygen Clean", Add</i>		
	4.67	
23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	79.95	23.38
<i>For Medical Applications "Oxygen Clean", Add</i>		
	5.76	
23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	98.59	28.18
<i>For Medical Applications "Oxygen Clean", Add</i>		
	7.04	
23 23 16 00-0028 Refrigeration Fittings ^(23 23 16)		
23 23 16 00-0029 Brass Flare Fittings ^(23 23 16 00-0028)		
23 23 16 00-0030 Brass Flare Unions ^(23 23 16 00-0029)		
23 23 16 00-0031 EA 3/8" Brass Flare Union.....	29.75	15.22
23 23 16 00-0032 EA 1/2" Brass Flare Union.....	29.75	15.22
23 23 16 00-0033 EA 5/8" Brass Flare Union.....	31.56	15.22
23 23 16 00-0034 90 Degree Elbow Brass Flare Unions ^(23 23 16 00-0029)		
23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union.....	30.85	15.22
23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union.....	30.85	15.22

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union.....	36.90	15.22
23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)		
23 23 16 00-0039 EA 3/8" Brass Flare Tee	48.37	25.35
23 23 16 00-0040 EA 1/2" Brass Flare Tee	51.08	25.35
23 23 16 00-0041 EA 5/8" Brass Flare Tee	65.78	25.35
23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union	24.78	15.22
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union	26.59	15.22
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union	29.17	15.22
23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union	27.11	15.22
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union	29.56	15.22
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union	29.56	15.22
23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut.....	25.88	15.22
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut.....	26.59	15.22
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut.....	34.45	15.22
23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut	24.86	15.22
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....	26.49	15.22
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....	26.83	15.22
23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028) Note: Soldered.		
23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058) Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling.....	24.36	15.22
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling.....	24.07	15.22
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling.....	24.50	15.22
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling.....	25.39	15.92
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling.....	35.44	20.99
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling.....	35.24	21.56
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling.....	45.98	26.77
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling.....	65.29	36.63
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling.....	78.18	42.98
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling.....	100.94	52.13
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling.....	170.16	79.18
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling.....	226.29	104.12
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling.....	344.96	123.70
23 23 16 00-0073 ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058) Note: C x C		
23 23 16 00-0074 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.24	15.22
23 23 16 00-0075 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.53	15.22
23 23 16 00-0076 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.24	15.22
23 23 16 00-0077 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	30.43	15.92
23 23 16 00-0078 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	43.37	20.99
23 23 16 00-0079 EA 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	44.02	21.56
23 23 16 00-0080 EA 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	55.79	26.77
23 23 16 00-0081 EA 1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	70.94	36.63
23 23 16 00-0082 EA 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	89.46	42.98
23 23 16 00-0083 EA 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	123.58	52.13
23 23 16 00-0084 EA 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	209.72	79.18
23 23 16 00-0085 EA 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	270.56	104.12
23 23 16 00-0086 EA 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	478.29	123.70
23 23 16 00-0087 ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058) Note: C x C		
23 23 16 00-0088 EA 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow	33.10	15.22
23 23 16 00-0089 EA 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	30.53	15.22
23 23 16 00-0090 EA 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow	32.57	15.22
23 23 16 00-0091 EA 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	32.77	15.92
23 23 16 00-0092 EA 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow	40.51	20.99
23 23 16 00-0093 EA 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow	43.72	21.56
23 23 16 00-0094 EA 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	58.48	26.77
23 23 16 00-0095 EA 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	84.79	36.63
23 23 16 00-0096 EA 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	104.56	42.98



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0097	EA		2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	183.52	52.13
23 23 16 00-0098	EA		2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	285.59	79.18
23 23 16 00-0099	EA		3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	377.17	104.12
23 23 16 00-0100	EA		4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	777.51	123.70
23 23 16 00-0101 ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0058)					
Note: C x C					
23 23 16 00-0102	EA		1/4" ACR Wrought Copper 45 Degree Elbow	36.62	15.22
23 23 16 00-0103	EA		3/8" ACR Wrought Copper 45 Degree Elbow	33.10	15.22
23 23 16 00-0104	EA		1/2" ACR Wrought Copper 45 Degree Elbow	31.59	15.22
23 23 16 00-0105	EA		5/8" ACR Wrought Copper 45 Degree Elbow	27.50	15.92
23 23 16 00-0106	EA		3/4" ACR Wrought Copper 45 Degree Elbow	47.12	20.99
23 23 16 00-0107	EA		7/8" ACR Wrought Copper 45 Degree Elbow	38.52	21.56
23 23 16 00-0108	EA		1-1/8" ACR Wrought Copper 45 Degree Elbow	55.75	26.77
23 23 16 00-0109	EA		1-3/8" ACR Wrought Copper 45 Degree Elbow	75.93	36.63
23 23 16 00-0110	EA		1-5/8" ACR Wrought Copper 45 Degree Elbow	89.77	42.98
23 23 16 00-0111	EA		2-1/8" ACR Wrought Copper 45 Degree Elbow	120.29	52.13
23 23 16 00-0112	EA		2-5/8" ACR Wrought Copper 45 Degree Elbow	208.62	79.18
23 23 16 00-0113	EA		3-1/8" ACR Wrought Copper 45 Degree Elbow	281.67	104.12
23 23 16 00-0114	EA		4-1/8" ACR Wrought Copper 45 Degree Elbow	452.88	123.70
23 23 16 00-0115 ACR Wrought Copper Tee (23 23 16 00-0058)					
Note: C x C x C					
23 23 16 00-0116	EA		1/4" ACR Wrought Copper Tee	49.07	25.35
23 23 16 00-0117	EA		3/8" ACR Wrought Copper Tee	49.69	25.35
23 23 16 00-0118	EA		1/2" ACR Wrought Copper Tee	47.39	25.35
23 23 16 00-0119	EA		5/8" ACR Wrought Copper Tee	51.15	31.98
23 23 16 00-0120	EA		3/4" ACR Wrought Copper Tee	69.20	31.98
23 23 16 00-0121	EA		7/8" ACR Wrought Copper Tee	56.58	32.40
23 23 16 00-0122	EA		1-1/8" ACR Wrought Copper Tee	89.22	42.98
23 23 16 00-0123	EA		1-3/8" ACR Wrought Copper Tee	111.52	52.13
23 23 16 00-0124	EA		1-5/8" ACR Wrought Copper Tee	144.29	61.85
23 23 16 00-0125	EA		2-1/8" ACR Wrought Copper Tee	204.04	82.42
23 23 16 00-0126	EA		2-5/8" ACR Wrought Copper Tee	432.00	179.91
23 23 16 00-0127	EA		3-1/8" ACR Wrought Copper Tee	529.51	197.81
23 23 16 00-0128	EA		4-1/8" ACR Wrought Copper Tee	893.25	219.79
23 23 16 00-0129 ACR Wrought Copper Male Adapter (23 23 16 00-0058)					
Note: C x M					
23 23 16 00-0130	EA		1/4" ACR Wrought Copper Male Adapter	40.13	15.22
23 23 16 00-0131	EA		3/8" ACR Wrought Copper Male Adapter	45.76	15.22
23 23 16 00-0132	EA		1/2" ACR Wrought Copper Male Adapter	36.40	15.22
23 23 16 00-0133 ACR Wrought Copper Female Adapter (23 23 16 00-0058)					
Note: C x F					
23 23 16 00-0134	EA		1/4" ACR Wrought Copper Female Adapter	37.91	15.22
23 23 16 00-0135	EA		3/8" ACR Wrought Copper Female Adapter	34.68	15.22
23 23 16 00-0136	EA		1/2" ACR Wrought Copper Female Adapter	35.90	15.22
23 23 16 00-0137 ACR Wrought Copper Cap (23 23 16 00-0058)					
Note: C					
23 23 16 00-0138	EA		1/4" ACR Wrought Copper Cap	17.87	10.14
23 23 16 00-0139	EA		3/8" ACR Wrought Copper Cap	16.84	10.14
23 23 16 00-0140	EA		1/2" ACR Wrought Copper Cap	17.84	10.14
23 23 16 00-0141 ACR Wrought Copper P-Trap (23 23 16 00-0058)					
23 23 16 00-0142	EA		5/8" ACR Wrought Copper P-Trap	106.64	12.97
23 23 16 00-0143	EA		3/4" ACR Wrought Copper P-Trap	143.73	14.27
23 23 16 00-0144	EA		7/8" ACR Wrought Copper P-Trap	126.96	14.27
23 23 16 00-0145	EA		1-1/8" ACR Wrought Copper P-Trap	171.14	15.57
23 23 16 00-0146	EA		1-3/8" ACR Wrought Copper P-Trap	296.23	15.57
23 23 16 00-0147	EA		1-5/8" ACR Wrought Copper P-Trap	414.84	16.87
23 23 16 00-0148	EA		2-1/8" ACR Wrought Copper P-Trap	739.48	18.17
23 23 16 00-0149 Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)					
23 23 16 00-0150	EA		1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	61.73	19.46
23 23 16 00-0151	EA		3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	74.56	23.35
23 23 16 00-0152	EA		1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	89.56	28.54
23 23 16 00-0153	EA		5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	99.36	32.43
23 23 16 00-0154	EA		7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	132.03	41.52
23 23 16 00-0155	EA		1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	154.57	50.60
23 23 16 00-0156	EA		1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	227.40	59.68
23 23 16 00-0157	EA		1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	285.59	81.73
23 23 16 00-0158	EA		2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	351.73	101.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 23 16 00-0159		Filter Driers, Solder Connections <small>(23 23 16)</small>			
23 23 16 00-0160		Replaceable Core Type Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>			
23 23 16 00-0161	EA	5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	476.81		11.68
23 23 16 00-0162	EA	7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	493.45		14.27
23 23 16 00-0163	EA	1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	633.27		14.27
23 23 16 00-0164	EA	1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	644.93		15.57
23 23 16 00-0165	EA	1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	729.75		16.87
23 23 16 00-0166	EA	2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	842.85		18.17
23 23 16 00-0167	EA	2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	989.18		19.46
23 23 16 00-0168	EA	3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,235.17		19.46
23 23 16 00-0169		Sealed In-Line Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>			
23 23 16 00-0170	EA	1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	97.12		11.68
23 23 16 00-0171	EA	3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections.....	124.15		11.68
23 23 16 00-0172	EA	1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections.....	157.57		12.97
23 23 16 00-0173	EA	1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	180.47		12.97
23 23 16 00-0174	EA	5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	199.65		12.97
23 23 16 00-0175	EA	5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections.....	222.42		12.97
23 23 16 00-0176	EA	7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	251.25		14.27
23 23 16 00-0177	EA	7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	341.50		14.27
23 23 16 00-0178	EA	1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	376.37		14.27
23 23 16 00-0179		Bi-Flow Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>			
23 23 16 00-0180	EA	1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	125.38		11.68
23 23 16 00-0181	EA	3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	144.26		11.68
23 23 16 00-0182	EA	1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	174.03		12.97
23 23 16 00-0183	EA	3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	152.24		11.68
23 23 16 00-0184	EA	1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	190.48		12.97
23 23 16 00-0185	EA	5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	225.25		12.97
23 23 16 00-0186		Refrigerant Compressor Discharge Mufflers <small>(23 23 16)</small>			
23 23 16 00-0187	EA	3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler.....	118.62		11.68
23 23 16 00-0188	EA	1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler.....	131.18		11.68
23 23 16 00-0189	EA	5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler.....	157.36		11.68
23 23 16 00-0190	EA	7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	212.27		14.27
23 23 16 00-0191	EA	1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	278.50		14.27
23 23 16 00-0192	EA	1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	331.73		15.57
23 23 16 00-0193	EA	1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	418.92		16.87
23 23 16 00-0194	EA	2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	717.86		18.17
23 23 16 00-0195	EA	2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	814.10		19.46
23 23 16 00-0196	EA	3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	1,009.61		19.46
23 23 16 00-0197		Expansion Valves And Vibration Absorbers <small>(23 23 16)</small>			
23 23 16 00-0198		Thermostatic Expansion Valves <small>(23 23 16 00-0197)</small>			
		Note: Outside diameter pipe sizes. Sporlan TP-S.			
23 23 16 00-0199	EA	3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	229.56		11.68
23 23 16 00-0200	EA	1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	319.00		12.97
23 23 16 00-0201	EA	5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	523.64		12.97
23 23 16 00-0202	EA	7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	621.75		14.27
23 23 16 00-0203	EA	7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	686.62		14.27
23 23 16 00-0204		Electric Expansion Valves <small>(23 23 16 00-0197)</small>			
		Note: Sporlan SEI or SEH.			
23 23 16 00-0205	EA	1/2 To 11 Ton Electric Expansion Valve	594.35		16.21
		Note: Sporlan SEI.			
23 23 16 00-0206	EA	25 Ton Electric Expansion Valve	685.51		16.87
		Note: Sporlan SEI.			
23 23 16 00-0207	EA	50 Ton Electric Expansion Valve	777.15		17.51
		Note: Sporlan SEI.			
23 23 16 00-0208	EA	100 Ton Electric Expansion Valve	918.40		17.51
		Note: Sporlan SEH.			
23 23 16 00-0209	EA	175 Ton Electric Expansion Valve	1,032.55		18.17
		Note: Sporlan SEH.			
23 23 16 00-0210		Braided Stainless Steel Over Copper Vibration Absorber <small>(23 23 16 00-0197)</small>			
23 23 16 00-0211	EA	1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	61.27		16.87
23 23 16 00-0212	EA	3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	64.23		19.46
23 23 16 00-0213	EA	1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	82.39		24.65
23 23 16 00-0214	EA	5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	90.47		29.84
23 23 16 00-0215	EA	3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	107.40		36.32
23 23 16 00-0216	EA	7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	123.55		41.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0217 EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	176.37	15.57
23 23 16 00-0218 EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	241.47	16.87
23 23 16 00-0219 EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	296.39	16.87
23 23 16 00-0220 EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	393.86	18.17
23 23 16 00-0221 EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	653.33	19.46
23 23 16 00-0222 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	851.17	19.46
23 23 16 00-0223 Accumulator, Refrigerant Suction Line <small>(23 23 16)</small>		
23 23 16 00-0224 EA 3/4" Accumulator, Refrigeration Suction Line	199.82	59.03
23 23 16 00-0225 EA 7/8" Accumulator, Refrigeration Suction Line	271.53	81.08
23 23 16 00-0226 EA 1-1/8" Accumulator, Refrigeration Suction Line	330.68	108.07
23 23 16 00-0227 EA 1 3/8" Accumulator, Refrigeration Suction Line	452.32	129.73
23 23 16 00-0228 EA 1-5/8" Accumulator, Refrigeration Suction Line	613.38	162.17
23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line	914.45	216.27
23 23 16 00-0230 Special Chemicals/Component <small>(23 23 16)</small>		
23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100%	34.21	
23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol	10.06	
23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100%	23.60	
23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush	323.64	
Note: Up to 10 ton AC system.		
23 23 23 Refrigerants <small>(23 23)</small>		
23 23 23 00-0001 Refrigerant <small>(23 23 23)</small>		
23 23 23 00-0002 LB R-113 Refrigerant	24.82	
23 23 23 00-0003 LB R-123 Refrigerant	18.21	
23 23 23 00-0004 LB R-134A Refrigerant	6.49	
23 23 23 00-0005 LB R-404A Refrigerant	11.61	
23 23 23 00-0006 LB R-407C Refrigerant	11.49	
23 23 23 00-0007 LB R-408A Refrigerant	26.19	
23 23 23 00-0008 LB R-410A Refrigerant	11.26	
23 23 23 00-0009 LB R-500 Refrigerant	22.25	
23 23 23 00-0010 LB R-507 Refrigerant	7.16	
23 25 HVAC Water Treatment <small>(23 20)</small>		
23 25 13 Water Treatment for Closed-Loop Hydronic Systems <small>(23 25)</small>		
23 25 13 00-0001 Polyethylene Chemical Storage Tanks <small>(23 25 13)</small>		
23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene	374.10	108.34
23 25 13 00-0003 Gas Chlorinator <small>(23 25 13)</small>		
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,336.04	492.95
<i>For Booster Pump, Add</i>		<i>541.91</i>
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,526.57	563.37
<i>For Booster Pump, Add</i>		<i>619.48</i>
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	2,053.51	426.75
<i>For Booster Pump, Add</i>		<i>748.43</i>
23 25 13 00-0007 Bypass Shot Feeders <small>(23 25 13)</small>		
Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG	1,258.44	367.14
23 25 13 00-0010 Floor Mount, 175 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG	1,857.92	552.66
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG	2,451.67	731.70
23 25 13 00-0013 Floor Mount, 150 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	1,857.92	552.66
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	2,451.67	731.70
23 25 13 00-0016 Floor Mount, 300 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	2,242.63	552.66
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	2,851.14	731.70

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 25 HVAC Water Treatment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 30 HVAC Air Distribution** ⁽²³⁾**23 31 HVAC Ducts and Casings** ^(23 30)

Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See CSI section 23 05 29 00-0001 for threaded rod.

23 31 13 Metal Ducts ^(23 31)**23 31 13 13 Rectangular Metal Ducts** ^(23 31 13)**23 31 13 13-0001 Steel Sheet Metal Duct** ^(23 31 13 13)

Note: Includes all fittings, transitions, collars, straps, support straps, fabrication, installation and sealing the joints by tape, mastic, or spray on sealer.

23 31 13 13-0002 Galvanized Steel Sheet Metal Ductwork ^(23 31 13 13-0001)

Note: SMACNA weight for galvanized steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.906 LB/SF; 24 gauge - 1.156 LB/SF; 22 gauge - 1.406 LB/SF; 20 gauge - 1.656 LB/SF; 18 gauge - 2.156 LB/SF; 16 gauge - 2.656 LB/SF

23 31 13 13-0003	LB 2" WG And Less (Class C), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	12.77	3.45
	For Polyvinyl Chloride (PVC) Coated, Add	0.43	
	For Up To 200, Add	4.48	
	For >200 To 500, Add	2.84	
	For >500 To 1,000, Add	1.94	
	For >1,000 To 2,000, Add	1.09	
	For >2,000 To 5,000, Add	0.49	
	For Work In Restricted Working Space, Add	3.18	
	For Elevated Installation >10' To 15', Add	0.64	
	For Elevated Installation >15' To 20', Add	1.27	
	For Elevated Installation >20' To 25', Add	1.59	
	For Elevated Installation >25' To 30', Add	2.23	
	For Elevated Installation >30' To 35', Add	2.55	
	For Elevated Installation >35' To 40', Add	3.18	
	For Elevated Installation >40', Add	3.50	
23 31 13 13-0004	LB 3" WG (Class B), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	14.36	3.45
	For Polyvinyl Chloride (PVC) Coated, Add	0.43	
	For Up To 200, Add	4.96	
	For >200 To 500, Add	3.12	
	For >500 To 1,000, Add	2.16	
	For >1,000 To 2,000, Add	1.21	
	For >2,000 To 5,000, Add	0.55	
	For Work In Restricted Working Space, Add	3.66	
	For Elevated Installation >10' To 15', Add	0.73	
	For Elevated Installation >15' To 20', Add	1.46	
	For Elevated Installation >20' To 25', Add	1.83	
	For Elevated Installation >25' To 30', Add	2.56	
	For Elevated Installation >30' To 35', Add	2.93	
	For Elevated Installation >35' To 40', Add	3.66	
	For Elevated Installation >40', Add	4.03	
23 31 13 13-0005	LB 4" Or 6" WG (Class A), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	17.01	3.45
	For Polyvinyl Chloride (PVC) Coated, Add	0.43	
	For Up To 200, Add	5.75	
	For >200 To 500, Add	3.60	
	For >500 To 1,000, Add	2.53	
	For >1,000 To 2,000, Add	1.43	
	For >2,000 To 5,000, Add	0.66	
	For Work In Restricted Working Space, Add	4.46	
	For Elevated Installation >10' To 15', Add	0.89	
	For Elevated Installation >15' To 20', Add	1.78	
	For Elevated Installation >20' To 25', Add	2.23	
	For Elevated Installation >25' To 30', Add	3.12	
	For Elevated Installation >30' To 35', Add	3.56	
	For Elevated Installation >35' To 40', Add	4.46	
	For Elevated Installation >40', Add	4.90	

23 31 13 13-0006 Alloy 3003-H14, Aluminum Sheet Metal Ductwork ^(23 31 13 13-0001)

Note: SMACNA weight for aluminum ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.224 LB/SF; 24 gauge - 0.282 LB/SF; 22 gauge - 0.352 LB/SF; 20 gauge - 0.451 LB/SF; 18 gauge - 0.563 LB/SF; 16 gauge - 0.718 LB/SF; 14 gauge - 0.901 LB/SF; 12 gauge - 0.141 LB/SF

23 31 13 13-0007	LB 2" WG And Less (Class C), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	24.50	3.45
	For Work In Restricted Working Space, Add	6.29	
	For Up To 200, Add	8.41	
	For >200 To 500, Add	5.29	
	For >500 To 1,000, Add	3.68	
	For >1,000 To 2,000, Add	2.07	
	For >2,000 To 5,000, Add	0.94	
	For Elevated Installation >10' To 15', Add	1.26	
	For Elevated Installation >15' To 20', Add	2.52	
	For Elevated Installation >20' To 25', Add	3.15	
	For Elevated Installation >25' To 30', Add	4.40	
	For Elevated Installation >30' To 35', Add	5.03	
	For Elevated Installation >35' To 40', Add	6.29	
	For Elevated Installation >40', Add	6.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0008 LB 3" WG (Class B), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	27.65	3.45
<i>For Work In Restricted Working Space, Add</i>	7.24	
<i>For Up To 200, Add</i>	9.35	
<i>For >200 To 500, Add</i>	5.86	
<i>For >500 To 1,000, Add</i>	4.12	
<i>For >1,000 To 2,000, Add</i>	2.32	
<i>For >2,000 To 5,000, Add</i>	1.07	
<i>For Elevated Installation >10' To 15', Add</i>	1.45	
<i>For Elevated Installation >15' To 20', Add</i>	2.89	
<i>For Elevated Installation >20' To 25', Add</i>	3.62	
<i>For Elevated Installation >25' To 30', Add</i>	5.07	
<i>For Elevated Installation >30' To 35', Add</i>	5.79	
<i>For Elevated Installation >35' To 40', Add</i>	7.24	
<i>For Elevated Installation >40', Add</i>	7.96	
23 31 13 13-0009 LB 4" Or 6" WG (Class A), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	32.89	3.45
<i>For Work In Restricted Working Space, Add</i>	8.81	
<i>For Up To 200, Add</i>	10.93	
<i>For >200 To 500, Add</i>	6.80	
<i>For >500 To 1,000, Add</i>	4.85	
<i>For >1,000 To 2,000, Add</i>	2.74	
<i>For >2,000 To 5,000, Add</i>	1.28	
<i>For Elevated Installation >10' To 15', Add</i>	1.76	
<i>For Elevated Installation >15' To 20', Add</i>	3.52	
<i>For Elevated Installation >20' To 25', Add</i>	4.40	
<i>For Elevated Installation >25' To 30', Add</i>	6.17	
<i>For Elevated Installation >30' To 35', Add</i>	7.05	
<i>For Elevated Installation >35' To 40', Add</i>	8.81	
<i>For Elevated Installation >40', Add</i>	9.69	
23 31 13 13-0010 Type 304, Stainless Steel Sheet Metal Ductwork <small>(23 31 13 13-0001)</small>		
Note: SMACNA weight for stainless steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.748 LB/SF; 24 gauge - 0.987 LB/SF; 22 gauge - 1.231 LB/SF; 20 gauge - 1.491 LB/SF; 18 gauge - 2.016 LB/SF; 16 gauge - 2.499 LB/SF; 14 gauge - 3.154 LB/SF; 12 gauge - 4.427 LB/SF		
23 31 13 13-0011 LB 2" WG And Less (Class C), Type 304, Stainless Steel Sheet Metal Ductwork	17.42	4.59
<i>For Work In Restricted Working Space, Add</i>	3.87	
<i>For Welded Seams, Add</i>	6.67	
<i>For Up To 200, Add</i>	6.59	
<i>For >200 To 500, Add</i>	4.27	
<i>For >500 To 1,000, Add</i>	2.76	
<i>For >1,000 To 2,000, Add</i>	1.53	
<i>For >2,000 To 5,000, Add</i>	0.65	
<i>For Elevated Installation >10' To 15', Add</i>	0.77	
<i>For Elevated Installation >15' To 20', Add</i>	1.55	
<i>For Elevated Installation >20' To 25', Add</i>	1.93	
<i>For Elevated Installation >25' To 30', Add</i>	2.71	
<i>For Elevated Installation >30' To 35', Add</i>	3.09	
<i>For Elevated Installation >35' To 40', Add</i>	3.87	
<i>For Elevated Installation >40', Add</i>	4.25	
23 31 13 13-0012 LB 3" WG (Class B), Type 304, Stainless Steel Sheet Metal Ductwork	20.08	4.59
<i>For Work In Restricted Working Space, Add</i>	4.67	
<i>For Welded Seams, Add</i>	8.00	
<i>For Up To 200, Add</i>	7.38	
<i>For >200 To 500, Add</i>	4.75	
<i>For >500 To 1,000, Add</i>	3.13	
<i>For >1,000 To 2,000, Add</i>	1.74	
<i>For >2,000 To 5,000, Add</i>	0.76	
<i>For Elevated Installation >10' To 15', Add</i>	0.93	
<i>For Elevated Installation >15' To 20', Add</i>	1.87	
<i>For Elevated Installation >20' To 25', Add</i>	2.33	
<i>For Elevated Installation >25' To 30', Add</i>	3.27	
<i>For Elevated Installation >30' To 35', Add</i>	3.73	
<i>For Elevated Installation >35' To 40', Add</i>	4.67	
<i>For Elevated Installation >40', Add</i>	5.13	
23 31 13 13-0013 LB 4" Or 6" WG (Class A), Type 304, Stainless Steel Sheet Metal Ductwork	22.56	4.59
<i>For Work In Restricted Working Space, Add</i>	5.41	
<i>For Welded Seams, Add</i>	9.24	
<i>For Up To 200, Add</i>	8.13	
<i>For >200 To 500, Add</i>	5.19	
<i>For >500 To 1,000, Add</i>	3.48	
<i>For >1,000 To 2,000, Add</i>	1.94	
<i>For >2,000 To 5,000, Add</i>	0.86	
<i>For Elevated Installation >10' To 15', Add</i>	1.08	
<i>For Elevated Installation >15' To 20', Add</i>	2.16	
<i>For Elevated Installation >20' To 25', Add</i>	2.70	
<i>For Elevated Installation >25' To 30', Add</i>	3.79	
<i>For Elevated Installation >30' To 35', Add</i>	4.33	
<i>For Elevated Installation >35' To 40', Add</i>	5.41	
<i>For Elevated Installation >40', Add</i>	5.95	
23 31 13 13-0014 Galvanized Steel Sheet Metal Ductwork By LF <small>(23 31 13 13-0001)</small>		
Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0015			30 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0016	LF		4" x 4", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	13.17	7.08
			<i>For 3" WG (Class B), Add</i>	1.77	
			<i>For 4" Or 6" WG (Class A), Add</i>	3.78	
			<i>For 10" WG (Class A), Add</i>	5.44	
			<i>For Work In Restricted Working Space, Add</i>	3.55	
23 31 13 13-0017	LF		4" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	16.45	8.86
			<i>For 3" WG (Class B), Add</i>	2.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	4.73	
			<i>For 10" WG (Class A), Add</i>	6.79	
			<i>For Work In Restricted Working Space, Add</i>	4.43	
23 31 13 13-0018	LF		4" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.75	10.63
			<i>For 3" WG (Class B), Add</i>	2.66	
			<i>For 4" Or 6" WG (Class A), Add</i>	5.67	
			<i>For 10" WG (Class A), Add</i>	8.15	
			<i>For Work In Restricted Working Space, Add</i>	5.32	
23 31 13 13-0019	LF		4" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.03	12.40
			<i>For 3" WG (Class B), Add</i>	3.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	6.61	
			<i>For 10" WG (Class A), Add</i>	9.51	
			<i>For Work In Restricted Working Space, Add</i>	6.20	
23 31 13 13-0020	LF		4" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	26.34	14.18
			<i>For 3" WG (Class B), Add</i>	3.54	
			<i>For 4" Or 6" WG (Class A), Add</i>	7.56	
			<i>For 10" WG (Class A), Add</i>	10.87	
			<i>For Work In Restricted Working Space, Add</i>	7.09	
23 31 13 13-0021	LF		4" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.62	15.95
			<i>For 3" WG (Class B), Add</i>	3.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.51	
			<i>For 10" WG (Class A), Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
23 31 13 13-0022	LF		4" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
			<i>For 3" WG (Class B), Add</i>	4.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
			<i>For 10" WG (Class A), Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0023	LF		6" x 6", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.75	10.63
			<i>For 3" WG (Class B), Add</i>	2.66	
			<i>For 4" Or 6" WG (Class A), Add</i>	5.67	
			<i>For 10" WG (Class A), Add</i>	8.15	
			<i>For Work In Restricted Working Space, Add</i>	5.32	
23 31 13 13-0024	LF		6" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.03	12.40
			<i>For 3" WG (Class B), Add</i>	3.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	6.61	
			<i>For 10" WG (Class A), Add</i>	9.51	
			<i>For Work In Restricted Working Space, Add</i>	6.20	
23 31 13 13-0025	LF		6" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	26.34	14.18
			<i>For 3" WG (Class B), Add</i>	3.54	
			<i>For 4" Or 6" WG (Class A), Add</i>	7.56	
			<i>For 10" WG (Class A), Add</i>	10.87	
			<i>For Work In Restricted Working Space, Add</i>	7.09	
23 31 13 13-0026	LF		6" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.62	15.95
			<i>For 3" WG (Class B), Add</i>	3.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.51	
			<i>For 10" WG (Class A), Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
23 31 13 13-0027	LF		6" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
			<i>For 3" WG (Class B), Add</i>	4.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
			<i>For 10" WG (Class A), Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0028	LF		6" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.21	19.49
			<i>For 3" WG (Class B), Add</i>	4.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.40	
			<i>For 10" WG (Class A), Add</i>	14.95	
			<i>For Work In Restricted Working Space, Add</i>	9.75	
23 31 13 13-0029	LF		8" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	26.34	14.18
			<i>For 3" WG (Class B), Add</i>	3.54	
			<i>For 4" Or 6" WG (Class A), Add</i>	7.56	
			<i>For 10" WG (Class A), Add</i>	10.87	
			<i>For Work In Restricted Working Space, Add</i>	7.09	
23 31 13 13-0030	LF		8" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.62	15.95
			<i>For 3" WG (Class B), Add</i>	3.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.51	
			<i>For 10" WG (Class A), Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
23 31 13 13-0031	LF		8" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
			<i>For 3" WG (Class B), Add</i>	4.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
			<i>For 10" WG (Class A), Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0032	LF		8" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.21	19.49
			<i>For 3" WG (Class B), Add</i>	4.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.40	
			<i>For 10" WG (Class A), Add</i>	14.95	
			<i>For Work In Restricted Working Space, Add</i>	9.75	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0033 LF 8" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.48	21.26
<i>For 3" WG (Class B), Add</i>	5.31	
<i>For 4" Or 6" WG (Class A), Add</i>	11.34	
<i>For 10" WG (Class A), Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0034 LF 8" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.78	23.03
<i>For 3" WG (Class B), Add</i>	5.76	
<i>For 4" Or 6" WG (Class A), Add</i>	12.28	
<i>For 10" WG (Class A), Add</i>	17.66	
<i>For Work In Restricted Working Space, Add</i>	11.52	
23 31 13 13-0035 LF 8" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
<i>For 3" WG (Class B), Add</i>	6.20	
<i>For 4" Or 6" WG (Class A), Add</i>	13.23	
<i>For 10" WG (Class A), Add</i>	19.02	
<i>For Work In Restricted Working Space, Add</i>	12.40	
23 31 13 13-0036 LF 8" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
<i>For 3" WG (Class B), Add</i>	6.64	
<i>For 4" Or 6" WG (Class A), Add</i>	14.17	
<i>For 10" WG (Class A), Add</i>	20.37	
<i>For Work In Restricted Working Space, Add</i>	13.29	
23 31 13 13-0037 LF 8" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
<i>For 3" WG (Class B), Add</i>	7.09	
<i>For 4" Or 6" WG (Class A), Add</i>	15.12	
<i>For 10" WG (Class A), Add</i>	21.73	
<i>For Work In Restricted Working Space, Add</i>	14.17	
23 31 13 13-0038 LF 10" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
<i>For 3" WG (Class B), Add</i>	4.43	
<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
<i>For 10" WG (Class A), Add</i>	13.59	
<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0039 LF 10" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.21	19.49
<i>For 3" WG (Class B), Add</i>	4.87	
<i>For 4" Or 6" WG (Class A), Add</i>	10.40	
<i>For 10" WG (Class A), Add</i>	14.95	
<i>For Work In Restricted Working Space, Add</i>	9.75	
23 31 13 13-0040 LF 10" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.48	21.26
<i>For 3" WG (Class B), Add</i>	5.31	
<i>For 4" Or 6" WG (Class A), Add</i>	11.34	
<i>For 10" WG (Class A), Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0041 LF 10" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.78	23.03
<i>For 3" WG (Class B), Add</i>	5.76	
<i>For 4" Or 6" WG (Class A), Add</i>	12.28	
<i>For 10" WG (Class A), Add</i>	17.66	
<i>For Work In Restricted Working Space, Add</i>	11.52	
23 31 13 13-0042 LF 10" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
<i>For 3" WG (Class B), Add</i>	6.20	
<i>For 4" Or 6" WG (Class A), Add</i>	13.23	
<i>For 10" WG (Class A), Add</i>	19.02	
<i>For Work In Restricted Working Space, Add</i>	12.40	
23 31 13 13-0043 LF 10" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
<i>For 3" WG (Class B), Add</i>	6.64	
<i>For 4" Or 6" WG (Class A), Add</i>	14.17	
<i>For 10" WG (Class A), Add</i>	20.37	
<i>For Work In Restricted Working Space, Add</i>	13.29	
23 31 13 13-0044 LF 10" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
<i>For 3" WG (Class B), Add</i>	7.09	
<i>For 4" Or 6" WG (Class A), Add</i>	15.12	
<i>For 10" WG (Class A), Add</i>	21.73	
<i>For Work In Restricted Working Space, Add</i>	14.17	
23 31 13 13-0045 LF 10" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
<i>For 3" WG (Class B), Add</i>	7.53	
<i>For 4" Or 6" WG (Class A), Add</i>	16.06	
<i>For 10" WG (Class A), Add</i>	23.09	
<i>For Work In Restricted Working Space, Add</i>	15.06	
23 31 13 13-0046 LF 12" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.48	21.26
<i>For 3" WG (Class B), Add</i>	5.31	
<i>For 4" Or 6" WG (Class A), Add</i>	11.34	
<i>For 10" WG (Class A), Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0047 LF 12" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.78	23.03
<i>For 3" WG (Class B), Add</i>	5.76	
<i>For 4" Or 6" WG (Class A), Add</i>	12.28	
<i>For 10" WG (Class A), Add</i>	17.66	
<i>For Work In Restricted Working Space, Add</i>	11.52	
23 31 13 13-0048 LF 12" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
<i>For 3" WG (Class B), Add</i>	6.20	
<i>For 4" Or 6" WG (Class A), Add</i>	13.23	
<i>For 10" WG (Class A), Add</i>	19.02	
<i>For Work In Restricted Working Space, Add</i>	12.40	
23 31 13 13-0049 LF 12" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
<i>For 3" WG (Class B), Add</i>	6.64	
<i>For 4" Or 6" WG (Class A), Add</i>	14.17	
<i>For 10" WG (Class A), Add</i>	20.37	
<i>For Work In Restricted Working Space, Add</i>	13.29	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0050	LF	12" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
			<i>For 3" WG (Class B), Add</i>	7.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.12	
			<i>For 10" WG (Class A), Add</i>	21.73	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
23 31 13	13-0051	LF	12" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
			<i>For 3" WG (Class B), Add</i>	7.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.06	
			<i>For 10" WG (Class A), Add</i>	23.09	
			<i>For Work In Restricted Working Space, Add</i>	15.06	
23 31 13	13-0052	LF	12" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
			<i>For 3" WG (Class B), Add</i>	7.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
			<i>For 10" WG (Class A), Add</i>	24.45	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13	13-0053	LF	14" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
			<i>For 3" WG (Class B), Add</i>	6.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.23	
			<i>For 10" WG (Class A), Add</i>	19.02	
			<i>For Work In Restricted Working Space, Add</i>	12.40	
23 31 13	13-0054	LF	14" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
			<i>For 3" WG (Class B), Add</i>	6.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.17	
			<i>For 10" WG (Class A), Add</i>	20.37	
			<i>For Work In Restricted Working Space, Add</i>	13.29	
23 31 13	13-0055	LF	14" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
			<i>For 3" WG (Class B), Add</i>	7.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.12	
			<i>For 10" WG (Class A), Add</i>	21.73	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
23 31 13	13-0056	LF	14" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
			<i>For 3" WG (Class B), Add</i>	7.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.06	
			<i>For 10" WG (Class A), Add</i>	23.09	
			<i>For Work In Restricted Working Space, Add</i>	15.06	
23 31 13	13-0057	LF	14" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
			<i>For 3" WG (Class B), Add</i>	7.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
			<i>For 10" WG (Class A), Add</i>	24.45	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13	13-0058	LF	14" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.53	33.67
			<i>For 3" WG (Class B), Add</i>	8.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.96	
			<i>For 10" WG (Class A), Add</i>	25.81	
			<i>For Work In Restricted Working Space, Add</i>	16.83	
23 31 13	13-0059	LF	16" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
			<i>For 3" WG (Class B), Add</i>	7.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.12	
			<i>For 10" WG (Class A), Add</i>	21.73	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
23 31 13	13-0060	LF	16" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
			<i>For 3" WG (Class B), Add</i>	7.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.06	
			<i>For 10" WG (Class A), Add</i>	23.09	
			<i>For Work In Restricted Working Space, Add</i>	15.06	
23 31 13	13-0061	LF	16" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
			<i>For 3" WG (Class B), Add</i>	7.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
			<i>For 10" WG (Class A), Add</i>	24.45	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13	13-0062	LF	16" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.53	33.67
			<i>For 3" WG (Class B), Add</i>	8.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.96	
			<i>For 10" WG (Class A), Add</i>	25.81	
			<i>For Work In Restricted Working Space, Add</i>	16.83	
23 31 13	13-0063	LF	16" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	65.81	35.43
			<i>For 3" WG (Class B), Add</i>	8.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.90	
			<i>For 10" WG (Class A), Add</i>	27.17	
			<i>For Work In Restricted Working Space, Add</i>	17.72	
23 31 13	13-0064	LF	18" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
			<i>For 3" WG (Class B), Add</i>	7.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
			<i>For 10" WG (Class A), Add</i>	24.45	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13	13-0065	LF	18" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.53	33.67
			<i>For 3" WG (Class B), Add</i>	8.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.96	
			<i>For 10" WG (Class A), Add</i>	25.81	
			<i>For Work In Restricted Working Space, Add</i>	16.83	
23 31 13	13-0066	LF	18" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	65.81	35.43
			<i>For 3" WG (Class B), Add</i>	8.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.90	
			<i>For 10" WG (Class A), Add</i>	27.17	
			<i>For Work In Restricted Working Space, Add</i>	17.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0067 LF 18" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.09	37.21
<i>For 3" WG (Class B), Add</i>	9.30	
<i>For 4" Or 6" WG (Class A), Add</i>	19.84	
<i>For 10" WG (Class A), Add</i>	28.52	
<i>For Work In Restricted Working Space, Add</i>	18.60	
23 31 13 13-0068 LF 20" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	65.81	35.43
<i>For 3" WG (Class B), Add</i>	8.86	
<i>For 4" Or 6" WG (Class A), Add</i>	18.90	
<i>For 10" WG (Class A), Add</i>	27.17	
<i>For Work In Restricted Working Space, Add</i>	17.72	
23 31 13 13-0069 LF 20" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.09	37.21
<i>For 3" WG (Class B), Add</i>	9.30	
<i>For 4" Or 6" WG (Class A), Add</i>	19.84	
<i>For 10" WG (Class A), Add</i>	28.52	
<i>For Work In Restricted Working Space, Add</i>	18.60	
23 31 13 13-0070 LF 20" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.39	38.98
<i>For 3" WG (Class B), Add</i>	9.74	
<i>For 4" Or 6" WG (Class A), Add</i>	20.79	
<i>For 10" WG (Class A), Add</i>	29.88	
<i>For Work In Restricted Working Space, Add</i>	19.49	
23 31 13 13-0071 LF 22" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.39	38.98
<i>For 3" WG (Class B), Add</i>	9.74	
<i>For 4" Or 6" WG (Class A), Add</i>	20.79	
<i>For 10" WG (Class A), Add</i>	29.88	
<i>For Work In Restricted Working Space, Add</i>	19.49	
23 31 13 13-0072 LF 22" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	75.68	40.75
<i>For 3" WG (Class B), Add</i>	10.19	
<i>For 4" Or 6" WG (Class A), Add</i>	21.73	
<i>For 10" WG (Class A), Add</i>	31.24	
<i>For Work In Restricted Working Space, Add</i>	20.38	
23 31 13 13-0073 LF 24" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.99	42.53
<i>For 3" WG (Class B), Add</i>	10.63	
<i>For 4" Or 6" WG (Class A), Add</i>	22.68	
<i>For 10" WG (Class A), Add</i>	32.60	
<i>For Work In Restricted Working Space, Add</i>	21.26	
23 31 13 13-0074 28 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0075 LF 4" x 4", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	15.66	8.44
<i>For 3" WG (Class B), Add</i>	2.11	
<i>For 4" Or 6" WG (Class A), Add</i>	4.50	
<i>For 10" WG (Class A), Add</i>	6.47	
<i>For Work In Restricted Working Space, Add</i>	4.22	
23 31 13 13-0076 LF 4" x 6", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.59	10.54
<i>For 3" WG (Class B), Add</i>	2.64	
<i>For 4" Or 6" WG (Class A), Add</i>	5.63	
<i>For 10" WG (Class A), Add</i>	8.09	
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 31 13 13-0077 LF 4" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.51	12.65
<i>For 3" WG (Class B), Add</i>	3.17	
<i>For 4" Or 6" WG (Class A), Add</i>	6.75	
<i>For 10" WG (Class A), Add</i>	9.71	
<i>For Work In Restricted Working Space, Add</i>	6.33	
23 31 13 13-0078 LF 4" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.42	14.77
<i>For 3" WG (Class B), Add</i>	3.69	
<i>For 4" Or 6" WG (Class A), Add</i>	7.88	
<i>For 10" WG (Class A), Add</i>	11.32	
<i>For Work In Restricted Working Space, Add</i>	7.38	
23 31 13 13-0079 LF 4" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.34	16.89
<i>For 3" WG (Class B), Add</i>	4.22	
<i>For 4" Or 6" WG (Class A), Add</i>	9.00	
<i>For 10" WG (Class A), Add</i>	12.94	
<i>For Work In Restricted Working Space, Add</i>	8.44	
23 31 13 13-0080 LF 4" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.26	18.98
<i>For 3" WG (Class B), Add</i>	4.75	
<i>For 4" Or 6" WG (Class A), Add</i>	10.12	
<i>For 10" WG (Class A), Add</i>	14.55	
<i>For Work In Restricted Working Space, Add</i>	9.49	
23 31 13 13-0081 LF 4" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
<i>For 3" WG (Class B), Add</i>	5.27	
<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
<i>For 10" WG (Class A), Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13 13-0082 LF 6" x 6", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.51	12.65
<i>For 3" WG (Class B), Add</i>	3.17	
<i>For 4" Or 6" WG (Class A), Add</i>	6.75	
<i>For 10" WG (Class A), Add</i>	9.71	
<i>For Work In Restricted Working Space, Add</i>	6.33	
23 31 13 13-0083 LF 6" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.42	14.77
<i>For 3" WG (Class B), Add</i>	3.69	
<i>For 4" Or 6" WG (Class A), Add</i>	7.88	
<i>For 10" WG (Class A), Add</i>	11.32	
<i>For Work In Restricted Working Space, Add</i>	7.38	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0084	LF	6" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.34	16.89
			<i>For 3" WG (Class B), Add</i>	4.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.00	
			<i>For 10" WG (Class A), Add</i>	12.94	
			<i>For Work In Restricted Working Space, Add</i>	8.44	
23 31 13	13-0085	LF	6" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.26	18.98
			<i>For 3" WG (Class B), Add</i>	4.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.12	
			<i>For 10" WG (Class A), Add</i>	14.55	
			<i>For Work In Restricted Working Space, Add</i>	9.49	
23 31 13	13-0086	LF	6" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
			<i>For 3" WG (Class B), Add</i>	5.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
			<i>For 10" WG (Class A), Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13	13-0087	LF	6" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.11	23.21
			<i>For 3" WG (Class B), Add</i>	5.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.38	
			<i>For 10" WG (Class A), Add</i>	17.79	
			<i>For Work In Restricted Working Space, Add</i>	11.60	
23 31 13	13-0088	LF	8" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.34	16.89
			<i>For 3" WG (Class B), Add</i>	4.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.00	
			<i>For 10" WG (Class A), Add</i>	12.94	
			<i>For Work In Restricted Working Space, Add</i>	8.44	
23 31 13	13-0089	LF	8" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.26	18.98
			<i>For 3" WG (Class B), Add</i>	4.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.12	
			<i>For 10" WG (Class A), Add</i>	14.55	
			<i>For Work In Restricted Working Space, Add</i>	9.49	
23 31 13	13-0090	LF	8" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
			<i>For 3" WG (Class B), Add</i>	5.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
			<i>For 10" WG (Class A), Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13	13-0091	LF	8" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.11	23.21
			<i>For 3" WG (Class B), Add</i>	5.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.38	
			<i>For 10" WG (Class A), Add</i>	17.79	
			<i>For Work In Restricted Working Space, Add</i>	11.60	
23 31 13	13-0092	LF	8" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	47.01	25.31
			<i>For 3" WG (Class B), Add</i>	6.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.50	
			<i>For 10" WG (Class A), Add</i>	19.41	
			<i>For Work In Restricted Working Space, Add</i>	12.66	
23 31 13	13-0093	LF	8" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.92	27.42
			<i>For 3" WG (Class B), Add</i>	6.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.62	
			<i>For 10" WG (Class A), Add</i>	21.02	
			<i>For Work In Restricted Working Space, Add</i>	13.71	
23 31 13	13-0094	LF	8" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
			<i>For 3" WG (Class B), Add</i>	7.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
			<i>For 10" WG (Class A), Add</i>	22.64	
			<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31 13	13-0095	LF	8" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
			<i>For 3" WG (Class B), Add</i>	7.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
			<i>For 10" WG (Class A), Add</i>	24.26	
			<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31 13	13-0096	LF	8" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
			<i>For 3" WG (Class B), Add</i>	8.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
			<i>For 10" WG (Class A), Add</i>	25.88	
			<i>For Work In Restricted Working Space, Add</i>	16.88	
23 31 13	13-0097	LF	10" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
			<i>For 3" WG (Class B), Add</i>	5.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
			<i>For 10" WG (Class A), Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13	13-0098	LF	10" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.11	23.21
			<i>For 3" WG (Class B), Add</i>	5.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.38	
			<i>For 10" WG (Class A), Add</i>	17.79	
			<i>For Work In Restricted Working Space, Add</i>	11.60	
23 31 13	13-0099	LF	10" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	47.01	25.31
			<i>For 3" WG (Class B), Add</i>	6.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.50	
			<i>For 10" WG (Class A), Add</i>	19.41	
			<i>For Work In Restricted Working Space, Add</i>	12.66	
23 31 13	13-0100	LF	10" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.92	27.42
			<i>For 3" WG (Class B), Add</i>	6.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.62	
			<i>For 10" WG (Class A), Add</i>	21.02	
			<i>For Work In Restricted Working Space, Add</i>	13.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0101 LF 10" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
<i>For 3" WG (Class B), Add</i>	7.38	
<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
<i>For 10" WG (Class A), Add</i>	22.64	
<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31 13 13-0102 LF 10" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
<i>For 3" WG (Class B), Add</i>	7.91	
<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
<i>For 10" WG (Class A), Add</i>	24.26	
<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31 13 13-0103 LF 10" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
<i>For 3" WG (Class B), Add</i>	8.44	
<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
<i>For 10" WG (Class A), Add</i>	25.88	
<i>For Work In Restricted Working Space, Add</i>	16.88	
23 31 13 13-0104 LF 10" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
<i>For 3" WG (Class B), Add</i>	8.97	
<i>For 4" Or 6" WG (Class A), Add</i>	19.13	
<i>For 10" WG (Class A), Add</i>	27.50	
<i>For Work In Restricted Working Space, Add</i>	17.93	
23 31 13 13-0105 LF 12" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	47.01	25.31
<i>For 3" WG (Class B), Add</i>	6.33	
<i>For 4" Or 6" WG (Class A), Add</i>	13.50	
<i>For 10" WG (Class A), Add</i>	19.41	
<i>For Work In Restricted Working Space, Add</i>	12.66	
23 31 13 13-0106 LF 12" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.92	27.42
<i>For 3" WG (Class B), Add</i>	6.86	
<i>For 4" Or 6" WG (Class A), Add</i>	14.62	
<i>For 10" WG (Class A), Add</i>	21.02	
<i>For Work In Restricted Working Space, Add</i>	13.71	
23 31 13 13-0107 LF 12" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
<i>For 3" WG (Class B), Add</i>	7.38	
<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
<i>For 10" WG (Class A), Add</i>	22.64	
<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31 13 13-0108 LF 12" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
<i>For 3" WG (Class B), Add</i>	7.91	
<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
<i>For 10" WG (Class A), Add</i>	24.26	
<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31 13 13-0109 LF 12" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
<i>For 3" WG (Class B), Add</i>	8.44	
<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
<i>For 10" WG (Class A), Add</i>	25.88	
<i>For Work In Restricted Working Space, Add</i>	16.88	
23 31 13 13-0110 LF 12" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
<i>For 3" WG (Class B), Add</i>	8.97	
<i>For 4" Or 6" WG (Class A), Add</i>	19.13	
<i>For 10" WG (Class A), Add</i>	27.50	
<i>For Work In Restricted Working Space, Add</i>	17.93	
23 31 13 13-0111 LF 12" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
<i>For 3" WG (Class B), Add</i>	9.49	
<i>For 4" Or 6" WG (Class A), Add</i>	20.25	
<i>For 10" WG (Class A), Add</i>	29.11	
<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13 13-0112 LF 14" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
<i>For 3" WG (Class B), Add</i>	7.38	
<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
<i>For 10" WG (Class A), Add</i>	22.64	
<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31 13 13-0113 LF 14" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
<i>For 3" WG (Class B), Add</i>	7.91	
<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
<i>For 10" WG (Class A), Add</i>	24.26	
<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31 13 13-0114 LF 14" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
<i>For 3" WG (Class B), Add</i>	8.44	
<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
<i>For 10" WG (Class A), Add</i>	25.88	
<i>For Work In Restricted Working Space, Add</i>	16.88	
23 31 13 13-0115 LF 14" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
<i>For 3" WG (Class B), Add</i>	8.97	
<i>For 4" Or 6" WG (Class A), Add</i>	19.13	
<i>For 10" WG (Class A), Add</i>	27.50	
<i>For Work In Restricted Working Space, Add</i>	17.93	
23 31 13 13-0116 LF 14" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
<i>For 3" WG (Class B), Add</i>	9.49	
<i>For 4" Or 6" WG (Class A), Add</i>	20.25	
<i>For 10" WG (Class A), Add</i>	29.11	
<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13 13-0117 LF 14" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.45	40.08
<i>For 3" WG (Class B), Add</i>	10.02	
<i>For 4" Or 6" WG (Class A), Add</i>	21.38	
<i>For 10" WG (Class A), Add</i>	30.73	
<i>For Work In Restricted Working Space, Add</i>	20.04	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0118 LF 16" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
For 3" WG (Class B), Add	8.44	
For 4" Or 6" WG (Class A), Add	18.00	
For 10" WG (Class A), Add	25.88	
For Work In Restricted Working Space, Add	16.88	
23 31 13 13-0119 LF 16" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
For 3" WG (Class B), Add	8.97	
For 4" Or 6" WG (Class A), Add	19.13	
For 10" WG (Class A), Add	27.50	
For Work In Restricted Working Space, Add	17.93	
23 31 13 13-0120 LF 16" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
For 3" WG (Class B), Add	9.49	
For 4" Or 6" WG (Class A), Add	20.25	
For 10" WG (Class A), Add	29.11	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0121 LF 16" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.45	40.08
For 3" WG (Class B), Add	10.02	
For 4" Or 6" WG (Class A), Add	21.38	
For 10" WG (Class A), Add	30.73	
For Work In Restricted Working Space, Add	20.04	
23 31 13 13-0122 LF 16" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.35	42.19
For 3" WG (Class B), Add	10.55	
For 4" Or 6" WG (Class A), Add	22.50	
For 10" WG (Class A), Add	32.34	
For Work In Restricted Working Space, Add	21.09	
23 31 13 13-0123 LF 18" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
For 3" WG (Class B), Add	9.49	
For 4" Or 6" WG (Class A), Add	20.25	
For 10" WG (Class A), Add	29.11	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0124 LF 18" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.45	40.08
For 3" WG (Class B), Add	10.02	
For 4" Or 6" WG (Class A), Add	21.38	
For 10" WG (Class A), Add	30.73	
For Work In Restricted Working Space, Add	20.04	
23 31 13 13-0125 LF 18" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.35	42.19
For 3" WG (Class B), Add	10.55	
For 4" Or 6" WG (Class A), Add	22.50	
For 10" WG (Class A), Add	32.34	
For Work In Restricted Working Space, Add	21.09	
23 31 13 13-0126 LF 18" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	82.27	44.30
For 3" WG (Class B), Add	11.07	
For 4" Or 6" WG (Class A), Add	23.63	
For 10" WG (Class A), Add	33.96	
For Work In Restricted Working Space, Add	22.15	
23 31 13 13-0127 LF 20" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.35	42.19
For 3" WG (Class B), Add	10.55	
For 4" Or 6" WG (Class A), Add	22.50	
For 10" WG (Class A), Add	32.34	
For Work In Restricted Working Space, Add	21.09	
23 31 13 13-0128 LF 20" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	82.27	44.30
For 3" WG (Class B), Add	11.07	
For 4" Or 6" WG (Class A), Add	23.63	
For 10" WG (Class A), Add	33.96	
For Work In Restricted Working Space, Add	22.15	
23 31 13 13-0129 LF 20" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.20	46.41
For 3" WG (Class B), Add	11.60	
For 4" Or 6" WG (Class A), Add	24.75	
For 10" WG (Class A), Add	35.58	
For Work In Restricted Working Space, Add	23.21	
23 31 13 13-0130 LF 22" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.20	46.41
For 3" WG (Class B), Add	11.60	
For 4" Or 6" WG (Class A), Add	24.75	
For 10" WG (Class A), Add	35.58	
For Work In Restricted Working Space, Add	23.21	
23 31 13 13-0131 LF 22" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.10	48.52
For 3" WG (Class B), Add	12.13	
For 4" Or 6" WG (Class A), Add	25.87	
For 10" WG (Class A), Add	37.19	
For Work In Restricted Working Space, Add	24.26	
23 31 13 13-0132 LF 24" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	94.02	50.63
For 3" WG (Class B), Add	12.66	
For 4" Or 6" WG (Class A), Add	27.00	
For 10" WG (Class A), Add	38.81	
For Work In Restricted Working Space, Add	25.31	
23 31 13 13-0133 26 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0134 LF 4" x 4", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	18.19	9.78
For 3" WG (Class B), Add	2.45	
For 4" Or 6" WG (Class A), Add	5.22	
For 10" WG (Class A), Add	7.51	
For Work In Restricted Working Space, Add	4.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0135 LF 4" x 6", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	22.72	12.23
<i>For 3" WG (Class B), Add</i>	3.06	
<i>For 4" Or 6" WG (Class A), Add</i>	6.52	
<i>For 10" WG (Class A), Add</i>	9.38	
<i>For Work In Restricted Working Space, Add</i>	6.12	
23 31 13 13-0136 LF 4" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.27	14.69
<i>For 3" WG (Class B), Add</i>	3.67	
<i>For 4" Or 6" WG (Class A), Add</i>	7.83	
<i>For 10" WG (Class A), Add</i>	11.26	
<i>For Work In Restricted Working Space, Add</i>	7.34	
23 31 13 13-0137 LF 4" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.81	17.14
<i>For 3" WG (Class B), Add</i>	4.28	
<i>For 4" Or 6" WG (Class A), Add</i>	9.14	
<i>For 10" WG (Class A), Add</i>	13.13	
<i>For Work In Restricted Working Space, Add</i>	8.57	
23 31 13 13-0138 LF 4" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.35	19.58
<i>For 3" WG (Class B), Add</i>	4.89	
<i>For 4" Or 6" WG (Class A), Add</i>	10.44	
<i>For 10" WG (Class A), Add</i>	15.01	
<i>For Work In Restricted Working Space, Add</i>	9.79	
23 31 13 13-0139 LF 4" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	40.89	22.02
<i>For 3" WG (Class B), Add</i>	5.51	
<i>For 4" Or 6" WG (Class A), Add</i>	11.74	
<i>For 10" WG (Class A), Add</i>	16.88	
<i>For Work In Restricted Working Space, Add</i>	11.01	
23 31 13 13-0140 LF 4" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
<i>For 3" WG (Class B), Add</i>	6.12	
<i>For 4" Or 6" WG (Class A), Add</i>	13.05	
<i>For 10" WG (Class A), Add</i>	18.76	
<i>For Work In Restricted Working Space, Add</i>	12.24	
23 31 13 13-0141 LF 6" x 6", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.27	14.69
<i>For 3" WG (Class B), Add</i>	3.67	
<i>For 4" Or 6" WG (Class A), Add</i>	7.83	
<i>For 10" WG (Class A), Add</i>	11.26	
<i>For Work In Restricted Working Space, Add</i>	7.34	
23 31 13 13-0142 LF 6" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.81	17.14
<i>For 3" WG (Class B), Add</i>	4.28	
<i>For 4" Or 6" WG (Class A), Add</i>	9.14	
<i>For 10" WG (Class A), Add</i>	13.13	
<i>For Work In Restricted Working Space, Add</i>	8.57	
23 31 13 13-0143 LF 6" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.35	19.58
<i>For 3" WG (Class B), Add</i>	4.89	
<i>For 4" Or 6" WG (Class A), Add</i>	10.44	
<i>For 10" WG (Class A), Add</i>	15.01	
<i>For Work In Restricted Working Space, Add</i>	9.79	
23 31 13 13-0144 LF 6" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	40.90	22.02
<i>For 3" WG (Class B), Add</i>	5.51	
<i>For 4" Or 6" WG (Class A), Add</i>	11.74	
<i>For 10" WG (Class A), Add</i>	16.88	
<i>For Work In Restricted Working Space, Add</i>	11.01	
23 31 13 13-0145 LF 6" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
<i>For 3" WG (Class B), Add</i>	6.12	
<i>For 4" Or 6" WG (Class A), Add</i>	13.05	
<i>For 10" WG (Class A), Add</i>	18.76	
<i>For Work In Restricted Working Space, Add</i>	12.24	
23 31 13 13-0146 LF 6" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.00	26.92
<i>For 3" WG (Class B), Add</i>	6.73	
<i>For 4" Or 6" WG (Class A), Add</i>	14.36	
<i>For 10" WG (Class A), Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	13.46	
23 31 13 13-0147 LF 8" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.35	19.58
<i>For 3" WG (Class B), Add</i>	4.89	
<i>For 4" Or 6" WG (Class A), Add</i>	10.44	
<i>For 10" WG (Class A), Add</i>	15.01	
<i>For Work In Restricted Working Space, Add</i>	9.79	
23 31 13 13-0148 LF 8" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	40.90	22.02
<i>For 3" WG (Class B), Add</i>	5.51	
<i>For 4" Or 6" WG (Class A), Add</i>	11.74	
<i>For 10" WG (Class A), Add</i>	16.88	
<i>For Work In Restricted Working Space, Add</i>	11.01	
23 31 13 13-0149 LF 8" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
<i>For 3" WG (Class B), Add</i>	6.12	
<i>For 4" Or 6" WG (Class A), Add</i>	13.05	
<i>For 10" WG (Class A), Add</i>	18.76	
<i>For Work In Restricted Working Space, Add</i>	12.24	
23 31 13 13-0150 LF 8" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.00	26.92
<i>For 3" WG (Class B), Add</i>	6.73	
<i>For 4" Or 6" WG (Class A), Add</i>	14.36	
<i>For 10" WG (Class A), Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	13.46	
23 31 13 13-0151 LF 8" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.55	29.37
<i>For 3" WG (Class B), Add</i>	7.34	
<i>For 4" Or 6" WG (Class A), Add</i>	15.66	
<i>For 10" WG (Class A), Add</i>	22.52	
<i>For Work In Restricted Working Space, Add</i>	14.69	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0152	LF 8" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.09	31.81
			For 3" WG (Class B), Add	7.95	
			For 4" Or 6" WG (Class A), Add	16.97	
			For 10" WG (Class A), Add	24.39	
			For Work In Restricted Working Space, Add	15.91	
23 31	13	13-0153	LF 8" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
			For 3" WG (Class B), Add	8.57	
			For 4" Or 6" WG (Class A), Add	18.27	
			For 10" WG (Class A), Add	26.27	
			For Work In Restricted Working Space, Add	17.13	
23 31	13	13-0154	LF 8" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
			For 3" WG (Class B), Add	9.18	
			For 4" Or 6" WG (Class A), Add	19.58	
			For 10" WG (Class A), Add	28.14	
			For Work In Restricted Working Space, Add	18.35	
23 31	13	13-0155	LF 8" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	
23 31	13	13-0156	LF 10" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
			For 3" WG (Class B), Add	6.12	
			For 4" Or 6" WG (Class A), Add	13.05	
			For 10" WG (Class A), Add	18.76	
			For Work In Restricted Working Space, Add	12.24	
23 31	13	13-0157	LF 10" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.99	26.92
			For 3" WG (Class B), Add	6.73	
			For 4" Or 6" WG (Class A), Add	14.36	
			For 10" WG (Class A), Add	20.64	
			For Work In Restricted Working Space, Add	13.46	
23 31	13	13-0158	LF 10" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.55	29.37
			For 3" WG (Class B), Add	7.34	
			For 4" Or 6" WG (Class A), Add	15.66	
			For 10" WG (Class A), Add	22.52	
			For Work In Restricted Working Space, Add	14.69	
23 31	13	13-0159	LF 10" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.09	31.81
			For 3" WG (Class B), Add	7.95	
			For 4" Or 6" WG (Class A), Add	16.97	
			For 10" WG (Class A), Add	24.39	
			For Work In Restricted Working Space, Add	15.91	
23 31	13	13-0160	LF 10" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
			For 3" WG (Class B), Add	8.57	
			For 4" Or 6" WG (Class A), Add	18.27	
			For 10" WG (Class A), Add	26.27	
			For Work In Restricted Working Space, Add	17.13	
23 31	13	13-0161	LF 10" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
			For 3" WG (Class B), Add	9.18	
			For 4" Or 6" WG (Class A), Add	19.58	
			For 10" WG (Class A), Add	28.14	
			For Work In Restricted Working Space, Add	18.35	
23 31	13	13-0162	LF 10" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	
23 31	13	13-0163	LF 10" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
			For 3" WG (Class B), Add	10.40	
			For 4" Or 6" WG (Class A), Add	22.19	
			For 10" WG (Class A), Add	31.90	
			For Work In Restricted Working Space, Add	20.80	
23 31	13	13-0164	LF 12" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.55	29.37
			For 3" WG (Class B), Add	7.34	
			For 4" Or 6" WG (Class A), Add	15.66	
			For 10" WG (Class A), Add	22.52	
			For Work In Restricted Working Space, Add	14.69	
23 31	13	13-0165	LF 12" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.09	31.81
			For 3" WG (Class B), Add	7.95	
			For 4" Or 6" WG (Class A), Add	16.97	
			For 10" WG (Class A), Add	24.39	
			For Work In Restricted Working Space, Add	15.91	
23 31	13	13-0166	LF 12" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
			For 3" WG (Class B), Add	8.57	
			For 4" Or 6" WG (Class A), Add	18.27	
			For 10" WG (Class A), Add	26.27	
			For Work In Restricted Working Space, Add	17.13	
23 31	13	13-0167	LF 12" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
			For 3" WG (Class B), Add	9.18	
			For 4" Or 6" WG (Class A), Add	19.58	
			For 10" WG (Class A), Add	28.14	
			For Work In Restricted Working Space, Add	18.35	
23 31	13	13-0168	LF 12" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0169 LF 12" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
<i>For 3" WG (Class B), Add</i>	10.40	
<i>For 4" Or 6" WG (Class A), Add</i>	22.19	
<i>For 10" WG (Class A), Add</i>	31.90	
<i>For Work In Restricted Working Space, Add</i>	20.80	
23 31 13 13-0170 LF 12" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
<i>For 3" WG (Class B), Add</i>	11.01	
<i>For 4" Or 6" WG (Class A), Add</i>	23.49	
<i>For 10" WG (Class A), Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	22.03	
23 31 13 13-0171 LF 12" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
<i>For 3" WG (Class B), Add</i>	8.57	
<i>For 4" Or 6" WG (Class A), Add</i>	18.27	
<i>For 10" WG (Class A), Add</i>	26.27	
<i>For Work In Restricted Working Space, Add</i>	17.13	
23 31 13 13-0172 LF 14" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
<i>For 3" WG (Class B), Add</i>	9.18	
<i>For 4" Or 6" WG (Class A), Add</i>	19.58	
<i>For 10" WG (Class A), Add</i>	28.14	
<i>For Work In Restricted Working Space, Add</i>	18.35	
23 31 13 13-0173 LF 14" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
<i>For 3" WG (Class B), Add</i>	9.79	
<i>For 4" Or 6" WG (Class A), Add</i>	20.88	
<i>For 10" WG (Class A), Add</i>	30.02	
<i>For Work In Restricted Working Space, Add</i>	19.58	
23 31 13 13-0174 LF 14" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
<i>For 3" WG (Class B), Add</i>	10.40	
<i>For 4" Or 6" WG (Class A), Add</i>	22.19	
<i>For 10" WG (Class A), Add</i>	31.90	
<i>For Work In Restricted Working Space, Add</i>	20.80	
23 31 13 13-0175 LF 14" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
<i>For 3" WG (Class B), Add</i>	11.01	
<i>For 4" Or 6" WG (Class A), Add</i>	23.49	
<i>For 10" WG (Class A), Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	22.03	
23 31 13 13-0176 LF 14" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.37	46.50
<i>For 3" WG (Class B), Add</i>	11.63	
<i>For 4" Or 6" WG (Class A), Add</i>	24.80	
<i>For 10" WG (Class A), Add</i>	35.65	
<i>For Work In Restricted Working Space, Add</i>	23.25	
23 31 13 13-0177 LF 16" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
<i>For 3" WG (Class B), Add</i>	9.79	
<i>For 4" Or 6" WG (Class A), Add</i>	20.88	
<i>For 10" WG (Class A), Add</i>	30.02	
<i>For Work In Restricted Working Space, Add</i>	19.58	
23 31 13 13-0178 LF 16" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
<i>For 3" WG (Class B), Add</i>	10.40	
<i>For 4" Or 6" WG (Class A), Add</i>	22.19	
<i>For 10" WG (Class A), Add</i>	31.90	
<i>For Work In Restricted Working Space, Add</i>	20.80	
23 31 13 13-0179 LF 16" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
<i>For 3" WG (Class B), Add</i>	11.01	
<i>For 4" Or 6" WG (Class A), Add</i>	23.49	
<i>For 10" WG (Class A), Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	22.03	
23 31 13 13-0180 LF 16" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.37	46.50
<i>For 3" WG (Class B), Add</i>	11.63	
<i>For 4" Or 6" WG (Class A), Add</i>	24.80	
<i>For 10" WG (Class A), Add</i>	35.65	
<i>For Work In Restricted Working Space, Add</i>	23.25	
23 31 13 13-0181 LF 16" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.90	48.95
<i>For 3" WG (Class B), Add</i>	12.24	
<i>For 4" Or 6" WG (Class A), Add</i>	26.10	
<i>For 10" WG (Class A), Add</i>	37.52	
<i>For Work In Restricted Working Space, Add</i>	24.47	
23 31 13 13-0182 LF 18" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
<i>For 3" WG (Class B), Add</i>	11.01	
<i>For 4" Or 6" WG (Class A), Add</i>	23.49	
<i>For 10" WG (Class A), Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	22.03	
23 31 13 13-0183 LF 18" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.37	46.50
<i>For 3" WG (Class B), Add</i>	11.63	
<i>For 4" Or 6" WG (Class A), Add</i>	24.80	
<i>For 10" WG (Class A), Add</i>	35.65	
<i>For Work In Restricted Working Space, Add</i>	23.25	
23 31 13 13-0184 LF 18" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.90	48.95
<i>For 3" WG (Class B), Add</i>	12.24	
<i>For 4" Or 6" WG (Class A), Add</i>	26.10	
<i>For 10" WG (Class A), Add</i>	37.52	
<i>For Work In Restricted Working Space, Add</i>	24.47	
23 31 13 13-0185 LF 18" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	95.44	51.39
<i>For 3" WG (Class B), Add</i>	12.85	
<i>For 4" Or 6" WG (Class A), Add</i>	27.41	
<i>For 10" WG (Class A), Add</i>	39.40	
<i>For Work In Restricted Working Space, Add</i>	25.70	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0186	LF	20" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.90	48.95
			<i>For 3" WG (Class B), Add</i>	12.24	
			<i>For 4" Or 6" WG (Class A), Add</i>	26.10	
			<i>For 10" WG (Class A), Add</i>	37.52	
			<i>For Work In Restricted Working Space, Add</i>	24.47	
23 31 13	13-0187	LF	20" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	95.44	51.39
			<i>For 3" WG (Class B), Add</i>	12.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	27.41	
			<i>For 10" WG (Class A), Add</i>	39.40	
			<i>For Work In Restricted Working Space, Add</i>	25.70	
23 31 13	13-0188	LF	20" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.97	53.83
			<i>For 3" WG (Class B), Add</i>	13.46	
			<i>For 4" Or 6" WG (Class A), Add</i>	28.71	
			<i>For 10" WG (Class A), Add</i>	41.27	
			<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13	13-0189	LF	22" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.97	53.83
			<i>For 3" WG (Class B), Add</i>	13.46	
			<i>For 4" Or 6" WG (Class A), Add</i>	28.71	
			<i>For 10" WG (Class A), Add</i>	41.27	
			<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13	13-0190	LF	22" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	104.53	56.28
			<i>For 3" WG (Class B), Add</i>	14.07	
			<i>For 4" Or 6" WG (Class A), Add</i>	30.02	
			<i>For 10" WG (Class A), Add</i>	43.15	
			<i>For Work In Restricted Working Space, Add</i>	28.14	
23 31 13	13-0191	LF	24" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	109.09	58.73
			<i>For 3" WG (Class B), Add</i>	14.68	
			<i>For 4" Or 6" WG (Class A), Add</i>	31.32	
			<i>For 10" WG (Class A), Add</i>	45.03	
			<i>For Work In Restricted Working Space, Add</i>	29.37	
23 31 13	13-0192		24 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13	13-0193	LF	4" x 4", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.70	15.19
			<i>For 3" WG (Class B), Add</i>	3.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.10	
			<i>For 10" WG (Class A), Add</i>	11.65	
			<i>For Work In Restricted Working Space, Add</i>	7.60	
23 31 13	13-0194	LF	4" x 6", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	34.62	18.98
			<i>For 3" WG (Class B), Add</i>	4.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.13	
			<i>For 10" WG (Class A), Add</i>	14.56	
			<i>For Work In Restricted Working Space, Add</i>	9.50	
23 31 13	13-0195	LF	4" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	41.54	22.78
			<i>For 3" WG (Class B), Add</i>	5.70	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.15	
			<i>For 10" WG (Class A), Add</i>	17.47	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
23 31 13	13-0196	LF	4" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	48.46	26.59
			<i>For 3" WG (Class B), Add</i>	6.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.18	
			<i>For 10" WG (Class A), Add</i>	20.38	
			<i>For Work In Restricted Working Space, Add</i>	13.29	
23 31 13	13-0197	LF	4" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.39	30.39
			<i>For 3" WG (Class B), Add</i>	7.59	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.20	
			<i>For 10" WG (Class A), Add</i>	23.29	
			<i>For Work In Restricted Working Space, Add</i>	15.19	
23 31 13	13-0198	LF	4" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.32	34.18
			<i>For 3" WG (Class B), Add</i>	8.55	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.23	
			<i>For 10" WG (Class A), Add</i>	26.21	
			<i>For Work In Restricted Working Space, Add</i>	17.09	
23 31 13	13-0199	LF	4" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
			<i>For 3" WG (Class B), Add</i>	9.50	
			<i>For 4" Or 6" WG (Class A), Add</i>	20.26	
			<i>For 10" WG (Class A), Add</i>	29.12	
			<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13	13-0200	LF	6" x 6", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	41.54	22.78
			<i>For 3" WG (Class B), Add</i>	5.70	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.15	
			<i>For 10" WG (Class A), Add</i>	17.47	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
23 31 13	13-0201	LF	6" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	48.46	26.59
			<i>For 3" WG (Class B), Add</i>	6.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.18	
			<i>For 10" WG (Class A), Add</i>	20.38	
			<i>For Work In Restricted Working Space, Add</i>	13.29	
23 31 13	13-0202	LF	6" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.39	30.39
			<i>For 3" WG (Class B), Add</i>	7.59	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.20	
			<i>For 10" WG (Class A), Add</i>	23.29	
			<i>For Work In Restricted Working Space, Add</i>	15.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0203 LF 6" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.32	34.18
<i>For 3" WG (Class B), Add</i>	8.55	
<i>For 4" Or 6" WG (Class A), Add</i>	18.23	
<i>For 10" WG (Class A), Add</i>	26.21	
<i>For Work In Restricted Working Space, Add</i>	17.09	
23 31 13 13-0204 LF 6" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
<i>For 3" WG (Class B), Add</i>	9.50	
<i>For 4" Or 6" WG (Class A), Add</i>	20.26	
<i>For 10" WG (Class A), Add</i>	29.12	
<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13 13-0205 LF 6" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	76.17	41.78
<i>For 3" WG (Class B), Add</i>	10.44	
<i>For 4" Or 6" WG (Class A), Add</i>	22.28	
<i>For 10" WG (Class A), Add</i>	32.03	
<i>For Work In Restricted Working Space, Add</i>	20.89	
23 31 13 13-0206 LF 8" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.39	30.39
<i>For 3" WG (Class B), Add</i>	7.59	
<i>For 4" Or 6" WG (Class A), Add</i>	16.20	
<i>For 10" WG (Class A), Add</i>	23.29	
<i>For Work In Restricted Working Space, Add</i>	15.19	
23 31 13 13-0207 LF 8" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.32	34.18
<i>For 3" WG (Class B), Add</i>	8.55	
<i>For 4" Or 6" WG (Class A), Add</i>	18.23	
<i>For 10" WG (Class A), Add</i>	26.21	
<i>For Work In Restricted Working Space, Add</i>	17.09	
23 31 13 13-0208 LF 8" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
<i>For 3" WG (Class B), Add</i>	9.50	
<i>For 4" Or 6" WG (Class A), Add</i>	20.26	
<i>For 10" WG (Class A), Add</i>	29.12	
<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13 13-0209 LF 8" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	76.17	41.78
<i>For 3" WG (Class B), Add</i>	10.44	
<i>For 4" Or 6" WG (Class A), Add</i>	22.28	
<i>For 10" WG (Class A), Add</i>	32.03	
<i>For Work In Restricted Working Space, Add</i>	20.89	
23 31 13 13-0210 LF 8" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.10	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0211 LF 8" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.01	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0212 LF 8" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0213 LF 8" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0214 LF 8" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0215 LF 10" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
<i>For 3" WG (Class B), Add</i>	9.50	
<i>For 4" Or 6" WG (Class A), Add</i>	20.26	
<i>For 10" WG (Class A), Add</i>	29.12	
<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13 13-0216 LF 10" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	76.17	41.78
<i>For 3" WG (Class B), Add</i>	10.44	
<i>For 4" Or 6" WG (Class A), Add</i>	22.28	
<i>For 10" WG (Class A), Add</i>	32.03	
<i>For Work In Restricted Working Space, Add</i>	20.89	
23 31 13 13-0217 LF 10" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.10	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0218 LF 10" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.01	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0219 LF 10" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0220	LF	10" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
			<i>For 3" WG (Class B), Add</i>	14.24	
			<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
			<i>For 10" WG (Class A), Add</i>	43.67	
			<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13	13-0221	LF	10" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
			<i>For 3" WG (Class B), Add</i>	15.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
			<i>For 10" WG (Class A), Add</i>	46.58	
			<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13	13-0222	LF	10" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
			<i>For 3" WG (Class B), Add</i>	16.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
			<i>For 10" WG (Class A), Add</i>	49.50	
			<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13	13-0223	LF	10" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
			<i>For 3" WG (Class B), Add</i>	17.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
			<i>For 10" WG (Class A), Add</i>	52.41	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13	13-0224	LF	10" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
			<i>For 3" WG (Class B), Add</i>	18.04	
			<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
			<i>For 10" WG (Class A), Add</i>	55.32	
			<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13	13-0225	LF	10" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
			<i>For 3" WG (Class B), Add</i>	18.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
			<i>For 10" WG (Class A), Add</i>	58.23	
			<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13	13-0226	LF	12" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.10	45.57
			<i>For 3" WG (Class B), Add</i>	11.39	
			<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
			<i>For 10" WG (Class A), Add</i>	34.94	
			<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13	13-0227	LF	12" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.01	49.37
			<i>For 3" WG (Class B), Add</i>	12.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
			<i>For 10" WG (Class A), Add</i>	37.85	
			<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13	13-0228	LF	12" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
			<i>For 3" WG (Class B), Add</i>	13.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
			<i>For 10" WG (Class A), Add</i>	40.76	
			<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13	13-0229	LF	12" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
			<i>For 3" WG (Class B), Add</i>	14.24	
			<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
			<i>For 10" WG (Class A), Add</i>	43.67	
			<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13	13-0230	LF	12" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
			<i>For 3" WG (Class B), Add</i>	15.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
			<i>For 10" WG (Class A), Add</i>	46.58	
			<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13	13-0231	LF	12" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
			<i>For 3" WG (Class B), Add</i>	16.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
			<i>For 10" WG (Class A), Add</i>	49.50	
			<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13	13-0232	LF	12" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
			<i>For 3" WG (Class B), Add</i>	17.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
			<i>For 10" WG (Class A), Add</i>	52.41	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13	13-0233	LF	12" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
			<i>For 3" WG (Class B), Add</i>	18.04	
			<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
			<i>For 10" WG (Class A), Add</i>	55.32	
			<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13	13-0234	LF	12" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
			<i>For 3" WG (Class B), Add</i>	18.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
			<i>For 10" WG (Class A), Add</i>	58.23	
			<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13	13-0235	LF	12" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
			<i>For 3" WG (Class B), Add</i>	19.94	
			<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
			<i>For 10" WG (Class A), Add</i>	61.14	
			<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13	13-0236	LF	14" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
			<i>For 3" WG (Class B), Add</i>	13.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
			<i>For 10" WG (Class A), Add</i>	40.76	
			<i>For Work In Restricted Working Space, Add</i>	26.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0237 LF 14" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0238 LF 14" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0239 LF 14" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0240 LF 14" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0241 LF 14" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0242 LF 14" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0243 LF 14" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0244 LF 14" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0245 LF 16" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0246 LF 16" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0247 LF 16" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0248 LF 16" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0249 LF 16" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0250 LF 16" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0251 LF 16" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0252 LF 16" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0253 LF 18" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0254 LF 18" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
For 3" WG (Class B), Add	18.04	
For 4" Or 6" WG (Class A), Add	38.48	
For 10" WG (Class A), Add	55.32	
For Work In Restricted Working Space, Add	36.08	
23 31 13 13-0255 LF 18" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0256 LF 18" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0257 LF 18" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0258 LF 18" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0259 LF 18" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0260 LF 20" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0261 LF 20" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0262 LF 20" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0263 LF 20" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0264 LF 20" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0265 LF 20" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.11	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0266 LF 22" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0267 LF 22" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0268 LF 22" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0269 LF 22" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.11	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0270 LF 22" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	180.04	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0271 LF 24" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0272 LF 24" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.11	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0273 LF 24" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	180.04	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	
23 31 13 13-0274 LF 24" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	186.96	102.54
For 3" WG (Class B), Add	25.64	
For 4" Or 6" WG (Class A), Add	54.69	
For 10" WG (Class A), Add	78.61	
For Work In Restricted Working Space, Add	51.27	
23 31 13 13-0275 LF 26" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	180.04	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	
23 31 13 13-0276 LF 26" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	186.96	102.54
For 3" WG (Class B), Add	25.64	
For 4" Or 6" WG (Class A), Add	54.69	
For 10" WG (Class A), Add	78.61	
For Work In Restricted Working Space, Add	51.27	
23 31 13 13-0277 LF 26" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	193.88	106.33
For 3" WG (Class B), Add	26.58	
For 4" Or 6" WG (Class A), Add	56.71	
For 10" WG (Class A), Add	81.52	
For Work In Restricted Working Space, Add	53.17	
23 31 13 13-0278 LF 28" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	193.88	106.33
For 3" WG (Class B), Add	26.58	
For 4" Or 6" WG (Class A), Add	56.71	
For 10" WG (Class A), Add	81.52	
For Work In Restricted Working Space, Add	53.17	
23 31 13 13-0279 LF 28" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	200.80	110.13
For 3" WG (Class B), Add	27.53	
For 4" Or 6" WG (Class A), Add	58.74	
For 10" WG (Class A), Add	84.43	
For Work In Restricted Working Space, Add	55.07	
23 31 13 13-0280 LF 30" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.74	113.93
For 3" WG (Class B), Add	28.48	
For 4" Or 6" WG (Class A), Add	60.76	
For 10" WG (Class A), Add	87.35	
For Work In Restricted Working Space, Add	56.97	
23 31 13 13-0281 22 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0282 LF 4" x 4", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	28.21	15.19
For 3" WG (Class B), Add	3.80	
For 4" Or 6" WG (Class A), Add	8.10	
For 10" WG (Class A), Add	11.65	
For Work In Restricted Working Space, Add	7.60	
23 31 13 13-0283 LF 4" x 6", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.27	18.98
For 3" WG (Class B), Add	4.75	
For 4" Or 6" WG (Class A), Add	10.13	
For 10" WG (Class A), Add	14.56	
For Work In Restricted Working Space, Add	9.50	
23 31 13 13-0284 LF 4" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.31	22.78
For 3" WG (Class B), Add	5.70	
For 4" Or 6" WG (Class A), Add	12.15	
For 10" WG (Class A), Add	17.47	
For Work In Restricted Working Space, Add	11.39	
23 31 13 13-0285 LF 4" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.37	26.59
For 3" WG (Class B), Add	6.65	
For 4" Or 6" WG (Class A), Add	14.18	
For 10" WG (Class A), Add	20.38	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0286 LF 4" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	56.42	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0287 LF 4" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.48	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0288	LF 4" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
			For 3" WG (Class B), Add	9.50	
			For 4" Or 6" WG (Class A), Add	20.26	
			For 10" WG (Class A), Add	29.12	
			For Work In Restricted Working Space, Add	18.99	
23 31	13	13-0289	LF 6" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.31	22.78
			For 3" WG (Class B), Add	5.70	
			For 4" Or 6" WG (Class A), Add	12.15	
			For 10" WG (Class A), Add	17.47	
			For Work In Restricted Working Space, Add	11.39	
23 31	13	13-0290	LF 6" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.37	26.59
			For 3" WG (Class B), Add	6.65	
			For 4" Or 6" WG (Class A), Add	14.18	
			For 10" WG (Class A), Add	20.38	
			For Work In Restricted Working Space, Add	13.29	
23 31	13	13-0291	LF 6" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	56.42	30.39
			For 3" WG (Class B), Add	7.59	
			For 4" Or 6" WG (Class A), Add	16.20	
			For 10" WG (Class A), Add	23.29	
			For Work In Restricted Working Space, Add	15.19	
23 31	13	13-0292	LF 6" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.48	34.18
			For 3" WG (Class B), Add	8.55	
			For 4" Or 6" WG (Class A), Add	18.23	
			For 10" WG (Class A), Add	26.21	
			For Work In Restricted Working Space, Add	17.09	
23 31	13	13-0293	LF 6" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
			For 3" WG (Class B), Add	9.50	
			For 4" Or 6" WG (Class A), Add	20.26	
			For 10" WG (Class A), Add	29.12	
			For Work In Restricted Working Space, Add	18.99	
23 31	13	13-0294	LF 6" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.59	41.78
			For 3" WG (Class B), Add	10.44	
			For 4" Or 6" WG (Class A), Add	22.28	
			For 10" WG (Class A), Add	32.03	
			For Work In Restricted Working Space, Add	20.89	
23 31	13	13-0295	LF 8" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	56.42	30.39
			For 3" WG (Class B), Add	7.59	
			For 4" Or 6" WG (Class A), Add	16.20	
			For 10" WG (Class A), Add	23.29	
			For Work In Restricted Working Space, Add	15.19	
23 31	13	13-0296	LF 8" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.48	34.18
			For 3" WG (Class B), Add	8.55	
			For 4" Or 6" WG (Class A), Add	18.23	
			For 10" WG (Class A), Add	26.21	
			For Work In Restricted Working Space, Add	17.09	
23 31	13	13-0297	LF 8" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
			For 3" WG (Class B), Add	9.50	
			For 4" Or 6" WG (Class A), Add	20.26	
			For 10" WG (Class A), Add	29.12	
			For Work In Restricted Working Space, Add	18.99	
23 31	13	13-0298	LF 8" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.59	41.78
			For 3" WG (Class B), Add	10.44	
			For 4" Or 6" WG (Class A), Add	22.28	
			For 10" WG (Class A), Add	32.03	
			For Work In Restricted Working Space, Add	20.89	
23 31	13	13-0299	LF 8" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	84.64	45.57
			For 3" WG (Class B), Add	11.39	
			For 4" Or 6" WG (Class A), Add	24.31	
			For 10" WG (Class A), Add	34.94	
			For Work In Restricted Working Space, Add	22.79	
23 31	13	13-0300	LF 8" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.69	49.37
			For 3" WG (Class B), Add	12.34	
			For 4" Or 6" WG (Class A), Add	26.33	
			For 10" WG (Class A), Add	37.85	
			For Work In Restricted Working Space, Add	24.68	
23 31	13	13-0301	LF 8" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
			For 3" WG (Class B), Add	13.29	
			For 4" Or 6" WG (Class A), Add	28.36	
			For 10" WG (Class A), Add	40.76	
			For Work In Restricted Working Space, Add	26.58	
23 31	13	13-0302	LF 8" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
			For 3" WG (Class B), Add	14.24	
			For 4" Or 6" WG (Class A), Add	30.38	
			For 10" WG (Class A), Add	43.67	
			For Work In Restricted Working Space, Add	28.48	
23 31	13	13-0303	LF 8" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
			For 3" WG (Class B), Add	15.19	
			For 4" Or 6" WG (Class A), Add	32.41	
			For 10" WG (Class A), Add	46.58	
			For Work In Restricted Working Space, Add	30.38	
23 31	13	13-0304	LF 10" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
			For 3" WG (Class B), Add	9.50	
			For 4" Or 6" WG (Class A), Add	20.26	
			For 10" WG (Class A), Add	29.12	
			For Work In Restricted Working Space, Add	18.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0305 LF 10" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.59	41.78
<i>For 3" WG (Class B), Add</i>	10.44	
<i>For 4" Or 6" WG (Class A), Add</i>	22.28	
<i>For 10" WG (Class A), Add</i>	32.03	
<i>For Work In Restricted Working Space, Add</i>	20.89	
23 31 13 13-0306 LF 10" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	84.64	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0307 LF 10" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.69	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0308 LF 10" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0309 LF 10" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0310 LF 10" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0311 LF 10" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0312 LF 10" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0313 LF 10" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0314 LF 10" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0315 LF 10" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0316 LF 12" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	84.64	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0317 LF 12" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.69	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0318 LF 12" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0319 LF 12" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0320 LF 12" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0321 LF 12" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0322	LF	12" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
			<i>For 3" WG (Class B), Add</i>	17.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
			<i>For 10" WG (Class A), Add</i>	52.41	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13	13-0323	LF	12" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
			<i>For 3" WG (Class B), Add</i>	18.04	
			<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
			<i>For 10" WG (Class A), Add</i>	55.32	
			<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13	13-0324	LF	12" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
			<i>For 3" WG (Class B), Add</i>	18.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
			<i>For 10" WG (Class A), Add</i>	58.23	
			<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13	13-0325	LF	12" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
			<i>For 3" WG (Class B), Add</i>	19.94	
			<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
			<i>For 10" WG (Class A), Add</i>	61.14	
			<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13	13-0326	LF	12" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
			<i>For 3" WG (Class B), Add</i>	20.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
			<i>For 10" WG (Class A), Add</i>	64.05	
			<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13	13-0327	LF	12" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
			<i>For 3" WG (Class B), Add</i>	21.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
			<i>For 10" WG (Class A), Add</i>	66.96	
			<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13	13-0328	LF	12" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
			<i>For 3" WG (Class B), Add</i>	22.79	
			<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
			<i>For 10" WG (Class A), Add</i>	69.88	
			<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13	13-0329	LF	14" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
			<i>For 3" WG (Class B), Add</i>	13.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
			<i>For 10" WG (Class A), Add</i>	40.76	
			<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13	13-0330	LF	14" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
			<i>For 3" WG (Class B), Add</i>	14.24	
			<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
			<i>For 10" WG (Class A), Add</i>	43.67	
			<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13	13-0331	LF	14" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
			<i>For 3" WG (Class B), Add</i>	15.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
			<i>For 10" WG (Class A), Add</i>	46.58	
			<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13	13-0332	LF	14" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
			<i>For 3" WG (Class B), Add</i>	16.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
			<i>For 10" WG (Class A), Add</i>	49.50	
			<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13	13-0333	LF	14" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
			<i>For 3" WG (Class B), Add</i>	17.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
			<i>For 10" WG (Class A), Add</i>	52.41	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13	13-0334	LF	14" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
			<i>For 3" WG (Class B), Add</i>	18.04	
			<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
			<i>For 10" WG (Class A), Add</i>	55.32	
			<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13	13-0335	LF	14" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
			<i>For 3" WG (Class B), Add</i>	18.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
			<i>For 10" WG (Class A), Add</i>	58.23	
			<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13	13-0336	LF	14" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
			<i>For 3" WG (Class B), Add</i>	19.94	
			<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
			<i>For 10" WG (Class A), Add</i>	61.14	
			<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13	13-0337	LF	14" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
			<i>For 3" WG (Class B), Add</i>	20.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
			<i>For 10" WG (Class A), Add</i>	64.05	
			<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13	13-0338	LF	14" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
			<i>For 3" WG (Class B), Add</i>	21.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
			<i>For 10" WG (Class A), Add</i>	66.96	
			<i>For Work In Restricted Working Space, Add</i>	43.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0339 LF 14" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0340 LF 14" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0341 LF 16" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0342 LF 16" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0343 LF 16" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0344 LF 16" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0345 LF 16" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0346 LF 16" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0347 LF 16" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0348 LF 16" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0349 LF 16" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0350 LF 16" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0351 LF 16" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
<i>For 3" WG (Class B), Add</i>	24.69	
<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
<i>For 10" WG (Class A), Add</i>	75.70	
<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0352 LF 16" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
<i>For 3" WG (Class B), Add</i>	25.64	
<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
<i>For 10" WG (Class A), Add</i>	78.61	
<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0353 LF 16" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
<i>For 3" WG (Class B), Add</i>	26.58	
<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
<i>For 10" WG (Class A), Add</i>	81.52	
<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0354 LF 16" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0355 LF 16" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0356	LF 18" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	126.96 17.09 36.46 52.41 34.18	68.35
23 31	13	13-0357	LF 18" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	134.01 18.04 38.48 55.32 36.08	72.16
23 31	13	13-0358	LF 18" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	141.05 18.99 40.51 58.23 37.97	75.96
23 31	13	13-0359	LF 18" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	148.11 19.94 42.53 61.14 39.87	79.76
23 31	13	13-0360	LF 18" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	155.16 20.89 44.56 64.05 41.77	83.54
23 31	13	13-0361	LF 18" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	162.21 21.84 46.58 66.96 43.67	87.34
23 31	13	13-0362	LF 18" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	169.28 22.79 48.61 69.88 45.57	91.15
23 31	13	13-0363	LF 18" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	176.33 23.74 50.64 72.79 47.47	94.94
23 31	13	13-0364	LF 18" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	183.38 24.69 52.66 75.70 49.37	98.74
23 31	13	13-0365	LF 18" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	190.44 25.64 54.69 78.61 51.27	102.54
23 31	13	13-0366	LF 18" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	197.48 26.58 56.71 81.52 53.17	106.33
23 31	13	13-0367	LF 18" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	204.54 27.53 58.74 84.43 55.07	110.13
23 31	13	13-0368	LF 18" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	211.60 28.48 60.76 87.35 56.97	113.93
23 31	13	13-0369	LF 18" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	218.64 29.43 62.79 90.26 58.86	117.72
23 31	13	13-0370	LF 18" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	225.70 30.38 64.81 93.17 60.76	121.53
23 31	13	13-0371	LF 20" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	141.05 18.99 40.51 58.23 37.97	75.96
23 31	13	13-0372	LF 20" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	148.11 19.94 42.53 61.14 39.87	79.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0373 LF 20" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0374 LF 20" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0375 LF 20" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0376 LF 20" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0377 LF 20" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
<i>For 3" WG (Class B), Add</i>	24.69	
<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
<i>For 10" WG (Class A), Add</i>	75.70	
<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0378 LF 20" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
<i>For 3" WG (Class B), Add</i>	25.64	
<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
<i>For 10" WG (Class A), Add</i>	78.61	
<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0379 LF 20" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
<i>For 3" WG (Class B), Add</i>	26.58	
<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
<i>For 10" WG (Class A), Add</i>	81.52	
<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0380 LF 20" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0381 LF 20" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0382 LF 20" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0383 LF 20" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0384 LF 20" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0385 LF 20" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0386 LF 22" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0387 LF 22" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0388 LF 22" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0389 LF 22" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0390	LF	22" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
			<i>For 3" WG (Class B), Add</i>	24.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
			<i>For 10" WG (Class A), Add</i>	75.70	
			<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13	13-0391	LF	22" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
			<i>For 3" WG (Class B), Add</i>	25.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
			<i>For 10" WG (Class A), Add</i>	78.61	
			<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13	13-0392	LF	22" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
			<i>For 3" WG (Class B), Add</i>	26.58	
			<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
			<i>For 10" WG (Class A), Add</i>	81.52	
			<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13	13-0393	LF	22" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
			<i>For 3" WG (Class B), Add</i>	27.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
			<i>For 10" WG (Class A), Add</i>	84.43	
			<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13	13-0394	LF	22" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
			<i>For 3" WG (Class B), Add</i>	28.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
			<i>For 10" WG (Class A), Add</i>	87.35	
			<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13	13-0395	LF	22" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
			<i>For 3" WG (Class B), Add</i>	29.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
			<i>For 10" WG (Class A), Add</i>	90.26	
			<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13	13-0396	LF	22" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
			<i>For 3" WG (Class B), Add</i>	30.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
			<i>For 10" WG (Class A), Add</i>	93.17	
			<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13	13-0397	LF	22" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
			<i>For 3" WG (Class B), Add</i>	31.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
			<i>For 10" WG (Class A), Add</i>	96.08	
			<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13	13-0398	LF	22" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
			<i>For 3" WG (Class B), Add</i>	32.28	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
			<i>For 10" WG (Class A), Add</i>	98.99	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13	13-0399	LF	22" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
			<i>For 3" WG (Class B), Add</i>	33.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
			<i>For 10" WG (Class A), Add</i>	101.90	
			<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13	13-0400	LF	24" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
			<i>For 3" WG (Class B), Add</i>	22.79	
			<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
			<i>For 10" WG (Class A), Add</i>	69.88	
			<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13	13-0401	LF	24" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
			<i>For 3" WG (Class B), Add</i>	23.74	
			<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
			<i>For 10" WG (Class A), Add</i>	72.79	
			<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13	13-0402	LF	24" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
			<i>For 3" WG (Class B), Add</i>	24.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
			<i>For 10" WG (Class A), Add</i>	75.70	
			<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13	13-0403	LF	24" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
			<i>For 3" WG (Class B), Add</i>	25.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
			<i>For 10" WG (Class A), Add</i>	78.61	
			<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13	13-0404	LF	24" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
			<i>For 3" WG (Class B), Add</i>	26.58	
			<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
			<i>For 10" WG (Class A), Add</i>	81.52	
			<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13	13-0405	LF	24" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
			<i>For 3" WG (Class B), Add</i>	27.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
			<i>For 10" WG (Class A), Add</i>	84.43	
			<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13	13-0406	LF	24" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
			<i>For 3" WG (Class B), Add</i>	28.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
			<i>For 10" WG (Class A), Add</i>	87.35	
			<i>For Work In Restricted Working Space, Add</i>	56.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0407 LF 24" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0408 LF 24" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0409 LF 24" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0410 LF 24" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0411 LF 24" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
<i>For 3" WG (Class B), Add</i>	33.23	
<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
<i>For 10" WG (Class A), Add</i>	101.90	
<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13 13-0412 LF 24" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
<i>For 3" WG (Class B), Add</i>	34.18	
<i>For 4" Or 6" WG (Class A), Add</i>	72.91	
<i>For 10" WG (Class A), Add</i>	104.81	
<i>For Work In Restricted Working Space, Add</i>	68.36	
23 31 13 13-0413 LF 26" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
<i>For 3" WG (Class B), Add</i>	24.69	
<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
<i>For 10" WG (Class A), Add</i>	75.70	
<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0414 LF 26" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
<i>For 3" WG (Class B), Add</i>	25.64	
<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
<i>For 10" WG (Class A), Add</i>	78.61	
<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0415 LF 26" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
<i>For 3" WG (Class B), Add</i>	26.58	
<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
<i>For 10" WG (Class A), Add</i>	81.52	
<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0416 LF 26" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0417 LF 26" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0418 LF 26" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0419 LF 26" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0420 LF 26" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0421 LF 26" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0422 LF 26" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
<i>For 3" WG (Class B), Add</i>	33.23	
<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
<i>For 10" WG (Class A), Add</i>	101.90	
<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13 13-0423 LF 26" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
<i>For 3" WG (Class B), Add</i>	34.18	
<i>For 4" Or 6" WG (Class A), Add</i>	72.91	
<i>For 10" WG (Class A), Add</i>	104.81	
<i>For Work In Restricted Working Space, Add</i>	68.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0424	LF	26" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
			<i>For 3" WG (Class B), Add</i>	35.13	
			<i>For 4" Or 6" WG (Class A), Add</i>	74.94	
			<i>For 10" WG (Class A), Add</i>	107.73	
			<i>For Work In Restricted Working Space, Add</i>	70.26	
23 31 13	13-0425	LF	28" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
			<i>For 3" WG (Class B), Add</i>	26.58	
			<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
			<i>For 10" WG (Class A), Add</i>	81.52	
			<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13	13-0426	LF	28" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
			<i>For 3" WG (Class B), Add</i>	27.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
			<i>For 10" WG (Class A), Add</i>	84.43	
			<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13	13-0427	LF	28" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
			<i>For 3" WG (Class B), Add</i>	28.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
			<i>For 10" WG (Class A), Add</i>	87.35	
			<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13	13-0428	LF	28" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
			<i>For 3" WG (Class B), Add</i>	29.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
			<i>For 10" WG (Class A), Add</i>	90.26	
			<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13	13-0429	LF	28" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
			<i>For 3" WG (Class B), Add</i>	30.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
			<i>For 10" WG (Class A), Add</i>	93.17	
			<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13	13-0430	LF	28" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
			<i>For 3" WG (Class B), Add</i>	31.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
			<i>For 10" WG (Class A), Add</i>	96.08	
			<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13	13-0431	LF	28" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
			<i>For 3" WG (Class B), Add</i>	32.28	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
			<i>For 10" WG (Class A), Add</i>	98.99	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13	13-0432	LF	28" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
			<i>For 3" WG (Class B), Add</i>	33.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
			<i>For 10" WG (Class A), Add</i>	101.90	
			<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13	13-0433	LF	28" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
			<i>For 3" WG (Class B), Add</i>	34.18	
			<i>For 4" Or 6" WG (Class A), Add</i>	72.91	
			<i>For 10" WG (Class A), Add</i>	104.81	
			<i>For Work In Restricted Working Space, Add</i>	68.36	
23 31 13	13-0434	LF	28" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
			<i>For 3" WG (Class B), Add</i>	35.13	
			<i>For 4" Or 6" WG (Class A), Add</i>	74.94	
			<i>For 10" WG (Class A), Add</i>	107.73	
			<i>For Work In Restricted Working Space, Add</i>	70.26	
23 31 13	13-0435	LF	28" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
			<i>For 3" WG (Class B), Add</i>	36.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	76.97	
			<i>For 10" WG (Class A), Add</i>	110.64	
			<i>For Work In Restricted Working Space, Add</i>	72.16	
23 31 13	13-0436	LF	30" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
			<i>For 3" WG (Class B), Add</i>	28.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
			<i>For 10" WG (Class A), Add</i>	87.35	
			<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13	13-0437	LF	30" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
			<i>For 3" WG (Class B), Add</i>	29.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
			<i>For 10" WG (Class A), Add</i>	90.26	
			<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13	13-0438	LF	30" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
			<i>For 3" WG (Class B), Add</i>	30.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
			<i>For 10" WG (Class A), Add</i>	93.17	
			<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13	13-0439	LF	30" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
			<i>For 3" WG (Class B), Add</i>	31.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
			<i>For 10" WG (Class A), Add</i>	96.08	
			<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13	13-0440	LF	30" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
			<i>For 3" WG (Class B), Add</i>	32.28	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
			<i>For 10" WG (Class A), Add</i>	98.99	
			<i>For Work In Restricted Working Space, Add</i>	64.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0441 LF 30" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
For 3" WG (Class B), Add	33.23	
For 4" Or 6" WG (Class A), Add	70.89	
For 10" WG (Class A), Add	101.90	
For Work In Restricted Working Space, Add	66.46	
23 31 13 13-0442 LF 30" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
For 3" WG (Class B), Add	34.18	
For 4" Or 6" WG (Class A), Add	72.91	
For 10" WG (Class A), Add	104.81	
For Work In Restricted Working Space, Add	68.36	
23 31 13 13-0443 LF 30" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
For 3" WG (Class B), Add	35.13	
For 4" Or 6" WG (Class A), Add	74.94	
For 10" WG (Class A), Add	107.73	
For Work In Restricted Working Space, Add	70.26	
23 31 13 13-0444 LF 30" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0445 LF 30" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0446 LF 32" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
For 3" WG (Class B), Add	30.38	
For 4" Or 6" WG (Class A), Add	64.81	
For 10" WG (Class A), Add	93.17	
For Work In Restricted Working Space, Add	60.76	
23 31 13 13-0447 LF 32" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
For 3" WG (Class B), Add	31.33	
For 4" Or 6" WG (Class A), Add	66.84	
For 10" WG (Class A), Add	96.08	
For Work In Restricted Working Space, Add	62.66	
23 31 13 13-0448 LF 32" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
For 3" WG (Class B), Add	32.28	
For 4" Or 6" WG (Class A), Add	68.86	
For 10" WG (Class A), Add	98.99	
For Work In Restricted Working Space, Add	64.56	
23 31 13 13-0449 LF 32" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
For 3" WG (Class B), Add	33.23	
For 4" Or 6" WG (Class A), Add	70.89	
For 10" WG (Class A), Add	101.90	
For Work In Restricted Working Space, Add	66.46	
23 31 13 13-0450 LF 32" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
For 3" WG (Class B), Add	34.18	
For 4" Or 6" WG (Class A), Add	72.91	
For 10" WG (Class A), Add	104.81	
For Work In Restricted Working Space, Add	68.36	
23 31 13 13-0451 LF 32" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
For 3" WG (Class B), Add	35.13	
For 4" Or 6" WG (Class A), Add	74.94	
For 10" WG (Class A), Add	107.73	
For Work In Restricted Working Space, Add	70.26	
23 31 13 13-0452 LF 32" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0453 LF 32" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0454 LF 32" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0455 LF 34" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
For 3" WG (Class B), Add	32.28	
For 4" Or 6" WG (Class A), Add	68.86	
For 10" WG (Class A), Add	98.99	
For Work In Restricted Working Space, Add	64.56	
23 31 13 13-0456 LF 34" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
For 3" WG (Class B), Add	33.23	
For 4" Or 6" WG (Class A), Add	70.89	
For 10" WG (Class A), Add	101.90	
For Work In Restricted Working Space, Add	66.46	
23 31 13 13-0457 LF 34" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
For 3" WG (Class B), Add	34.18	
For 4" Or 6" WG (Class A), Add	72.91	
For 10" WG (Class A), Add	104.81	
For Work In Restricted Working Space, Add	68.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0458 LF 34" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
For 3" WG (Class B), Add	35.13	
For 4" Or 6" WG (Class A), Add	74.94	
For 10" WG (Class A), Add	107.73	
For Work In Restricted Working Space, Add	70.26	
23 31 13 13-0459 LF 34" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0460 LF 34" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0461 LF 34" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0462 LF 34" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
For 3" WG (Class B), Add	38.93	
For 4" Or 6" WG (Class A), Add	83.04	
For 10" WG (Class A), Add	119.37	
For Work In Restricted Working Space, Add	77.85	
23 31 13 13-0463 LF 36" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
For 3" WG (Class B), Add	34.18	
For 4" Or 6" WG (Class A), Add	72.91	
For 10" WG (Class A), Add	104.81	
For Work In Restricted Working Space, Add	68.36	
23 31 13 13-0464 LF 36" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
For 3" WG (Class B), Add	35.13	
For 4" Or 6" WG (Class A), Add	74.94	
For 10" WG (Class A), Add	107.73	
For Work In Restricted Working Space, Add	70.26	
23 31 13 13-0465 LF 36" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0466 LF 36" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0467 LF 36" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0468 LF 36" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
For 3" WG (Class B), Add	38.93	
For 4" Or 6" WG (Class A), Add	83.04	
For 10" WG (Class A), Add	119.37	
For Work In Restricted Working Space, Add	77.85	
23 31 13 13-0469 LF 36" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
For 3" WG (Class B), Add	39.87	
For 4" Or 6" WG (Class A), Add	85.07	
For 10" WG (Class A), Add	122.28	
For Work In Restricted Working Space, Add	79.75	
23 31 13 13-0470 LF 38" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0471 LF 38" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0472 LF 38" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0473 LF 38" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
For 3" WG (Class B), Add	38.93	
For 4" Or 6" WG (Class A), Add	83.04	
For 10" WG (Class A), Add	119.37	
For Work In Restricted Working Space, Add	77.85	
23 31 13 13-0474 LF 38" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
For 3" WG (Class B), Add	39.87	
For 4" Or 6" WG (Class A), Add	85.07	
For 10" WG (Class A), Add	122.28	
For Work In Restricted Working Space, Add	79.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0475 LF 38" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	303.29	163.30
<i>For 3" WG (Class B), Add</i>	40.83	
<i>For 4" Or 6" WG (Class A), Add</i>	87.09	
<i>For 10" WG (Class A), Add</i>	125.20	
<i>For Work In Restricted Working Space, Add</i>	81.65	
23 31 13 13-0476 LF 38" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
<i>For 3" WG (Class B), Add</i>	41.78	
<i>For 4" Or 6" WG (Class A), Add</i>	89.12	
<i>For 10" WG (Class A), Add</i>	128.11	
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 31 13 13-0477 LF 40" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
<i>For 3" WG (Class B), Add</i>	37.98	
<i>For 4" Or 6" WG (Class A), Add</i>	81.02	
<i>For 10" WG (Class A), Add</i>	116.46	
<i>For Work In Restricted Working Space, Add</i>	75.95	
23 31 13 13-0478 LF 40" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
<i>For 3" WG (Class B), Add</i>	38.93	
<i>For 4" Or 6" WG (Class A), Add</i>	83.04	
<i>For 10" WG (Class A), Add</i>	119.37	
<i>For Work In Restricted Working Space, Add</i>	77.85	
23 31 13 13-0479 LF 40" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
<i>For 3" WG (Class B), Add</i>	39.87	
<i>For 4" Or 6" WG (Class A), Add</i>	85.07	
<i>For 10" WG (Class A), Add</i>	122.28	
<i>For Work In Restricted Working Space, Add</i>	79.75	
23 31 13 13-0480 LF 40" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	303.29	163.30
<i>For 3" WG (Class B), Add</i>	40.83	
<i>For 4" Or 6" WG (Class A), Add</i>	87.09	
<i>For 10" WG (Class A), Add</i>	125.20	
<i>For Work In Restricted Working Space, Add</i>	81.65	
23 31 13 13-0481 LF 40" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
<i>For 3" WG (Class B), Add</i>	41.78	
<i>For 4" Or 6" WG (Class A), Add</i>	89.12	
<i>For 10" WG (Class A), Add</i>	128.11	
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 31 13 13-0482 LF 40" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	317.39	170.90
<i>For 3" WG (Class B), Add</i>	42.72	
<i>For 4" Or 6" WG (Class A), Add</i>	91.15	
<i>For 10" WG (Class A), Add</i>	131.02	
<i>For Work In Restricted Working Space, Add</i>	85.45	
23 31 13 13-0483 LF 40" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
<i>For 3" WG (Class B), Add</i>	43.67	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.93	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0484 LF 40" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
<i>For 3" WG (Class B), Add</i>	44.62	
<i>For 4" Or 6" WG (Class A), Add</i>	95.19	
<i>For 10" WG (Class A), Add</i>	136.84	
<i>For Work In Restricted Working Space, Add</i>	89.24	
23 31 13 13-0485 LF 42" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
<i>For 3" WG (Class B), Add</i>	39.87	
<i>For 4" Or 6" WG (Class A), Add</i>	85.07	
<i>For 10" WG (Class A), Add</i>	122.28	
<i>For Work In Restricted Working Space, Add</i>	79.75	
23 31 13 13-0486 LF 42" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	303.29	163.30
<i>For 3" WG (Class B), Add</i>	40.83	
<i>For 4" Or 6" WG (Class A), Add</i>	87.09	
<i>For 10" WG (Class A), Add</i>	125.20	
<i>For Work In Restricted Working Space, Add</i>	81.65	
23 31 13 13-0487 LF 42" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
<i>For 3" WG (Class B), Add</i>	41.78	
<i>For 4" Or 6" WG (Class A), Add</i>	89.12	
<i>For 10" WG (Class A), Add</i>	128.11	
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 31 13 13-0488 LF 42" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	317.39	170.90
<i>For 3" WG (Class B), Add</i>	42.72	
<i>For 4" Or 6" WG (Class A), Add</i>	91.15	
<i>For 10" WG (Class A), Add</i>	131.02	
<i>For Work In Restricted Working Space, Add</i>	85.45	
23 31 13 13-0489 LF 42" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
<i>For 3" WG (Class B), Add</i>	43.67	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.93	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0490 LF 42" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
<i>For 3" WG (Class B), Add</i>	44.62	
<i>For 4" Or 6" WG (Class A), Add</i>	95.19	
<i>For 10" WG (Class A), Add</i>	136.84	
<i>For Work In Restricted Working Space, Add</i>	89.24	
23 31 13 13-0491 LF 42" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
<i>For 3" WG (Class B), Add</i>	45.57	
<i>For 4" Or 6" WG (Class A), Add</i>	97.22	
<i>For 10" WG (Class A), Add</i>	139.75	
<i>For Work In Restricted Working Space, Add</i>	91.14	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0492 LF 44" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
For 3" WG (Class B), Add	41.78	
For 4" Or 6" WG (Class A), Add	89.12	
For 10" WG (Class A), Add	128.11	
For Work In Restricted Working Space, Add	83.55	
23 31 13 13-0493 LF 44" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	317.39	170.90
For 3" WG (Class B), Add	42.72	
For 4" Or 6" WG (Class A), Add	91.15	
For 10" WG (Class A), Add	131.02	
For Work In Restricted Working Space, Add	85.45	
23 31 13 13-0494 LF 44" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
For 3" WG (Class B), Add	43.67	
For 4" Or 6" WG (Class A), Add	93.17	
For 10" WG (Class A), Add	133.93	
For Work In Restricted Working Space, Add	87.35	
23 31 13 13-0495 LF 44" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
For 3" WG (Class B), Add	44.62	
For 4" Or 6" WG (Class A), Add	95.19	
For 10" WG (Class A), Add	136.84	
For Work In Restricted Working Space, Add	89.24	
23 31 13 13-0496 LF 44" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
For 3" WG (Class B), Add	45.57	
For 4" Or 6" WG (Class A), Add	97.22	
For 10" WG (Class A), Add	139.75	
For Work In Restricted Working Space, Add	91.14	
23 31 13 13-0497 LF 44" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	345.59	186.09
For 3" WG (Class B), Add	46.52	
For 4" Or 6" WG (Class A), Add	99.24	
For 10" WG (Class A), Add	142.66	
For Work In Restricted Working Space, Add	93.04	
23 31 13 13-0498 LF 46" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
For 3" WG (Class B), Add	43.67	
For 4" Or 6" WG (Class A), Add	93.17	
For 10" WG (Class A), Add	133.93	
For Work In Restricted Working Space, Add	87.35	
23 31 13 13-0499 LF 46" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
For 3" WG (Class B), Add	44.62	
For 4" Or 6" WG (Class A), Add	95.19	
For 10" WG (Class A), Add	136.84	
For Work In Restricted Working Space, Add	89.24	
23 31 13 13-0500 LF 46" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
For 3" WG (Class B), Add	45.57	
For 4" Or 6" WG (Class A), Add	97.22	
For 10" WG (Class A), Add	139.75	
For Work In Restricted Working Space, Add	91.14	
23 31 13 13-0501 LF 46" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	345.59	186.09
For 3" WG (Class B), Add	46.52	
For 4" Or 6" WG (Class A), Add	99.24	
For 10" WG (Class A), Add	142.66	
For Work In Restricted Working Space, Add	93.04	
23 31 13 13-0502 LF 46" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	352.65	189.89
For 3" WG (Class B), Add	47.47	
For 4" Or 6" WG (Class A), Add	101.27	
For 10" WG (Class A), Add	145.58	
For Work In Restricted Working Space, Add	94.94	
23 31 13 13-0503 LF 48" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
For 3" WG (Class B), Add	45.57	
For 4" Or 6" WG (Class A), Add	97.22	
For 10" WG (Class A), Add	139.75	
For Work In Restricted Working Space, Add	91.14	
23 31 13 13-0504 LF 48" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	345.59	186.09
For 3" WG (Class B), Add	46.52	
For 4" Or 6" WG (Class A), Add	99.24	
For 10" WG (Class A), Add	142.66	
For Work In Restricted Working Space, Add	93.04	
23 31 13 13-0505 LF 48" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	352.65	189.89
For 3" WG (Class B), Add	47.47	
For 4" Or 6" WG (Class A), Add	101.27	
For 10" WG (Class A), Add	145.58	
For Work In Restricted Working Space, Add	94.94	
23 31 13 13-0506 LF 48" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	359.71	193.68
For 3" WG (Class B), Add	48.42	
For 4" Or 6" WG (Class A), Add	103.30	
For 10" WG (Class A), Add	148.49	
For Work In Restricted Working Space, Add	96.84	
23 31 13 13-0507 LF 50" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	352.65	189.89
For 3" WG (Class B), Add	47.47	
For 4" Or 6" WG (Class A), Add	101.27	
For 10" WG (Class A), Add	145.58	
For Work In Restricted Working Space, Add	94.94	
23 31 13 13-0508 LF 50" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	359.71	193.68
For 3" WG (Class B), Add	48.42	
For 4" Or 6" WG (Class A), Add	103.30	
For 10" WG (Class A), Add	148.49	
For Work In Restricted Working Space, Add	96.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0509 LF 50" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	366.76	197.47
<i>For 3" WG (Class B), Add</i>	49.37	
<i>For 4" Or 6" WG (Class A), Add</i>	105.32	
<i>For 10" WG (Class A), Add</i>	151.40	
<i>For Work In Restricted Working Space, Add</i>	98.74	
23 31 13 13-0510 LF 52" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	366.76	197.47
<i>For 3" WG (Class B), Add</i>	49.37	
<i>For 4" Or 6" WG (Class A), Add</i>	105.32	
<i>For 10" WG (Class A), Add</i>	151.40	
<i>For Work In Restricted Working Space, Add</i>	98.74	
23 31 13 13-0511 LF 54" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.80	201.28
<i>For 3" WG (Class B), Add</i>	50.32	
<i>For 4" Or 6" WG (Class A), Add</i>	107.34	
<i>For 10" WG (Class A), Add</i>	154.31	
<i>For Work In Restricted Working Space, Add</i>	100.64	
23 31 13 13-0512 LF 54" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	380.86	205.07
<i>For 3" WG (Class B), Add</i>	51.27	
<i>For 4" Or 6" WG (Class A), Add</i>	109.37	
<i>For 10" WG (Class A), Add</i>	157.22	
<i>For Work In Restricted Working Space, Add</i>	102.53	
23 31 13 13-0513 20 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0514 LF 4" x 4", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	33.22	17.89
<i>For 3" WG (Class B), Add</i>	4.47	
<i>For 4" Or 6" WG (Class A), Add</i>	9.54	
<i>For 10" WG (Class A), Add</i>	13.72	
<i>For Work In Restricted Working Space, Add</i>	8.95	
23 31 13 13-0515 LF 4" x 6", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	41.54	22.36
<i>For 3" WG (Class B), Add</i>	5.59	
<i>For 4" Or 6" WG (Class A), Add</i>	11.93	
<i>For 10" WG (Class A), Add</i>	17.15	
<i>For Work In Restricted Working Space, Add</i>	11.18	
23 31 13 13-0516 LF 4" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.85	26.84
<i>For 3" WG (Class B), Add</i>	6.71	
<i>For 4" Or 6" WG (Class A), Add</i>	14.31	
<i>For 10" WG (Class A), Add</i>	20.58	
<i>For Work In Restricted Working Space, Add</i>	13.42	
23 31 13 13-0517 LF 4" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.14	31.30
<i>For 3" WG (Class B), Add</i>	7.83	
<i>For 4" Or 6" WG (Class A), Add</i>	16.70	
<i>For 10" WG (Class A), Add</i>	24.00	
<i>For Work In Restricted Working Space, Add</i>	15.65	
23 31 13 13-0518 LF 4" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.46	35.79
<i>For 3" WG (Class B), Add</i>	8.95	
<i>For 4" Or 6" WG (Class A), Add</i>	19.08	
<i>For 10" WG (Class A), Add</i>	27.43	
<i>For Work In Restricted Working Space, Add</i>	17.89	
23 31 13 13-0519 LF 4" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.77	40.25
<i>For 3" WG (Class B), Add</i>	10.06	
<i>For 4" Or 6" WG (Class A), Add</i>	21.47	
<i>For 10" WG (Class A), Add</i>	30.86	
<i>For Work In Restricted Working Space, Add</i>	20.13	
23 31 13 13-0520 LF 4" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
<i>For 3" WG (Class B), Add</i>	11.18	
<i>For 4" Or 6" WG (Class A), Add</i>	23.86	
<i>For 10" WG (Class A), Add</i>	34.30	
<i>For Work In Restricted Working Space, Add</i>	22.37	
23 31 13 13-0521 LF 6" x 6", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.85	26.84
<i>For 3" WG (Class B), Add</i>	6.71	
<i>For 4" Or 6" WG (Class A), Add</i>	14.31	
<i>For 10" WG (Class A), Add</i>	20.58	
<i>For Work In Restricted Working Space, Add</i>	13.42	
23 31 13 13-0522 LF 6" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.14	31.30
<i>For 3" WG (Class B), Add</i>	7.83	
<i>For 4" Or 6" WG (Class A), Add</i>	16.70	
<i>For 10" WG (Class A), Add</i>	24.00	
<i>For Work In Restricted Working Space, Add</i>	15.65	
23 31 13 13-0523 LF 6" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.46	35.79
<i>For 3" WG (Class B), Add</i>	8.95	
<i>For 4" Or 6" WG (Class A), Add</i>	19.08	
<i>For 10" WG (Class A), Add</i>	27.43	
<i>For Work In Restricted Working Space, Add</i>	17.89	
23 31 13 13-0524 LF 6" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.77	40.25
<i>For 3" WG (Class B), Add</i>	10.06	
<i>For 4" Or 6" WG (Class A), Add</i>	21.47	
<i>For 10" WG (Class A), Add</i>	30.86	
<i>For Work In Restricted Working Space, Add</i>	20.13	
23 31 13 13-0525 LF 6" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
<i>For 3" WG (Class B), Add</i>	11.18	
<i>For 4" Or 6" WG (Class A), Add</i>	23.86	
<i>For 10" WG (Class A), Add</i>	34.30	
<i>For Work In Restricted Working Space, Add</i>	22.37	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0526	LF 6" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.38	49.20
			For 3" WG (Class B), Add	12.30	
			For 4" Or 6" WG (Class A), Add	26.24	
			For 10" WG (Class A), Add	37.72	
			For Work In Restricted Working Space, Add	24.60	
23 31	13	13-0527	LF 8" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.46	35.79
			For 3" WG (Class B), Add	8.95	
			For 4" Or 6" WG (Class A), Add	19.08	
			For 10" WG (Class A), Add	27.43	
			For Work In Restricted Working Space, Add	17.89	
23 31	13	13-0528	LF 8" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.77	40.25
			For 3" WG (Class B), Add	10.06	
			For 4" Or 6" WG (Class A), Add	21.47	
			For 10" WG (Class A), Add	30.86	
			For Work In Restricted Working Space, Add	20.13	
23 31	13	13-0529	LF 8" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
			For 3" WG (Class B), Add	11.18	
			For 4" Or 6" WG (Class A), Add	23.86	
			For 10" WG (Class A), Add	34.30	
			For Work In Restricted Working Space, Add	22.37	
23 31	13	13-0530	LF 8" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.38	49.20
			For 3" WG (Class B), Add	12.30	
			For 4" Or 6" WG (Class A), Add	26.24	
			For 10" WG (Class A), Add	37.72	
			For Work In Restricted Working Space, Add	24.60	
23 31	13	13-0531	LF 8" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.68	53.68
			For 3" WG (Class B), Add	13.42	
			For 4" Or 6" WG (Class A), Add	28.63	
			For 10" WG (Class A), Add	41.15	
			For Work In Restricted Working Space, Add	26.84	
23 31	13	13-0532	LF 8" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	107.99	58.14
			For 3" WG (Class B), Add	14.54	
			For 4" Or 6" WG (Class A), Add	31.01	
			For 10" WG (Class A), Add	44.58	
			For Work In Restricted Working Space, Add	29.07	
23 31	13	13-0533	LF 8" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
			For 3" WG (Class B), Add	15.66	
			For 4" Or 6" WG (Class A), Add	33.40	
			For 10" WG (Class A), Add	48.01	
			For Work In Restricted Working Space, Add	31.31	
23 31	13	13-0534	LF 8" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
			For 3" WG (Class B), Add	16.77	
			For 4" Or 6" WG (Class A), Add	35.78	
			For 10" WG (Class A), Add	51.43	
			For Work In Restricted Working Space, Add	33.54	
23 31	13	13-0535	LF 8" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
			For 3" WG (Class B), Add	17.89	
			For 4" Or 6" WG (Class A), Add	38.17	
			For 10" WG (Class A), Add	54.86	
			For Work In Restricted Working Space, Add	35.78	
23 31	13	13-0536	LF 10" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
			For 3" WG (Class B), Add	11.18	
			For 4" Or 6" WG (Class A), Add	23.86	
			For 10" WG (Class A), Add	34.30	
			For Work In Restricted Working Space, Add	22.37	
23 31	13	13-0537	LF 10" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.38	49.20
			For 3" WG (Class B), Add	12.30	
			For 4" Or 6" WG (Class A), Add	26.24	
			For 10" WG (Class A), Add	37.72	
			For Work In Restricted Working Space, Add	24.60	
23 31	13	13-0538	LF 10" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.68	53.68
			For 3" WG (Class B), Add	13.42	
			For 4" Or 6" WG (Class A), Add	28.63	
			For 10" WG (Class A), Add	41.15	
			For Work In Restricted Working Space, Add	26.84	
23 31	13	13-0539	LF 10" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	107.99	58.14
			For 3" WG (Class B), Add	14.54	
			For 4" Or 6" WG (Class A), Add	31.01	
			For 10" WG (Class A), Add	44.58	
			For Work In Restricted Working Space, Add	29.07	
23 31	13	13-0540	LF 10" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
			For 3" WG (Class B), Add	15.66	
			For 4" Or 6" WG (Class A), Add	33.40	
			For 10" WG (Class A), Add	48.01	
			For Work In Restricted Working Space, Add	31.31	
23 31	13	13-0541	LF 10" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
			For 3" WG (Class B), Add	16.77	
			For 4" Or 6" WG (Class A), Add	35.78	
			For 10" WG (Class A), Add	51.43	
			For Work In Restricted Working Space, Add	33.54	
23 31	13	13-0542	LF 10" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
			For 3" WG (Class B), Add	17.89	
			For 4" Or 6" WG (Class A), Add	38.17	
			For 10" WG (Class A), Add	54.86	
			For Work In Restricted Working Space, Add	35.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0543 LF 10" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
<i>For 3" WG (Class B), Add</i>	19.01	
<i>For 4" Or 6" WG (Class A), Add</i>	40.56	
<i>For 10" WG (Class A), Add</i>	58.30	
<i>For Work In Restricted Working Space, Add</i>	38.02	
23 31 13 13-0544 LF 10" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
<i>For 3" WG (Class B), Add</i>	20.13	
<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
<i>For 10" WG (Class A), Add</i>	61.73	
<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31 13 13-0545 LF 10" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
<i>For 3" WG (Class B), Add</i>	21.25	
<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
<i>For 10" WG (Class A), Add</i>	65.16	
<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31 13 13-0546 LF 10" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0547 LF 10" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31 13 13-0548 LF 12" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.68	53.68
<i>For 3" WG (Class B), Add</i>	13.42	
<i>For 4" Or 6" WG (Class A), Add</i>	28.63	
<i>For 10" WG (Class A), Add</i>	41.15	
<i>For Work In Restricted Working Space, Add</i>	26.84	
23 31 13 13-0549 LF 12" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	107.99	58.14
<i>For 3" WG (Class B), Add</i>	14.54	
<i>For 4" Or 6" WG (Class A), Add</i>	31.01	
<i>For 10" WG (Class A), Add</i>	44.58	
<i>For Work In Restricted Working Space, Add</i>	29.07	
23 31 13 13-0550 LF 12" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
<i>For 3" WG (Class B), Add</i>	15.66	
<i>For 4" Or 6" WG (Class A), Add</i>	33.40	
<i>For 10" WG (Class A), Add</i>	48.01	
<i>For Work In Restricted Working Space, Add</i>	31.31	
23 31 13 13-0551 LF 12" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
<i>For 3" WG (Class B), Add</i>	16.77	
<i>For 4" Or 6" WG (Class A), Add</i>	35.78	
<i>For 10" WG (Class A), Add</i>	51.43	
<i>For Work In Restricted Working Space, Add</i>	33.54	
23 31 13 13-0552 LF 12" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
<i>For 3" WG (Class B), Add</i>	17.89	
<i>For 4" Or 6" WG (Class A), Add</i>	38.17	
<i>For 10" WG (Class A), Add</i>	54.86	
<i>For Work In Restricted Working Space, Add</i>	35.78	
23 31 13 13-0553 LF 12" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
<i>For 3" WG (Class B), Add</i>	19.01	
<i>For 4" Or 6" WG (Class A), Add</i>	40.56	
<i>For 10" WG (Class A), Add</i>	58.30	
<i>For Work In Restricted Working Space, Add</i>	38.02	
23 31 13 13-0554 LF 12" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
<i>For 3" WG (Class B), Add</i>	20.13	
<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
<i>For 10" WG (Class A), Add</i>	61.73	
<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31 13 13-0555 LF 12" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
<i>For 3" WG (Class B), Add</i>	21.25	
<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
<i>For 10" WG (Class A), Add</i>	65.16	
<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31 13 13-0556 LF 12" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0557 LF 12" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31 13 13-0558 LF 12" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
<i>For 3" WG (Class B), Add</i>	24.60	
<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
<i>For 10" WG (Class A), Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31 13 13-0559 LF 12" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
<i>For 3" WG (Class B), Add</i>	25.72	
<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
<i>For 10" WG (Class A), Add</i>	78.87	
<i>For Work In Restricted Working Space, Add</i>	51.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0560 LF 12" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
For 3" WG (Class B), Add	26.84	
For 4" Or 6" WG (Class A), Add	57.25	
For 10" WG (Class A), Add	82.30	
For Work In Restricted Working Space, Add	53.68	
23 31 13 13-0561 LF 14" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
For 3" WG (Class B), Add	15.66	
For 4" Or 6" WG (Class A), Add	33.40	
For 10" WG (Class A), Add	48.01	
For Work In Restricted Working Space, Add	31.31	
23 31 13 13-0562 LF 14" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
For 3" WG (Class B), Add	16.77	
For 4" Or 6" WG (Class A), Add	35.78	
For 10" WG (Class A), Add	51.43	
For Work In Restricted Working Space, Add	33.54	
23 31 13 13-0563 LF 14" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
For 3" WG (Class B), Add	17.89	
For 4" Or 6" WG (Class A), Add	38.17	
For 10" WG (Class A), Add	54.86	
For Work In Restricted Working Space, Add	35.78	
23 31 13 13-0564 LF 14" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
For 3" WG (Class B), Add	19.01	
For 4" Or 6" WG (Class A), Add	40.56	
For 10" WG (Class A), Add	58.30	
For Work In Restricted Working Space, Add	38.02	
23 31 13 13-0565 LF 14" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
For 3" WG (Class B), Add	20.13	
For 4" Or 6" WG (Class A), Add	42.94	
For 10" WG (Class A), Add	61.73	
For Work In Restricted Working Space, Add	40.26	
23 31 13 13-0566 LF 14" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
For 3" WG (Class B), Add	21.25	
For 4" Or 6" WG (Class A), Add	45.33	
For 10" WG (Class A), Add	65.16	
For Work In Restricted Working Space, Add	42.50	
23 31 13 13-0567 LF 14" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
For 3" WG (Class B), Add	22.36	
For 4" Or 6" WG (Class A), Add	47.71	
For 10" WG (Class A), Add	68.58	
For Work In Restricted Working Space, Add	44.73	
23 31 13 13-0568 LF 14" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
For 3" WG (Class B), Add	23.48	
For 4" Or 6" WG (Class A), Add	50.10	
For 10" WG (Class A), Add	72.01	
For Work In Restricted Working Space, Add	46.97	
23 31 13 13-0569 LF 14" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
For 3" WG (Class B), Add	24.60	
For 4" Or 6" WG (Class A), Add	52.48	
For 10" WG (Class A), Add	75.44	
For Work In Restricted Working Space, Add	49.20	
23 31 13 13-0570 LF 14" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
For 3" WG (Class B), Add	25.72	
For 4" Or 6" WG (Class A), Add	54.87	
For 10" WG (Class A), Add	78.87	
For Work In Restricted Working Space, Add	51.44	
23 31 13 13-0571 LF 14" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
For 3" WG (Class B), Add	26.84	
For 4" Or 6" WG (Class A), Add	57.25	
For 10" WG (Class A), Add	82.30	
For Work In Restricted Working Space, Add	53.68	
23 31 13 13-0572 LF 14" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
For 3" WG (Class B), Add	27.96	
For 4" Or 6" WG (Class A), Add	59.64	
For 10" WG (Class A), Add	85.73	
For Work In Restricted Working Space, Add	55.91	
23 31 13 13-0573 LF 16" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
For 3" WG (Class B), Add	17.89	
For 4" Or 6" WG (Class A), Add	38.17	
For 10" WG (Class A), Add	54.86	
For Work In Restricted Working Space, Add	35.78	
23 31 13 13-0574 LF 16" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
For 3" WG (Class B), Add	19.01	
For 4" Or 6" WG (Class A), Add	40.56	
For 10" WG (Class A), Add	58.30	
For Work In Restricted Working Space, Add	38.02	
23 31 13 13-0575 LF 16" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
For 3" WG (Class B), Add	20.13	
For 4" Or 6" WG (Class A), Add	42.94	
For 10" WG (Class A), Add	61.73	
For Work In Restricted Working Space, Add	40.26	
23 31 13 13-0576 LF 16" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
For 3" WG (Class B), Add	21.25	
For 4" Or 6" WG (Class A), Add	45.33	
For 10" WG (Class A), Add	65.16	
For Work In Restricted Working Space, Add	42.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0577 LF 16" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0578 LF 16" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31 13 13-0579 LF 16" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
<i>For 3" WG (Class B), Add</i>	24.60	
<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
<i>For 10" WG (Class A), Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31 13 13-0580 LF 16" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
<i>For 3" WG (Class B), Add</i>	25.72	
<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
<i>For 10" WG (Class A), Add</i>	78.87	
<i>For Work In Restricted Working Space, Add</i>	51.44	
23 31 13 13-0581 LF 16" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
<i>For 3" WG (Class B), Add</i>	26.84	
<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
<i>For 10" WG (Class A), Add</i>	82.30	
<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31 13 13-0582 LF 16" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
<i>For 3" WG (Class B), Add</i>	27.96	
<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
<i>For 10" WG (Class A), Add</i>	85.73	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0583 LF 16" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
<i>For 3" WG (Class B), Add</i>	29.07	
<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
<i>For 10" WG (Class A), Add</i>	89.16	
<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13 13-0584 LF 16" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
<i>For 3" WG (Class B), Add</i>	30.19	
<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
<i>For 10" WG (Class A), Add</i>	92.59	
<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13 13-0585 LF 16" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0586 LF 16" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0587 LF 16" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0588 LF 18" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
<i>For 3" WG (Class B), Add</i>	20.13	
<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
<i>For 10" WG (Class A), Add</i>	61.73	
<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31 13 13-0589 LF 18" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
<i>For 3" WG (Class B), Add</i>	21.25	
<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
<i>For 10" WG (Class A), Add</i>	65.16	
<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31 13 13-0590 LF 18" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0591 LF 18" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31 13 13-0592 LF 18" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
<i>For 3" WG (Class B), Add</i>	24.60	
<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
<i>For 10" WG (Class A), Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31 13 13-0593 LF 18" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
<i>For 3" WG (Class B), Add</i>	25.72	
<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
<i>For 10" WG (Class A), Add</i>	78.87	
<i>For Work In Restricted Working Space, Add</i>	51.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0594 LF 18" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
For 3" WG (Class B), Add	26.84	
For 4" Or 6" WG (Class A), Add	57.25	
For 10" WG (Class A), Add	82.30	
For Work In Restricted Working Space, Add	53.68	
23 31 13 13-0595 LF 18" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
For 3" WG (Class B), Add	27.96	
For 4" Or 6" WG (Class A), Add	59.64	
For 10" WG (Class A), Add	85.73	
For Work In Restricted Working Space, Add	55.91	
23 31 13 13-0596 LF 18" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
For 3" WG (Class B), Add	29.07	
For 4" Or 6" WG (Class A), Add	62.03	
For 10" WG (Class A), Add	89.16	
For Work In Restricted Working Space, Add	58.15	
23 31 13 13-0597 LF 18" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
For 3" WG (Class B), Add	30.19	
For 4" Or 6" WG (Class A), Add	64.41	
For 10" WG (Class A), Add	92.59	
For Work In Restricted Working Space, Add	60.38	
23 31 13 13-0598 LF 18" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
For 3" WG (Class B), Add	31.31	
For 4" Or 6" WG (Class A), Add	66.79	
For 10" WG (Class A), Add	96.02	
For Work In Restricted Working Space, Add	62.62	
23 31 13 13-0599 LF 18" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
For 3" WG (Class B), Add	32.43	
For 4" Or 6" WG (Class A), Add	69.18	
For 10" WG (Class A), Add	99.44	
For Work In Restricted Working Space, Add	64.85	
23 31 13 13-0600 LF 18" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
For 3" WG (Class B), Add	33.55	
For 4" Or 6" WG (Class A), Add	71.57	
For 10" WG (Class A), Add	102.88	
For Work In Restricted Working Space, Add	67.10	
23 31 13 13-0601 LF 18" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
For 3" WG (Class B), Add	34.67	
For 4" Or 6" WG (Class A), Add	73.95	
For 10" WG (Class A), Add	106.31	
For Work In Restricted Working Space, Add	69.33	
23 31 13 13-0602 LF 18" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
For 3" WG (Class B), Add	35.78	
For 4" Or 6" WG (Class A), Add	76.34	
For 10" WG (Class A), Add	109.74	
For Work In Restricted Working Space, Add	71.57	
23 31 13 13-0603 LF 20" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
For 3" WG (Class B), Add	22.36	
For 4" Or 6" WG (Class A), Add	47.71	
For 10" WG (Class A), Add	68.58	
For Work In Restricted Working Space, Add	44.73	
23 31 13 13-0604 LF 20" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
For 3" WG (Class B), Add	23.48	
For 4" Or 6" WG (Class A), Add	50.10	
For 10" WG (Class A), Add	72.01	
For Work In Restricted Working Space, Add	46.97	
23 31 13 13-0605 LF 20" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
For 3" WG (Class B), Add	24.60	
For 4" Or 6" WG (Class A), Add	52.48	
For 10" WG (Class A), Add	75.44	
For Work In Restricted Working Space, Add	49.20	
23 31 13 13-0606 LF 20" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
For 3" WG (Class B), Add	25.72	
For 4" Or 6" WG (Class A), Add	54.87	
For 10" WG (Class A), Add	78.87	
For Work In Restricted Working Space, Add	51.44	
23 31 13 13-0607 LF 20" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
For 3" WG (Class B), Add	26.84	
For 4" Or 6" WG (Class A), Add	57.25	
For 10" WG (Class A), Add	82.30	
For Work In Restricted Working Space, Add	53.68	
23 31 13 13-0608 LF 20" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
For 3" WG (Class B), Add	27.96	
For 4" Or 6" WG (Class A), Add	59.64	
For 10" WG (Class A), Add	85.73	
For Work In Restricted Working Space, Add	55.91	
23 31 13 13-0609 LF 20" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
For 3" WG (Class B), Add	29.07	
For 4" Or 6" WG (Class A), Add	62.03	
For 10" WG (Class A), Add	89.16	
For Work In Restricted Working Space, Add	58.15	
23 31 13 13-0610 LF 20" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
For 3" WG (Class B), Add	30.19	
For 4" Or 6" WG (Class A), Add	64.41	
For 10" WG (Class A), Add	92.59	
For Work In Restricted Working Space, Add	60.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0611 LF 20" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0612 LF 20" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0613 LF 20" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0614 LF 20" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0615 LF 20" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13 13-0616 LF 20" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
<i>For 3" WG (Class B), Add</i>	36.90	
<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
<i>For 10" WG (Class A), Add</i>	113.16	
<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13 13-0617 LF 20" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
<i>For 3" WG (Class B), Add</i>	38.02	
<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
<i>For 10" WG (Class A), Add</i>	116.59	
<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13 13-0618 LF 22" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
<i>For 3" WG (Class B), Add</i>	24.60	
<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
<i>For 10" WG (Class A), Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31 13 13-0619 LF 22" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
<i>For 3" WG (Class B), Add</i>	25.72	
<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
<i>For 10" WG (Class A), Add</i>	78.87	
<i>For Work In Restricted Working Space, Add</i>	51.44	
23 31 13 13-0620 LF 22" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
<i>For 3" WG (Class B), Add</i>	26.84	
<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
<i>For 10" WG (Class A), Add</i>	82.30	
<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31 13 13-0621 LF 22" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
<i>For 3" WG (Class B), Add</i>	27.96	
<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
<i>For 10" WG (Class A), Add</i>	85.73	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0622 LF 22" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
<i>For 3" WG (Class B), Add</i>	29.07	
<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
<i>For 10" WG (Class A), Add</i>	89.16	
<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13 13-0623 LF 22" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
<i>For 3" WG (Class B), Add</i>	30.19	
<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
<i>For 10" WG (Class A), Add</i>	92.59	
<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13 13-0624 LF 22" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0625 LF 22" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0626 LF 22" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0627 LF 22" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0628	LF 22" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	265.84 35.78 76.34 109.74 71.57	143.14
23 31	13	13-0629	LF 22" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	274.13 36.90 78.72 113.16 73.80	147.60
23 31	13	13-0630	LF 22" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	282.44 38.02 81.11 116.59 76.04	152.09
23 31	13	13-0631	LF 22" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	290.76 39.14 83.49 120.02 78.28	156.55
23 31	13	13-0632	LF 24" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	199.38 26.84 57.25 82.30 53.68	107.35
23 31	13	13-0633	LF 24" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	207.67 27.96 59.64 85.73 55.91	111.81
23 31	13	13-0634	LF 24" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	215.99 29.07 62.03 89.16 58.15	116.30
23 31	13	13-0635	LF 24" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	224.30 30.19 64.41 92.59 60.38	120.76
23 31	13	13-0636	LF 24" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	232.59 31.31 66.79 96.02 62.62	125.24
23 31	13	13-0637	LF 24" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	240.90 32.43 69.18 99.44 64.85	129.71
23 31	13	13-0638	LF 24" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	249.23 33.55 71.57 102.88 67.10	134.19
23 31	13	13-0639	LF 24" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	257.52 34.67 73.95 106.31 69.33	138.65
23 31	13	13-0640	LF 24" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	265.84 35.78 76.34 109.74 71.57	143.14
23 31	13	13-0641	LF 24" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	274.13 36.90 78.72 113.16 73.80	147.60
23 31	13	13-0642	LF 24" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	282.44 38.02 81.11 116.59 76.04	152.09
23 31	13	13-0643	LF 24" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	290.76 39.14 83.49 120.02 78.28	156.55
23 31	13	13-0644	LF 24" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	299.05 40.26 85.88 123.45 80.51	161.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0645 LF 26" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
<i>For 3" WG (Class B), Add</i>	29.07	
<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
<i>For 10" WG (Class A), Add</i>	89.16	
<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13 13-0646 LF 26" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
<i>For 3" WG (Class B), Add</i>	30.19	
<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
<i>For 10" WG (Class A), Add</i>	92.59	
<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13 13-0647 LF 26" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0648 LF 26" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0649 LF 26" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0650 LF 26" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0651 LF 26" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13 13-0652 LF 26" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
<i>For 3" WG (Class B), Add</i>	36.90	
<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
<i>For 10" WG (Class A), Add</i>	113.16	
<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13 13-0653 LF 26" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
<i>For 3" WG (Class B), Add</i>	38.02	
<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
<i>For 10" WG (Class A), Add</i>	116.59	
<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13 13-0654 LF 26" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0655 LF 26" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0656 LF 26" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0657 LF 28" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0658 LF 28" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0659 LF 28" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0660 LF 28" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0661 LF 28" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0662	LF	28" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
			<i>For 3" WG (Class B), Add</i>	36.90	
			<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
			<i>For 10" WG (Class A), Add</i>	113.16	
			<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13	13-0663	LF	28" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
			<i>For 3" WG (Class B), Add</i>	38.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
			<i>For 10" WG (Class A), Add</i>	116.59	
			<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13	13-0664	LF	28" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
			<i>For 3" WG (Class B), Add</i>	39.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
			<i>For 10" WG (Class A), Add</i>	120.02	
			<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13	13-0665	LF	28" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
			<i>For 3" WG (Class B), Add</i>	40.26	
			<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
			<i>For 10" WG (Class A), Add</i>	123.45	
			<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13	13-0666	LF	28" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
			<i>For 3" WG (Class B), Add</i>	41.37	
			<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
			<i>For 10" WG (Class A), Add</i>	126.88	
			<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13	13-0667	LF	28" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
			<i>For 3" WG (Class B), Add</i>	42.49	
			<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
			<i>For 10" WG (Class A), Add</i>	130.31	
			<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13	13-0668	LF	30" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
			<i>For 3" WG (Class B), Add</i>	33.55	
			<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
			<i>For 10" WG (Class A), Add</i>	102.88	
			<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13	13-0669	LF	30" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
			<i>For 3" WG (Class B), Add</i>	34.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
			<i>For 10" WG (Class A), Add</i>	106.31	
			<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13	13-0670	LF	30" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
			<i>For 3" WG (Class B), Add</i>	35.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
			<i>For 10" WG (Class A), Add</i>	109.74	
			<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13	13-0671	LF	30" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
			<i>For 3" WG (Class B), Add</i>	36.90	
			<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
			<i>For 10" WG (Class A), Add</i>	113.16	
			<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13	13-0672	LF	30" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
			<i>For 3" WG (Class B), Add</i>	38.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
			<i>For 10" WG (Class A), Add</i>	116.59	
			<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13	13-0673	LF	30" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
			<i>For 3" WG (Class B), Add</i>	39.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
			<i>For 10" WG (Class A), Add</i>	120.02	
			<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13	13-0674	LF	30" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
			<i>For 3" WG (Class B), Add</i>	40.26	
			<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
			<i>For 10" WG (Class A), Add</i>	123.45	
			<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13	13-0675	LF	30" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
			<i>For 3" WG (Class B), Add</i>	41.37	
			<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
			<i>For 10" WG (Class A), Add</i>	126.88	
			<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13	13-0676	LF	30" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
			<i>For 3" WG (Class B), Add</i>	42.49	
			<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
			<i>For 10" WG (Class A), Add</i>	130.31	
			<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13	13-0677	LF	30" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
			<i>For 3" WG (Class B), Add</i>	43.61	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
			<i>For 10" WG (Class A), Add</i>	133.74	
			<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13	13-0678	LF	32" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
			<i>For 3" WG (Class B), Add</i>	35.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
			<i>For 10" WG (Class A), Add</i>	109.74	
			<i>For Work In Restricted Working Space, Add</i>	71.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0679 LF 32" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
<i>For 3" WG (Class B), Add</i>	36.90	
<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
<i>For 10" WG (Class A), Add</i>	113.16	
<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13 13-0680 LF 32" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
<i>For 3" WG (Class B), Add</i>	38.02	
<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
<i>For 10" WG (Class A), Add</i>	116.59	
<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13 13-0681 LF 32" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0682 LF 32" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0683 LF 32" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0684 LF 32" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
<i>For 3" WG (Class B), Add</i>	42.49	
<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
<i>For 10" WG (Class A), Add</i>	130.31	
<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13 13-0685 LF 32" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
<i>For 3" WG (Class B), Add</i>	43.61	
<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
<i>For 10" WG (Class A), Add</i>	133.74	
<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13 13-0686 LF 32" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
<i>For 3" WG (Class B), Add</i>	44.73	
<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
<i>For 10" WG (Class A), Add</i>	137.17	
<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13 13-0687 LF 34" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
<i>For 3" WG (Class B), Add</i>	38.02	
<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
<i>For 10" WG (Class A), Add</i>	116.59	
<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13 13-0688 LF 34" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0689 LF 34" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0690 LF 34" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0691 LF 34" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
<i>For 3" WG (Class B), Add</i>	42.49	
<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
<i>For 10" WG (Class A), Add</i>	130.31	
<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13 13-0692 LF 34" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
<i>For 3" WG (Class B), Add</i>	43.61	
<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
<i>For 10" WG (Class A), Add</i>	133.74	
<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13 13-0693 LF 34" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
<i>For 3" WG (Class B), Add</i>	44.73	
<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
<i>For 10" WG (Class A), Add</i>	137.17	
<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13 13-0694 LF 34" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
<i>For 3" WG (Class B), Add</i>	45.85	
<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
<i>For 10" WG (Class A), Add</i>	140.59	
<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13 13-0695 LF 36" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0696	LF	36" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
			<i>For 3" WG (Class B), Add</i>	41.37	
			<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
			<i>For 10" WG (Class A), Add</i>	126.88	
			<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13	13-0697	LF	36" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
			<i>For 3" WG (Class B), Add</i>	42.49	
			<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
			<i>For 10" WG (Class A), Add</i>	130.31	
			<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13	13-0698	LF	36" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
			<i>For 3" WG (Class B), Add</i>	43.61	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
			<i>For 10" WG (Class A), Add</i>	133.74	
			<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13	13-0699	LF	36" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
			<i>For 3" WG (Class B), Add</i>	44.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
			<i>For 10" WG (Class A), Add</i>	137.17	
			<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13	13-0700	LF	36" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
			<i>For 3" WG (Class B), Add</i>	45.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
			<i>For 10" WG (Class A), Add</i>	140.59	
			<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13	13-0701	LF	36" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
			<i>For 3" WG (Class B), Add</i>	46.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
			<i>For 10" WG (Class A), Add</i>	144.03	
			<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13	13-0702	LF	38" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
			<i>For 3" WG (Class B), Add</i>	42.49	
			<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
			<i>For 10" WG (Class A), Add</i>	130.31	
			<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13	13-0703	LF	38" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
			<i>For 3" WG (Class B), Add</i>	43.61	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
			<i>For 10" WG (Class A), Add</i>	133.74	
			<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13	13-0704	LF	38" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
			<i>For 3" WG (Class B), Add</i>	44.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
			<i>For 10" WG (Class A), Add</i>	137.17	
			<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13	13-0705	LF	38" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
			<i>For 3" WG (Class B), Add</i>	45.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
			<i>For 10" WG (Class A), Add</i>	140.59	
			<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13	13-0706	LF	38" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
			<i>For 3" WG (Class B), Add</i>	46.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
			<i>For 10" WG (Class A), Add</i>	144.03	
			<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13	13-0707	LF	38" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	357.22	192.34
			<i>For 3" WG (Class B), Add</i>	48.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	102.58	
			<i>For 10" WG (Class A), Add</i>	147.46	
			<i>For Work In Restricted Working Space, Add</i>	96.17	
23 31 13	13-0708	LF	38" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
			<i>For 3" WG (Class B), Add</i>	49.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
			<i>For 10" WG (Class A), Add</i>	150.89	
			<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13	13-0709	LF	40" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
			<i>For 3" WG (Class B), Add</i>	44.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
			<i>For 10" WG (Class A), Add</i>	137.17	
			<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13	13-0710	LF	40" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
			<i>For 3" WG (Class B), Add</i>	45.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
			<i>For 10" WG (Class A), Add</i>	140.59	
			<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13	13-0711	LF	40" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
			<i>For 3" WG (Class B), Add</i>	46.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
			<i>For 10" WG (Class A), Add</i>	144.03	
			<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13	13-0712	LF	40" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	357.22	192.34
			<i>For 3" WG (Class B), Add</i>	48.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	102.58	
			<i>For 10" WG (Class A), Add</i>	147.46	
			<i>For Work In Restricted Working Space, Add</i>	96.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0713 LF 40" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
<i>For 3" WG (Class B), Add</i>	49.20	
<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
<i>For 10" WG (Class A), Add</i>	150.89	
<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13 13-0714 LF 40" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.83	201.28
<i>For 3" WG (Class B), Add</i>	50.32	
<i>For 4" Or 6" WG (Class A), Add</i>	107.35	
<i>For 10" WG (Class A), Add</i>	154.32	
<i>For Work In Restricted Working Space, Add</i>	100.64	
23 31 13 13-0715 LF 40" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
<i>For 3" WG (Class B), Add</i>	51.44	
<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
<i>For 10" WG (Class A), Add</i>	157.74	
<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13 13-0716 LF 40" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
<i>For 3" WG (Class B), Add</i>	52.56	
<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
<i>For 10" WG (Class A), Add</i>	161.17	
<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13 13-0717 LF 40" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
<i>For 3" WG (Class B), Add</i>	53.67	
<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
<i>For 10" WG (Class A), Add</i>	164.60	
<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13 13-0718 LF 42" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
<i>For 3" WG (Class B), Add</i>	46.97	
<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
<i>For 10" WG (Class A), Add</i>	144.03	
<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13 13-0719 LF 42" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	357.22	192.34
<i>For 3" WG (Class B), Add</i>	48.08	
<i>For 4" Or 6" WG (Class A), Add</i>	102.58	
<i>For 10" WG (Class A), Add</i>	147.46	
<i>For Work In Restricted Working Space, Add</i>	96.17	
23 31 13 13-0720 LF 42" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
<i>For 3" WG (Class B), Add</i>	49.20	
<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
<i>For 10" WG (Class A), Add</i>	150.89	
<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13 13-0721 LF 42" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.83	201.28
<i>For 3" WG (Class B), Add</i>	50.32	
<i>For 4" Or 6" WG (Class A), Add</i>	107.35	
<i>For 10" WG (Class A), Add</i>	154.32	
<i>For Work In Restricted Working Space, Add</i>	100.64	
23 31 13 13-0722 LF 42" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
<i>For 3" WG (Class B), Add</i>	51.44	
<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
<i>For 10" WG (Class A), Add</i>	157.74	
<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13 13-0723 LF 42" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
<i>For 3" WG (Class B), Add</i>	52.56	
<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
<i>For 10" WG (Class A), Add</i>	161.17	
<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13 13-0724 LF 42" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
<i>For 3" WG (Class B), Add</i>	53.67	
<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
<i>For 10" WG (Class A), Add</i>	164.60	
<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13 13-0725 LF 42" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
<i>For 3" WG (Class B), Add</i>	54.79	
<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
<i>For 10" WG (Class A), Add</i>	168.03	
<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13 13-0726 LF 44" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
<i>For 3" WG (Class B), Add</i>	49.20	
<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
<i>For 10" WG (Class A), Add</i>	150.89	
<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13 13-0727 LF 44" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.83	201.28
<i>For 3" WG (Class B), Add</i>	50.32	
<i>For 4" Or 6" WG (Class A), Add</i>	107.35	
<i>For 10" WG (Class A), Add</i>	154.32	
<i>For Work In Restricted Working Space, Add</i>	100.64	
23 31 13 13-0728 LF 44" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
<i>For 3" WG (Class B), Add</i>	51.44	
<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
<i>For 10" WG (Class A), Add</i>	157.74	
<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13 13-0729 LF 44" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
<i>For 3" WG (Class B), Add</i>	52.56	
<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
<i>For 10" WG (Class A), Add</i>	161.17	
<i>For Work In Restricted Working Space, Add</i>	105.11	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0730	LF	44" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
			<i>For 3" WG (Class B), Add</i>	53.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
			<i>For 10" WG (Class A), Add</i>	164.60	
			<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13	13-0731	LF	44" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
			<i>For 3" WG (Class B), Add</i>	54.79	
			<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
			<i>For 10" WG (Class A), Add</i>	168.03	
			<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13	13-0732	LF	44" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
			<i>For 3" WG (Class B), Add</i>	55.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	119.28	
			<i>For 10" WG (Class A), Add</i>	171.46	
			<i>For Work In Restricted Working Space, Add</i>	111.82	
23 31 13	13-0733	LF	46" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
			<i>For 3" WG (Class B), Add</i>	51.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
			<i>For 10" WG (Class A), Add</i>	157.74	
			<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13	13-0734	LF	46" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
			<i>For 3" WG (Class B), Add</i>	52.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
			<i>For 10" WG (Class A), Add</i>	161.17	
			<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13	13-0735	LF	46" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
			<i>For 3" WG (Class B), Add</i>	53.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
			<i>For 10" WG (Class A), Add</i>	164.60	
			<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13	13-0736	LF	46" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
			<i>For 3" WG (Class B), Add</i>	54.79	
			<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
			<i>For 10" WG (Class A), Add</i>	168.03	
			<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13	13-0737	LF	46" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
			<i>For 3" WG (Class B), Add</i>	55.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	119.28	
			<i>For 10" WG (Class A), Add</i>	171.46	
			<i>For Work In Restricted Working Space, Add</i>	111.82	
23 31 13	13-0738	LF	46" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.13	232.60
			<i>For 3" WG (Class B), Add</i>	58.15	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.05	
			<i>For 10" WG (Class A), Add</i>	178.32	
			<i>For Work In Restricted Working Space, Add</i>	116.30	
23 31 13	13-0739	LF	46" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	439.43	237.06
			<i>For 3" WG (Class B), Add</i>	59.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	126.44	
			<i>For 10" WG (Class A), Add</i>	181.75	
			<i>For Work In Restricted Working Space, Add</i>	118.53	
23 31 13	13-0740	LF	48" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
			<i>For 3" WG (Class B), Add</i>	53.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
			<i>For 10" WG (Class A), Add</i>	164.60	
			<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13	13-0741	LF	48" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
			<i>For 3" WG (Class B), Add</i>	54.79	
			<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
			<i>For 10" WG (Class A), Add</i>	168.03	
			<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13	13-0742	LF	48" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
			<i>For 3" WG (Class B), Add</i>	55.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	119.28	
			<i>For 10" WG (Class A), Add</i>	171.46	
			<i>For Work In Restricted Working Space, Add</i>	111.82	
23 31 13	13-0743	LF	48" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	423.68	228.11
			<i>For 3" WG (Class B), Add</i>	57.03	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.66	
			<i>For 10" WG (Class A), Add</i>	174.89	
			<i>For Work In Restricted Working Space, Add</i>	114.06	
23 31 13	13-0744	LF	48" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.97	232.60
			<i>For 3" WG (Class B), Add</i>	58.15	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.05	
			<i>For 10" WG (Class A), Add</i>	178.32	
			<i>For Work In Restricted Working Space, Add</i>	116.30	
23 31 13	13-0745	LF	48" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	440.29	237.06
			<i>For 3" WG (Class B), Add</i>	59.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	126.44	
			<i>For 10" WG (Class A), Add</i>	181.75	
			<i>For Work In Restricted Working Space, Add</i>	118.53	
23 31 13	13-0746	LF	48" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
			<i>For 3" WG (Class B), Add</i>	60.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	128.82	
			<i>For 10" WG (Class A), Add</i>	185.17	
			<i>For Work In Restricted Working Space, Add</i>	120.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0747 LF 50" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
<i>For 3" WG (Class B), Add</i>	55.91	
<i>For 4" Or 6" WG (Class A), Add</i>	119.28	
<i>For 10" WG (Class A), Add</i>	171.46	
<i>For Work In Restricted Working Space, Add</i>	111.82	
23 31 13 13-0748 LF 50" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	423.68	228.11
<i>For 3" WG (Class B), Add</i>	57.03	
<i>For 4" Or 6" WG (Class A), Add</i>	121.66	
<i>For 10" WG (Class A), Add</i>	174.89	
<i>For Work In Restricted Working Space, Add</i>	114.06	
23 31 13 13-0749 LF 50" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.97	232.60
<i>For 3" WG (Class B), Add</i>	58.15	
<i>For 4" Or 6" WG (Class A), Add</i>	124.05	
<i>For 10" WG (Class A), Add</i>	178.32	
<i>For Work In Restricted Working Space, Add</i>	116.30	
23 31 13 13-0750 LF 50" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	440.29	237.06
<i>For 3" WG (Class B), Add</i>	59.27	
<i>For 4" Or 6" WG (Class A), Add</i>	126.44	
<i>For 10" WG (Class A), Add</i>	181.75	
<i>For Work In Restricted Working Space, Add</i>	118.53	
23 31 13 13-0751 LF 50" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
<i>For 3" WG (Class B), Add</i>	60.38	
<i>For 4" Or 6" WG (Class A), Add</i>	128.82	
<i>For 10" WG (Class A), Add</i>	185.17	
<i>For Work In Restricted Working Space, Add</i>	120.77	
23 31 13 13-0752 LF 50" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	456.89	246.01
<i>For 3" WG (Class B), Add</i>	61.50	
<i>For 4" Or 6" WG (Class A), Add</i>	131.20	
<i>For 10" WG (Class A), Add</i>	188.60	
<i>For Work In Restricted Working Space, Add</i>	123.00	
23 31 13 13-0753 LF 52" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.97	232.60
<i>For 3" WG (Class B), Add</i>	58.15	
<i>For 4" Or 6" WG (Class A), Add</i>	124.05	
<i>For 10" WG (Class A), Add</i>	178.32	
<i>For Work In Restricted Working Space, Add</i>	116.30	
23 31 13 13-0754 LF 52" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	440.29	237.06
<i>For 3" WG (Class B), Add</i>	59.27	
<i>For 4" Or 6" WG (Class A), Add</i>	126.44	
<i>For 10" WG (Class A), Add</i>	181.75	
<i>For Work In Restricted Working Space, Add</i>	118.53	
23 31 13 13-0755 LF 52" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
<i>For 3" WG (Class B), Add</i>	60.38	
<i>For 4" Or 6" WG (Class A), Add</i>	128.82	
<i>For 10" WG (Class A), Add</i>	185.17	
<i>For Work In Restricted Working Space, Add</i>	120.77	
23 31 13 13-0756 LF 52" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	456.89	246.01
<i>For 3" WG (Class B), Add</i>	61.50	
<i>For 4" Or 6" WG (Class A), Add</i>	131.20	
<i>For 10" WG (Class A), Add</i>	188.60	
<i>For Work In Restricted Working Space, Add</i>	123.00	
23 31 13 13-0757 LF 52" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.22	250.49
<i>For 3" WG (Class B), Add</i>	62.62	
<i>For 4" Or 6" WG (Class A), Add</i>	133.59	
<i>For 10" WG (Class A), Add</i>	192.04	
<i>For Work In Restricted Working Space, Add</i>	125.24	
23 31 13 13-0758 LF 54" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
<i>For 3" WG (Class B), Add</i>	60.38	
<i>For 4" Or 6" WG (Class A), Add</i>	128.82	
<i>For 10" WG (Class A), Add</i>	185.17	
<i>For Work In Restricted Working Space, Add</i>	120.77	
23 31 13 13-0759 LF 54" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	456.89	246.01
<i>For 3" WG (Class B), Add</i>	61.50	
<i>For 4" Or 6" WG (Class A), Add</i>	131.20	
<i>For 10" WG (Class A), Add</i>	188.60	
<i>For Work In Restricted Working Space, Add</i>	123.00	
23 31 13 13-0760 LF 54" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.22	250.49
<i>For 3" WG (Class B), Add</i>	62.62	
<i>For 4" Or 6" WG (Class A), Add</i>	133.59	
<i>For 10" WG (Class A), Add</i>	192.04	
<i>For Work In Restricted Working Space, Add</i>	125.24	
23 31 13 13-0761 LF 54" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	473.51	254.95
<i>For 3" WG (Class B), Add</i>	63.74	
<i>For 4" Or 6" WG (Class A), Add</i>	135.98	
<i>For 10" WG (Class A), Add</i>	195.47	
<i>For Work In Restricted Working Space, Add</i>	127.48	
23 31 13 13-0762 LF 54" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	481.82	259.43
<i>For 3" WG (Class B), Add</i>	64.86	
<i>For 4" Or 6" WG (Class A), Add</i>	138.36	
<i>For 10" WG (Class A), Add</i>	198.89	
<i>For Work In Restricted Working Space, Add</i>	129.71	
23 31 13 13-0763 LF 54" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	490.11	263.90
<i>For 3" WG (Class B), Add</i>	65.97	
<i>For 4" Or 6" WG (Class A), Add</i>	140.75	
<i>For 10" WG (Class A), Add</i>	202.32	
<i>For Work In Restricted Working Space, Add</i>	131.95	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0764 LF 56" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.22	250.49
For 3" WG (Class B), Add	62.62	
For 4" Or 6" WG (Class A), Add	133.59	
For 10" WG (Class A), Add	192.04	
For Work In Restricted Working Space, Add	125.24	
23 31 13 13-0765 LF 56" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	473.51	254.95
For 3" WG (Class B), Add	63.74	
For 4" Or 6" WG (Class A), Add	135.98	
For 10" WG (Class A), Add	195.47	
For Work In Restricted Working Space, Add	127.48	
23 31 13 13-0766 LF 56" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	481.82	259.43
For 3" WG (Class B), Add	64.86	
For 4" Or 6" WG (Class A), Add	138.36	
For 10" WG (Class A), Add	198.89	
For Work In Restricted Working Space, Add	129.71	
23 31 13 13-0767 LF 56" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	490.11	263.90
For 3" WG (Class B), Add	65.97	
For 4" Or 6" WG (Class A), Add	140.75	
For 10" WG (Class A), Add	202.32	
For Work In Restricted Working Space, Add	131.95	
23 31 13 13-0768 LF 56" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	498.43	268.37
For 3" WG (Class B), Add	67.09	
For 4" Or 6" WG (Class A), Add	143.13	
For 10" WG (Class A), Add	205.75	
For Work In Restricted Working Space, Add	134.19	
23 31 13 13-0769 LF 58" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	481.82	259.43
For 3" WG (Class B), Add	64.86	
For 4" Or 6" WG (Class A), Add	138.36	
For 10" WG (Class A), Add	198.89	
For Work In Restricted Working Space, Add	129.71	
23 31 13 13-0770 LF 58" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	490.11	263.90
For 3" WG (Class B), Add	65.97	
For 4" Or 6" WG (Class A), Add	140.75	
For 10" WG (Class A), Add	202.32	
For Work In Restricted Working Space, Add	131.95	
23 31 13 13-0771 LF 58" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	498.43	268.37
For 3" WG (Class B), Add	67.09	
For 4" Or 6" WG (Class A), Add	143.13	
For 10" WG (Class A), Add	205.75	
For Work In Restricted Working Space, Add	134.19	
23 31 13 13-0772 LF 58" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	506.74	272.85
For 3" WG (Class B), Add	68.21	
For 4" Or 6" WG (Class A), Add	145.52	
For 10" WG (Class A), Add	209.18	
For Work In Restricted Working Space, Add	136.42	
23 31 13 13-0773 LF 58" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	515.03	277.31
For 3" WG (Class B), Add	69.33	
For 4" Or 6" WG (Class A), Add	147.90	
For 10" WG (Class A), Add	212.61	
For Work In Restricted Working Space, Add	138.66	
23 31 13 13-0774 LF 60" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	498.43	268.37
For 3" WG (Class B), Add	67.09	
For 4" Or 6" WG (Class A), Add	143.13	
For 10" WG (Class A), Add	205.75	
For Work In Restricted Working Space, Add	134.19	
23 31 13 13-0775 LF 60" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	506.74	272.85
For 3" WG (Class B), Add	68.21	
For 4" Or 6" WG (Class A), Add	145.52	
For 10" WG (Class A), Add	209.18	
For Work In Restricted Working Space, Add	136.42	
23 31 13 13-0776 LF 60" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	515.03	277.31
For 3" WG (Class B), Add	69.33	
For 4" Or 6" WG (Class A), Add	147.90	
For 10" WG (Class A), Add	212.61	
For Work In Restricted Working Space, Add	138.66	
23 31 13 13-0777 LF 60" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	523.36	281.79
For 3" WG (Class B), Add	70.45	
For 4" Or 6" WG (Class A), Add	150.29	
For 10" WG (Class A), Add	216.04	
For Work In Restricted Working Space, Add	140.90	
23 31 13 13-0778 LF 60" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	531.67	286.26
For 3" WG (Class B), Add	71.57	
For 4" Or 6" WG (Class A), Add	152.68	
For 10" WG (Class A), Add	219.47	
For Work In Restricted Working Space, Add	143.13	
23 31 13 13-0779 LF 62" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	515.03	277.31
For 3" WG (Class B), Add	69.33	
For 4" Or 6" WG (Class A), Add	147.90	
For 10" WG (Class A), Add	212.61	
For Work In Restricted Working Space, Add	138.66	
23 31 13 13-0780 LF 62" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	523.36	281.79
For 3" WG (Class B), Add	70.45	
For 4" Or 6" WG (Class A), Add	150.29	
For 10" WG (Class A), Add	216.04	
For Work In Restricted Working Space, Add	140.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0781 LF 62" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	531.67	286.26
<i>For 3" WG (Class B), Add</i>	71.57	
<i>For 4" Or 6" WG (Class A), Add</i>	152.68	
<i>For 10" WG (Class A), Add</i>	219.47	
<i>For Work In Restricted Working Space, Add</i>	143.13	
23 31 13 13-0782 LF 62" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	539.97	290.74
<i>For 3" WG (Class B), Add</i>	72.69	
<i>For 4" Or 6" WG (Class A), Add</i>	155.06	
<i>For 10" WG (Class A), Add</i>	222.90	
<i>For Work In Restricted Working Space, Add</i>	145.37	
23 31 13 13-0783 LF 62" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	548.28	295.20
<i>For 3" WG (Class B), Add</i>	73.80	
<i>For 4" Or 6" WG (Class A), Add</i>	157.45	
<i>For 10" WG (Class A), Add</i>	226.33	
<i>For Work In Restricted Working Space, Add</i>	147.61	
23 31 13 13-0784 LF 64" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	531.67	286.26
<i>For 3" WG (Class B), Add</i>	71.57	
<i>For 4" Or 6" WG (Class A), Add</i>	152.68	
<i>For 10" WG (Class A), Add</i>	219.47	
<i>For Work In Restricted Working Space, Add</i>	143.13	
23 31 13 13-0785 LF 64" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	539.97	290.74
<i>For 3" WG (Class B), Add</i>	72.69	
<i>For 4" Or 6" WG (Class A), Add</i>	155.06	
<i>For 10" WG (Class A), Add</i>	222.90	
<i>For Work In Restricted Working Space, Add</i>	145.37	
23 31 13 13-0786 LF 64" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	548.28	295.20
<i>For 3" WG (Class B), Add</i>	73.80	
<i>For 4" Or 6" WG (Class A), Add</i>	157.45	
<i>For 10" WG (Class A), Add</i>	226.33	
<i>For Work In Restricted Working Space, Add</i>	147.61	
23 31 13 13-0787 LF 64" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	556.57	299.69
<i>For 3" WG (Class B), Add</i>	74.92	
<i>For 4" Or 6" WG (Class A), Add</i>	159.83	
<i>For 10" WG (Class A), Add</i>	229.76	
<i>For Work In Restricted Working Space, Add</i>	149.84	
23 31 13 13-0788 LF 66" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	548.28	295.20
<i>For 3" WG (Class B), Add</i>	73.80	
<i>For 4" Or 6" WG (Class A), Add</i>	157.45	
<i>For 10" WG (Class A), Add</i>	226.33	
<i>For Work In Restricted Working Space, Add</i>	147.61	
23 31 13 13-0789 LF 66" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	556.57	299.69
<i>For 3" WG (Class B), Add</i>	74.92	
<i>For 4" Or 6" WG (Class A), Add</i>	159.83	
<i>For 10" WG (Class A), Add</i>	229.76	
<i>For Work In Restricted Working Space, Add</i>	149.84	
23 31 13 13-0790 LF 66" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	564.88	304.15
<i>For 3" WG (Class B), Add</i>	76.04	
<i>For 4" Or 6" WG (Class A), Add</i>	162.21	
<i>For 10" WG (Class A), Add</i>	233.18	
<i>For Work In Restricted Working Space, Add</i>	152.08	
23 31 13 13-0791 LF 66" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.20	308.63
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.60	
<i>For 10" WG (Class A), Add</i>	236.61	
<i>For Work In Restricted Working Space, Add</i>	154.31	
23 31 13 13-0792 LF 68" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	564.88	304.15
<i>For 3" WG (Class B), Add</i>	76.04	
<i>For 4" Or 6" WG (Class A), Add</i>	162.21	
<i>For 10" WG (Class A), Add</i>	233.18	
<i>For Work In Restricted Working Space, Add</i>	152.08	
23 31 13 13-0793 LF 68" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.20	308.63
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.60	
<i>For 10" WG (Class A), Add</i>	236.61	
<i>For Work In Restricted Working Space, Add</i>	154.31	
23 31 13 13-0794 LF 68" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	581.50	313.10
<i>For 3" WG (Class B), Add</i>	78.28	
<i>For 4" Or 6" WG (Class A), Add</i>	166.99	
<i>For 10" WG (Class A), Add</i>	240.05	
<i>For Work In Restricted Working Space, Add</i>	156.55	
23 31 13 13-0795 LF 68" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	589.81	317.58
<i>For 3" WG (Class B), Add</i>	79.39	
<i>For 4" Or 6" WG (Class A), Add</i>	169.37	
<i>For 10" WG (Class A), Add</i>	243.47	
<i>For Work In Restricted Working Space, Add</i>	158.79	
23 31 13 13-0796 LF 70" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	581.50	313.10
<i>For 3" WG (Class B), Add</i>	78.28	
<i>For 4" Or 6" WG (Class A), Add</i>	166.99	
<i>For 10" WG (Class A), Add</i>	240.05	
<i>For Work In Restricted Working Space, Add</i>	156.55	
23 31 13 13-0797 LF 70" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	589.81	317.58
<i>For 3" WG (Class B), Add</i>	79.39	
<i>For 4" Or 6" WG (Class A), Add</i>	169.37	
<i>For 10" WG (Class A), Add</i>	243.47	
<i>For Work In Restricted Working Space, Add</i>	158.79	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0798	LF		70" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	598.13	322.04
			<i>For 3" WG (Class B), Add</i>	80.51	
			<i>For 4" Or 6" WG (Class A), Add</i>	171.76	
			<i>For 10" WG (Class A), Add</i>	246.91	
			<i>For Work In Restricted Working Space, Add</i>	161.03	
23 31 13 13-0799	LF		70" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	606.42	326.53
			<i>For 3" WG (Class B), Add</i>	81.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	174.14	
			<i>For 10" WG (Class A), Add</i>	250.33	
			<i>For Work In Restricted Working Space, Add</i>	163.26	
23 31 13 13-0800	LF		70" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	614.74	330.99
			<i>For 3" WG (Class B), Add</i>	82.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	176.53	
			<i>For 10" WG (Class A), Add</i>	253.76	
			<i>For Work In Restricted Working Space, Add</i>	165.50	
23 31 13 13-0801	LF		70" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	623.02	335.47
			<i>For 3" WG (Class B), Add</i>	83.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	178.91	
			<i>For 10" WG (Class A), Add</i>	257.19	
			<i>For Work In Restricted Working Space, Add</i>	167.73	
23 31 13 13-0802	LF		70" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
			<i>For 3" WG (Class B), Add</i>	84.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
			<i>For 10" WG (Class A), Add</i>	260.62	
			<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13 13-0803	LF		70" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
			<i>For 3" WG (Class B), Add</i>	86.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
			<i>For 10" WG (Class A), Add</i>	264.05	
			<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13 13-0804	LF		72" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	598.13	322.04
			<i>For 3" WG (Class B), Add</i>	80.51	
			<i>For 4" Or 6" WG (Class A), Add</i>	171.76	
			<i>For 10" WG (Class A), Add</i>	246.91	
			<i>For Work In Restricted Working Space, Add</i>	161.03	
23 31 13 13-0805	LF		72" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	606.42	326.53
			<i>For 3" WG (Class B), Add</i>	81.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	174.14	
			<i>For 10" WG (Class A), Add</i>	250.33	
			<i>For Work In Restricted Working Space, Add</i>	163.26	
23 31 13 13-0806	LF		72" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	614.74	330.99
			<i>For 3" WG (Class B), Add</i>	82.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	176.53	
			<i>For 10" WG (Class A), Add</i>	253.76	
			<i>For Work In Restricted Working Space, Add</i>	165.50	
23 31 13 13-0807	LF		72" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	623.02	335.47
			<i>For 3" WG (Class B), Add</i>	83.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	178.91	
			<i>For 10" WG (Class A), Add</i>	257.19	
			<i>For Work In Restricted Working Space, Add</i>	167.73	
23 31 13 13-0808	LF		72" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
			<i>For 3" WG (Class B), Add</i>	84.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
			<i>For 10" WG (Class A), Add</i>	260.62	
			<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13 13-0809	LF		72" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
			<i>For 3" WG (Class B), Add</i>	86.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
			<i>For 10" WG (Class A), Add</i>	264.05	
			<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13 13-0810	LF		72" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
			<i>For 3" WG (Class B), Add</i>	87.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
			<i>For 10" WG (Class A), Add</i>	267.48	
			<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13 13-0811	LF		74" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	614.74	330.99
			<i>For 3" WG (Class B), Add</i>	82.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	176.53	
			<i>For 10" WG (Class A), Add</i>	253.76	
			<i>For Work In Restricted Working Space, Add</i>	165.50	
23 31 13 13-0812	LF		74" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	623.02	335.47
			<i>For 3" WG (Class B), Add</i>	83.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	178.91	
			<i>For 10" WG (Class A), Add</i>	257.19	
			<i>For Work In Restricted Working Space, Add</i>	167.73	
23 31 13 13-0813	LF		74" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
			<i>For 3" WG (Class B), Add</i>	84.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
			<i>For 10" WG (Class A), Add</i>	260.62	
			<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13 13-0814	LF		74" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
			<i>For 3" WG (Class B), Add</i>	86.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
			<i>For 10" WG (Class A), Add</i>	264.05	
			<i>For Work In Restricted Working Space, Add</i>	172.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0815 LF 74" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
<i>For 3" WG (Class B), Add</i>	87.22	
<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
<i>For 10" WG (Class A), Add</i>	267.48	
<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13 13-0816 LF 74" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	656.28	353.36
<i>For 3" WG (Class B), Add</i>	88.34	
<i>For 4" Or 6" WG (Class A), Add</i>	188.46	
<i>For 10" WG (Class A), Add</i>	270.91	
<i>For Work In Restricted Working Space, Add</i>	176.68	
23 31 13 13-0817 LF 76" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
<i>For 3" WG (Class B), Add</i>	84.99	
<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
<i>For 10" WG (Class A), Add</i>	260.62	
<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13 13-0818 LF 76" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
<i>For 3" WG (Class B), Add</i>	86.10	
<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
<i>For 10" WG (Class A), Add</i>	264.05	
<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13 13-0819 LF 76" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
<i>For 3" WG (Class B), Add</i>	87.22	
<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
<i>For 10" WG (Class A), Add</i>	267.48	
<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13 13-0820 LF 76" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	656.28	353.36
<i>For 3" WG (Class B), Add</i>	88.34	
<i>For 4" Or 6" WG (Class A), Add</i>	188.46	
<i>For 10" WG (Class A), Add</i>	270.91	
<i>For Work In Restricted Working Space, Add</i>	176.68	
23 31 13 13-0821 LF 76" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	664.56	357.83
<i>For 3" WG (Class B), Add</i>	89.46	
<i>For 4" Or 6" WG (Class A), Add</i>	190.84	
<i>For 10" WG (Class A), Add</i>	274.33	
<i>For Work In Restricted Working Space, Add</i>	178.91	
23 31 13 13-0822 LF 78" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
<i>For 3" WG (Class B), Add</i>	87.22	
<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
<i>For 10" WG (Class A), Add</i>	267.48	
<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13 13-0823 LF 78" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	656.28	353.36
<i>For 3" WG (Class B), Add</i>	88.34	
<i>For 4" Or 6" WG (Class A), Add</i>	188.46	
<i>For 10" WG (Class A), Add</i>	270.91	
<i>For Work In Restricted Working Space, Add</i>	176.68	
23 31 13 13-0824 LF 78" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	664.56	357.83
<i>For 3" WG (Class B), Add</i>	89.46	
<i>For 4" Or 6" WG (Class A), Add</i>	190.84	
<i>For 10" WG (Class A), Add</i>	274.33	
<i>For Work In Restricted Working Space, Add</i>	178.91	
23 31 13 13-0825 LF 78" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	672.88	362.30
<i>For 3" WG (Class B), Add</i>	90.58	
<i>For 4" Or 6" WG (Class A), Add</i>	193.23	
<i>For 10" WG (Class A), Add</i>	277.77	
<i>For Work In Restricted Working Space, Add</i>	181.15	
23 31 13 13-0826 LF 80" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	664.56	357.83
<i>For 3" WG (Class B), Add</i>	89.46	
<i>For 4" Or 6" WG (Class A), Add</i>	190.84	
<i>For 10" WG (Class A), Add</i>	274.33	
<i>For Work In Restricted Working Space, Add</i>	178.91	
23 31 13 13-0827 LF 80" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	672.88	362.30
<i>For 3" WG (Class B), Add</i>	90.58	
<i>For 4" Or 6" WG (Class A), Add</i>	193.23	
<i>For 10" WG (Class A), Add</i>	277.77	
<i>For Work In Restricted Working Space, Add</i>	181.15	
23 31 13 13-0828 LF 80" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	681.19	366.78
<i>For 3" WG (Class B), Add</i>	91.69	
<i>For 4" Or 6" WG (Class A), Add</i>	195.61	
<i>For 10" WG (Class A), Add</i>	281.19	
<i>For Work In Restricted Working Space, Add</i>	183.39	
23 31 13 13-0829 LF 82" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	681.19	366.78
<i>For 3" WG (Class B), Add</i>	91.69	
<i>For 4" Or 6" WG (Class A), Add</i>	195.61	
<i>For 10" WG (Class A), Add</i>	281.19	
<i>For Work In Restricted Working Space, Add</i>	183.39	
23 31 13 13-0830 LF 82" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	689.50	371.25
<i>For 3" WG (Class B), Add</i>	92.81	
<i>For 4" Or 6" WG (Class A), Add</i>	198.00	
<i>For 10" WG (Class A), Add</i>	284.63	
<i>For Work In Restricted Working Space, Add</i>	185.63	
23 31 13 13-0831 LF 84" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	697.80	375.72
<i>For 3" WG (Class B), Add</i>	93.93	
<i>For 4" Or 6" WG (Class A), Add</i>	200.38	
<i>For 10" WG (Class A), Add</i>	288.05	
<i>For Work In Restricted Working Space, Add</i>	187.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0832			18 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0833	LF		4" x 4", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.27	23.29
			<i>For 3" WG (Class B), Add</i>	5.82	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.43	
			<i>For 10" WG (Class A), Add</i>	17.86	
			<i>For Work In Restricted Working Space, Add</i>	11.65	
23 31 13 13-0834	LF		4" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.08	29.11
			<i>For 3" WG (Class B), Add</i>	7.28	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.53	
			<i>For 10" WG (Class A), Add</i>	22.32	
			<i>For Work In Restricted Working Space, Add</i>	14.56	
23 31 13 13-0835	LF		4" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	64.88	34.94
			<i>For 3" WG (Class B), Add</i>	8.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.63	
			<i>For 10" WG (Class A), Add</i>	26.79	
			<i>For Work In Restricted Working Space, Add</i>	17.47	
23 31 13 13-0836	LF		4" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	75.70	40.76
			<i>For 3" WG (Class B), Add</i>	10.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	21.74	
			<i>For 10" WG (Class A), Add</i>	31.25	
			<i>For Work In Restricted Working Space, Add</i>	20.38	
23 31 13 13-0837	LF		4" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.52	46.59
			<i>For 3" WG (Class B), Add</i>	11.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	24.84	
			<i>For 10" WG (Class A), Add</i>	35.71	
			<i>For Work In Restricted Working Space, Add</i>	23.29	
23 31 13 13-0838	LF		4" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	97.33	52.41
			<i>For 3" WG (Class B), Add</i>	13.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	27.95	
			<i>For 10" WG (Class A), Add</i>	40.18	
			<i>For Work In Restricted Working Space, Add</i>	26.20	
23 31 13 13-0839	LF		4" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16	58.23
			<i>For 3" WG (Class B), Add</i>	14.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	31.06	
			<i>For 10" WG (Class A), Add</i>	44.65	
			<i>For Work In Restricted Working Space, Add</i>	29.12	
23 31 13 13-0840	LF		6" x 6", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	64.88	34.94
			<i>For 3" WG (Class B), Add</i>	8.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.63	
			<i>For 10" WG (Class A), Add</i>	26.79	
			<i>For Work In Restricted Working Space, Add</i>	17.47	
23 31 13 13-0841	LF		6" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	75.70	40.76
			<i>For 3" WG (Class B), Add</i>	10.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	21.74	
			<i>For 10" WG (Class A), Add</i>	31.25	
			<i>For Work In Restricted Working Space, Add</i>	20.38	
23 31 13 13-0842	LF		6" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.52	46.59
			<i>For 3" WG (Class B), Add</i>	11.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	24.84	
			<i>For 10" WG (Class A), Add</i>	35.71	
			<i>For Work In Restricted Working Space, Add</i>	23.29	
23 31 13 13-0843	LF		6" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	97.33	52.41
			<i>For 3" WG (Class B), Add</i>	13.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	27.95	
			<i>For 10" WG (Class A), Add</i>	40.18	
			<i>For Work In Restricted Working Space, Add</i>	26.20	
23 31 13 13-0844	LF		6" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16	58.23
			<i>For 3" WG (Class B), Add</i>	14.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	31.06	
			<i>For 10" WG (Class A), Add</i>	44.65	
			<i>For Work In Restricted Working Space, Add</i>	29.12	
23 31 13 13-0845	LF		6" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	118.97	64.06
			<i>For 3" WG (Class B), Add</i>	16.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.17	
			<i>For 10" WG (Class A), Add</i>	49.11	
			<i>For Work In Restricted Working Space, Add</i>	32.03	
23 31 13 13-0846	LF		8" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.52	46.59
			<i>For 3" WG (Class B), Add</i>	11.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	24.84	
			<i>For 10" WG (Class A), Add</i>	35.71	
			<i>For Work In Restricted Working Space, Add</i>	23.29	
23 31 13 13-0847	LF		8" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	97.33	52.41
			<i>For 3" WG (Class B), Add</i>	13.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	27.95	
			<i>For 10" WG (Class A), Add</i>	40.18	
			<i>For Work In Restricted Working Space, Add</i>	26.20	
23 31 13 13-0848	LF		8" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16	58.23
			<i>For 3" WG (Class B), Add</i>	14.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	31.06	
			<i>For 10" WG (Class A), Add</i>	44.65	
			<i>For Work In Restricted Working Space, Add</i>	29.12	
23 31 13 13-0849	LF		8" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	118.97	64.06
			<i>For 3" WG (Class B), Add</i>	16.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.17	
			<i>For 10" WG (Class A), Add</i>	49.11	
			<i>For Work In Restricted Working Space, Add</i>	32.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0850 LF 8" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	129.78	69.88
<i>For 3" WG (Class B), Add</i>	17.47	
<i>For 4" Or 6" WG (Class A), Add</i>	37.27	
<i>For 10" WG (Class A), Add</i>	53.58	
<i>For Work In Restricted Working Space, Add</i>	34.94	
23 31 13 13-0851 LF 8" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	140.60	75.70
<i>For 3" WG (Class B), Add</i>	18.93	
<i>For 4" Or 6" WG (Class A), Add</i>	40.37	
<i>For 10" WG (Class A), Add</i>	58.04	
<i>For Work In Restricted Working Space, Add</i>	37.85	
23 31 13 13-0852 LF 8" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
<i>For 3" WG (Class B), Add</i>	20.38	
<i>For 4" Or 6" WG (Class A), Add</i>	43.48	
<i>For 10" WG (Class A), Add</i>	62.50	
<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13 13-0853 LF 8" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.59	
<i>For 10" WG (Class A), Add</i>	66.97	
<i>For Work In Restricted Working Space, Add</i>	43.68	
23 31 13 13-0854 LF 8" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
<i>For 3" WG (Class B), Add</i>	23.29	
<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
<i>For 10" WG (Class A), Add</i>	71.43	
<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13 13-0855 LF 10" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16	58.23
<i>For 3" WG (Class B), Add</i>	14.56	
<i>For 4" Or 6" WG (Class A), Add</i>	31.06	
<i>For 10" WG (Class A), Add</i>	44.65	
<i>For Work In Restricted Working Space, Add</i>	29.12	
23 31 13 13-0856 LF 10" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	118.97	64.06
<i>For 3" WG (Class B), Add</i>	16.02	
<i>For 4" Or 6" WG (Class A), Add</i>	34.17	
<i>For 10" WG (Class A), Add</i>	49.11	
<i>For Work In Restricted Working Space, Add</i>	32.03	
23 31 13 13-0857 LF 10" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	129.78	69.88
<i>For 3" WG (Class B), Add</i>	17.47	
<i>For 4" Or 6" WG (Class A), Add</i>	37.27	
<i>For 10" WG (Class A), Add</i>	53.58	
<i>For Work In Restricted Working Space, Add</i>	34.94	
23 31 13 13-0858 LF 10" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	140.60	75.70
<i>For 3" WG (Class B), Add</i>	18.93	
<i>For 4" Or 6" WG (Class A), Add</i>	40.37	
<i>For 10" WG (Class A), Add</i>	58.04	
<i>For Work In Restricted Working Space, Add</i>	37.85	
23 31 13 13-0859 LF 10" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
<i>For 3" WG (Class B), Add</i>	20.38	
<i>For 4" Or 6" WG (Class A), Add</i>	43.48	
<i>For 10" WG (Class A), Add</i>	62.50	
<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13 13-0860 LF 10" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.59	
<i>For 10" WG (Class A), Add</i>	66.97	
<i>For Work In Restricted Working Space, Add</i>	43.68	
23 31 13 13-0861 LF 10" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
<i>For 3" WG (Class B), Add</i>	23.29	
<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
<i>For 10" WG (Class A), Add</i>	71.43	
<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13 13-0862 LF 10" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
<i>For 3" WG (Class B), Add</i>	24.75	
<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
<i>For 10" WG (Class A), Add</i>	75.90	
<i>For Work In Restricted Working Space, Add</i>	49.50	
23 31 13 13-0863 LF 10" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0864 LF 10" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	
23 31 13 13-0865 LF 10" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
<i>For 3" WG (Class B), Add</i>	29.12	
<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
<i>For 10" WG (Class A), Add</i>	89.29	
<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13 13-0866 LF 10" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
<i>For 3" WG (Class B), Add</i>	30.57	
<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
<i>For 10" WG (Class A), Add</i>	93.76	
<i>For Work In Restricted Working Space, Add</i>	61.15	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0867	LF	12" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	129.78	69.88
			<i>For 3" WG (Class B), Add</i>	17.47	
			<i>For 4" Or 6" WG (Class A), Add</i>	37.27	
			<i>For 10" WG (Class A), Add</i>	53.58	
			<i>For Work In Restricted Working Space, Add</i>	34.94	
23 31 13	13-0868	LF	12" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	140.60	75.70
			<i>For 3" WG (Class B), Add</i>	18.93	
			<i>For 4" Or 6" WG (Class A), Add</i>	40.37	
			<i>For 10" WG (Class A), Add</i>	58.04	
			<i>For Work In Restricted Working Space, Add</i>	37.85	
23 31 13	13-0869	LF	12" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
			<i>For 3" WG (Class B), Add</i>	20.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	43.48	
			<i>For 10" WG (Class A), Add</i>	62.50	
			<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13	13-0870	LF	12" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
			<i>For 3" WG (Class B), Add</i>	21.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	46.59	
			<i>For 10" WG (Class A), Add</i>	66.97	
			<i>For Work In Restricted Working Space, Add</i>	43.68	
23 31 13	13-0871	LF	12" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
			<i>For 3" WG (Class B), Add</i>	23.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
			<i>For 10" WG (Class A), Add</i>	71.43	
			<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13	13-0872	LF	12" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
			<i>For 3" WG (Class B), Add</i>	24.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
			<i>For 10" WG (Class A), Add</i>	75.90	
			<i>For Work In Restricted Working Space, Add</i>	49.50	
23 31 13	13-0873	LF	12" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
			<i>For 3" WG (Class B), Add</i>	26.21	
			<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
			<i>For 10" WG (Class A), Add</i>	80.36	
			<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13	13-0874	LF	12" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
			<i>For 3" WG (Class B), Add</i>	27.66	
			<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
			<i>For 10" WG (Class A), Add</i>	84.83	
			<i>For Work In Restricted Working Space, Add</i>	55.32	
23 31 13	13-0875	LF	12" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
			<i>For 3" WG (Class B), Add</i>	29.12	
			<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
			<i>For 10" WG (Class A), Add</i>	89.29	
			<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13	13-0876	LF	12" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
			<i>For 3" WG (Class B), Add</i>	30.57	
			<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
			<i>For 10" WG (Class A), Add</i>	93.76	
			<i>For Work In Restricted Working Space, Add</i>	61.15	
23 31 13	13-0877	LF	12" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
			<i>For 3" WG (Class B), Add</i>	32.03	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.33	
			<i>For 10" WG (Class A), Add</i>	98.22	
			<i>For Work In Restricted Working Space, Add</i>	64.06	
23 31 13	13-0878	LF	12" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
			<i>For 3" WG (Class B), Add</i>	33.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	71.43	
			<i>For 10" WG (Class A), Add</i>	102.69	
			<i>For Work In Restricted Working Space, Add</i>	66.97	
23 31 13	13-0879	LF	12" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
			<i>For 3" WG (Class B), Add</i>	34.94	
			<i>For 4" Or 6" WG (Class A), Add</i>	74.54	
			<i>For 10" WG (Class A), Add</i>	107.15	
			<i>For Work In Restricted Working Space, Add</i>	69.88	
23 31 13	13-0880	LF	14" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
			<i>For 3" WG (Class B), Add</i>	20.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	43.48	
			<i>For 10" WG (Class A), Add</i>	62.50	
			<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13	13-0881	LF	14" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
			<i>For 3" WG (Class B), Add</i>	21.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	46.59	
			<i>For 10" WG (Class A), Add</i>	66.97	
			<i>For Work In Restricted Working Space, Add</i>	43.68	
23 31 13	13-0882	LF	14" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
			<i>For 3" WG (Class B), Add</i>	23.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
			<i>For 10" WG (Class A), Add</i>	71.43	
			<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13	13-0883	LF	14" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
			<i>For 3" WG (Class B), Add</i>	24.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
			<i>For 10" WG (Class A), Add</i>	75.90	
			<i>For Work In Restricted Working Space, Add</i>	49.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0884 LF 14" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0885 LF 14" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	
23 31 13 13-0886 LF 14" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
<i>For 3" WG (Class B), Add</i>	29.12	
<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
<i>For 10" WG (Class A), Add</i>	89.29	
<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13 13-0887 LF 14" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
<i>For 3" WG (Class B), Add</i>	30.57	
<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
<i>For 10" WG (Class A), Add</i>	93.76	
<i>For Work In Restricted Working Space, Add</i>	61.15	
23 31 13 13-0888 LF 14" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
<i>For 3" WG (Class B), Add</i>	32.03	
<i>For 4" Or 6" WG (Class A), Add</i>	68.33	
<i>For 10" WG (Class A), Add</i>	98.22	
<i>For Work In Restricted Working Space, Add</i>	64.06	
23 31 13 13-0889 LF 14" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
<i>For 3" WG (Class B), Add</i>	33.48	
<i>For 4" Or 6" WG (Class A), Add</i>	71.43	
<i>For 10" WG (Class A), Add</i>	102.69	
<i>For Work In Restricted Working Space, Add</i>	66.97	
23 31 13 13-0890 LF 14" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
<i>For 3" WG (Class B), Add</i>	34.94	
<i>For 4" Or 6" WG (Class A), Add</i>	74.54	
<i>For 10" WG (Class A), Add</i>	107.15	
<i>For Work In Restricted Working Space, Add</i>	69.88	
23 31 13 13-0891 LF 14" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
<i>For 3" WG (Class B), Add</i>	36.40	
<i>For 4" Or 6" WG (Class A), Add</i>	77.64	
<i>For 10" WG (Class A), Add</i>	111.61	
<i>For Work In Restricted Working Space, Add</i>	72.79	
23 31 13 13-0892 LF 16" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
<i>For 3" WG (Class B), Add</i>	23.29	
<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
<i>For 10" WG (Class A), Add</i>	71.43	
<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13 13-0893 LF 16" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
<i>For 3" WG (Class B), Add</i>	24.75	
<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
<i>For 10" WG (Class A), Add</i>	75.90	
<i>For Work In Restricted Working Space, Add</i>	49.50	
23 31 13 13-0894 LF 16" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0895 LF 16" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	
23 31 13 13-0896 LF 16" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
<i>For 3" WG (Class B), Add</i>	29.12	
<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
<i>For 10" WG (Class A), Add</i>	89.29	
<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13 13-0897 LF 16" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
<i>For 3" WG (Class B), Add</i>	30.57	
<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
<i>For 10" WG (Class A), Add</i>	93.76	
<i>For Work In Restricted Working Space, Add</i>	61.15	
23 31 13 13-0898 LF 16" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
<i>For 3" WG (Class B), Add</i>	32.03	
<i>For 4" Or 6" WG (Class A), Add</i>	68.33	
<i>For 10" WG (Class A), Add</i>	98.22	
<i>For Work In Restricted Working Space, Add</i>	64.06	
23 31 13 13-0899 LF 16" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
<i>For 3" WG (Class B), Add</i>	33.48	
<i>For 4" Or 6" WG (Class A), Add</i>	71.43	
<i>For 10" WG (Class A), Add</i>	102.69	
<i>For Work In Restricted Working Space, Add</i>	66.97	
23 31 13 13-0900 LF 16" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
<i>For 3" WG (Class B), Add</i>	34.94	
<i>For 4" Or 6" WG (Class A), Add</i>	74.54	
<i>For 10" WG (Class A), Add</i>	107.15	
<i>For Work In Restricted Working Space, Add</i>	69.88	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0901	LF 16" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
			For 3" WG (Class B), Add	36.40	
			For 4" Or 6" WG (Class A), Add	77.64	
			For 10" WG (Class A), Add	111.61	
			For Work In Restricted Working Space, Add	72.79	
23 31	13	13-0902	LF 16" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
			For 3" WG (Class B), Add	37.85	
			For 4" Or 6" WG (Class A), Add	80.75	
			For 10" WG (Class A), Add	116.08	
			For Work In Restricted Working Space, Add	75.70	
23 31	13	13-0903	LF 16" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
			For 3" WG (Class B), Add	39.31	
			For 4" Or 6" WG (Class A), Add	83.86	
			For 10" WG (Class A), Add	120.55	
			For Work In Restricted Working Space, Add	78.62	
23 31	13	13-0904	LF 16" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
			For 3" WG (Class B), Add	40.76	
			For 4" Or 6" WG (Class A), Add	86.96	
			For 10" WG (Class A), Add	125.01	
			For Work In Restricted Working Space, Add	81.53	
23 31	13	13-0905	LF 16" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
			For 3" WG (Class B), Add	42.22	
			For 4" Or 6" WG (Class A), Add	90.07	
			For 10" WG (Class A), Add	129.47	
			For Work In Restricted Working Space, Add	84.44	
23 31	13	13-0906	LF 16" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
			For 3" WG (Class B), Add	43.68	
			For 4" Or 6" WG (Class A), Add	93.17	
			For 10" WG (Class A), Add	133.94	
			For Work In Restricted Working Space, Add	87.35	
23 31	13	13-0907	LF 18" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
			For 3" WG (Class B), Add	26.21	
			For 4" Or 6" WG (Class A), Add	55.90	
			For 10" WG (Class A), Add	80.36	
			For Work In Restricted Working Space, Add	52.41	
23 31	13	13-0908	LF 18" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
			For 3" WG (Class B), Add	27.66	
			For 4" Or 6" WG (Class A), Add	59.01	
			For 10" WG (Class A), Add	84.83	
			For Work In Restricted Working Space, Add	55.32	
23 31	13	13-0909	LF 18" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
			For 3" WG (Class B), Add	29.12	
			For 4" Or 6" WG (Class A), Add	62.12	
			For 10" WG (Class A), Add	89.29	
			For Work In Restricted Working Space, Add	58.23	
23 31	13	13-0910	LF 18" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
			For 3" WG (Class B), Add	30.57	
			For 4" Or 6" WG (Class A), Add	65.22	
			For 10" WG (Class A), Add	93.76	
			For Work In Restricted Working Space, Add	61.15	
23 31	13	13-0911	LF 18" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
			For 3" WG (Class B), Add	32.03	
			For 4" Or 6" WG (Class A), Add	68.33	
			For 10" WG (Class A), Add	98.22	
			For Work In Restricted Working Space, Add	64.06	
23 31	13	13-0912	LF 18" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
			For 3" WG (Class B), Add	33.48	
			For 4" Or 6" WG (Class A), Add	71.43	
			For 10" WG (Class A), Add	102.69	
			For Work In Restricted Working Space, Add	66.97	
23 31	13	13-0913	LF 18" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
			For 3" WG (Class B), Add	34.94	
			For 4" Or 6" WG (Class A), Add	74.54	
			For 10" WG (Class A), Add	107.15	
			For Work In Restricted Working Space, Add	69.88	
23 31	13	13-0914	LF 18" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
			For 3" WG (Class B), Add	36.40	
			For 4" Or 6" WG (Class A), Add	77.64	
			For 10" WG (Class A), Add	111.61	
			For Work In Restricted Working Space, Add	72.79	
23 31	13	13-0915	LF 18" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
			For 3" WG (Class B), Add	37.85	
			For 4" Or 6" WG (Class A), Add	80.75	
			For 10" WG (Class A), Add	116.08	
			For Work In Restricted Working Space, Add	75.70	
23 31	13	13-0916	LF 18" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
			For 3" WG (Class B), Add	39.31	
			For 4" Or 6" WG (Class A), Add	83.86	
			For 10" WG (Class A), Add	120.55	
			For Work In Restricted Working Space, Add	78.62	
23 31	13	13-0917	LF 18" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
			For 3" WG (Class B), Add	40.76	
			For 4" Or 6" WG (Class A), Add	86.96	
			For 10" WG (Class A), Add	125.01	
			For Work In Restricted Working Space, Add	81.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0918 LF 18" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
<i>For 3" WG (Class B), Add</i>	42.22	
<i>For 4" Or 6" WG (Class A), Add</i>	90.07	
<i>For 10" WG (Class A), Add</i>	129.47	
<i>For Work In Restricted Working Space, Add</i>	84.44	
23 31 13 13-0919 LF 18" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0920 LF 18" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
<i>For 3" WG (Class B), Add</i>	45.13	
<i>For 4" Or 6" WG (Class A), Add</i>	96.28	
<i>For 10" WG (Class A), Add</i>	138.40	
<i>For Work In Restricted Working Space, Add</i>	90.26	
23 31 13 13-0921 LF 18" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	
23 31 13 13-0922 LF 20" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
<i>For 3" WG (Class B), Add</i>	29.12	
<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
<i>For 10" WG (Class A), Add</i>	89.29	
<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13 13-0923 LF 20" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
<i>For 3" WG (Class B), Add</i>	30.57	
<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
<i>For 10" WG (Class A), Add</i>	93.76	
<i>For Work In Restricted Working Space, Add</i>	61.15	
23 31 13 13-0924 LF 20" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
<i>For 3" WG (Class B), Add</i>	32.03	
<i>For 4" Or 6" WG (Class A), Add</i>	68.33	
<i>For 10" WG (Class A), Add</i>	98.22	
<i>For Work In Restricted Working Space, Add</i>	64.06	
23 31 13 13-0925 LF 20" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
<i>For 3" WG (Class B), Add</i>	33.48	
<i>For 4" Or 6" WG (Class A), Add</i>	71.43	
<i>For 10" WG (Class A), Add</i>	102.69	
<i>For Work In Restricted Working Space, Add</i>	66.97	
23 31 13 13-0926 LF 20" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
<i>For 3" WG (Class B), Add</i>	34.94	
<i>For 4" Or 6" WG (Class A), Add</i>	74.54	
<i>For 10" WG (Class A), Add</i>	107.15	
<i>For Work In Restricted Working Space, Add</i>	69.88	
23 31 13 13-0927 LF 20" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
<i>For 3" WG (Class B), Add</i>	36.40	
<i>For 4" Or 6" WG (Class A), Add</i>	77.64	
<i>For 10" WG (Class A), Add</i>	111.61	
<i>For Work In Restricted Working Space, Add</i>	72.79	
23 31 13 13-0928 LF 20" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
<i>For 3" WG (Class B), Add</i>	37.85	
<i>For 4" Or 6" WG (Class A), Add</i>	80.75	
<i>For 10" WG (Class A), Add</i>	116.08	
<i>For Work In Restricted Working Space, Add</i>	75.70	
23 31 13 13-0929 LF 20" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
<i>For 3" WG (Class B), Add</i>	39.31	
<i>For 4" Or 6" WG (Class A), Add</i>	83.86	
<i>For 10" WG (Class A), Add</i>	120.55	
<i>For Work In Restricted Working Space, Add</i>	78.62	
23 31 13 13-0930 LF 20" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
<i>For 3" WG (Class B), Add</i>	40.76	
<i>For 4" Or 6" WG (Class A), Add</i>	86.96	
<i>For 10" WG (Class A), Add</i>	125.01	
<i>For Work In Restricted Working Space, Add</i>	81.53	
23 31 13 13-0931 LF 20" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
<i>For 3" WG (Class B), Add</i>	42.22	
<i>For 4" Or 6" WG (Class A), Add</i>	90.07	
<i>For 10" WG (Class A), Add</i>	129.47	
<i>For Work In Restricted Working Space, Add</i>	84.44	
23 31 13 13-0932 LF 20" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0933 LF 20" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
<i>For 3" WG (Class B), Add</i>	45.13	
<i>For 4" Or 6" WG (Class A), Add</i>	96.28	
<i>For 10" WG (Class A), Add</i>	138.40	
<i>For Work In Restricted Working Space, Add</i>	90.26	
23 31 13 13-0934 LF 20" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0935	LF	20" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
			For 3" WG (Class B), Add	48.04	
			For 4" Or 6" WG (Class A), Add	102.49	
			For 10" WG (Class A), Add	147.33	
			For Work In Restricted Working Space, Add	96.09	
23 31 13	13-0936	LF	22" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
			For 3" WG (Class B), Add	49.50	
			For 4" Or 6" WG (Class A), Add	105.60	
			For 10" WG (Class A), Add	151.80	
			For Work In Restricted Working Space, Add	99.00	
23 31 13	13-0937	LF	22" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
			For 3" WG (Class B), Add	32.03	
			For 4" Or 6" WG (Class A), Add	68.33	
			For 10" WG (Class A), Add	98.22	
			For Work In Restricted Working Space, Add	64.06	
23 31 13	13-0938	LF	22" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
			For 3" WG (Class B), Add	33.48	
			For 4" Or 6" WG (Class A), Add	71.43	
			For 10" WG (Class A), Add	102.69	
			For Work In Restricted Working Space, Add	66.97	
23 31 13	13-0939	LF	22" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
			For 3" WG (Class B), Add	34.94	
			For 4" Or 6" WG (Class A), Add	74.54	
			For 10" WG (Class A), Add	107.15	
			For Work In Restricted Working Space, Add	69.88	
23 31 13	13-0940	LF	22" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
			For 3" WG (Class B), Add	36.40	
			For 4" Or 6" WG (Class A), Add	77.64	
			For 10" WG (Class A), Add	111.61	
			For Work In Restricted Working Space, Add	72.79	
23 31 13	13-0941	LF	22" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
			For 3" WG (Class B), Add	37.85	
			For 4" Or 6" WG (Class A), Add	80.75	
			For 10" WG (Class A), Add	116.08	
			For Work In Restricted Working Space, Add	75.70	
23 31 13	13-0942	LF	22" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
			For 3" WG (Class B), Add	39.31	
			For 4" Or 6" WG (Class A), Add	83.86	
			For 10" WG (Class A), Add	120.55	
			For Work In Restricted Working Space, Add	78.62	
23 31 13	13-0943	LF	22" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
			For 3" WG (Class B), Add	40.76	
			For 4" Or 6" WG (Class A), Add	86.96	
			For 10" WG (Class A), Add	125.01	
			For Work In Restricted Working Space, Add	81.53	
23 31 13	13-0944	LF	22" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
			For 3" WG (Class B), Add	42.22	
			For 4" Or 6" WG (Class A), Add	90.07	
			For 10" WG (Class A), Add	129.47	
			For Work In Restricted Working Space, Add	84.44	
23 31 13	13-0945	LF	22" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
			For 3" WG (Class B), Add	43.68	
			For 4" Or 6" WG (Class A), Add	93.17	
			For 10" WG (Class A), Add	133.94	
			For Work In Restricted Working Space, Add	87.35	
23 31 13	13-0946	LF	22" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
			For 3" WG (Class B), Add	45.13	
			For 4" Or 6" WG (Class A), Add	96.28	
			For 10" WG (Class A), Add	138.40	
			For Work In Restricted Working Space, Add	90.26	
23 31 13	13-0947	LF	22" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
			For 3" WG (Class B), Add	46.59	
			For 4" Or 6" WG (Class A), Add	99.39	
			For 10" WG (Class A), Add	142.87	
			For Work In Restricted Working Space, Add	93.18	
23 31 13	13-0948	LF	22" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
			For 3" WG (Class B), Add	48.04	
			For 4" Or 6" WG (Class A), Add	102.49	
			For 10" WG (Class A), Add	147.33	
			For Work In Restricted Working Space, Add	96.09	
23 31 13	13-0949	LF	22" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
			For 3" WG (Class B), Add	49.50	
			For 4" Or 6" WG (Class A), Add	105.60	
			For 10" WG (Class A), Add	151.80	
			For Work In Restricted Working Space, Add	99.00	
23 31 13	13-0950	LF	22" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
			For 3" WG (Class B), Add	50.96	
			For 4" Or 6" WG (Class A), Add	108.70	
			For 10" WG (Class A), Add	156.26	
			For Work In Restricted Working Space, Add	101.91	
23 31 13	13-0951	LF	24" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
			For 3" WG (Class B), Add	34.94	
			For 4" Or 6" WG (Class A), Add	74.54	
			For 10" WG (Class A), Add	107.15	
			For Work In Restricted Working Space, Add	69.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0952 LF 24" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
<i>For 3" WG (Class B), Add</i>	36.40	
<i>For 4" Or 6" WG (Class A), Add</i>	77.64	
<i>For 10" WG (Class A), Add</i>	111.61	
<i>For Work In Restricted Working Space, Add</i>	72.79	
23 31 13 13-0953 LF 24" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
<i>For 3" WG (Class B), Add</i>	37.85	
<i>For 4" Or 6" WG (Class A), Add</i>	80.75	
<i>For 10" WG (Class A), Add</i>	116.08	
<i>For Work In Restricted Working Space, Add</i>	75.70	
23 31 13 13-0954 LF 24" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
<i>For 3" WG (Class B), Add</i>	39.31	
<i>For 4" Or 6" WG (Class A), Add</i>	83.86	
<i>For 10" WG (Class A), Add</i>	120.55	
<i>For Work In Restricted Working Space, Add</i>	78.62	
23 31 13 13-0955 LF 24" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
<i>For 3" WG (Class B), Add</i>	40.76	
<i>For 4" Or 6" WG (Class A), Add</i>	86.96	
<i>For 10" WG (Class A), Add</i>	125.01	
<i>For Work In Restricted Working Space, Add</i>	81.53	
23 31 13 13-0956 LF 24" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
<i>For 3" WG (Class B), Add</i>	42.22	
<i>For 4" Or 6" WG (Class A), Add</i>	90.07	
<i>For 10" WG (Class A), Add</i>	129.47	
<i>For Work In Restricted Working Space, Add</i>	84.44	
23 31 13 13-0957 LF 24" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0958 LF 24" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
<i>For 3" WG (Class B), Add</i>	45.13	
<i>For 4" Or 6" WG (Class A), Add</i>	96.28	
<i>For 10" WG (Class A), Add</i>	138.40	
<i>For Work In Restricted Working Space, Add</i>	90.26	
23 31 13 13-0959 LF 24" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	
23 31 13 13-0960 LF 24" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
<i>For 3" WG (Class B), Add</i>	48.04	
<i>For 4" Or 6" WG (Class A), Add</i>	102.49	
<i>For 10" WG (Class A), Add</i>	147.33	
<i>For Work In Restricted Working Space, Add</i>	96.09	
23 31 13 13-0961 LF 24" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-0962 LF 24" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-0963 LF 24" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-0964 LF 26" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
<i>For 3" WG (Class B), Add</i>	37.85	
<i>For 4" Or 6" WG (Class A), Add</i>	80.75	
<i>For 10" WG (Class A), Add</i>	116.08	
<i>For Work In Restricted Working Space, Add</i>	75.70	
23 31 13 13-0965 LF 26" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
<i>For 3" WG (Class B), Add</i>	39.31	
<i>For 4" Or 6" WG (Class A), Add</i>	83.86	
<i>For 10" WG (Class A), Add</i>	120.55	
<i>For Work In Restricted Working Space, Add</i>	78.62	
23 31 13 13-0966 LF 26" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
<i>For 3" WG (Class B), Add</i>	40.76	
<i>For 4" Or 6" WG (Class A), Add</i>	86.96	
<i>For 10" WG (Class A), Add</i>	125.01	
<i>For Work In Restricted Working Space, Add</i>	81.53	
23 31 13 13-0967 LF 26" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
<i>For 3" WG (Class B), Add</i>	42.22	
<i>For 4" Or 6" WG (Class A), Add</i>	90.07	
<i>For 10" WG (Class A), Add</i>	129.47	
<i>For Work In Restricted Working Space, Add</i>	84.44	
23 31 13 13-0968 LF 26" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0969 LF 26" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
For 3" WG (Class B), Add	45.13	
For 4" Or 6" WG (Class A), Add	96.28	
For 10" WG (Class A), Add	138.40	
For Work In Restricted Working Space, Add	90.26	
23 31 13 13-0970 LF 26" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
For 3" WG (Class B), Add	46.59	
For 4" Or 6" WG (Class A), Add	99.39	
For 10" WG (Class A), Add	142.87	
For Work In Restricted Working Space, Add	93.18	
23 31 13 13-0971 LF 26" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
For 3" WG (Class B), Add	48.04	
For 4" Or 6" WG (Class A), Add	102.49	
For 10" WG (Class A), Add	147.33	
For Work In Restricted Working Space, Add	96.09	
23 31 13 13-0972 LF 26" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
For 3" WG (Class B), Add	49.50	
For 4" Or 6" WG (Class A), Add	105.60	
For 10" WG (Class A), Add	151.80	
For Work In Restricted Working Space, Add	99.00	
23 31 13 13-0973 LF 26" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
For 3" WG (Class B), Add	50.96	
For 4" Or 6" WG (Class A), Add	108.70	
For 10" WG (Class A), Add	156.26	
For Work In Restricted Working Space, Add	101.91	
23 31 13 13-0974 LF 26" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
For 3" WG (Class B), Add	52.41	
For 4" Or 6" WG (Class A), Add	111.81	
For 10" WG (Class A), Add	160.72	
For Work In Restricted Working Space, Add	104.82	
23 31 13 13-0975 LF 26" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
For 3" WG (Class B), Add	53.87	
For 4" Or 6" WG (Class A), Add	114.92	
For 10" WG (Class A), Add	165.19	
For Work In Restricted Working Space, Add	107.73	
23 31 13 13-0976 LF 28" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
For 3" WG (Class B), Add	40.76	
For 4" Or 6" WG (Class A), Add	86.96	
For 10" WG (Class A), Add	125.01	
For Work In Restricted Working Space, Add	81.53	
23 31 13 13-0977 LF 28" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
For 3" WG (Class B), Add	42.22	
For 4" Or 6" WG (Class A), Add	90.07	
For 10" WG (Class A), Add	129.47	
For Work In Restricted Working Space, Add	84.44	
23 31 13 13-0978 LF 28" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
For 3" WG (Class B), Add	43.68	
For 4" Or 6" WG (Class A), Add	93.17	
For 10" WG (Class A), Add	133.94	
For Work In Restricted Working Space, Add	87.35	
23 31 13 13-0979 LF 28" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
For 3" WG (Class B), Add	45.13	
For 4" Or 6" WG (Class A), Add	96.28	
For 10" WG (Class A), Add	138.40	
For Work In Restricted Working Space, Add	90.26	
23 31 13 13-0980 LF 28" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
For 3" WG (Class B), Add	46.59	
For 4" Or 6" WG (Class A), Add	99.39	
For 10" WG (Class A), Add	142.87	
For Work In Restricted Working Space, Add	93.18	
23 31 13 13-0981 LF 28" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
For 3" WG (Class B), Add	48.04	
For 4" Or 6" WG (Class A), Add	102.49	
For 10" WG (Class A), Add	147.33	
For Work In Restricted Working Space, Add	96.09	
23 31 13 13-0982 LF 28" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
For 3" WG (Class B), Add	49.50	
For 4" Or 6" WG (Class A), Add	105.60	
For 10" WG (Class A), Add	151.80	
For Work In Restricted Working Space, Add	99.00	
23 31 13 13-0983 LF 28" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
For 3" WG (Class B), Add	50.96	
For 4" Or 6" WG (Class A), Add	108.70	
For 10" WG (Class A), Add	156.26	
For Work In Restricted Working Space, Add	101.91	
23 31 13 13-0984 LF 28" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
For 3" WG (Class B), Add	52.41	
For 4" Or 6" WG (Class A), Add	111.81	
For 10" WG (Class A), Add	160.72	
For Work In Restricted Working Space, Add	104.82	
23 31 13 13-0985 LF 28" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
For 3" WG (Class B), Add	53.87	
For 4" Or 6" WG (Class A), Add	114.92	
For 10" WG (Class A), Add	165.19	
For Work In Restricted Working Space, Add	107.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0986 LF 28" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
<i>For 3" WG (Class B), Add</i>	55.32	
<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
<i>For 10" WG (Class A), Add</i>	169.66	
<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31 13 13-0987 LF 30" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0988 LF 30" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
<i>For 3" WG (Class B), Add</i>	45.13	
<i>For 4" Or 6" WG (Class A), Add</i>	96.28	
<i>For 10" WG (Class A), Add</i>	138.40	
<i>For Work In Restricted Working Space, Add</i>	90.26	
23 31 13 13-0989 LF 30" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	
23 31 13 13-0990 LF 30" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
<i>For 3" WG (Class B), Add</i>	48.04	
<i>For 4" Or 6" WG (Class A), Add</i>	102.49	
<i>For 10" WG (Class A), Add</i>	147.33	
<i>For Work In Restricted Working Space, Add</i>	96.09	
23 31 13 13-0991 LF 30" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-0992 LF 30" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-0993 LF 30" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-0994 LF 30" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
<i>For 3" WG (Class B), Add</i>	53.87	
<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
<i>For 10" WG (Class A), Add</i>	165.19	
<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31 13 13-0995 LF 30" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
<i>For 3" WG (Class B), Add</i>	55.32	
<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
<i>For 10" WG (Class A), Add</i>	169.66	
<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31 13 13-0996 LF 30" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
<i>For 3" WG (Class B), Add</i>	56.78	
<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
<i>For 10" WG (Class A), Add</i>	174.12	
<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31 13 13-0997 LF 32" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	
23 31 13 13-0998 LF 32" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
<i>For 3" WG (Class B), Add</i>	48.04	
<i>For 4" Or 6" WG (Class A), Add</i>	102.49	
<i>For 10" WG (Class A), Add</i>	147.33	
<i>For Work In Restricted Working Space, Add</i>	96.09	
23 31 13 13-0999 LF 32" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-1000 LF 32" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-1001 LF 32" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-1002 LF 32" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
<i>For 3" WG (Class B), Add</i>	53.87	
<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
<i>For 10" WG (Class A), Add</i>	165.19	
<i>For Work In Restricted Working Space, Add</i>	107.73	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 13-1003	LF	32" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
			<i>For 3" WG (Class B), Add</i>	55.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
			<i>For 10" WG (Class A), Add</i>	169.66	
			<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31	13 13-1004	LF	32" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
			<i>For 3" WG (Class B), Add</i>	56.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
			<i>For 10" WG (Class A), Add</i>	174.12	
			<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31	13 13-1005	LF	32" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
			<i>For 3" WG (Class B), Add</i>	58.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
			<i>For 10" WG (Class A), Add</i>	178.59	
			<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31	13 13-1006	LF	34" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
			<i>For 3" WG (Class B), Add</i>	49.50	
			<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
			<i>For 10" WG (Class A), Add</i>	151.80	
			<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31	13 13-1007	LF	34" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
			<i>For 3" WG (Class B), Add</i>	50.96	
			<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
			<i>For 10" WG (Class A), Add</i>	156.26	
			<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31	13 13-1008	LF	34" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
			<i>For 3" WG (Class B), Add</i>	52.41	
			<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
			<i>For 10" WG (Class A), Add</i>	160.72	
			<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31	13 13-1009	LF	34" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
			<i>For 3" WG (Class B), Add</i>	53.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
			<i>For 10" WG (Class A), Add</i>	165.19	
			<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31	13 13-1010	LF	34" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
			<i>For 3" WG (Class B), Add</i>	55.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
			<i>For 10" WG (Class A), Add</i>	169.66	
			<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31	13 13-1011	LF	34" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
			<i>For 3" WG (Class B), Add</i>	56.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
			<i>For 10" WG (Class A), Add</i>	174.12	
			<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31	13 13-1012	LF	34" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
			<i>For 3" WG (Class B), Add</i>	58.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
			<i>For 10" WG (Class A), Add</i>	178.59	
			<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31	13 13-1013	LF	34" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
			<i>For 3" WG (Class B), Add</i>	59.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
			<i>For 10" WG (Class A), Add</i>	183.05	
			<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31	13 13-1014	LF	36" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
			<i>For 3" WG (Class B), Add</i>	52.41	
			<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
			<i>For 10" WG (Class A), Add</i>	160.72	
			<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31	13 13-1015	LF	36" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
			<i>For 3" WG (Class B), Add</i>	53.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
			<i>For 10" WG (Class A), Add</i>	165.19	
			<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31	13 13-1016	LF	36" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
			<i>For 3" WG (Class B), Add</i>	55.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
			<i>For 10" WG (Class A), Add</i>	169.66	
			<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31	13 13-1017	LF	36" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
			<i>For 3" WG (Class B), Add</i>	56.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
			<i>For 10" WG (Class A), Add</i>	174.12	
			<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31	13 13-1018	LF	36" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
			<i>For 3" WG (Class B), Add</i>	58.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
			<i>For 10" WG (Class A), Add</i>	178.59	
			<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31	13 13-1019	LF	36" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
			<i>For 3" WG (Class B), Add</i>	59.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
			<i>For 10" WG (Class A), Add</i>	183.05	
			<i>For Work In Restricted Working Space, Add</i>	119.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1020 LF 36" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
<i>For 3" WG (Class B), Add</i>	61.14	
<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
<i>For 10" WG (Class A), Add</i>	187.51	
<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31 13 13-1021 LF 38" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
<i>For 3" WG (Class B), Add</i>	55.32	
<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
<i>For 10" WG (Class A), Add</i>	169.66	
<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31 13 13-1022 LF 38" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
<i>For 3" WG (Class B), Add</i>	56.78	
<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
<i>For 10" WG (Class A), Add</i>	174.12	
<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31 13 13-1023 LF 38" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
<i>For 3" WG (Class B), Add</i>	58.23	
<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
<i>For 10" WG (Class A), Add</i>	178.59	
<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31 13 13-1024 LF 38" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
<i>For 3" WG (Class B), Add</i>	59.69	
<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
<i>For 10" WG (Class A), Add</i>	183.05	
<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31 13 13-1025 LF 38" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
<i>For 3" WG (Class B), Add</i>	61.14	
<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
<i>For 10" WG (Class A), Add</i>	187.51	
<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31 13 13-1026 LF 38" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.06	250.41
<i>For 3" WG (Class B), Add</i>	62.60	
<i>For 4" Or 6" WG (Class A), Add</i>	133.55	
<i>For 10" WG (Class A), Add</i>	191.98	
<i>For Work In Restricted Working Space, Add</i>	125.20	
23 31 13 13-1027 LF 38" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
<i>For 3" WG (Class B), Add</i>	64.06	
<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
<i>For 10" WG (Class A), Add</i>	196.45	
<i>For Work In Restricted Working Space, Add</i>	128.12	
23 31 13 13-1028 LF 40" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
<i>For 3" WG (Class B), Add</i>	58.23	
<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
<i>For 10" WG (Class A), Add</i>	178.59	
<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31 13 13-1029 LF 40" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
<i>For 3" WG (Class B), Add</i>	59.69	
<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
<i>For 10" WG (Class A), Add</i>	183.05	
<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31 13 13-1030 LF 40" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
<i>For 3" WG (Class B), Add</i>	61.14	
<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
<i>For 10" WG (Class A), Add</i>	187.51	
<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31 13 13-1031 LF 40" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.06	250.41
<i>For 3" WG (Class B), Add</i>	62.60	
<i>For 4" Or 6" WG (Class A), Add</i>	133.55	
<i>For 10" WG (Class A), Add</i>	191.98	
<i>For Work In Restricted Working Space, Add</i>	125.20	
23 31 13 13-1032 LF 40" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
<i>For 3" WG (Class B), Add</i>	64.06	
<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
<i>For 10" WG (Class A), Add</i>	196.45	
<i>For Work In Restricted Working Space, Add</i>	128.12	
23 31 13 13-1033 LF 40" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	486.69	262.06
<i>For 3" WG (Class B), Add</i>	65.51	
<i>For 4" Or 6" WG (Class A), Add</i>	139.76	
<i>For 10" WG (Class A), Add</i>	200.91	
<i>For Work In Restricted Working Space, Add</i>	131.03	
23 31 13 13-1034 LF 40" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
<i>For 3" WG (Class B), Add</i>	66.97	
<i>For 4" Or 6" WG (Class A), Add</i>	142.87	
<i>For 10" WG (Class A), Add</i>	205.37	
<i>For Work In Restricted Working Space, Add</i>	133.94	
23 31 13 13-1035 LF 40" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
<i>For 3" WG (Class B), Add</i>	68.42	
<i>For 4" Or 6" WG (Class A), Add</i>	145.97	
<i>For 10" WG (Class A), Add</i>	209.83	
<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13 13-1036 LF 40" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
<i>For 3" WG (Class B), Add</i>	69.88	
<i>For 4" Or 6" WG (Class A), Add</i>	149.08	
<i>For 10" WG (Class A), Add</i>	214.30	
<i>For Work In Restricted Working Space, Add</i>	139.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-1037	LF	42" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
			<i>For 3" WG (Class B), Add</i>	61.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
			<i>For 10" WG (Class A), Add</i>	187.51	
			<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31 13	13-1038	LF	42" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.06	250.41
			<i>For 3" WG (Class B), Add</i>	62.60	
			<i>For 4" Or 6" WG (Class A), Add</i>	133.55	
			<i>For 10" WG (Class A), Add</i>	191.98	
			<i>For Work In Restricted Working Space, Add</i>	125.20	
23 31 13	13-1039	LF	42" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
			<i>For 3" WG (Class B), Add</i>	64.06	
			<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
			<i>For 10" WG (Class A), Add</i>	196.45	
			<i>For Work In Restricted Working Space, Add</i>	128.12	
23 31 13	13-1040	LF	42" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	486.69	262.06
			<i>For 3" WG (Class B), Add</i>	65.51	
			<i>For 4" Or 6" WG (Class A), Add</i>	139.76	
			<i>For 10" WG (Class A), Add</i>	200.91	
			<i>For Work In Restricted Working Space, Add</i>	131.03	
23 31 13	13-1041	LF	42" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
			<i>For 3" WG (Class B), Add</i>	66.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	142.87	
			<i>For 10" WG (Class A), Add</i>	205.37	
			<i>For Work In Restricted Working Space, Add</i>	133.94	
23 31 13	13-1042	LF	42" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
			<i>For 3" WG (Class B), Add</i>	68.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	145.97	
			<i>For 10" WG (Class A), Add</i>	209.83	
			<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13	13-1043	LF	42" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
			<i>For 3" WG (Class B), Add</i>	69.88	
			<i>For 4" Or 6" WG (Class A), Add</i>	149.08	
			<i>For 10" WG (Class A), Add</i>	214.30	
			<i>For Work In Restricted Working Space, Add</i>	139.76	
23 31 13	13-1044	LF	42" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
			<i>For 3" WG (Class B), Add</i>	71.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	152.18	
			<i>For 10" WG (Class A), Add</i>	218.76	
			<i>For Work In Restricted Working Space, Add</i>	142.67	
23 31 13	13-1045	LF	44" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
			<i>For 3" WG (Class B), Add</i>	64.06	
			<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
			<i>For 10" WG (Class A), Add</i>	196.45	
			<i>For Work In Restricted Working Space, Add</i>	128.12	
23 31 13	13-1046	LF	44" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	486.69	262.06
			<i>For 3" WG (Class B), Add</i>	65.51	
			<i>For 4" Or 6" WG (Class A), Add</i>	139.76	
			<i>For 10" WG (Class A), Add</i>	200.91	
			<i>For Work In Restricted Working Space, Add</i>	131.03	
23 31 13	13-1047	LF	44" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
			<i>For 3" WG (Class B), Add</i>	66.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	142.87	
			<i>For 10" WG (Class A), Add</i>	205.37	
			<i>For Work In Restricted Working Space, Add</i>	133.94	
23 31 13	13-1048	LF	44" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
			<i>For 3" WG (Class B), Add</i>	68.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	145.97	
			<i>For 10" WG (Class A), Add</i>	209.83	
			<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13	13-1049	LF	44" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
			<i>For 3" WG (Class B), Add</i>	69.88	
			<i>For 4" Or 6" WG (Class A), Add</i>	149.08	
			<i>For 10" WG (Class A), Add</i>	214.30	
			<i>For Work In Restricted Working Space, Add</i>	139.76	
23 31 13	13-1050	LF	44" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
			<i>For 3" WG (Class B), Add</i>	71.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	152.18	
			<i>For 10" WG (Class A), Add</i>	218.76	
			<i>For Work In Restricted Working Space, Add</i>	142.67	
23 31 13	13-1051	LF	44" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
			<i>For 3" WG (Class B), Add</i>	72.79	
			<i>For 4" Or 6" WG (Class A), Add</i>	155.29	
			<i>For 10" WG (Class A), Add</i>	223.23	
			<i>For Work In Restricted Working Space, Add</i>	145.59	
23 31 13	13-1052	LF	46" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
			<i>For 3" WG (Class B), Add</i>	66.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	142.87	
			<i>For 10" WG (Class A), Add</i>	205.37	
			<i>For Work In Restricted Working Space, Add</i>	133.94	
23 31 13	13-1053	LF	46" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
			<i>For 3" WG (Class B), Add</i>	68.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	145.97	
			<i>For 10" WG (Class A), Add</i>	209.83	
			<i>For Work In Restricted Working Space, Add</i>	136.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1054 LF 46" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
For 3" WG (Class B), Add	69.88	
For 4" Or 6" WG (Class A), Add	149.08	
For 10" WG (Class A), Add	214.30	
For Work In Restricted Working Space, Add	139.76	
23 31 13 13-1055 LF 46" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
For 3" WG (Class B), Add	71.34	
For 4" Or 6" WG (Class A), Add	152.18	
For 10" WG (Class A), Add	218.76	
For Work In Restricted Working Space, Add	142.67	
23 31 13 13-1056 LF 46" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
For 3" WG (Class B), Add	72.79	
For 4" Or 6" WG (Class A), Add	155.29	
For 10" WG (Class A), Add	223.23	
For Work In Restricted Working Space, Add	145.59	
23 31 13 13-1057 LF 46" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	561.29	302.82
For 3" WG (Class B), Add	75.71	
For 4" Or 6" WG (Class A), Add	161.50	
For 10" WG (Class A), Add	232.16	
For Work In Restricted Working Space, Add	151.41	
23 31 13 13-1058 LF 46" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	572.11	308.64
For 3" WG (Class B), Add	77.16	
For 4" Or 6" WG (Class A), Add	164.61	
For 10" WG (Class A), Add	236.62	
For Work In Restricted Working Space, Add	154.32	
23 31 13 13-1059 LF 48" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
For 3" WG (Class B), Add	69.88	
For 4" Or 6" WG (Class A), Add	149.08	
For 10" WG (Class A), Add	214.30	
For Work In Restricted Working Space, Add	139.76	
23 31 13 13-1060 LF 48" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
For 3" WG (Class B), Add	71.34	
For 4" Or 6" WG (Class A), Add	152.18	
For 10" WG (Class A), Add	218.76	
For Work In Restricted Working Space, Add	142.67	
23 31 13 13-1061 LF 48" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
For 3" WG (Class B), Add	72.79	
For 4" Or 6" WG (Class A), Add	155.29	
For 10" WG (Class A), Add	223.23	
For Work In Restricted Working Space, Add	145.59	
23 31 13 13-1062 LF 48" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	551.58	297.00
For 3" WG (Class B), Add	74.25	
For 4" Or 6" WG (Class A), Add	158.40	
For 10" WG (Class A), Add	227.70	
For Work In Restricted Working Space, Add	148.50	
23 31 13 13-1063 LF 48" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	562.41	302.82
For 3" WG (Class B), Add	75.71	
For 4" Or 6" WG (Class A), Add	161.50	
For 10" WG (Class A), Add	232.16	
For Work In Restricted Working Space, Add	151.41	
23 31 13 13-1064 LF 48" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.22	308.64
For 3" WG (Class B), Add	77.16	
For 4" Or 6" WG (Class A), Add	164.61	
For 10" WG (Class A), Add	236.62	
For Work In Restricted Working Space, Add	154.32	
23 31 13 13-1065 LF 48" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
For 3" WG (Class B), Add	78.62	
For 4" Or 6" WG (Class A), Add	167.71	
For 10" WG (Class A), Add	241.09	
For Work In Restricted Working Space, Add	157.23	
23 31 13 13-1066 LF 50" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
For 3" WG (Class B), Add	72.79	
For 4" Or 6" WG (Class A), Add	155.29	
For 10" WG (Class A), Add	223.23	
For Work In Restricted Working Space, Add	145.59	
23 31 13 13-1067 LF 50" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	551.58	297.00
For 3" WG (Class B), Add	74.25	
For 4" Or 6" WG (Class A), Add	158.40	
For 10" WG (Class A), Add	227.70	
For Work In Restricted Working Space, Add	148.50	
23 31 13 13-1068 LF 50" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	562.41	302.82
For 3" WG (Class B), Add	75.71	
For 4" Or 6" WG (Class A), Add	161.50	
For 10" WG (Class A), Add	232.16	
For Work In Restricted Working Space, Add	151.41	
23 31 13 13-1069 LF 50" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.22	308.64
For 3" WG (Class B), Add	77.16	
For 4" Or 6" WG (Class A), Add	164.61	
For 10" WG (Class A), Add	236.62	
For Work In Restricted Working Space, Add	154.32	
23 31 13 13-1070 LF 50" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
For 3" WG (Class B), Add	78.62	
For 4" Or 6" WG (Class A), Add	167.71	
For 10" WG (Class A), Add	241.09	
For Work In Restricted Working Space, Add	157.23	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1071 LF 50" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	594.83	320.29
For 3" WG (Class B), Add	80.07	
For 4" Or 6" WG (Class A), Add	170.82	
For 10" WG (Class A), Add	245.55	
For Work In Restricted Working Space, Add	160.14	
23 31 13 13-1072 LF 52" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	562.41	302.82
For 3" WG (Class B), Add	75.71	
For 4" Or 6" WG (Class A), Add	161.50	
For 10" WG (Class A), Add	232.16	
For Work In Restricted Working Space, Add	151.41	
23 31 13 13-1073 LF 52" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.22	308.64
For 3" WG (Class B), Add	77.16	
For 4" Or 6" WG (Class A), Add	164.61	
For 10" WG (Class A), Add	236.62	
For Work In Restricted Working Space, Add	154.32	
23 31 13 13-1074 LF 52" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
For 3" WG (Class B), Add	78.62	
For 4" Or 6" WG (Class A), Add	167.71	
For 10" WG (Class A), Add	241.09	
For Work In Restricted Working Space, Add	157.23	
23 31 13 13-1075 LF 52" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	594.83	320.29
For 3" WG (Class B), Add	80.07	
For 4" Or 6" WG (Class A), Add	170.82	
For 10" WG (Class A), Add	245.55	
For Work In Restricted Working Space, Add	160.14	
23 31 13 13-1076 LF 52" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	605.66	326.11
For 3" WG (Class B), Add	81.53	
For 4" Or 6" WG (Class A), Add	173.93	
For 10" WG (Class A), Add	250.02	
For Work In Restricted Working Space, Add	163.06	
23 31 13 13-1077 LF 54" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
For 3" WG (Class B), Add	78.62	
For 4" Or 6" WG (Class A), Add	167.71	
For 10" WG (Class A), Add	241.09	
For Work In Restricted Working Space, Add	157.23	
23 31 13 13-1078 LF 54" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	594.83	320.29
For 3" WG (Class B), Add	80.07	
For 4" Or 6" WG (Class A), Add	170.82	
For 10" WG (Class A), Add	245.55	
For Work In Restricted Working Space, Add	160.14	
23 31 13 13-1079 LF 54" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	605.66	326.11
For 3" WG (Class B), Add	81.53	
For 4" Or 6" WG (Class A), Add	173.93	
For 10" WG (Class A), Add	250.02	
For Work In Restricted Working Space, Add	163.06	
23 31 13 13-1080 LF 54" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	616.49	331.93
For 3" WG (Class B), Add	82.98	
For 4" Or 6" WG (Class A), Add	177.03	
For 10" WG (Class A), Add	254.49	
For Work In Restricted Working Space, Add	165.97	
23 31 13 13-1081 LF 54" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	627.29	337.75
For 3" WG (Class B), Add	84.44	
For 4" Or 6" WG (Class A), Add	180.14	
For 10" WG (Class A), Add	258.95	
For Work In Restricted Working Space, Add	168.88	
23 31 13 13-1082 LF 54" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	638.10	343.57
For 3" WG (Class B), Add	85.89	
For 4" Or 6" WG (Class A), Add	183.24	
For 10" WG (Class A), Add	263.41	
For Work In Restricted Working Space, Add	171.79	
23 31 13 13-1083 LF 56" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	605.66	326.11
For 3" WG (Class B), Add	81.53	
For 4" Or 6" WG (Class A), Add	173.93	
For 10" WG (Class A), Add	250.02	
For Work In Restricted Working Space, Add	163.06	
23 31 13 13-1084 LF 56" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	616.49	331.93
For 3" WG (Class B), Add	82.98	
For 4" Or 6" WG (Class A), Add	177.03	
For 10" WG (Class A), Add	254.49	
For Work In Restricted Working Space, Add	165.97	
23 31 13 13-1085 LF 56" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	627.29	337.75
For 3" WG (Class B), Add	84.44	
For 4" Or 6" WG (Class A), Add	180.14	
For 10" WG (Class A), Add	258.95	
For Work In Restricted Working Space, Add	168.88	
23 31 13 13-1086 LF 56" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	638.10	343.57
For 3" WG (Class B), Add	85.89	
For 4" Or 6" WG (Class A), Add	183.24	
For 10" WG (Class A), Add	263.41	
For Work In Restricted Working Space, Add	171.79	
23 31 13 13-1087 LF 56" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	648.92	349.40
For 3" WG (Class B), Add	87.35	
For 4" Or 6" WG (Class A), Add	186.35	
For 10" WG (Class A), Add	267.88	
For Work In Restricted Working Space, Add	174.70	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1088 LF 58" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	627.29 84.44 180.14 258.95 168.88	337.75
23 31 13 13-1089 LF 58" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	638.10 85.89 183.24 263.41 171.79	343.57
23 31 13 13-1090 LF 58" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	648.92 87.35 186.35 267.88 174.70	349.40
23 31 13 13-1091 LF 58" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	659.72 88.81 189.45 272.34 177.61	355.23
23 31 13 13-1092 LF 58" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	670.56 90.26 192.56 276.81 180.53	361.05
23 31 13 13-1093 LF 60" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	648.92 87.35 186.35 267.88 174.70	349.40
23 31 13 13-1094 LF 60" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	659.72 88.81 189.45 272.34 177.61	355.23
23 31 13 13-1095 LF 60" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	670.56 90.26 192.56 276.81 180.53	361.05
23 31 13 13-1096 LF 60" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	681.37 91.72 195.67 281.27 183.44	366.88
23 31 13 13-1097 LF 60" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	692.19 93.18 198.77 285.74 186.35	372.70
23 31 13 13-1098 LF 62" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	670.56 90.26 192.56 276.81 180.53	361.05
23 31 13 13-1099 LF 62" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	681.37 91.72 195.67 281.27 183.44	366.88
23 31 13 13-1100 LF 62" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	692.19 93.18 198.77 285.74 186.35	372.70
23 31 13 13-1101 LF 62" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	702.99 94.63 201.88 290.20 189.26	378.52
23 31 13 13-1102 LF 62" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	713.80 96.09 204.98 294.66 192.17	384.35
23 31 13 13-1103 LF 64" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	692.19 93.18 198.77 285.74 186.35	372.70
23 31 13 13-1104 LF 64" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	702.99 94.63 201.88 290.20 189.26	378.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1105	LF	64" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	713.80 96.09 204.98 294.66 192.17	384.35
23 31 13 13-1106	LF	64" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	724.62 97.54 208.09 299.12 195.08	390.16
23 31 13 13-1107	LF	66" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	713.80 96.09 204.98 294.66 192.17	384.35
23 31 13 13-1108	LF	66" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	724.62 97.54 208.09 299.12 195.08	390.16
23 31 13 13-1109	LF	66" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	735.45 99.00 211.20 303.60 198.00	395.99
23 31 13 13-1110	LF	66" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	746.26 100.45 214.30 308.06 200.91	401.81
23 31 13 13-1111	LF	68" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	735.45 99.00 211.20 303.60 198.00	395.99
23 31 13 13-1112	LF	68" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	746.26 100.45 214.30 308.06 200.91	401.81
23 31 13 13-1113	LF	68" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	757.07 101.91 217.41 312.52 203.82	407.63
23 31 13 13-1114	LF	68" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	767.88 103.37 220.51 316.99 206.73	413.46
23 31 13 13-1115	LF	70" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	757.07 101.91 217.41 312.52 203.82	407.63
23 31 13 13-1116	LF	70" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	767.88 103.37 220.51 316.99 206.73	413.46
23 31 13 13-1117	LF	70" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	778.71 104.82 223.62 321.45 209.64	419.29
23 31 13 13-1118	LF	70" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	789.53 106.28 226.73 325.92 212.56	425.11
23 31 13 13-1119	LF	70" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	800.33 107.73 229.83 330.38 215.47	430.94
23 31 13 13-1120	LF	70" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	811.14 109.19 232.93 334.84 218.38	436.76
23 31 13 13-1121	LF	70" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	821.96 110.64 236.04 339.31 221.29	442.58



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

HVAC Ducts and Casings

23 31

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 13-1122	LF	70" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	832.79 112.10 239.15 343.78 224.20	448.41
23 31	13 13-1123	LF	70" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	843.60 113.56 242.25 348.24 227.11	454.22
23 31	13 13-1124	LF	72" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	778.71 104.82 223.62 321.45 209.64	419.29
23 31	13 13-1125	LF	72" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	789.53 106.28 226.73 325.92 212.56	425.11
23 31	13 13-1126	LF	72" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	800.33 107.73 229.83 330.38 215.47	430.94
23 31	13 13-1127	LF	72" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	811.14 109.19 232.93 334.84 218.38	436.76
23 31	13 13-1128	LF	72" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	821.96 110.64 236.04 339.31 221.29	442.58
23 31	13 13-1129	LF	72" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	832.79 112.10 239.15 343.78 224.20	448.41
23 31	13 13-1130	LF	72" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	843.60 113.56 242.25 348.24 227.11	454.22
23 31	13 13-1131	LF	72" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	854.41 115.01 245.36 352.71 230.03	460.04
23 31	13 13-1132	LF	74" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	800.33 107.73 229.83 330.38 215.47	430.94
23 31	13 13-1133	LF	74" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	811.14 109.19 232.93 334.84 218.38	436.76
23 31	13 13-1134	LF	74" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	821.96 110.64 236.04 339.31 221.29	442.58
23 31	13 13-1135	LF	74" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	832.79 112.10 239.15 343.78 224.20	448.41
23 31	13 13-1136	LF	74" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	843.60 113.56 242.25 348.24 227.11	454.22
23 31	13 13-1137	LF	74" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	854.41 115.01 245.36 352.71 230.03	460.04
23 31	13 13-1138	LF	74" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	865.22 116.47 248.46 357.17 232.94	465.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1139 LF 76" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	821.96	442.58
For 3" WG (Class B), Add	110.64	
For 4" Or 6" WG (Class A), Add	236.04	
For 10" WG (Class A), Add	339.31	
For Work In Restricted Working Space, Add	221.29	
23 31 13 13-1140 LF 76" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	832.79	448.41
For 3" WG (Class B), Add	112.10	
For 4" Or 6" WG (Class A), Add	239.15	
For 10" WG (Class A), Add	343.78	
For Work In Restricted Working Space, Add	224.20	
23 31 13 13-1141 LF 76" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	843.60	454.22
For 3" WG (Class B), Add	113.56	
For 4" Or 6" WG (Class A), Add	242.25	
For 10" WG (Class A), Add	348.24	
For Work In Restricted Working Space, Add	227.11	
23 31 13 13-1142 LF 76" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	854.41	460.04
For 3" WG (Class B), Add	115.01	
For 4" Or 6" WG (Class A), Add	245.36	
For 10" WG (Class A), Add	352.71	
For Work In Restricted Working Space, Add	230.03	
23 31 13 13-1143 LF 76" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
For 3" WG (Class B), Add	116.47	
For 4" Or 6" WG (Class A), Add	248.46	
For 10" WG (Class A), Add	357.17	
For Work In Restricted Working Space, Add	232.94	
23 31 13 13-1144 LF 76" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	876.03	471.69
For 3" WG (Class B), Add	117.92	
For 4" Or 6" WG (Class A), Add	251.57	
For 10" WG (Class A), Add	361.63	
For Work In Restricted Working Space, Add	235.85	
23 31 13 13-1145 LF 78" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	843.60	454.22
For 3" WG (Class B), Add	113.56	
For 4" Or 6" WG (Class A), Add	242.25	
For 10" WG (Class A), Add	348.24	
For Work In Restricted Working Space, Add	227.11	
23 31 13 13-1146 LF 78" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	854.41	460.04
For 3" WG (Class B), Add	115.01	
For 4" Or 6" WG (Class A), Add	245.36	
For 10" WG (Class A), Add	352.71	
For Work In Restricted Working Space, Add	230.03	
23 31 13 13-1147 LF 78" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
For 3" WG (Class B), Add	116.47	
For 4" Or 6" WG (Class A), Add	248.46	
For 10" WG (Class A), Add	357.17	
For Work In Restricted Working Space, Add	232.94	
23 31 13 13-1148 LF 78" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	876.03	471.69
For 3" WG (Class B), Add	117.92	
For 4" Or 6" WG (Class A), Add	251.57	
For 10" WG (Class A), Add	361.63	
For Work In Restricted Working Space, Add	235.85	
23 31 13 13-1149 LF 78" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	886.86	477.51
For 3" WG (Class B), Add	119.38	
For 4" Or 6" WG (Class A), Add	254.68	
For 10" WG (Class A), Add	366.10	
For Work In Restricted Working Space, Add	238.76	
23 31 13 13-1150 LF 80" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
For 3" WG (Class B), Add	116.47	
For 4" Or 6" WG (Class A), Add	248.46	
For 10" WG (Class A), Add	357.17	
For Work In Restricted Working Space, Add	232.94	
23 31 13 13-1151 LF 80" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	876.03	471.69
For 3" WG (Class B), Add	117.92	
For 4" Or 6" WG (Class A), Add	251.57	
For 10" WG (Class A), Add	361.63	
For Work In Restricted Working Space, Add	235.85	
23 31 13 13-1152 LF 80" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	886.86	477.51
For 3" WG (Class B), Add	119.38	
For 4" Or 6" WG (Class A), Add	254.68	
For 10" WG (Class A), Add	366.10	
For Work In Restricted Working Space, Add	238.76	
23 31 13 13-1153 LF 80" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	907.37	489.17
For 3" WG (Class B), Add	122.29	
For 4" Or 6" WG (Class A), Add	260.89	
For 10" WG (Class A), Add	375.02	
For Work In Restricted Working Space, Add	244.58	
23 31 13 13-1154 LF 82" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	886.86	477.51
For 3" WG (Class B), Add	119.38	
For 4" Or 6" WG (Class A), Add	254.68	
For 10" WG (Class A), Add	366.10	
For Work In Restricted Working Space, Add	238.76	
23 31 13 13-1155 LF 82" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	897.67	483.35
For 3" WG (Class B), Add	120.84	
For 4" Or 6" WG (Class A), Add	257.78	
For 10" WG (Class A), Add	370.56	
For Work In Restricted Working Space, Add	241.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1156 LF 82" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	908.48	489.17
For 3" WG (Class B), Add	122.29	
For 4" Or 6" WG (Class A), Add	260.89	
For 10" WG (Class A), Add	375.02	
For Work In Restricted Working Space, Add	244.58	
23 31 13 13-1157 LF 84" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	908.48	489.17
For 3" WG (Class B), Add	122.29	
For 4" Or 6" WG (Class A), Add	260.89	
For 10" WG (Class A), Add	375.02	
For Work In Restricted Working Space, Add	244.58	
23 31 13 13-1158 LF 84" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	919.31	494.99
For 3" WG (Class B), Add	123.75	
For 4" Or 6" WG (Class A), Add	264.00	
For 10" WG (Class A), Add	379.50	
For Work In Restricted Working Space, Add	247.50	
23 31 13 13-1159 LF 86" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	930.11	500.82
For 3" WG (Class B), Add	125.20	
For 4" Or 6" WG (Class A), Add	267.10	
For 10" WG (Class A), Add	383.96	
For Work In Restricted Working Space, Add	250.41	
23 31 13 13-1160 Rework Sheet Metal Ductwork <small>(23 31 13 13)</small>		
Note: Includes removal of existing ductwork and reinstallation of ductwork. Excludes new ductwork.		
23 31 13 13-1161 LF Up To 1 SF Cross Section, Rework Existing Ductwork.....	34.45	
23 31 13 13-1162 LF >1 To 2 SF Cross Section, Rework Existing Ductwork.....	67.18	
23 31 13 13-1163 LF >2 To 4 SF Cross Section, Rework Existing Ductwork.....	88.77	
23 31 13 13-1164 LF >4 To 6 SF Cross Section, Rework Existing Ductwork.....	111.17	
23 31 13 13-1165 LF >6 To 8 SF Cross Section, Rework Existing Ductwork.....	155.04	
23 31 13 13-1166 LF >8 To 10 SF Cross Section, Rework Existing Ductwork.....	180.87	
23 31 13 13-1167 LF >10 To 12 SF Cross Section, Rework Existing Ductwork.....	206.71	
23 31 13 13-1168 LF >12 To 14 SF Cross Section, Rework Existing Ductwork.....	232.55	
23 31 13 16 Round and Flat-Oval Spiral Ducts <small>(23 31 13)</small>		
23 31 13 16-0001 Low Pressure Round And Flat-Oval Duct <small>(23 31 13 16)</small>		
Note: 7" diameter round = 4" x 11.85" flat oval. 8" diameter round = 4" x 15" flat oval. 10" diameter round = 4" x 25.99" or 6" x 15.42" or 8" x 11.14" flat oval. 12" diameter round = 6" x 23.28" or 8" x 15.85" flat oval. 14" diameter round = 6" x 32.70" or 8" x 22.14" or 10" x 17.85 or 12" x 15.14" flat oval. 16" diameter round = 6" x 43.70" or 8" x 29.99" or 10" x 24.14" or 12" x 19.85" or 14" x 17.14" flat oval. 18" diameter round = 6" x 59.41" or 8" x 39.42" or 10" x 30.42" or 12" x 24.57" or 14" x 21.85" or 16" x 19.14" flat oval. 20" diameter round = 8" x 51.98" or 10" x 38.27" or 12" x 30.85" or 14" x 26.57" or 16" x 23.85" or 18" x 21.14" flat oval. Includes sealing the joints by tape, mastic, or spray on sealer.		
23 31 13 16-0002 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Ducts <small>(23 31 13 16-0001)</small>		
Note: Includes straps and supports.		
23 31 13 16-0003 LF 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	7.24	3.08
For 3" WG (Class B), Add	0.95	
For 4" Or 6" WG (Class A), Add	2.52	
For 28 Gauge, Deduct	-0.13	
For 24 Gauge, Add	0.13	
For 22 Gauge, Add	0.26	
For 20 Gauge, Add	0.39	
For 18 Gauge, Add	0.52	
For 16 Gauge, Add	0.63	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.70	
For Work In Restricted Working Space, Add	1.89	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.52	
For Elevated Installation >35' To 40', Add	3.15	
For Elevated Installation >40', Add	3.47	
23 31 13 16-0004 LF 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	8.20	3.50
For 3" WG (Class B), Add	1.05	
For 4" Or 6" WG (Class A), Add	2.80	
For 28 Gauge, Deduct	-0.17	
For 24 Gauge, Add	0.17	
For 22 Gauge, Add	0.33	
For 20 Gauge, Add	0.50	
For 18 Gauge, Add	0.66	
For 16 Gauge, Add	0.81	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.89	
For Work In Restricted Working Space, Add	2.10	
For Elevated Installation >10' To 15', Add	0.70	
For Elevated Installation >15' To 20', Add	1.40	
For Elevated Installation >20' To 25', Add	1.75	
For Elevated Installation >25' To 30', Add	2.45	
For Elevated Installation >30' To 35', Add	2.80	
For Elevated Installation >35' To 40', Add	3.50	
For Elevated Installation >40', Add	3.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0005	LF		6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	9.25	4.19
			For 3" WG (Class B), Add	1.18	
			For 4" Or 6" WG (Class A), Add	3.15	
			For 28 Gauge, Deduct	-0.19	
			For 24 Gauge, Add	0.19	
			For 22 Gauge, Add	0.38	
			For 20 Gauge, Add	0.57	
			For 18 Gauge, Add	0.75	
			For 16 Gauge, Add	0.92	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.01	
			For Work In Restricted Working Space, Add	2.36	
			For Elevated Installation >10' To 15', Add	0.79	
			For Elevated Installation >15' To 20', Add	1.58	
			For Elevated Installation >20' To 25', Add	1.97	
			For Elevated Installation >25' To 30', Add	2.76	
			For Elevated Installation >30' To 35', Add	3.15	
			For Elevated Installation >35' To 40', Add	3.94	
			For Elevated Installation >40', Add	4.33	
23 31 13 16-0006	LF		7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	10.61	4.90
			For 3" WG (Class B), Add	1.35	
			For 4" Or 6" WG (Class A), Add	3.60	
			For 28 Gauge, Deduct	-0.22	
			For 24 Gauge, Add	0.22	
			For 22 Gauge, Add	0.45	
			For 20 Gauge, Add	0.67	
			For 18 Gauge, Add	0.89	
			For 16 Gauge, Add	1.09	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.20	
			For Work In Restricted Working Space, Add	2.70	
			For Elevated Installation >10' To 15', Add	0.90	
			For Elevated Installation >15' To 20', Add	1.80	
			For Elevated Installation >20' To 25', Add	2.25	
			For Elevated Installation >25' To 30', Add	3.15	
			For Elevated Installation >30' To 35', Add	3.60	
			For Elevated Installation >35' To 40', Add	4.50	
			For Elevated Installation >40', Add	4.94	
23 31 13 16-0007	LF		8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	12.30	5.60
			For 3" WG (Class B), Add	1.58	
			For 4" Or 6" WG (Class A), Add	4.20	
			For 28 Gauge, Deduct	-0.25	
			For 24 Gauge, Add	0.25	
			For 22 Gauge, Add	0.50	
			For 20 Gauge, Add	0.75	
			For 18 Gauge, Add	0.99	
			For 16 Gauge, Add	1.22	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.33	
			For Work In Restricted Working Space, Add	3.15	
			For Elevated Installation >10' To 15', Add	1.05	
			For Elevated Installation >15' To 20', Add	2.10	
			For Elevated Installation >20' To 25', Add	2.63	
			For Elevated Installation >25' To 30', Add	3.68	
			For Elevated Installation >30' To 35', Add	4.20	
			For Elevated Installation >35' To 40', Add	5.25	
			For Elevated Installation >40', Add	5.78	
23 31 13 16-0008	LF		10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	14.81	7.00
			For 3" WG (Class B), Add	1.89	
			For 4" Or 6" WG (Class A), Add	5.04	
			For 28 Gauge, Deduct	-0.31	
			For 24 Gauge, Add	0.31	
			For 22 Gauge, Add	0.61	
			For 20 Gauge, Add	0.92	
			For 18 Gauge, Add	1.22	
			For 16 Gauge, Add	1.50	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.64	
			For Work In Restricted Working Space, Add	3.78	
			For Elevated Installation >10' To 15', Add	1.26	
			For Elevated Installation >15' To 20', Add	2.52	
			For Elevated Installation >20' To 25', Add	3.15	
			For Elevated Installation >25' To 30', Add	4.41	
			For Elevated Installation >30' To 35', Add	5.04	
			For Elevated Installation >35' To 40', Add	6.30	
			For Elevated Installation >40', Add	6.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0009 LF 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	18.47	9.38
For 3" WG (Class B), Add	2.36	
For 4" Or 6" WG (Class A), Add	6.30	
For 28 Gauge, Deduct	-0.38	
For 24 Gauge, Add	0.38	
For 22 Gauge, Add	0.75	
For 20 Gauge, Add	1.13	
For 18 Gauge, Add	1.50	
For 16 Gauge, Add	1.84	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.02	
For Work In Restricted Working Space, Add	4.72	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.15	
For Elevated Installation >20' To 25', Add	3.94	
For Elevated Installation >25' To 30', Add	5.51	
For Elevated Installation >30' To 35', Add	6.30	
For Elevated Installation >35' To 40', Add	7.87	
For Elevated Installation >40', Add	8.66	
23 31 13 16-0010 LF 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	22.86	13.99
For 3" WG (Class B), Add	2.95	
For 4" Or 6" WG (Class A), Add	7.88	
For 28 Gauge, Deduct	-0.44	
For 24 Gauge, Add	0.44	
For 22 Gauge, Add	0.87	
For 20 Gauge, Add	1.31	
For 18 Gauge, Add	1.74	
For 16 Gauge, Add	2.14	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.35	
For Work In Restricted Working Space, Add	5.91	
For Elevated Installation >10' To 15', Add	1.97	
For Elevated Installation >15' To 20', Add	3.94	
For Elevated Installation >20' To 25', Add	4.92	
For Elevated Installation >25' To 30', Add	6.89	
For Elevated Installation >30' To 35', Add	7.88	
For Elevated Installation >35' To 40', Add	9.85	
For Elevated Installation >40', Add	10.83	
23 31 13 16-0011 LF 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	30.95	18.76
For 3" WG (Class B), Add	3.94	
For 4" Or 6" WG (Class A), Add	10.50	
For 28 Gauge, Deduct	-0.65	
For 24 Gauge, Add	0.65	
For 22 Gauge, Add	1.29	
For 20 Gauge, Add	1.95	
For 18 Gauge, Add	2.59	
For 16 Gauge, Add	3.17	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.48	
For Work In Restricted Working Space, Add	7.88	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.56	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
23 31 13 16-0012 LF 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	36.72	22.53
For 28 Gauge, Deduct	-0.72	
For 24 Gauge, Add	0.72	
For 22 Gauge, Add	1.44	
For 20 Gauge, Add	2.16	
For 18 Gauge, Add	2.87	
For 16 Gauge, Add	3.52	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.86	
For Work In Restricted Working Space, Add	9.45	
For Elevated Installation >10' To 15', Add	3.15	
For Elevated Installation >15' To 20', Add	6.30	
For Elevated Installation >20' To 25', Add	7.88	
For Elevated Installation >25' To 30', Add	11.03	
For Elevated Installation >30' To 35', Add	12.60	
For Elevated Installation >35' To 40', Add	15.75	
For Elevated Installation >40', Add	17.33	
23 31 13 16-0013 LF 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	42.22	26.03
For 28 Gauge, Deduct	-0.81	
For 24 Gauge, Add	0.80	
For 22 Gauge, Add	1.60	
For 20 Gauge, Add	2.41	
For 18 Gauge, Add	3.20	
For 16 Gauge, Add	3.93	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.31	
For Work In Restricted Working Space, Add	10.92	
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.28	
For Elevated Installation >20' To 25', Add	9.10	
For Elevated Installation >25' To 30', Add	12.74	
For Elevated Installation >30' To 35', Add	14.56	
For Elevated Installation >35' To 40', Add	18.20	
For Elevated Installation >40', Add	20.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0014			2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbows <small>(23 31 13 16-0001)</small> Note: Up to 90 degree.		
23 31 13 16-0015	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	41.80	18.69
			For 3" WG (Class B), Add	5.61	
			For 4" Or 6" WG (Class A), Add	14.95	
			For 28 Gauge, Deduct	-0.61	
			For 24 Gauge, Add	0.61	
			For 22 Gauge, Add	1.22	
			For 20 Gauge, Add	1.83	
			For 18 Gauge, Add	2.44	
			For 16 Gauge, Add	2.99	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.28	
			For Work In Restricted Working Space, Add	11.21	
			For Elevated Installation >10' To 15', Add	3.74	
			For Elevated Installation >15' To 20', Add	7.47	
			For Elevated Installation >20' To 25', Add	9.34	
			For Elevated Installation >25' To 30', Add	13.08	
			For Elevated Installation >30' To 35', Add	14.95	
			For Elevated Installation >35' To 40', Add	18.69	
			For Elevated Installation >40', Add	20.55	
23 31 13 16-0016	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	47.94	21.56
			For 3" WG (Class B), Add	6.47	
			For 4" Or 6" WG (Class A), Add	17.25	
			For 28 Gauge, Deduct	-0.67	
			For 24 Gauge, Add	0.67	
			For 22 Gauge, Add	1.33	
			For 20 Gauge, Add	2.00	
			For 18 Gauge, Add	2.65	
			For 16 Gauge, Add	3.25	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.57	
			For Work In Restricted Working Space, Add	12.94	
			For Elevated Installation >10' To 15', Add	4.31	
			For Elevated Installation >15' To 20', Add	8.62	
			For Elevated Installation >20' To 25', Add	10.78	
			For Elevated Installation >25' To 30', Add	15.09	
			For Elevated Installation >30' To 35', Add	17.25	
			For Elevated Installation >35' To 40', Add	21.56	
			For Elevated Installation >40', Add	23.72	
23 31 13 16-0017	EA		6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	56.37	25.47
			For 3" WG (Class B), Add	7.64	
			For 4" Or 6" WG (Class A), Add	20.38	
			For 28 Gauge, Deduct	-0.75	
			For 24 Gauge, Add	0.75	
			For 22 Gauge, Add	1.49	
			For 20 Gauge, Add	2.24	
			For 18 Gauge, Add	2.98	
			For 16 Gauge, Add	3.66	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.01	
			For Work In Restricted Working Space, Add	15.29	
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.19	
			For Elevated Installation >20' To 25', Add	12.74	
			For Elevated Installation >25' To 30', Add	17.83	
			For Elevated Installation >30' To 35', Add	20.38	
			For Elevated Installation >35' To 40', Add	25.48	
			For Elevated Installation >40', Add	28.02	
23 31 13 16-0018	EA		7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	72.17	32.75
			For 3" WG (Class B), Add	9.83	
			For 4" Or 6" WG (Class A), Add	26.20	
			For 28 Gauge, Deduct	-0.92	
			For 24 Gauge, Add	0.92	
			For 22 Gauge, Add	1.83	
			For 20 Gauge, Add	2.76	
			For 18 Gauge, Add	3.66	
			For 16 Gauge, Add	4.50	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.93	
			For Work In Restricted Working Space, Add	19.65	
			For Elevated Installation >10' To 15', Add	6.55	
			For Elevated Installation >15' To 20', Add	13.10	
			For Elevated Installation >20' To 25', Add	16.38	
			For Elevated Installation >25' To 30', Add	22.93	
			For Elevated Installation >30' To 35', Add	26.20	
			For Elevated Installation >35' To 40', Add	32.76	
			For Elevated Installation >40', Add	36.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0019 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow.....	86.97	39.90
For 3" WG (Class B), Add	11.97	
For 4" Or 6" WG (Class A), Add	31.91	
For 28 Gauge, Deduct	-1.00	
For 24 Gauge, Add	0.99	
For 22 Gauge, Add	1.98	
For 20 Gauge, Add	2.98	
For 18 Gauge, Add	3.95	
For 16 Gauge, Add	4.85	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.32	
For Work In Restricted Working Space, Add	23.93	
For Elevated Installation >10' To 15', Add	7.98	
For Elevated Installation >15' To 20', Add	15.96	
For Elevated Installation >20' To 25', Add	19.95	
For Elevated Installation >25' To 30', Add	27.92	
For Elevated Installation >30' To 35', Add	31.91	
For Elevated Installation >35' To 40', Add	39.89	
For Elevated Installation >40', Add	43.88	
23 31 13 16-0020 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow.....	134.07	62.29
For 3" WG (Class B), Add	18.69	
For 4" Or 6" WG (Class A), Add	49.83	
For 28 Gauge, Deduct	-1.31	
For 24 Gauge, Add	1.31	
For 22 Gauge, Add	2.61	
For 20 Gauge, Add	3.93	
For 18 Gauge, Add	5.22	
For 16 Gauge, Add	6.41	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.02	
For Work In Restricted Working Space, Add	37.37	
For Elevated Installation >10' To 15', Add	12.46	
For Elevated Installation >15' To 20', Add	24.92	
For Elevated Installation >20' To 25', Add	31.15	
For Elevated Installation >25' To 30', Add	43.60	
For Elevated Installation >30' To 35', Add	49.83	
For Elevated Installation >35' To 40', Add	62.29	
For Elevated Installation >40', Add	68.52	
23 31 13 16-0021 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow.....	185.03	86.08
For 3" WG (Class B), Add	25.83	
For 4" Or 6" WG (Class A), Add	68.87	
For 28 Gauge, Deduct	-1.78	
For 24 Gauge, Add	1.77	
For 22 Gauge, Add	3.54	
For 20 Gauge, Add	5.32	
For 18 Gauge, Add	7.07	
For 16 Gauge, Add	8.68	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.52	
For Work In Restricted Working Space, Add	51.65	
For Elevated Installation >10' To 15', Add	17.22	
For Elevated Installation >15' To 20', Add	34.43	
For Elevated Installation >20' To 25', Add	43.04	
For Elevated Installation >25' To 30', Add	60.26	
For Elevated Installation >30' To 35', Add	68.87	
For Elevated Installation >35' To 40', Add	86.09	
For Elevated Installation >40', Add	94.69	
23 31 13 16-0022 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow.....	223.37	101.83
For 3" WG (Class B), Add	30.55	
For 4" Or 6" WG (Class A), Add	81.46	
For 28 Gauge, Deduct	-2.73	
For 24 Gauge, Add	2.72	
For 22 Gauge, Add	5.43	
For 20 Gauge, Add	8.16	
For 18 Gauge, Add	10.84	
For 16 Gauge, Add	13.30	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.59	
For Work In Restricted Working Space, Add	61.10	
For Elevated Installation >10' To 15', Add	20.37	
For Elevated Installation >15' To 20', Add	40.73	
For Elevated Installation >20' To 25', Add	50.92	
For Elevated Installation >25' To 30', Add	71.28	
For Elevated Installation >30' To 35', Add	81.46	
For Elevated Installation >35' To 40', Add	101.83	
For Elevated Installation >40', Add	112.01	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0023	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	252.21	111.97
			For 3" WG (Class B), Add	33.59	
			For 4" Or 6" WG (Class A), Add	89.58	
			For 28 Gauge, Deduct	-3.91	
			For 24 Gauge, Add	3.90	
			For 22 Gauge, Add	7.78	
			For 20 Gauge, Add	11.70	
			For 18 Gauge, Add	15.54	
			For 16 Gauge, Add	19.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.91	
			For Work In Restricted Working Space, Add	67.19	
			For Elevated Installation >10' To 15', Add	22.40	
			For Elevated Installation >15' To 20', Add	44.79	
			For Elevated Installation >20' To 25', Add	55.99	
			For Elevated Installation >25' To 30', Add	78.39	
			For Elevated Installation >30' To 35', Add	89.58	
			For Elevated Installation >35' To 40', Add	111.98	
			For Elevated Installation >40', Add	123.18	
23 31 13 16-0024	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	275.35	116.53
			For 3" WG (Class B), Add	34.96	
			For 4" Or 6" WG (Class A), Add	93.22	
			For 28 Gauge, Deduct	-5.86	
			For 24 Gauge, Add	5.84	
			For 22 Gauge, Add	11.65	
			For 20 Gauge, Add	17.51	
			For 18 Gauge, Add	23.27	
			For 16 Gauge, Add	28.55	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.30	
			For Work In Restricted Working Space, Add	69.92	
			For Elevated Installation >10' To 15', Add	23.31	
			For Elevated Installation >15' To 20', Add	46.61	
			For Elevated Installation >20' To 25', Add	58.26	
			For Elevated Installation >25' To 30', Add	81.57	
			For Elevated Installation >30' To 35', Add	93.22	
			For Elevated Installation >35' To 40', Add	116.53	
			For Elevated Installation >40', Add	128.18	
			For 10" WG (Class A), Add	107.20	
23 31 13 16-0025	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	297.15	120.37
			For 3" WG (Class B), Add	36.11	
			For 4" Or 6" WG (Class A), Add	96.30	
			For 28 Gauge, Deduct	-7.81	
			For 24 Gauge, Add	7.78	
			For 22 Gauge, Add	15.54	
			For 20 Gauge, Add	23.35	
			For 18 Gauge, Add	31.02	
			For 16 Gauge, Add	38.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	41.74	
			For Work In Restricted Working Space, Add	72.23	
			For Elevated Installation >10' To 15', Add	24.08	
			For Elevated Installation >15' To 20', Add	48.15	
			For Elevated Installation >20' To 25', Add	60.19	
			For Elevated Installation >25' To 30', Add	84.26	
			For Elevated Installation >30' To 35', Add	96.30	
			For Elevated Installation >35' To 40', Add	120.38	
			For Elevated Installation >40', Add	132.41	
			For 10" WG (Class A), Add	110.75	
23 31 13 16-0026			2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbows <small>(23 31 13 16-0001)</small>		
23 31 13 16-0027	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	35.22	12.59
			For 3" WG (Class B), Add	4.73	
			For 4" Or 6" WG (Class A), Add	12.60	
			For 28 Gauge, Deduct	-0.52	
			For 24 Gauge, Add	0.51	
			For 22 Gauge, Add	1.02	
			For 20 Gauge, Add	1.54	
			For 18 Gauge, Add	2.05	
			For 16 Gauge, Add	2.51	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.75	
			For Work In Restricted Working Space, Add	9.45	
			For Elevated Installation >10' To 15', Add	3.15	
			For Elevated Installation >15' To 20', Add	6.30	
			For Elevated Installation >20' To 25', Add	7.88	
			For Elevated Installation >25' To 30', Add	11.03	
			For Elevated Installation >30' To 35', Add	12.60	
			For Elevated Installation >35' To 40', Add	15.75	
			For Elevated Installation >40', Add	17.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0028 EA 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	40.23	14.42
For 3" WG (Class B), Add	5.40	
For 4" Or 6" WG (Class A), Add	14.40	
For 28 Gauge, Deduct	-0.59	
For 24 Gauge, Add	0.59	
For 22 Gauge, Add	1.17	
For 20 Gauge, Add	1.76	
For 18 Gauge, Add	2.33	
For 16 Gauge, Add	2.86	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.14	
For Work In Restricted Working Space, Add	10.80	
For Elevated Installation >10' To 15', Add	3.60	
For Elevated Installation >15' To 20', Add	7.20	
For Elevated Installation >20' To 25', Add	9.00	
For Elevated Installation >25' To 30', Add	12.60	
For Elevated Installation >30' To 35', Add	14.40	
For Elevated Installation >35' To 40', Add	18.00	
For Elevated Installation >40', Add	19.79	
23 31 13 16-0029 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	46.82	16.80
For 3" WG (Class B), Add	6.30	
For 4" Or 6" WG (Class A), Add	16.80	
For 28 Gauge, Deduct	-0.67	
For 24 Gauge, Add	0.67	
For 22 Gauge, Add	1.33	
For 20 Gauge, Add	2.00	
For 18 Gauge, Add	2.66	
For 16 Gauge, Add	3.26	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.57	
For Work In Restricted Working Space, Add	12.60	
For Elevated Installation >10' To 15', Add	4.20	
For Elevated Installation >15' To 20', Add	8.40	
For Elevated Installation >20' To 25', Add	10.50	
For Elevated Installation >25' To 30', Add	14.70	
For Elevated Installation >30' To 35', Add	16.80	
For Elevated Installation >35' To 40', Add	21.00	
For Elevated Installation >40', Add	23.09	
23 31 13 16-0030 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	55.51	20.16
For 3" WG (Class B), Add	7.56	
For 4" Or 6" WG (Class A), Add	20.16	
For 28 Gauge, Deduct	-0.71	
For 24 Gauge, Add	0.71	
For 22 Gauge, Add	1.41	
For 20 Gauge, Add	2.12	
For 18 Gauge, Add	2.82	
For 16 Gauge, Add	3.46	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.79	
For Work In Restricted Working Space, Add	15.12	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.64	
For Elevated Installation >30' To 35', Add	20.16	
For Elevated Installation >35' To 40', Add	25.20	
For Elevated Installation >40', Add	27.71	
23 31 13 16-0031 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	68.92	25.20
For 3" WG (Class B), Add	9.45	
For 4" Or 6" WG (Class A), Add	25.19	
For 28 Gauge, Deduct	-0.82	
For 24 Gauge, Add	0.82	
For 22 Gauge, Add	1.64	
For 20 Gauge, Add	2.46	
For 18 Gauge, Add	3.27	
For 16 Gauge, Add	4.01	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.40	
For Work In Restricted Working Space, Add	18.89	
For Elevated Installation >10' To 15', Add	6.30	
For Elevated Installation >15' To 20', Add	12.60	
For Elevated Installation >20' To 25', Add	15.75	
For Elevated Installation >25' To 30', Add	22.04	
For Elevated Installation >30' To 35', Add	25.19	
For Elevated Installation >35' To 40', Add	31.49	
For Elevated Installation >40', Add	34.64	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0032	EA		10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	92.48	33.59
			<i>For 3" WG (Class B), Add</i>	12.60	
			<i>For 4" Or 6" WG (Class A), Add</i>	33.60	
			<i>For 28 Gauge, Deduct</i>	-1.18	
			<i>For 24 Gauge, Add</i>	1.17	
			<i>For 22 Gauge, Add</i>	2.34	
			<i>For 20 Gauge, Add</i>	3.51	
			<i>For 18 Gauge, Add</i>	4.67	
			<i>For 16 Gauge, Add</i>	5.73	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.28	
			<i>For Work In Restricted Working Space, Add</i>	25.20	
			<i>For Elevated Installation >10' To 15', Add</i>	8.40	
			<i>For Elevated Installation >15' To 20', Add</i>	16.80	
			<i>For Elevated Installation >20' To 25', Add</i>	21.00	
			<i>For Elevated Installation >25' To 30', Add</i>	29.40	
			<i>For Elevated Installation >30' To 35', Add</i>	33.60	
			<i>For Elevated Installation >35' To 40', Add</i>	42.00	
			<i>For Elevated Installation >40', Add</i>	46.19	
23 31 13 16-0033	EA		12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	137.21	50.39
			<i>For 3" WG (Class B), Add</i>	18.90	
			<i>For 4" Or 6" WG (Class A), Add</i>	50.39	
			<i>For 28 Gauge, Deduct</i>	-1.56	
			<i>For 24 Gauge, Add</i>	1.55	
			<i>For 22 Gauge, Add</i>	3.09	
			<i>For 20 Gauge, Add</i>	4.65	
			<i>For 18 Gauge, Add</i>	6.18	
			<i>For 16 Gauge, Add</i>	7.58	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	8.31	
			<i>For Work In Restricted Working Space, Add</i>	37.79	
			<i>For Elevated Installation >10' To 15', Add</i>	12.60	
			<i>For Elevated Installation >15' To 20', Add</i>	25.20	
			<i>For Elevated Installation >20' To 25', Add</i>	31.50	
			<i>For Elevated Installation >25' To 30', Add</i>	44.09	
			<i>For Elevated Installation >30' To 35', Add</i>	50.39	
			<i>For Elevated Installation >35' To 40', Add</i>	62.99	
			<i>For Elevated Installation >40', Add</i>	69.29	
23 31 13 16-0034	EA		14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	181.99	64.39
			<i>For 3" WG (Class B), Add</i>	24.15	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.39	
			<i>For 28 Gauge, Deduct</i>	-2.91	
			<i>For 24 Gauge, Add</i>	2.90	
			<i>For 22 Gauge, Add</i>	5.79	
			<i>For 20 Gauge, Add</i>	8.70	
			<i>For 18 Gauge, Add</i>	11.56	
			<i>For 16 Gauge, Add</i>	14.19	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	15.55	
			<i>For Work In Restricted Working Space, Add</i>	48.29	
			<i>For Elevated Installation >10' To 15', Add</i>	16.10	
			<i>For Elevated Installation >15' To 20', Add</i>	32.19	
			<i>For Elevated Installation >20' To 25', Add</i>	40.24	
			<i>For Elevated Installation >25' To 30', Add</i>	56.34	
			<i>For Elevated Installation >30' To 35', Add</i>	64.39	
			<i>For Elevated Installation >35' To 40', Add</i>	80.49	
			<i>For Elevated Installation >40', Add</i>	88.53	
23 31 13 16-0035	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	228.68	81.18
			<i>For 3" WG (Class B), Add</i>	30.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	81.18	
			<i>For 28 Gauge, Deduct</i>	-3.56	
			<i>For 24 Gauge, Add</i>	3.55	
			<i>For 22 Gauge, Add</i>	7.09	
			<i>For 20 Gauge, Add</i>	10.65	
			<i>For 18 Gauge, Add</i>	14.15	
			<i>For 16 Gauge, Add</i>	17.36	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.03	
			<i>For Work In Restricted Working Space, Add</i>	60.89	
			<i>For Elevated Installation >10' To 15', Add</i>	20.30	
			<i>For Elevated Installation >15' To 20', Add</i>	40.59	
			<i>For Elevated Installation >20' To 25', Add</i>	50.74	
			<i>For Elevated Installation >25' To 30', Add</i>	71.04	
			<i>For Elevated Installation >30' To 35', Add</i>	81.18	
			<i>For Elevated Installation >35' To 40', Add</i>	101.48	
			<i>For Elevated Installation >40', Add</i>	111.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0036 EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	251.31	84.68
For 3" WG (Class B), Add	31.70	
For 4" Or 6" WG (Class A), Add	84.54	
For 28 Gauge, Deduct	-5.53	
For 24 Gauge, Add	5.51	
For 22 Gauge, Add	11.01	
For 20 Gauge, Add	16.54	
For 18 Gauge, Add	21.97	
For 16 Gauge, Add	26.97	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.56	
For Work In Restricted Working Space, Add	63.41	
For Elevated Installation >10' To 15', Add	21.14	
For Elevated Installation >15' To 20', Add	42.27	
For Elevated Installation >20' To 25', Add	52.84	
For Elevated Installation >25' To 30', Add	73.98	
For Elevated Installation >30' To 35', Add	84.54	
For Elevated Installation >35' To 40', Add	105.68	
For Elevated Installation >40', Add	116.25	
For 10" WG (Class A), Add	97.23	
23 31 13 16-0037 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	270.21	86.78
For 3" WG (Class B), Add	32.54	
For 4" Or 6" WG (Class A), Add	86.78	
For 28 Gauge, Deduct	-7.38	
For 24 Gauge, Add	7.35	
For 22 Gauge, Add	14.67	
For 20 Gauge, Add	22.05	
For 18 Gauge, Add	29.29	
For 16 Gauge, Add	35.95	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.41	
For Work In Restricted Working Space, Add	65.09	
For Elevated Installation >10' To 15', Add	21.70	
For Elevated Installation >15' To 20', Add	43.39	
For Elevated Installation >20' To 25', Add	54.24	
For Elevated Installation >25' To 30', Add	75.93	
For Elevated Installation >30' To 35', Add	86.78	
For Elevated Installation >35' To 40', Add	108.48	
For Elevated Installation >40', Add	119.32	
For 10" WG (Class A), Add	99.80	
23 31 13 16-0038 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbows (23 31 13 16-0001)		
23 31 13 16-0039 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	33.84	12.59
For 3" WG (Class B), Add	4.73	
For 4" Or 6" WG (Class A), Add	12.60	
For 28 Gauge, Deduct	-0.32	
For 24 Gauge, Add	0.32	
For 22 Gauge, Add	0.64	
For 20 Gauge, Add	0.97	
For 18 Gauge, Add	1.29	
For 16 Gauge, Add	1.58	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.73	
For Work In Restricted Working Space, Add	9.45	
For Elevated Installation >10' To 15', Add	3.15	
For Elevated Installation >15' To 20', Add	6.30	
For Elevated Installation >20' To 25', Add	7.88	
For Elevated Installation >25' To 30', Add	11.03	
For Elevated Installation >30' To 35', Add	12.60	
For Elevated Installation >35' To 40', Add	15.75	
For Elevated Installation >40', Add	17.33	
23 31 13 16-0040 EA 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	38.99	14.42
For 3" WG (Class B), Add	5.40	
For 4" Or 6" WG (Class A), Add	14.40	
For 28 Gauge, Deduct	-0.42	
For 24 Gauge, Add	0.41	
For 22 Gauge, Add	0.83	
For 20 Gauge, Add	1.24	
For 18 Gauge, Add	1.65	
For 16 Gauge, Add	2.03	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.22	
For Work In Restricted Working Space, Add	10.80	
For Elevated Installation >10' To 15', Add	3.60	
For Elevated Installation >15' To 20', Add	7.20	
For Elevated Installation >20' To 25', Add	9.00	
For Elevated Installation >25' To 30', Add	12.60	
For Elevated Installation >30' To 35', Add	14.40	
For Elevated Installation >35' To 40', Add	18.00	
For Elevated Installation >40', Add	19.79	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 31 13 16-0041	EA		6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	45.27	16.80
			<i>For 3" WG (Class B), Add</i>	6.30	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.80	
			<i>For 28 Gauge, Deduct</i>	-0.45	
			<i>For 24 Gauge, Add</i>	0.45	
			<i>For 22 Gauge, Add</i>	0.90	
			<i>For 20 Gauge, Add</i>	1.36	
			<i>For 18 Gauge, Add</i>	1.80	
			<i>For 16 Gauge, Add</i>	2.21	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.43	
			<i>For Work In Restricted Working Space, Add</i>	12.60	
			<i>For Elevated Installation >10' To 15', Add</i>	4.20	
			<i>For Elevated Installation >15' To 20', Add</i>	8.40	
			<i>For Elevated Installation >20' To 25', Add</i>	10.50	
			<i>For Elevated Installation >25' To 30', Add</i>	14.70	
			<i>For Elevated Installation >30' To 35', Add</i>	16.80	
			<i>For Elevated Installation >35' To 40', Add</i>	21.00	
			<i>For Elevated Installation >40', Add</i>	23.09	
23 31 13 16-0042	EA		7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	54.19	20.16
			<i>For 3" WG (Class B), Add</i>	7.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	20.16	
			<i>For 28 Gauge, Deduct</i>	-0.53	
			<i>For 24 Gauge, Add</i>	0.52	
			<i>For 22 Gauge, Add</i>	1.05	
			<i>For 20 Gauge, Add</i>	1.57	
			<i>For 18 Gauge, Add</i>	2.09	
			<i>For 16 Gauge, Add</i>	2.57	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.81	
			<i>For Work In Restricted Working Space, Add</i>	15.12	
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.08	
			<i>For Elevated Installation >20' To 25', Add</i>	12.60	
			<i>For Elevated Installation >25' To 30', Add</i>	17.64	
			<i>For Elevated Installation >30' To 35', Add</i>	20.16	
			<i>For Elevated Installation >35' To 40', Add</i>	25.20	
			<i>For Elevated Installation >40', Add</i>	27.71	
23 31 13 16-0043	EA		8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	67.30	25.20
			<i>For 3" WG (Class B), Add</i>	9.45	
			<i>For 4" Or 6" WG (Class A), Add</i>	25.19	
			<i>For 28 Gauge, Deduct</i>	-0.60	
			<i>For 24 Gauge, Add</i>	0.60	
			<i>For 22 Gauge, Add</i>	1.19	
			<i>For 20 Gauge, Add</i>	1.79	
			<i>For 18 Gauge, Add</i>	2.38	
			<i>For 16 Gauge, Add</i>	2.92	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.20	
			<i>For Work In Restricted Working Space, Add</i>	18.89	
			<i>For Elevated Installation >10' To 15', Add</i>	6.30	
			<i>For Elevated Installation >15' To 20', Add</i>	12.60	
			<i>For Elevated Installation >20' To 25', Add</i>	15.75	
			<i>For Elevated Installation >25' To 30', Add</i>	22.04	
			<i>For Elevated Installation >30' To 35', Add</i>	25.19	
			<i>For Elevated Installation >35' To 40', Add</i>	31.49	
			<i>For Elevated Installation >40', Add</i>	34.64	
23 31 13 16-0044	EA		10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	90.58	33.59
			<i>For 3" WG (Class B), Add</i>	12.60	
			<i>For 4" Or 6" WG (Class A), Add</i>	33.60	
			<i>For 28 Gauge, Deduct</i>	-0.91	
			<i>For 24 Gauge, Add</i>	0.91	
			<i>For 22 Gauge, Add</i>	1.82	
			<i>For 20 Gauge, Add</i>	2.73	
			<i>For 18 Gauge, Add</i>	3.62	
			<i>For 16 Gauge, Add</i>	4.45	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.88	
			<i>For Work In Restricted Working Space, Add</i>	25.20	
			<i>For Elevated Installation >10' To 15', Add</i>	8.40	
			<i>For Elevated Installation >15' To 20', Add</i>	16.80	
			<i>For Elevated Installation >20' To 25', Add</i>	21.00	
			<i>For Elevated Installation >25' To 30', Add</i>	29.40	
			<i>For Elevated Installation >30' To 35', Add</i>	33.60	
			<i>For Elevated Installation >35' To 40', Add</i>	42.00	
			<i>For Elevated Installation >40', Add</i>	46.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0045 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	134.47	50.39
For 3" WG (Class B), Add	18.90	
For 4" Or 6" WG (Class A), Add	50.39	
For 28 Gauge, Deduct	-1.18	
For 24 Gauge, Add	1.17	
For 22 Gauge, Add	2.34	
For 20 Gauge, Add	3.51	
For 18 Gauge, Add	4.67	
For 16 Gauge, Add	5.73	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.28	
For Work In Restricted Working Space, Add	37.79	
For Elevated Installation >10' To 15', Add	12.60	
For Elevated Installation >15' To 20', Add	25.20	
For Elevated Installation >20' To 25', Add	31.50	
For Elevated Installation >25' To 30', Add	44.09	
For Elevated Installation >30' To 35', Add	50.39	
For Elevated Installation >35' To 40', Add	62.99	
For Elevated Installation >40', Add	69.29	
23 31 13 16-0046 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	175.66	64.39
For 3" WG (Class B), Add	24.15	
For 4" Or 6" WG (Class A), Add	64.39	
For 28 Gauge, Deduct	-2.03	
For 24 Gauge, Add	2.03	
For 22 Gauge, Add	4.05	
For 20 Gauge, Add	6.08	
For 18 Gauge, Add	8.08	
For 16 Gauge, Add	9.92	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.87	
For Work In Restricted Working Space, Add	48.29	
For Elevated Installation >10' To 15', Add	16.10	
For Elevated Installation >15' To 20', Add	32.19	
For Elevated Installation >20' To 25', Add	40.24	
For Elevated Installation >25' To 30', Add	56.34	
For Elevated Installation >30' To 35', Add	64.39	
For Elevated Installation >35' To 40', Add	80.49	
For Elevated Installation >40', Add	88.53	
23 31 13 16-0047 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	227.05	81.18
For 3" WG (Class B), Add	30.44	
For 4" Or 6" WG (Class A), Add	81.18	
For 28 Gauge, Deduct	-3.34	
For 24 Gauge, Add	3.32	
For 22 Gauge, Add	6.64	
For 20 Gauge, Add	9.97	
For 18 Gauge, Add	13.25	
For 16 Gauge, Add	16.26	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.83	
For Work In Restricted Working Space, Add	60.89	
For Elevated Installation >10' To 15', Add	20.30	
For Elevated Installation >15' To 20', Add	40.59	
For Elevated Installation >20' To 25', Add	50.74	
For Elevated Installation >25' To 30', Add	71.04	
For Elevated Installation >30' To 35', Add	81.18	
For Elevated Installation >35' To 40', Add	101.48	
For Elevated Installation >40', Add	111.63	
23 31 13 16-0048 EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	240.47	84.68
For 3" WG (Class B), Add	31.70	
For 4" Or 6" WG (Class A), Add	84.54	
For 28 Gauge, Deduct	-4.03	
For 24 Gauge, Add	4.02	
For 22 Gauge, Add	8.02	
For 20 Gauge, Add	12.05	
For 18 Gauge, Add	16.01	
For 16 Gauge, Add	19.65	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.54	
For Work In Restricted Working Space, Add	63.41	
For Elevated Installation >10' To 15', Add	21.14	
For Elevated Installation >15' To 20', Add	42.27	
For Elevated Installation >20' To 25', Add	52.84	
For Elevated Installation >25' To 30', Add	73.98	
For Elevated Installation >30' To 35', Add	84.54	
For Elevated Installation >35' To 40', Add	105.68	
For Elevated Installation >40', Add	116.25	
For 10" WG (Class A), Add	97.23	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0049	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	254.25	86.78
			For 3" WG (Class B), Add	32.54	
			For 4" Or 6" WG (Class A), Add	86.78	
			For 28 Gauge, Deduct	-5.17	
			For 24 Gauge, Add	5.15	
			For 22 Gauge, Add	10.28	
			For 20 Gauge, Add	15.44	
			For 18 Gauge, Add	20.52	
			For 16 Gauge, Add	25.18	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	27.60	
			For Work In Restricted Working Space, Add	65.09	
			For Elevated Installation >10' To 15', Add	21.70	
			For Elevated Installation >15' To 20', Add	43.39	
			For Elevated Installation >20' To 25', Add	54.24	
			For Elevated Installation >25' To 30', Add	75.93	
			For Elevated Installation >30' To 35', Add	86.78	
			For Elevated Installation >35' To 40', Add	108.48	
			For Elevated Installation >40', Add	119.32	
			For 10" WG (Class A), Add	99.80	
23 31 13 16-0050			2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tees (23 31 13 16-0001)		
23 31 13 16-0051	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	52.45	18.89
			For 3" WG (Class B), Add	7.09	
			For 4" Or 6" WG (Class A), Add	18.90	
			For 28 Gauge, Deduct	-0.72	
			For 24 Gauge, Add	0.72	
			For 22 Gauge, Add	1.44	
			For 20 Gauge, Add	2.16	
			For 18 Gauge, Add	2.87	
			For 16 Gauge, Add	3.52	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.86	
			For Work In Restricted Working Space, Add	14.17	
			For Elevated Installation >10' To 15', Add	4.72	
			For Elevated Installation >15' To 20', Add	9.45	
			For Elevated Installation >20' To 25', Add	11.81	
			For Elevated Installation >25' To 30', Add	16.53	
			For Elevated Installation >30' To 35', Add	18.90	
			For Elevated Installation >35' To 40', Add	23.62	
			For Elevated Installation >40', Add	25.98	
23 31 13 16-0052	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	60.91	21.56
			For 3" WG (Class B), Add	8.10	
			For 4" Or 6" WG (Class A), Add	21.60	
			For 28 Gauge, Deduct	-0.96	
			For 24 Gauge, Add	0.95	
			For 22 Gauge, Add	1.91	
			For 20 Gauge, Add	2.86	
			For 18 Gauge, Add	3.81	
			For 16 Gauge, Add	4.67	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.12	
			For Work In Restricted Working Space, Add	16.20	
			For Elevated Installation >10' To 15', Add	5.40	
			For Elevated Installation >15' To 20', Add	10.80	
			For Elevated Installation >20' To 25', Add	13.50	
			For Elevated Installation >25' To 30', Add	18.90	
			For Elevated Installation >30' To 35', Add	21.60	
			For Elevated Installation >35' To 40', Add	27.00	
			For Elevated Installation >40', Add	29.69	
23 31 13 16-0053	EA		6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	70.49	25.20
			For 3" WG (Class B), Add	9.45	
			For 4" Or 6" WG (Class A), Add	25.19	
			For 28 Gauge, Deduct	-1.04	
			For 24 Gauge, Add	1.04	
			For 22 Gauge, Add	2.07	
			For 20 Gauge, Add	3.11	
			For 18 Gauge, Add	4.13	
			For 16 Gauge, Add	5.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.56	
			For Work In Restricted Working Space, Add	18.89	
			For Elevated Installation >10' To 15', Add	6.30	
			For Elevated Installation >15' To 20', Add	12.60	
			For Elevated Installation >20' To 25', Add	15.75	
			For Elevated Installation >25' To 30', Add	22.04	
			For Elevated Installation >30' To 35', Add	25.19	
			For Elevated Installation >35' To 40', Add	31.49	
			For Elevated Installation >40', Add	34.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0054 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	84.22	30.23
For 3" WG (Class B), Add	11.34	
For 4" Or 6" WG (Class A), Add	30.23	
For 28 Gauge, Deduct	-1.20	
For 24 Gauge, Add	1.19	
For 22 Gauge, Add	2.38	
For 20 Gauge, Add	3.58	
For 18 Gauge, Add	4.75	
For 16 Gauge, Add	5.83	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.39	
For Work In Restricted Working Space, Add	22.67	
For Elevated Installation >10' To 15', Add	7.56	
For Elevated Installation >15' To 20', Add	15.12	
For Elevated Installation >20' To 25', Add	18.90	
For Elevated Installation >25' To 30', Add	26.45	
For Elevated Installation >30' To 35', Add	30.23	
For Elevated Installation >35' To 40', Add	37.79	
For Elevated Installation >40', Add	41.57	
23 31 13 16-0055 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	108.46	37.79
For 3" WG (Class B), Add	14.17	
For 4" Or 6" WG (Class A), Add	37.80	
For 28 Gauge, Deduct	-1.93	
For 24 Gauge, Add	1.93	
For 22 Gauge, Add	3.85	
For 20 Gauge, Add	5.78	
For 18 Gauge, Add	7.68	
For 16 Gauge, Add	9.43	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.34	
For Work In Restricted Working Space, Add	28.35	
For Elevated Installation >10' To 15', Add	9.45	
For Elevated Installation >15' To 20', Add	18.90	
For Elevated Installation >20' To 25', Add	23.62	
For Elevated Installation >25' To 30', Add	33.07	
For Elevated Installation >30' To 35', Add	37.80	
For Elevated Installation >35' To 40', Add	47.25	
For Elevated Installation >40', Add	51.97	
23 31 13 16-0056 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	143.80	50.39
For 3" WG (Class B), Add	18.90	
For 4" Or 6" WG (Class A), Add	50.39	
For 28 Gauge, Deduct	-2.47	
For 24 Gauge, Add	2.46	
For 22 Gauge, Add	4.91	
For 20 Gauge, Add	7.38	
For 18 Gauge, Add	9.80	
For 16 Gauge, Add	12.03	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.19	
For Work In Restricted Working Space, Add	37.79	
For Elevated Installation >10' To 15', Add	12.60	
For Elevated Installation >15' To 20', Add	25.20	
For Elevated Installation >20' To 25', Add	31.50	
For Elevated Installation >25' To 30', Add	44.09	
For Elevated Installation >30' To 35', Add	50.39	
For Elevated Installation >35' To 40', Add	62.99	
For Elevated Installation >40', Add	69.29	
23 31 13 16-0057 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	206.75	75.59
For 3" WG (Class B), Add	28.34	
For 4" Or 6" WG (Class A), Add	75.57	
For 28 Gauge, Deduct	-2.47	
For 24 Gauge, Add	2.46	
For 22 Gauge, Add	4.91	
For 20 Gauge, Add	7.38	
For 18 Gauge, Add	9.80	
For 16 Gauge, Add	12.03	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.19	
For Work In Restricted Working Space, Add	56.68	
For Elevated Installation >10' To 15', Add	18.89	
For Elevated Installation >15' To 20', Add	37.79	
For Elevated Installation >20' To 25', Add	47.23	
For Elevated Installation >25' To 30', Add	66.13	
For Elevated Installation >30' To 35', Add	75.57	
For Elevated Installation >35' To 40', Add	94.47	
For Elevated Installation >40', Add	103.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0058	EA		14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	275.27	96.30
			For 3" WG (Class B), Add	36.20	
			For 4" Or 6" WG (Class A), Add	96.53	
			For 28 Gauge, Deduct	-4.70	
			For 24 Gauge, Add	4.68	
			For 22 Gauge, Add	9.35	
			For 20 Gauge, Add	14.05	
			For 18 Gauge, Add	18.67	
			For 16 Gauge, Add	22.91	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.12	
			For Work In Restricted Working Space, Add	72.40	
			For Elevated Installation >10' To 15', Add	24.13	
			For Elevated Installation >15' To 20', Add	48.27	
			For Elevated Installation >20' To 25', Add	60.33	
			For Elevated Installation >25' To 30', Add	84.47	
			For Elevated Installation >30' To 35', Add	96.53	
			For Elevated Installation >35' To 40', Add	120.67	
			For Elevated Installation >40', Add	132.73	
23 31 13 16-0059	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	351.93	122.05
			For 3" WG (Class B), Add	45.64	
			For 4" Or 6" WG (Class A), Add	121.71	
			For 28 Gauge, Deduct	-6.60	
			For 24 Gauge, Add	6.58	
			For 22 Gauge, Add	13.13	
			For 20 Gauge, Add	19.73	
			For 18 Gauge, Add	26.21	
			For 16 Gauge, Add	32.16	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.26	
			For Work In Restricted Working Space, Add	91.28	
			For Elevated Installation >10' To 15', Add	30.43	
			For Elevated Installation >15' To 20', Add	60.86	
			For Elevated Installation >20' To 25', Add	76.07	
			For Elevated Installation >25' To 30', Add	106.50	
			For Elevated Installation >30' To 35', Add	121.71	
			For Elevated Installation >35' To 40', Add	152.14	
			For Elevated Installation >40', Add	167.35	
23 31 13 16-0060	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	400.84	135.77
			For 3" WG (Class B), Add	51.02	
			For 4" Or 6" WG (Class A), Add	136.05	
			For 28 Gauge, Deduct	-8.41	
			For 24 Gauge, Add	8.38	
			For 22 Gauge, Add	16.73	
			For 20 Gauge, Add	25.13	
			For 18 Gauge, Add	33.39	
			For 16 Gauge, Add	40.98	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	44.93	
			For Work In Restricted Working Space, Add	102.04	
			For Elevated Installation >10' To 15', Add	34.01	
			For Elevated Installation >15' To 20', Add	68.03	
			For Elevated Installation >20' To 25', Add	85.03	
			For Elevated Installation >25' To 30', Add	119.05	
			For Elevated Installation >30' To 35', Add	136.05	
			For Elevated Installation >35' To 40', Add	170.07	
			For Elevated Installation >40', Add	187.07	
			For 10" WG (Class A), Add	156.46	
23 31 13 16-0061	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	418.69	140.67
			For 3" WG (Class B), Add	52.70	
			For 4" Or 6" WG (Class A), Add	140.53	
			For 28 Gauge, Deduct	-9.33	
			For 24 Gauge, Add	9.30	
			For 22 Gauge, Add	18.56	
			For 20 Gauge, Add	27.89	
			For 18 Gauge, Add	37.05	
			For 16 Gauge, Add	45.47	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	49.85	
			For Work In Restricted Working Space, Add	105.40	
			For Elevated Installation >10' To 15', Add	35.13	
			For Elevated Installation >15' To 20', Add	70.27	
			For Elevated Installation >20' To 25', Add	87.83	
			For Elevated Installation >25' To 30', Add	122.97	
			For Elevated Installation >30' To 35', Add	140.53	
			For Elevated Installation >35' To 40', Add	175.67	
			For Elevated Installation >40', Add	193.23	
			For 10" WG (Class A), Add	161.61	

23 31 13 16-0062 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connectors (23 31 13 16-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0063 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	24.14	
For 3" WG (Class B), Add	3.36	
For 4" Or 6" WG (Class A), Add	8.96	
For Work In Restricted Working Space, Add	6.72	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.48	
For Elevated Installation >20' To 25', Add	5.60	
For Elevated Installation >25' To 30', Add	7.84	
For Elevated Installation >30' To 35', Add	8.96	
For Elevated Installation >35' To 40', Add	11.20	
For Elevated Installation >40', Add	12.31	
23 31 13 16-0064 EA 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	25.42	
For 3" WG (Class B), Add	3.53	
For 4" Or 6" WG (Class A), Add	9.42	
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15', Add	2.35	
For Elevated Installation >15' To 20', Add	4.71	
For Elevated Installation >20' To 25', Add	5.89	
For Elevated Installation >25' To 30', Add	8.24	
For Elevated Installation >30' To 35', Add	9.42	
For Elevated Installation >35' To 40', Add	11.77	
For Elevated Installation >40', Add	12.95	
23 31 13 16-0065 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	27.22	
For 3" WG (Class B), Add	3.78	
For 4" Or 6" WG (Class A), Add	10.08	
For Work In Restricted Working Space, Add	7.56	
For Elevated Installation >10' To 15', Add	2.52	
For Elevated Installation >15' To 20', Add	5.04	
For Elevated Installation >20' To 25', Add	6.30	
For Elevated Installation >25' To 30', Add	8.82	
For Elevated Installation >30' To 35', Add	10.08	
For Elevated Installation >35' To 40', Add	12.60	
For Elevated Installation >40', Add	13.86	
23 31 13 16-0066 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	28.91	
For 3" WG (Class B), Add	3.99	
For 4" Or 6" WG (Class A), Add	10.64	
For Work In Restricted Working Space, Add	7.98	
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.31	
For Elevated Installation >30' To 35', Add	10.64	
For Elevated Installation >35' To 40', Add	13.30	
For Elevated Installation >40', Add	14.63	
23 31 13 16-0067 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	31.30	
For 3" WG (Class B), Add	4.30	
For 4" Or 6" WG (Class A), Add	11.48	
For Work In Restricted Working Space, Add	8.61	
For Elevated Installation >10' To 15', Add	2.87	
For Elevated Installation >15' To 20', Add	5.74	
For Elevated Installation >20' To 25', Add	7.17	
For Elevated Installation >25' To 30', Add	10.04	
For Elevated Installation >30' To 35', Add	11.48	
For Elevated Installation >35' To 40', Add	14.35	
For Elevated Installation >40', Add	15.78	
23 31 13 16-0068 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	36.16	
For 3" WG (Class B), Add	4.81	
For 4" Or 6" WG (Class A), Add	12.82	
For Work In Restricted Working Space, Add	9.62	
For Elevated Installation >10' To 15', Add	3.21	
For Elevated Installation >15' To 20', Add	6.41	
For Elevated Installation >20' To 25', Add	8.01	
For Elevated Installation >25' To 30', Add	11.22	
For Elevated Installation >30' To 35', Add	12.82	
For Elevated Installation >35' To 40', Add	16.03	
For Elevated Installation >40', Add	17.63	
23 31 13 16-0069 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	49.76	
For 3" WG (Class B), Add	6.72	
For 4" Or 6" WG (Class A), Add	17.92	
For Work In Restricted Working Space, Add	13.44	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.96	
For Elevated Installation >20' To 25', Add	11.20	
For Elevated Installation >25' To 30', Add	15.68	
For Elevated Installation >30' To 35', Add	17.92	
For Elevated Installation >35' To 40', Add	22.40	
For Elevated Installation >40', Add	24.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0070	EA		14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	56.74	
			For 3" WG (Class B), Add	7.65	
			For 4" Or 6" WG (Class A), Add	20.39	
			For Work In Restricted Working Space, Add	15.29	
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.19	
			For Elevated Installation >20' To 25', Add	12.74	
			For Elevated Installation >25' To 30', Add	17.84	
			For Elevated Installation >30' To 35', Add	20.39	
			For Elevated Installation >35' To 40', Add	25.49	
			For Elevated Installation >40', Add	28.03	
23 31 13 16-0071	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	62.32	
			For 3" WG (Class B), Add	8.38	
			For 4" Or 6" WG (Class A), Add	22.34	
			For Work In Restricted Working Space, Add	16.76	
			For Elevated Installation >10' To 15', Add	5.59	
			For Elevated Installation >15' To 20', Add	11.17	
			For Elevated Installation >20' To 25', Add	13.97	
			For Elevated Installation >25' To 30', Add	19.55	
			For Elevated Installation >30' To 35', Add	22.34	
			For Elevated Installation >35' To 40', Add	27.93	
			For Elevated Installation >40', Add	30.72	
23 31 13 16-0072	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	67.69	
			For 3" WG (Class B), Add	9.07	
			For 4" Or 6" WG (Class A), Add	24.19	
			For Work In Restricted Working Space, Add	18.14	
			For Elevated Installation >10' To 15', Add	6.05	
			For Elevated Installation >15' To 20', Add	12.09	
			For Elevated Installation >20' To 25', Add	15.12	
			For Elevated Installation >25' To 30', Add	21.16	
			For Elevated Installation >30' To 35', Add	24.19	
			For Elevated Installation >35' To 40', Add	30.24	
			For Elevated Installation >40', Add	33.26	
			For 10" WG (Class A), Add	27.82	
23 31 13 16-0073	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	73.76	
			For 3" WG (Class B), Add	9.89	
			For 4" Or 6" WG (Class A), Add	26.37	
			For Work In Restricted Working Space, Add	19.78	
			For Elevated Installation >10' To 15', Add	6.59	
			For Elevated Installation >15' To 20', Add	13.19	
			For Elevated Installation >20' To 25', Add	16.48	
			For Elevated Installation >25' To 30', Add	23.08	
			For Elevated Installation >30' To 35', Add	26.37	
			For Elevated Installation >35' To 40', Add	32.97	
			For Elevated Installation >40', Add	36.26	
			For 10" WG (Class A), Add	30.33	
23 31 13 16-0074			Slip Joint, Galvanized, Spiral Duct And Fittings <small>(23 31 13 16)</small>		
23 31 13 16-0075			Slip Joint, Galvanized, Spiral Duct <small>(23 31 13 16-0074)</small>		
23 31 13 16-0076	LF		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	9.01	1.29
			For 3" WG (Class B), Add	1.04	
			For 4" Or 6" WG (Class A), Add	2.77	
			For 24 Gauge, Add	0.42	
			For 22 Gauge, Add	0.96	
			For 20 Gauge, Add	1.57	
			For 18 Gauge, Add	2.40	
			For 16 Gauge, Add	2.93	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.55	
			For Work In Restricted Working Space, Add	2.08	
23 31 13 16-0077	LF		6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	11.32	2.59
			For 3" WG (Class B), Add	1.25	
			For 4" Or 6" WG (Class A), Add	3.32	
			For 24 Gauge, Add	0.60	
			For 22 Gauge, Add	1.39	
			For 20 Gauge, Add	2.27	
			For 18 Gauge, Add	3.47	
			For 16 Gauge, Add	4.23	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.23	
			For Work In Restricted Working Space, Add	2.49	
23 31 13 16-0078	LF		8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	14.26	2.59
			For 3" WG (Class B), Add	1.54	
			For 4" Or 6" WG (Class A), Add	4.12	
			For 24 Gauge, Add	0.79	
			For 22 Gauge, Add	1.83	
			For 20 Gauge, Add	2.98	
			For 18 Gauge, Add	4.57	
			For 16 Gauge, Add	5.56	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.94	
			For Work In Restricted Working Space, Add	3.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0079 LF 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	17.28	2.59
For 3" WG (Class B), Add	1.86	
For 4" Or 6" WG (Class A), Add	4.95	
For 24 Gauge, Add	0.98	
For 22 Gauge, Add	2.26	
For 20 Gauge, Add	3.68	
For 18 Gauge, Add	5.65	
For 16 Gauge, Add	6.87	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.63	
For Work In Restricted Working Space, Add	3.71	
23 31 13 16-0080 LF 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	21.53	3.87
For 3" WG (Class B), Add	2.32	
For 4" Or 6" WG (Class A), Add	6.20	
For 24 Gauge, Add	1.21	
For 22 Gauge, Add	2.78	
For 20 Gauge, Add	4.53	
For 18 Gauge, Add	6.95	
For 16 Gauge, Add	8.46	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.47	
For Work In Restricted Working Space, Add	4.65	
23 31 13 16-0081 LF 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	26.35	3.87
For 3" WG (Class B), Add	2.90	
For 4" Or 6" WG (Class A), Add	7.74	
For 24 Gauge, Add	1.40	
For 22 Gauge, Add	3.22	
For 20 Gauge, Add	5.24	
For 18 Gauge, Add	8.04	
For 16 Gauge, Add	9.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.17	
For Work In Restricted Working Space, Add	5.81	
23 31 13 16-0082 LF 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	35.94	3.87
For 3" WG (Class B), Add	3.87	
For 4" Or 6" WG (Class A), Add	10.31	
For 24 Gauge, Add	2.03	
For 22 Gauge, Add	4.67	
For 20 Gauge, Add	7.62	
For 18 Gauge, Add	11.68	
For 16 Gauge, Add	14.22	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.52	
For Work In Restricted Working Space, Add	7.73	
23 31 13 16-0083 LF 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	41.31	5.16
For 3" WG (Class B), Add	4.51	
For 4" Or 6" WG (Class A), Add	12.02	
For 24 Gauge, Add	2.25	
For 22 Gauge, Add	5.18	
For 20 Gauge, Add	8.45	
For 18 Gauge, Add	12.95	
For 16 Gauge, Add	15.76	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.33	
For Work In Restricted Working Space, Add	9.02	
23 31 13 16-0084 LF 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	46.68	5.16
For 3" WG (Class B), Add	5.12	
For 4" Or 6" WG (Class A), Add	13.65	
For 24 Gauge, Add	2.51	
For 22 Gauge, Add	5.78	
For 20 Gauge, Add	9.42	
For 18 Gauge, Add	14.44	
For 16 Gauge, Add	17.58	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.29	
For Work In Restricted Working Space, Add	10.24	
23 31 13 16-0085 LF 22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	52.32	6.45
For 3" WG (Class B), Add	5.76	
For 4" Or 6" WG (Class A), Add	15.37	
For 24 Gauge, Add	2.78	
For 22 Gauge, Add	6.39	
For 20 Gauge, Add	10.42	
For 18 Gauge, Add	15.97	
For 16 Gauge, Add	19.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.28	
For Work In Restricted Working Space, Add	11.53	
23 31 13 16-0086 LF 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	58.10	7.75
For 3" WG (Class B), Add	6.45	
For 4" Or 6" WG (Class A), Add	17.20	
For 24 Gauge, Add	3.02	
For 22 Gauge, Add	6.94	
For 20 Gauge, Add	11.32	
For 18 Gauge, Add	17.35	
For 16 Gauge, Add	21.13	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.17	
For Work In Restricted Working Space, Add	12.90	

23 31 13 16-0087 Slip Joint, Galvanized, Spiral 90 Degree Elbows (23 31 13 16-0074)

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 16-0088	EA	4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	78.27	18.07
			<i>For 3" WG (Class B), Add</i>	10.46	
			<i>For 4" Or 6" WG (Class A), Add</i>	27.90	
			<i>For 24 Gauge, Add</i>	1.70	
			<i>For 22 Gauge, Add</i>	3.91	
			<i>For 20 Gauge, Add</i>	6.38	
			<i>For 18 Gauge, Add</i>	9.79	
			<i>For 16 Gauge, Add</i>	11.91	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.30	
			<i>For Work In Restricted Working Space, Add</i>	20.93	
23 31	13 16-0089	EA	6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	115.32	25.81
			<i>For 3" WG (Class B), Add</i>	15.49	
			<i>For 4" Or 6" WG (Class A), Add</i>	41.30	
			<i>For 24 Gauge, Add</i>	2.42	
			<i>For 22 Gauge, Add</i>	5.56	
			<i>For 20 Gauge, Add</i>	9.06	
			<i>For 18 Gauge, Add</i>	13.89	
			<i>For 16 Gauge, Add</i>	16.91	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	30.97	
23 31	13 16-0090	EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	158.90	33.56
			<i>For 3" WG (Class B), Add</i>	20.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.34	
			<i>For 24 Gauge, Add</i>	4.61	
			<i>For 22 Gauge, Add</i>	10.60	
			<i>For 20 Gauge, Add</i>	17.28	
			<i>For 18 Gauge, Add</i>	26.50	
			<i>For 16 Gauge, Add</i>	32.26	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.05	
			<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31	13 16-0091	EA	10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	199.21	42.59
			<i>For 3" WG (Class B), Add</i>	25.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.83	
			<i>For 24 Gauge, Add</i>	5.43	
			<i>For 22 Gauge, Add</i>	12.48	
			<i>For 20 Gauge, Add</i>	20.35	
			<i>For 18 Gauge, Add</i>	31.20	
			<i>For 16 Gauge, Add</i>	37.98	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.08	
			<i>For Work In Restricted Working Space, Add</i>	51.62	
23 31	13 16-0092	EA	12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	246.96	54.21
			<i>For 3" WG (Class B), Add</i>	32.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	86.04	
			<i>For 24 Gauge, Add</i>	6.37	
			<i>For 22 Gauge, Add</i>	14.66	
			<i>For 20 Gauge, Add</i>	23.90	
			<i>For 18 Gauge, Add</i>	36.64	
			<i>For 16 Gauge, Add</i>	44.60	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	23.58	
			<i>For Work In Restricted Working Space, Add</i>	64.53	
23 31	13 16-0093	EA	14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	270.11	59.37
			<i>For 3" WG (Class B), Add</i>	35.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.86	
			<i>For 24 Gauge, Add</i>	7.09	
			<i>For 22 Gauge, Add</i>	16.31	
			<i>For 20 Gauge, Add</i>	26.60	
			<i>For 18 Gauge, Add</i>	40.78	
			<i>For 16 Gauge, Add</i>	49.64	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.24	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31	13 16-0094	EA	16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	319.05	69.69
			<i>For 3" WG (Class B), Add</i>	41.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	111.02	
			<i>For 24 Gauge, Add</i>	8.30	
			<i>For 22 Gauge, Add</i>	19.09	
			<i>For 20 Gauge, Add</i>	31.13	
			<i>For 18 Gauge, Add</i>	47.73	
			<i>For 16 Gauge, Add</i>	58.10	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	30.71	
			<i>For Work In Restricted Working Space, Add</i>	83.27	
23 31	13 16-0095	EA	18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	391.92	86.47
			<i>For 3" WG (Class B), Add</i>	51.62	
			<i>For 4" Or 6" WG (Class A), Add</i>	137.66	
			<i>For 24 Gauge, Add</i>	9.55	
			<i>For 22 Gauge, Add</i>	21.97	
			<i>For 20 Gauge, Add</i>	35.82	
			<i>For 18 Gauge, Add</i>	54.92	
			<i>For 16 Gauge, Add</i>	66.86	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	35.34	
			<i>For Work In Restricted Working Space, Add</i>	103.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0096 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	472.69	104.54
For 3" WG (Class B), Add	62.45	
For 4" Or 6" WG (Class A), Add	166.53	
For 24 Gauge, Add	11.27	
For 22 Gauge, Add	25.93	
For 20 Gauge, Add	42.28	
For 18 Gauge, Add	64.83	
For 16 Gauge, Add	78.92	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	41.71	
For Work In Restricted Working Space, Add	124.90	
23 31 13 16-0097 EA 22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	550.99	121.32
For 3" WG (Class B), Add	73.05	
For 4" Or 6" WG (Class A), Add	194.80	
For 24 Gauge, Add	12.80	
For 22 Gauge, Add	29.43	
For 20 Gauge, Add	47.99	
For 18 Gauge, Add	73.58	
For 16 Gauge, Add	89.57	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	47.35	
For Work In Restricted Working Space, Add	146.10	
23 31 13 16-0098 EA 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	628.15	138.09
For 3" WG (Class B), Add	82.38	
For 4" Or 6" WG (Class A), Add	219.68	
For 24 Gauge, Add	15.79	
For 22 Gauge, Add	36.32	
For 20 Gauge, Add	59.22	
For 18 Gauge, Add	90.80	
For 16 Gauge, Add	110.54	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	58.43	
For Work In Restricted Working Space, Add	164.76	
23 31 13 16-0099 Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows <small>(23 31 13 16-0074)</small>		
23 31 13 16-0100 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	78.67	18.07
For 3" WG (Class B), Add	10.46	
For 4" Or 6" WG (Class A), Add	27.90	
For 24 Gauge, Add	1.78	
For 22 Gauge, Add	4.10	
For 20 Gauge, Add	6.68	
For 18 Gauge, Add	10.25	
For 16 Gauge, Add	12.47	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.59	
For Work In Restricted Working Space, Add	20.93	
23 31 13 16-0101 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	113.25	25.81
For 3" WG (Class B), Add	15.49	
For 4" Or 6" WG (Class A), Add	41.30	
For 24 Gauge, Add	2.00	
For 22 Gauge, Add	4.60	
For 20 Gauge, Add	7.51	
For 18 Gauge, Add	11.51	
For 16 Gauge, Add	14.01	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.41	
For Work In Restricted Working Space, Add	30.97	
23 31 13 16-0102 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	149.28	33.56
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	54.34	
For 24 Gauge, Add	2.68	
For 22 Gauge, Add	6.17	
For 20 Gauge, Add	10.07	
For 18 Gauge, Add	15.43	
For 16 Gauge, Add	18.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.93	
For Work In Restricted Working Space, Add	40.76	
23 31 13 16-0103 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	188.86	42.59
For 3" WG (Class B), Add	25.81	
For 4" Or 6" WG (Class A), Add	68.83	
For 24 Gauge, Add	3.36	
For 22 Gauge, Add	7.72	
For 20 Gauge, Add	12.59	
For 18 Gauge, Add	19.30	
For 16 Gauge, Add	23.49	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	12.42	
For Work In Restricted Working Space, Add	51.62	
23 31 13 16-0104 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	234.60	54.21
For 3" WG (Class B), Add	32.27	
For 4" Or 6" WG (Class A), Add	86.04	
For 24 Gauge, Add	3.90	
For 22 Gauge, Add	8.97	
For 20 Gauge, Add	14.63	
For 18 Gauge, Add	22.43	
For 16 Gauge, Add	27.30	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.43	
For Work In Restricted Working Space, Add	64.53	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0105 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	256.33	59.37
For 3" WG (Class B), Add	35.20	
For 4" Or 6" WG (Class A), Add	93.86	
For 24 Gauge, Add	4.34	
For 22 Gauge, Add	9.97	
For 20 Gauge, Add	16.26	
For 18 Gauge, Add	24.93	
For 16 Gauge, Add	30.35	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.04	
For Work In Restricted Working Space, Add	70.40	
23 31 13 16-0106 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	313.08	69.69
For 3" WG (Class B), Add	41.63	
For 4" Or 6" WG (Class A), Add	111.02	
For 24 Gauge, Add	7.11	
For 22 Gauge, Add	16.34	
For 20 Gauge, Add	26.65	
For 18 Gauge, Add	40.86	
For 16 Gauge, Add	49.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.29	
For Work In Restricted Working Space, Add	83.27	
23 31 13 16-0107 EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	387.69	86.47
For 3" WG (Class B), Add	51.62	
For 4" Or 6" WG (Class A), Add	137.66	
For 24 Gauge, Add	8.71	
For 22 Gauge, Add	20.02	
For 20 Gauge, Add	32.65	
For 18 Gauge, Add	50.06	
For 16 Gauge, Add	60.94	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	32.21	
For Work In Restricted Working Space, Add	103.25	
23 31 13 16-0108 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	471.40	104.54
For 3" WG (Class B), Add	62.45	
For 4" Or 6" WG (Class A), Add	166.53	
For 24 Gauge, Add	11.02	
For 22 Gauge, Add	25.34	
For 20 Gauge, Add	41.31	
For 18 Gauge, Add	63.34	
For 16 Gauge, Add	77.11	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.76	
For Work In Restricted Working Space, Add	124.90	
23 31 13 16-0109 EA 22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	536.31	121.32
For 3" WG (Class B), Add	73.05	
For 4" Or 6" WG (Class A), Add	194.80	
For 24 Gauge, Add	9.86	
For 22 Gauge, Add	22.68	
For 20 Gauge, Add	36.98	
For 18 Gauge, Add	56.70	
For 16 Gauge, Add	69.02	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	36.48	
For Work In Restricted Working Space, Add	146.10	
23 31 13 16-0110 EA 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	622.92	138.09
For 3" WG (Class B), Add	82.38	
For 4" Or 6" WG (Class A), Add	219.68	
For 24 Gauge, Add	14.75	
For 22 Gauge, Add	33.92	
For 20 Gauge, Add	55.30	
For 18 Gauge, Add	84.79	
For 16 Gauge, Add	103.22	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	54.56	
For Work In Restricted Working Space, Add	164.76	
23 31 13 16-0111 Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals (23 31 13 16-0074)		
23 31 13 16-0112 EA 6" x 6" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	155.01	33.56
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	54.34	
For 24 Gauge, Add	3.83	
For 22 Gauge, Add	8.81	
For 20 Gauge, Add	14.36	
For 18 Gauge, Add	22.02	
For 16 Gauge, Add	26.81	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.17	
For Work In Restricted Working Space, Add	40.76	
23 31 13 16-0113 EA 8" x 8" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	235.18	54.21
For 3" WG (Class B), Add	32.27	
For 4" Or 6" WG (Class A), Add	86.04	
For 24 Gauge, Add	4.02	
For 22 Gauge, Add	9.24	
For 20 Gauge, Add	15.06	
For 18 Gauge, Add	23.09	
For 16 Gauge, Add	28.11	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.86	
For Work In Restricted Working Space, Add	64.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0114 EA 10" x 10" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	299.59	69.69
<i>For 3" WG (Class B), Add</i>	41.63	
<i>For 4" Or 6" WG (Class A), Add</i>	111.02	
<i>For 24 Gauge, Add</i>	4.41	
<i>For 22 Gauge, Add</i>	10.14	
<i>For 20 Gauge, Add</i>	16.53	
<i>For 18 Gauge, Add</i>	25.35	
<i>For 16 Gauge, Add</i>	30.86	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	16.31	
<i>For Work In Restricted Working Space, Add</i>	83.27	
23 31 13 16-0115 EA 12" x 12" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	367.19	86.47
<i>For 3" WG (Class B), Add</i>	51.62	
<i>For 4" Or 6" WG (Class A), Add</i>	137.66	
<i>For 24 Gauge, Add</i>	4.61	
<i>For 22 Gauge, Add</i>	10.59	
<i>For 20 Gauge, Add</i>	17.27	
<i>For 18 Gauge, Add</i>	26.48	
<i>For 16 Gauge, Add</i>	32.24	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.04	
<i>For Work In Restricted Working Space, Add</i>	103.25	
23 31 13 16-0116 EA 14" x 14" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	440.10	104.54
<i>For 3" WG (Class B), Add</i>	62.45	
<i>For 4" Or 6" WG (Class A), Add</i>	166.53	
<i>For 24 Gauge, Add</i>	4.76	
<i>For 22 Gauge, Add</i>	10.94	
<i>For 20 Gauge, Add</i>	17.84	
<i>For 18 Gauge, Add</i>	27.35	
<i>For 16 Gauge, Add</i>	33.29	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.60	
<i>For Work In Restricted Working Space, Add</i>	124.90	
23 31 13 16-0117 EA 16" x 16" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	512.87	121.32
<i>For 3" WG (Class B), Add</i>	73.05	
<i>For 4" Or 6" WG (Class A), Add</i>	194.80	
<i>For 24 Gauge, Add</i>	5.17	
<i>For 22 Gauge, Add</i>	11.90	
<i>For 20 Gauge, Add</i>	19.40	
<i>For 18 Gauge, Add</i>	29.74	
<i>For 16 Gauge, Add</i>	36.20	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.14	
<i>For Work In Restricted Working Space, Add</i>	146.10	
23 31 13 16-0118 EA 18" x 18" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	576.10	138.09
<i>For 3" WG (Class B), Add</i>	82.38	
<i>For 4" Or 6" WG (Class A), Add</i>	219.68	
<i>For 24 Gauge, Add</i>	5.38	
<i>For 22 Gauge, Add</i>	12.38	
<i>For 20 Gauge, Add</i>	20.18	
<i>For 18 Gauge, Add</i>	30.95	
<i>For 16 Gauge, Add</i>	37.67	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.91	
<i>For Work In Restricted Working Space, Add</i>	164.76	
23 31 13 16-0119 EA 20" x 20" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	657.45	157.45
<i>For 3" WG (Class B), Add</i>	94.43	
<i>For 4" Or 6" WG (Class A), Add</i>	251.82	
<i>For 24 Gauge, Add</i>	5.58	
<i>For 22 Gauge, Add</i>	12.83	
<i>For 20 Gauge, Add</i>	20.92	
<i>For 18 Gauge, Add</i>	32.07	
<i>For 16 Gauge, Add</i>	39.05	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	188.87	
23 31 13 16-0120 EA 22" x 22" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	731.17	174.24
<i>For 3" WG (Class B), Add</i>	104.64	
<i>For 4" Or 6" WG (Class A), Add</i>	279.04	
<i>For 24 Gauge, Add</i>	6.71	
<i>For 22 Gauge, Add</i>	15.44	
<i>For 20 Gauge, Add</i>	25.17	
<i>For 18 Gauge, Add</i>	38.59	
<i>For 16 Gauge, Add</i>	46.98	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	24.83	
<i>For Work In Restricted Working Space, Add</i>	209.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0121	EA		24" x 24" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	793.84	189.72
			<i>For 3" WG (Class B), Add</i>	113.88	
			<i>For 4" Or 6" WG (Class A), Add</i>	303.67	
			<i>For 24 Gauge, Add</i>	6.93	
			<i>For 22 Gauge, Add</i>	15.94	
			<i>For 20 Gauge, Add</i>	26.00	
			<i>For 18 Gauge, Add</i>	39.86	
			<i>For 16 Gauge, Add</i>	48.52	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	25.65	
			<i>For Work In Restricted Working Space, Add</i>	227.75	
23 31 13 16-0122	EA		8" x 8" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	250.85	58.46
			<i>For 3" WG (Class B), Add</i>	35.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.59	
			<i>For 24 Gauge, Add</i>	3.37	
			<i>For 22 Gauge, Add</i>	7.76	
			<i>For 20 Gauge, Add</i>	12.65	
			<i>For 18 Gauge, Add</i>	19.40	
			<i>For 16 Gauge, Add</i>	23.62	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	12.48	
			<i>For Work In Restricted Working Space, Add</i>	70.19	
23 31 13 16-0123	EA		10" x 10" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	302.60	70.34
			<i>For 3" WG (Class B), Add</i>	42.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	112.52	
			<i>For 24 Gauge, Add</i>	4.26	
			<i>For 22 Gauge, Add</i>	9.80	
			<i>For 20 Gauge, Add</i>	15.98	
			<i>For 18 Gauge, Add</i>	24.50	
			<i>For 16 Gauge, Add</i>	29.82	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	15.76	
			<i>For Work In Restricted Working Space, Add</i>	84.39	
23 31 13 16-0124	EA		12" x 12" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	367.64	85.44
			<i>For 3" WG (Class B), Add</i>	51.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	136.72	
			<i>For 24 Gauge, Add</i>	5.17	
			<i>For 22 Gauge, Add</i>	11.89	
			<i>For 20 Gauge, Add</i>	19.39	
			<i>For 18 Gauge, Add</i>	29.73	
			<i>For 16 Gauge, Add</i>	36.19	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.13	
			<i>For Work In Restricted Working Space, Add</i>	102.54	
23 31 13 16-0125	EA		14" x 14" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	437.66	101.57
			<i>For 3" WG (Class B), Add</i>	61.03	
			<i>For 4" Or 6" WG (Class A), Add</i>	162.75	
			<i>For 24 Gauge, Add</i>	6.16	
			<i>For 22 Gauge, Add</i>	14.16	
			<i>For 20 Gauge, Add</i>	23.09	
			<i>For 18 Gauge, Add</i>	35.41	
			<i>For 16 Gauge, Add</i>	43.11	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	22.78	
			<i>For Work In Restricted Working Space, Add</i>	122.06	
23 31 13 16-0126	EA		16" x 16" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	557.77	130.60
			<i>For 3" WG (Class B), Add</i>	78.31	
			<i>For 4" Or 6" WG (Class A), Add</i>	208.83	
			<i>For 24 Gauge, Add</i>	7.14	
			<i>For 22 Gauge, Add</i>	16.42	
			<i>For 20 Gauge, Add</i>	26.77	
			<i>For 18 Gauge, Add</i>	41.04	
			<i>For 16 Gauge, Add</i>	49.97	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.41	
			<i>For Work In Restricted Working Space, Add</i>	156.62	
23 31 13 16-0127	EA		18" x 18" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	619.25	144.93
			<i>For 3" WG (Class B), Add</i>	86.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	231.70	
			<i>For 24 Gauge, Add</i>	8.00	
			<i>For 22 Gauge, Add</i>	18.40	
			<i>For 20 Gauge, Add</i>	29.99	
			<i>For 18 Gauge, Add</i>	45.99	
			<i>For 16 Gauge, Add</i>	55.99	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	29.59	
			<i>For Work In Restricted Working Space, Add</i>	173.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0128 EA 20" x 20" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	703.99	164.94
<i>For 3" WG (Class B), Add</i>	98.77	
<i>For 4" Or 6" WG (Class A), Add</i>	263.39	
<i>For 24 Gauge, Add</i>	9.10	
<i>For 22 Gauge, Add</i>	20.94	
<i>For 20 Gauge, Add</i>	34.14	
<i>For 18 Gauge, Add</i>	52.35	
<i>For 16 Gauge, Add</i>	63.73	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	33.68	
<i>For Work In Restricted Working Space, Add</i>	197.54	
23 31 13 16-0129 EA 22" x 22" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	753.67	175.91
<i>For 3" WG (Class B), Add</i>	105.44	
<i>For 4" Or 6" WG (Class A), Add</i>	281.18	
<i>For 24 Gauge, Add</i>	10.15	
<i>For 22 Gauge, Add</i>	23.34	
<i>For 20 Gauge, Add</i>	38.05	
<i>For 18 Gauge, Add</i>	58.34	
<i>For 16 Gauge, Add</i>	71.02	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	37.54	
<i>For Work In Restricted Working Space, Add</i>	210.88	
23 31 13 16-0130 EA 24" x 24" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	817.73	190.75
<i>For 3" WG (Class B), Add</i>	114.41	
<i>For 4" Or 6" WG (Class A), Add</i>	305.10	
<i>For 24 Gauge, Add</i>	10.99	
<i>For 22 Gauge, Add</i>	25.29	
<i>For 20 Gauge, Add</i>	41.23	
<i>For 18 Gauge, Add</i>	63.22	
<i>For 16 Gauge, Add</i>	76.96	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.68	
<i>For Work In Restricted Working Space, Add</i>	228.83	
23 31 13 16-0131 EA 10" x 10" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	331.78	77.43
<i>For 3" WG (Class B), Add</i>	46.40	
<i>For 4" Or 6" WG (Class A), Add</i>	123.74	
<i>For 24 Gauge, Add</i>	4.49	
<i>For 22 Gauge, Add</i>	10.32	
<i>For 20 Gauge, Add</i>	16.82	
<i>For 18 Gauge, Add</i>	25.79	
<i>For 16 Gauge, Add</i>	31.40	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	16.60	
<i>For Work In Restricted Working Space, Add</i>	92.81	
23 31 13 16-0132 EA 12" x 12" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	403.25	94.22
<i>For 3" WG (Class B), Add</i>	56.41	
<i>For 4" Or 6" WG (Class A), Add</i>	150.42	
<i>For 24 Gauge, Add</i>	5.44	
<i>For 22 Gauge, Add</i>	12.51	
<i>For 20 Gauge, Add</i>	20.40	
<i>For 18 Gauge, Add</i>	31.28	
<i>For 16 Gauge, Add</i>	38.08	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.13	
<i>For Work In Restricted Working Space, Add</i>	112.82	
23 31 13 16-0133 EA 14" x 14" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	479.93	111.64
<i>For 3" WG (Class B), Add</i>	67.13	
<i>For 4" Or 6" WG (Class A), Add</i>	179.00	
<i>For 24 Gauge, Add</i>	6.48	
<i>For 22 Gauge, Add</i>	14.91	
<i>For 20 Gauge, Add</i>	24.32	
<i>For 18 Gauge, Add</i>	37.28	
<i>For 16 Gauge, Add</i>	45.39	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	23.99	
<i>For Work In Restricted Working Space, Add</i>	134.25	
23 31 13 16-0134 EA 16" x 16" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	557.14	130.09
<i>For 3" WG (Class B), Add</i>	77.94	
<i>For 4" Or 6" WG (Class A), Add</i>	207.83	
<i>For 24 Gauge, Add</i>	7.51	
<i>For 22 Gauge, Add</i>	17.28	
<i>For 20 Gauge, Add</i>	28.18	
<i>For 18 Gauge, Add</i>	43.21	
<i>For 16 Gauge, Add</i>	52.60	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	27.80	
<i>For Work In Restricted Working Space, Add</i>	155.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0135	EA		18" x 18" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	623.44	145.45
			<i>For 3" WG (Class B), Add</i>	87.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	232.54	
			<i>For 24 Gauge, Add</i>	8.42	
			<i>For 22 Gauge, Add</i>	19.36	
			<i>For 20 Gauge, Add</i>	31.57	
			<i>For 18 Gauge, Add</i>	48.40	
			<i>For 16 Gauge, Add</i>	58.93	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	174.41	
23 31 13 16-0136	EA		20" x 20" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	709.08	165.45
			<i>For 3" WG (Class B), Add</i>	99.18	
			<i>For 4" Or 6" WG (Class A), Add</i>	264.47	
			<i>For 24 Gauge, Add</i>	9.58	
			<i>For 22 Gauge, Add</i>	22.04	
			<i>For 20 Gauge, Add</i>	35.93	
			<i>For 18 Gauge, Add</i>	55.10	
			<i>For 16 Gauge, Add</i>	67.07	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	35.45	
			<i>For Work In Restricted Working Space, Add</i>	198.35	
23 31 13 16-0137	EA		22" x 22" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	791.73	184.56
			<i>For 3" WG (Class B), Add</i>	110.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	295.33	
			<i>For 24 Gauge, Add</i>	10.68	
			<i>For 22 Gauge, Add</i>	24.56	
			<i>For 20 Gauge, Add</i>	40.05	
			<i>For 18 Gauge, Add</i>	61.41	
			<i>For 16 Gauge, Add</i>	74.76	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	39.52	
			<i>For Work In Restricted Working Space, Add</i>	221.50	
23 31 13 16-0138	EA		24" x 24" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	858.48	200.30
			<i>For 3" WG (Class B), Add</i>	120.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	320.25	
			<i>For 24 Gauge, Add</i>	11.57	
			<i>For 22 Gauge, Add</i>	26.62	
			<i>For 20 Gauge, Add</i>	43.40	
			<i>For 18 Gauge, Add</i>	66.54	
			<i>For 16 Gauge, Add</i>	81.00	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	42.82	
			<i>For Work In Restricted Working Space, Add</i>	240.19	
23 31 13 16-0139			Slip Joint, Galvanized, Spiral Duct Reducers <small>(23 31 13 16-0074)</small>		
23 31 13 16-0140	EA		6" x 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	110.13	25.81
			<i>For 3" WG (Class B), Add</i>	15.49	
			<i>For 4" Or 6" WG (Class A), Add</i>	41.30	
			<i>For 24 Gauge, Add</i>	1.38	
			<i>For 22 Gauge, Add</i>	3.17	
			<i>For 20 Gauge, Add</i>	5.17	
			<i>For 18 Gauge, Add</i>	7.92	
			<i>For 16 Gauge, Add</i>	9.65	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.10	
			<i>For Work In Restricted Working Space, Add</i>	30.97	
23 31 13 16-0141	EA		8" x 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	143.44	33.56
			<i>For 3" WG (Class B), Add</i>	20.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.34	
			<i>For 24 Gauge, Add</i>	1.52	
			<i>For 22 Gauge, Add</i>	3.49	
			<i>For 20 Gauge, Add</i>	5.69	
			<i>For 18 Gauge, Add</i>	8.72	
			<i>For 16 Gauge, Add</i>	10.61	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.61	
			<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13 16-0142	EA		10" x 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	180.47	42.59
			<i>For 3" WG (Class B), Add</i>	25.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.83	
			<i>For 24 Gauge, Add</i>	1.68	
			<i>For 22 Gauge, Add</i>	3.86	
			<i>For 20 Gauge, Add</i>	6.29	
			<i>For 18 Gauge, Add</i>	9.65	
			<i>For 16 Gauge, Add</i>	11.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.21	
			<i>For Work In Restricted Working Space, Add</i>	51.62	
23 31 13 16-0143	EA		12" x 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	224.30	54.21
			<i>For 3" WG (Class B), Add</i>	32.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	86.04	
			<i>For 24 Gauge, Add</i>	1.84	
			<i>For 22 Gauge, Add</i>	4.23	
			<i>For 20 Gauge, Add</i>	6.90	
			<i>For 18 Gauge, Add</i>	10.58	
			<i>For 16 Gauge, Add</i>	12.88	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.81	
			<i>For Work In Restricted Working Space, Add</i>	64.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0144 EA 14" x 12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	244.89	59.37
For 3" WG (Class B), Add	35.20	
For 4" Or 6" WG (Class A), Add	93.86	
For 24 Gauge, Add	2.05	
For 22 Gauge, Add	4.71	
For 20 Gauge, Add	7.68	
For 18 Gauge, Add	11.78	
For 16 Gauge, Add	14.34	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.58	
For Work In Restricted Working Space, Add	70.40	
23 31 13 16-0145 EA 16" x 14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	295.26	69.69
For 3" WG (Class B), Add	41.63	
For 4" Or 6" WG (Class A), Add	111.02	
For 24 Gauge, Add	3.54	
For 22 Gauge, Add	8.15	
For 20 Gauge, Add	13.28	
For 18 Gauge, Add	20.37	
For 16 Gauge, Add	24.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.11	
For Work In Restricted Working Space, Add	83.27	
23 31 13 16-0146 EA 18" x 16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	363.08	86.47
For 3" WG (Class B), Add	51.62	
For 4" Or 6" WG (Class A), Add	137.66	
For 24 Gauge, Add	3.78	
For 22 Gauge, Add	8.70	
For 20 Gauge, Add	14.19	
For 18 Gauge, Add	21.76	
For 16 Gauge, Add	26.49	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.00	
For Work In Restricted Working Space, Add	103.25	
23 31 13 16-0147 EA 20" x 18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	436.51	104.54
For 3" WG (Class B), Add	62.45	
For 4" Or 6" WG (Class A), Add	166.53	
For 24 Gauge, Add	4.04	
For 22 Gauge, Add	9.29	
For 20 Gauge, Add	15.14	
For 18 Gauge, Add	23.22	
For 16 Gauge, Add	28.27	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.94	
For Work In Restricted Working Space, Add	124.90	
23 31 13 16-0148 EA 22" x 20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	508.48	121.32
For 3" WG (Class B), Add	73.05	
For 4" Or 6" WG (Class A), Add	194.80	
For 24 Gauge, Add	4.29	
For 22 Gauge, Add	9.88	
For 20 Gauge, Add	16.10	
For 18 Gauge, Add	24.69	
For 16 Gauge, Add	30.06	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.89	
For Work In Restricted Working Space, Add	146.10	
23 31 13 16-0149 EA 24" x 22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	571.81	138.09
For 3" WG (Class B), Add	82.38	
For 4" Or 6" WG (Class A), Add	219.68	
For 24 Gauge, Add	4.52	
For 22 Gauge, Add	10.41	
For 20 Gauge, Add	16.97	
For 18 Gauge, Add	26.01	
For 16 Gauge, Add	31.67	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.74	
For Work In Restricted Working Space, Add	164.76	
23 31 13 16-0150 Slip Joint, Galvanized, Spiral Duct Couplings (23 31 13 16-0074)		
23 31 13 16-0151 EA 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	73.02	18.07
For 3" WG (Class B), Add	10.46	
For 4" Or 6" WG (Class A), Add	27.90	
For 24 Gauge, Add	0.65	
For 22 Gauge, Add	1.50	
For 20 Gauge, Add	2.45	
For 18 Gauge, Add	3.75	
For 16 Gauge, Add	4.56	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.41	
For Work In Restricted Working Space, Add	20.93	
23 31 13 16-0152 EA 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	106.94	25.81
For 3" WG (Class B), Add	15.49	
For 4" Or 6" WG (Class A), Add	41.30	
For 24 Gauge, Add	0.74	
For 22 Gauge, Add	1.70	
For 20 Gauge, Add	2.78	
For 18 Gauge, Add	4.26	
For 16 Gauge, Add	5.18	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.74	
For Work In Restricted Working Space, Add	30.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 16-0153	EA	8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	139.85	33.56
			<i>For 3" WG (Class B), Add</i>	20.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.34	
			<i>For 24 Gauge, Add</i>	0.80	
			<i>For 22 Gauge, Add</i>	1.84	
			<i>For 20 Gauge, Add</i>	2.99	
			<i>For 18 Gauge, Add</i>	4.59	
			<i>For 16 Gauge, Add</i>	5.59	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.95	
			<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31	13 16-0154	EA	10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	176.36	42.59
			<i>For 3" WG (Class B), Add</i>	25.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	68.83	
			<i>For 24 Gauge, Add</i>	0.86	
			<i>For 22 Gauge, Add</i>	1.97	
			<i>For 20 Gauge, Add</i>	3.21	
			<i>For 18 Gauge, Add</i>	4.92	
			<i>For 16 Gauge, Add</i>	5.99	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.17	
			<i>For Work In Restricted Working Space, Add</i>	51.62	
23 31	13 16-0155	EA	12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	219.67	54.21
			<i>For 3" WG (Class B), Add</i>	32.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	86.04	
			<i>For 24 Gauge, Add</i>	0.91	
			<i>For 22 Gauge, Add</i>	2.10	
			<i>For 20 Gauge, Add</i>	3.43	
			<i>For 18 Gauge, Add</i>	5.26	
			<i>For 16 Gauge, Add</i>	6.40	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.38	
			<i>For Work In Restricted Working Space, Add</i>	64.53	
23 31	13 16-0156	EA	14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	239.51	59.37
			<i>For 3" WG (Class B), Add</i>	35.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.86	
			<i>For 24 Gauge, Add</i>	0.97	
			<i>For 22 Gauge, Add</i>	2.24	
			<i>For 20 Gauge, Add</i>	3.65	
			<i>For 18 Gauge, Add</i>	5.59	
			<i>For 16 Gauge, Add</i>	6.80	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.60	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31	13 16-0157	EA	16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	282.93	69.69
			<i>For 3" WG (Class B), Add</i>	41.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	111.02	
			<i>For 24 Gauge, Add</i>	1.08	
			<i>For 22 Gauge, Add</i>	2.47	
			<i>For 20 Gauge, Add</i>	4.04	
			<i>For 18 Gauge, Add</i>	6.19	
			<i>For 16 Gauge, Add</i>	7.53	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.98	
			<i>For Work In Restricted Working Space, Add</i>	83.27	
23 31	13 16-0158	EA	18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	349.83	86.47
			<i>For 3" WG (Class B), Add</i>	51.62	
			<i>For 4" Or 6" WG (Class A), Add</i>	137.66	
			<i>For 24 Gauge, Add</i>	1.13	
			<i>For 22 Gauge, Add</i>	2.61	
			<i>For 20 Gauge, Add</i>	4.25	
			<i>For 18 Gauge, Add</i>	6.52	
			<i>For 16 Gauge, Add</i>	7.94	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.20	
			<i>For Work In Restricted Working Space, Add</i>	103.25	
23 31	13 16-0159	EA	20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	422.34	104.54
			<i>For 3" WG (Class B), Add</i>	62.45	
			<i>For 4" Or 6" WG (Class A), Add</i>	166.53	
			<i>For 24 Gauge, Add</i>	1.20	
			<i>For 22 Gauge, Add</i>	2.77	
			<i>For 20 Gauge, Add</i>	4.52	
			<i>For 18 Gauge, Add</i>	6.92	
			<i>For 16 Gauge, Add</i>	8.43	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.45	
			<i>For Work In Restricted Working Space, Add</i>	124.90	
23 31	13 16-0160	EA	22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	493.26	243.92
			<i>For 3" WG (Class B), Add</i>	73.05	
			<i>For 4" Or 6" WG (Class A), Add</i>	194.80	
			<i>For 24 Gauge, Add</i>	1.25	
			<i>For 22 Gauge, Add</i>	2.88	
			<i>For 20 Gauge, Add</i>	4.69	
			<i>For 18 Gauge, Add</i>	7.19	
			<i>For 16 Gauge, Add</i>	8.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.63	
			<i>For Work In Restricted Working Space, Add</i>	146.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0161 EA 24", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	555.79	274.89
<i>For 3" WG (Class B), Add</i>	82.38	
<i>For 4" Or 6" WG (Class A), Add</i>	219.68	
<i>For 24 Gauge, Add</i>	1.32	
<i>For 22 Gauge, Add</i>	3.04	
<i>For 20 Gauge, Add</i>	4.95	
<i>For 18 Gauge, Add</i>	7.59	
<i>For 16 Gauge, Add</i>	9.24	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.88	
<i>For Work In Restricted Working Space, Add</i>	164.76	
23 31 13 16-0162 Slip Joint, Galvanized, Spiral Duct Caps <small>(23 31 13 16-0074)</small>		
23 31 13 16-0163 EA 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	38.70	18.07
<i>For 3" WG (Class B), Add</i>	5.23	
<i>For 4" Or 6" WG (Class A), Add</i>	13.95	
<i>For 24 Gauge, Add</i>	0.76	
<i>For 22 Gauge, Add</i>	1.76	
<i>For 20 Gauge, Add</i>	2.87	
<i>For 18 Gauge, Add</i>	4.39	
<i>For 16 Gauge, Add</i>	5.35	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.83	
<i>For Work In Restricted Working Space, Add</i>	10.46	
23 31 13 16-0164 EA 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	55.90	25.81
<i>For 3" WG (Class B), Add</i>	7.74	
<i>For 4" Or 6" WG (Class A), Add</i>	20.65	
<i>For 24 Gauge, Add</i>	0.86	
<i>For 22 Gauge, Add</i>	1.97	
<i>For 20 Gauge, Add</i>	3.21	
<i>For 18 Gauge, Add</i>	4.92	
<i>For 16 Gauge, Add</i>	5.99	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.17	
<i>For Work In Restricted Working Space, Add</i>	15.49	
23 31 13 16-0165 EA 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	72.61	34.85
<i>For 3" WG (Class B), Add</i>	10.19	
<i>For 4" Or 6" WG (Class A), Add</i>	27.17	
<i>For 24 Gauge, Add</i>	0.94	
<i>For 22 Gauge, Add</i>	2.16	
<i>For 20 Gauge, Add</i>	3.52	
<i>For 18 Gauge, Add</i>	5.39	
<i>For 16 Gauge, Add</i>	6.57	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.47	
<i>For Work In Restricted Working Space, Add</i>	20.38	
23 31 13 16-0166 EA 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	91.25	43.88
<i>For 3" WG (Class B), Add</i>	12.91	
<i>For 4" Or 6" WG (Class A), Add</i>	34.42	
<i>For 24 Gauge, Add</i>	1.04	
<i>For 22 Gauge, Add</i>	2.40	
<i>For 20 Gauge, Add</i>	3.91	
<i>For 18 Gauge, Add</i>	5.99	
<i>For 16 Gauge, Add</i>	7.29	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.86	
<i>For Work In Restricted Working Space, Add</i>	25.81	
23 31 13 16-0167 EA 12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	113.34	54.21
<i>For 3" WG (Class B), Add</i>	16.13	
<i>For 4" Or 6" WG (Class A), Add</i>	43.02	
<i>For 24 Gauge, Add</i>	1.16	
<i>For 22 Gauge, Add</i>	2.66	
<i>For 20 Gauge, Add</i>	4.34	
<i>For 18 Gauge, Add</i>	6.66	
<i>For 16 Gauge, Add</i>	8.11	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.28	
<i>For Work In Restricted Working Space, Add</i>	32.27	
23 31 13 16-0168 EA 14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	123.69	59.37
<i>For 3" WG (Class B), Add</i>	17.60	
<i>For 4" Or 6" WG (Class A), Add</i>	46.93	
<i>For 24 Gauge, Add</i>	1.27	
<i>For 22 Gauge, Add</i>	2.93	
<i>For 20 Gauge, Add</i>	4.77	
<i>For 18 Gauge, Add</i>	7.31	
<i>For 16 Gauge, Add</i>	8.90	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.71	
<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13 16-0169 EA 16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	143.21	68.41
<i>For 3" WG (Class B), Add</i>	20.38	
<i>For 4" Or 6" WG (Class A), Add</i>	54.34	
<i>For 24 Gauge, Add</i>	1.47	
<i>For 22 Gauge, Add</i>	3.38	
<i>For 20 Gauge, Add</i>	5.51	
<i>For 18 Gauge, Add</i>	8.45	
<i>For 16 Gauge, Add</i>	10.29	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.44	
<i>For Work In Restricted Working Space, Add</i>	40.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0170 EA 18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	196.84	86.47
For 3" WG (Class B), Add	25.81	
For 4" Or 6" WG (Class A), Add	68.83	
For 24 Gauge, Add	4.95	
For 22 Gauge, Add	11.39	
For 20 Gauge, Add	18.57	
For 18 Gauge, Add	28.47	
For 16 Gauge, Add	34.66	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.32	
For Work In Restricted Working Space, Add	51.62	
23 31 13 16-0171 EA 20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	241.95	107.12
For 3" WG (Class B), Add	32.27	
For 4" Or 6" WG (Class A), Add	86.04	
For 24 Gauge, Add	5.37	
For 22 Gauge, Add	12.35	
For 20 Gauge, Add	20.14	
For 18 Gauge, Add	30.88	
For 16 Gauge, Add	37.59	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.87	
For Work In Restricted Working Space, Add	64.53	
23 31 13 16-0172 EA 22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	263.58	117.44
For 3" WG (Class B), Add	35.20	
For 4" Or 6" WG (Class A), Add	93.86	
For 24 Gauge, Add	5.79	
For 22 Gauge, Add	13.31	
For 20 Gauge, Add	21.70	
For 18 Gauge, Add	33.27	
For 16 Gauge, Add	40.50	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.41	
For Work In Restricted Working Space, Add	70.40	
23 31 13 16-0173 EA 24", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	305.66	136.80
For 3" WG (Class B), Add	41.19	
For 4" Or 6" WG (Class A), Add	109.84	
For 24 Gauge, Add	6.21	
For 22 Gauge, Add	14.29	
For 20 Gauge, Add	23.30	
For 18 Gauge, Add	35.73	
For 16 Gauge, Add	43.50	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.99	
For Work In Restricted Working Space, Add	82.38	

23 31 13 19 Metal Duct Fittings ^(23 31 13)

23 31 13 19-0001 Sheet Metal Baffles ^(23 31 13 19)

23 31 13 19-0002 LF Sheet Metal Baffles Under Raised Floor.....	45.42	36.74
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.96	
For Elevated Installation >20' To 25', Add	11.20	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.91	
For Elevated Installation >35' To 40', Add	22.39	
For Elevated Installation >40', Add	24.63	

23 31 13 19-0003 Duct Register Boots ^(23 31 13 19)

23 31 13 19-0004 EA 10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	41.17	17.49
For Stainless Steel, Add	8.02	
23 31 13 19-0005 EA 10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	41.17	17.49
For Stainless Steel, Add	8.02	
23 31 13 19-0006 EA 12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	44.10	18.89
For Stainless Steel, Add	8.20	
23 31 13 19-0007 EA 12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	44.10	18.89
For Stainless Steel, Add	8.20	
23 31 13 19-0008 EA 12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	45.62	18.89
For Stainless Steel, Add	10.18	
23 31 13 19-0009 EA 14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	47.65	20.30
For Stainless Steel, Add	9.18	
23 31 13 19-0010 EA 14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	47.65	20.30
For Stainless Steel, Add	9.18	
23 31 13 19-0011 EA 14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	48.60	20.30
For Stainless Steel, Add	10.41	
23 31 13 19-0012 EA 10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	48.94	21.70
For Stainless Steel, Add	7.22	
23 31 13 19-0013 EA 12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	51.91	23.10
For Stainless Steel, Add	7.44	
23 31 13 19-0014 EA 12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	55.79	23.10
For Stainless Steel, Add	12.48	
23 31 13 19-0015 EA 14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	55.05	24.49
For Stainless Steel, Add	7.88	
23 31 13 19-0016 EA 14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	58.85	24.49
For Stainless Steel, Add	12.82	
23 31 13 19-0017 EA 12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel.....	43.18	18.89
For Stainless Steel, Add	7.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 19-0018 EA 12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	43.18	18.89
<i>For Stainless Steel, Add</i>	7.01	
23 31 13 19-0019 EA 14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	46.59	20.30
<i>For Stainless Steel, Add</i>	7.80	
23 31 13 19-0020 EA 14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel.....	47.50	20.30
<i>For Stainless Steel, Add</i>	8.98	
23 31 13 19-0021 EA 10" x 4" x 6" Register Boot, Center, Galvanized Steel.....	49.07	21.70
<i>For Stainless Steel, Add</i>	7.38	
23 31 13 19-0022 EA 12" x 4" x 6" Register Boot, Center, Galvanized Steel.....	52.02	23.10
<i>For Stainless Steel, Add</i>	7.58	
23 31 13 19-0023 EA 12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	43.79	18.89
<i>For Stainless Steel, Add</i>	7.80	
23 31 13 19-0024 EA 14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	46.96	20.30
<i>For Stainless Steel, Add</i>	8.28	
23 31 13 19-0025 EA 10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	41.17	17.49
<i>For Stainless Steel, Add</i>	8.02	
23 31 13 19-0026 EA 12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	44.10	18.89
<i>For Stainless Steel, Add</i>	8.20	
23 31 13 19-0027 EA 14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel.....	47.65	20.30
<i>For Stainless Steel, Add</i>	9.18	
23 31 13 19-0028 EA 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	47.65	20.30
<i>For Stainless Steel, Add</i>	9.18	
23 31 13 19-0029 EA 10" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	48.94	21.70
<i>For Stainless Steel, Add</i>	7.22	
23 31 13 19-0030 EA 12" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	51.91	23.10
<i>For Stainless Steel, Add</i>	7.44	
23 31 13 19-0031 EA 12" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	55.79	23.10
<i>For Stainless Steel, Add</i>	12.48	
23 31 13 19-0032 EA 14" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	58.59	24.49
<i>For Stainless Steel, Add</i>	12.48	
23 31 13 23 Galvanized Steel Welded Duct (23 31 13)		
<i>Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.</i>		
23 31 13 23-0001 Welded Steel Ductwork (23 31 13 23)		
<i>Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.</i>		
23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen (23 31 13 23-0001)		
<i>Note: Also includes special exhaust systems and waste.</i>		
23 31 13 23-0003 LB Galvanized Steel Welded Duct.....	24.95	11.14
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	1.94	
<i>For Work In Restricted Working Space, Add</i>	6.70	
<i>For Elevated Installation >10' To 15', Add</i>	2.23	
<i>For Elevated Installation >15' To 20', Add</i>	4.47	
<i>For Elevated Installation >20' To 25', Add</i>	5.58	
<i>For Elevated Installation >25' To 30', Add</i>	7.82	
<i>For Elevated Installation >30' To 35', Add</i>	8.93	
<i>For Elevated Installation >35' To 40', Add</i>	11.17	
<i>For Elevated Installation >40', Add</i>	12.28	
23 31 13 23-0004 Black Steel Ductwork (23 31 13 23-0001)		
23 31 13 23-0005 LB Black Steel Ductwork.....	23.56	11.49
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	0.44	
<i>For Work In Restricted Working Space, Add</i>	6.89	
<i>For Elevated Installation >10' To 15', Add</i>	2.30	
<i>For Elevated Installation >15' To 20', Add</i>	4.59	
<i>For Elevated Installation >20' To 25', Add</i>	5.74	
<i>For Elevated Installation >25' To 30', Add</i>	8.04	
<i>For Elevated Installation >30' To 35', Add</i>	9.19	
<i>For Elevated Installation >35' To 40', Add</i>	11.49	
<i>For Elevated Installation >40', Add</i>	12.63	
23 31 16 Nonmetal Ducts (23 31)		
23 31 16 13 Fibrous-Glass Ducts (23 31 16)		
23 31 16 13-0001 Glass Fiber Duct Board (23 31 16 13)		
<i>Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.</i>		
23 31 16 13-0002 SF 1" Glass Fiber Duct Board (EI-475).....	11.03	2.30
23 31 16 13-0003 SF 1-1/2" Glass Fiber Duct Board (EI-800).....	12.87	2.53
23 31 16 13-0004 SF 2" Glass Fiber Duct Board (EI-800).....	14.79	2.78
23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts (23 31 16)		
23 31 16 16-0001 Fiber Reinforced Round Plastic Duct (23 31 16 16)		
23 31 16 16-0002 Fiber Reinforced Round Plastic Duct (23 31 16 16-0001)		
23 31 16 16-0003 LF 2" Fiber Reinforced Plastic Duct.....	17.87	6.87
23 31 16 16-0004 LF 3" Fiber Reinforced Plastic Duct.....	22.10	8.04
23 31 16 16-0005 LF 4" Fiber Reinforced Plastic Duct.....	30.47	11.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 31 16 16-0006	LF	6" Fiber Reinforced Plastic Duct		39.96	14.91
23 31 16 16-0007	LF	8" Fiber Reinforced Plastic Duct		50.50	18.67
23 31 16 16-0008	LF	10" Fiber Reinforced Plastic Duct		60.81	22.44
23 31 16 16-0009	LF	12" Fiber Reinforced Plastic Duct		69.00	26.20
23 31 16 16-0010	LF	14" Fiber Reinforced Plastic Duct		78.04	28.66
23 31 16 16-0011	LF	16" Fiber Reinforced Plastic Duct		84.09	30.47
23 31 16 16-0012	LF	18" Fiber Reinforced Plastic Duct		102.43	34.24
23 31 16 16-0013	LF	20" Fiber Reinforced Plastic Duct		108.16	36.70
23 31 16 16-0014	LF	24" Fiber Reinforced Plastic Duct		129.90	39.17
23 31 16 16-0015	LF	30" Fiber Reinforced Plastic Duct		149.10	45.38
23 31 16 16-0016	LF	36" Fiber Reinforced Plastic Duct		173.45	54.72
23 31 16 16-0017	LF	42" Fiber Reinforced Plastic Duct		224.90	60.95
23 31 16 16-0018	LF	48" Fiber Reinforced Plastic Duct		252.03	68.47
23 31 16 16-0019	LF	54" Fiber Reinforced Plastic Duct		281.34	78.45
23 31 16 16-0020	LF	60" Fiber Reinforced Plastic Duct		320.73	91.55
23 31 16 16-0021	LF	66" Fiber Reinforced Plastic Duct		352.02	112.04
23 31 16 16-0022	LF	72" Fiber Reinforced Plastic Duct		429.70	136.93
23 31 16 16-0023		Fiber Reinforced Plastic Bell	(23 31 16 16-0001)		
23 31 16 16-0024	EA	2" Fiber Reinforced Plastic Bell.....		76.63	27.88
23 31 16 16-0025	EA	3" Fiber Reinforced Plastic Bell.....		92.22	33.07
23 31 16 16-0026	EA	4" Fiber Reinforced Plastic Bell.....		106.50	38.90
23 31 16 16-0027	EA	6" Fiber Reinforced Plastic Bell.....		140.25	51.87
23 31 16 16-0028	EA	8" Fiber Reinforced Plastic Bell.....		171.40	64.84
23 31 16 16-0029	EA	10" Fiber Reinforced Plastic Bell.....		199.96	77.81
23 31 16 16-0030	EA	12" Fiber Reinforced Plastic Bell.....		247.98	96.61
23 31 16 16-0031	EA	14" Fiber Reinforced Plastic Bell.....		264.87	103.74
23 31 16 16-0032	EA	16" Fiber Reinforced Plastic Bell.....		286.94	110.88
23 31 16 16-0033	EA	18" Fiber Reinforced Plastic Bell.....		309.03	119.30
23 31 16 16-0034	EA	20" Fiber Reinforced Plastic Bell.....		337.60	129.67
23 31 16 16-0035	EA	24" Fiber Reinforced Plastic Bell.....		389.61	142.64
23 31 16 16-0036	EA	30" Fiber Reinforced Plastic Bell.....		449.44	155.61
23 31 16 16-0037	EA	36" Fiber Reinforced Plastic Bell.....		509.24	175.06
23 31 16 16-0038	EA	42" Fiber Reinforced Plastic Bell.....		569.01	194.51
23 31 16 16-0039	EA	48" Fiber Reinforced Plastic Bell.....		628.75	213.97
23 31 16 16-0040	EA	54" Fiber Reinforced Plastic Bell.....		779.52	259.35
23 31 16 16-0041	EA	60" Fiber Reinforced Plastic Bell.....		935.27	324.19
23 31 16 16-0042	EA	66" Fiber Reinforced Plastic Bell.....		1,122.27	389.02
23 31 16 16-0043	EA	72" Fiber Reinforced Plastic Bell.....		1,283.57	440.89
23 31 16 16-0044		Fiber Reinforced Plastic Flange	(23 31 16 16-0001)		
23 31 16 16-0045	EA	2" Fiber Reinforced Plastic Flange.....		118.36	27.88
23 31 16 16-0046	EA	3" Fiber Reinforced Plastic Flange.....		136.56	33.07
23 31 16 16-0047	EA	4" Fiber Reinforced Plastic Flange.....		156.06	38.90
23 31 16 16-0048	EA	6" Fiber Reinforced Plastic Flange.....		202.85	51.87
23 31 16 16-0049	EA	8" Fiber Reinforced Plastic Flange.....		247.04	64.84
23 31 16 16-0050	EA	10" Fiber Reinforced Plastic Flange.....		291.25	77.81
23 31 16 16-0051	EA	12" Fiber Reinforced Plastic Flange.....		344.49	96.61
23 31 16 16-0052	EA	14" Fiber Reinforced Plastic Flange.....		382.24	103.74
23 31 16 16-0053	EA	16" Fiber Reinforced Plastic Flange.....		417.36	110.88
23 31 16 16-0054	EA	18" Fiber Reinforced Plastic Flange.....		444.66	119.30
23 31 16 16-0055	EA	20" Fiber Reinforced Plastic Flange.....		468.01	129.67
23 31 16 16-0056	EA	24" Fiber Reinforced Plastic Flange.....		546.10	142.64
23 31 16 16-0057	EA	30" Fiber Reinforced Plastic Flange.....		600.72	155.61
23 31 16 16-0058	EA	36" Fiber Reinforced Plastic Flange.....		736.15	175.06
23 31 16 16-0059	EA	42" Fiber Reinforced Plastic Flange.....		819.39	194.51
23 31 16 16-0060	EA	48" Fiber Reinforced Plastic Flange.....		928.69	213.97
23 31 16 16-0061	EA	54" Fiber Reinforced Plastic Flange.....		1,092.50	259.35
23 31 16 16-0062	EA	60" Fiber Reinforced Plastic Flange.....		1,308.24	324.19
23 31 16 16-0063	EA	66" Fiber Reinforced Plastic Flange.....		1,523.94	389.02
23 31 16 16-0064	EA	72" Fiber Reinforced Plastic Flange.....		1,742.62	440.89
23 31 16 16-0065		Fiber Reinforced Plastic 90 Degree Elbow	(23 31 16 16-0001)		
23 31 16 16-0066	EA	2" Fiber Reinforced Plastic 90 Degree Elbow		198.11	67.17
23 31 16 16-0067	EA	3" Fiber Reinforced Plastic 90 Degree Elbow		232.94	80.27
23 31 16 16-0068	EA	4" Fiber Reinforced Plastic 90 Degree Elbow		270.37	93.36
23 31 16 16-0069	EA	6" Fiber Reinforced Plastic 90 Degree Elbow		350.93	124.49
23 31 16 16-0070	EA	8" Fiber Reinforced Plastic 90 Degree Elbow		431.49	155.61
23 31 16 16-0071	EA	10" Fiber Reinforced Plastic 90 Degree Elbow		512.07	186.73
23 31 16 16-0072	EA	12" Fiber Reinforced Plastic 90 Degree Elbow		629.56	232.25
23 31 16 16-0073	EA	14" Fiber Reinforced Plastic 90 Degree Elbow		709.74	245.86
23 31 16 16-0074	EA	16" Fiber Reinforced Plastic 90 Degree Elbow		805.00	267.00
23 31 16 16-0075	EA	18" Fiber Reinforced Plastic 90 Degree Elbow		951.93	286.32
23 31 16 16-0076	EA	20" Fiber Reinforced Plastic 90 Degree Elbow		1,092.58	311.22
23 31 16 16-0077	EA	24" Fiber Reinforced Plastic 90 Degree Elbow		1,261.82	342.34
23 31 16 16-0078	EA	30" Fiber Reinforced Plastic 90 Degree Elbow		1,678.80	373.47
23 31 16 16-0079	EA	36" Fiber Reinforced Plastic 90 Degree Elbow		2,134.86	420.15
23 31 16 16-0080	EA	42" Fiber Reinforced Plastic 90 Degree Elbow		2,786.48	466.96



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0081	EA		48" Fiber Reinforced Plastic 90 Degree Elbow	3,294.72	513.64
23 31 16 16-0082	EA		54" Fiber Reinforced Plastic 90 Degree Elbow	3,906.42	622.45
23 31 16 16-0083	EA		60" Fiber Reinforced Plastic 90 Degree Elbow	4,739.57	778.05
23 31 16 16-0084	EA		66" Fiber Reinforced Plastic 90 Degree Elbow	5,572.23	933.41
23 31 16 16-0085	EA		72" Fiber Reinforced Plastic 90 Degree Elbow	6,353.28	1,057.77
23 31 16 16-0086			Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0087	EA		2" Fiber Reinforced Plastic 45 Degree Elbow	169.41	67.17
23 31 16 16-0088	EA		3" Fiber Reinforced Plastic 45 Degree Elbow	199.03	80.27
23 31 16 16-0089	EA		4" Fiber Reinforced Plastic 45 Degree Elbow	231.22	93.36
23 31 16 16-0090	EA		6" Fiber Reinforced Plastic 45 Degree Elbow	293.55	124.49
23 31 16 16-0091	EA		8" Fiber Reinforced Plastic 45 Degree Elbow	355.85	155.61
23 31 16 16-0092	EA		10" Fiber Reinforced Plastic 45 Degree Elbow	423.48	186.73
23 31 16 16-0093	EA		12" Fiber Reinforced Plastic 45 Degree Elbow	522.72	232.25
23 31 16 16-0094	EA		14" Fiber Reinforced Plastic 45 Degree Elbow	566.18	245.86
23 31 16 16-0095	EA		16" Fiber Reinforced Plastic 45 Degree Elbow	669.14	266.88
23 31 16 16-0096	EA		18" Fiber Reinforced Plastic 45 Degree Elbow	764.49	286.58
23 31 16 16-0097	EA		20" Fiber Reinforced Plastic 45 Degree Elbow	878.63	311.22
23 31 16 16-0098	EA		24" Fiber Reinforced Plastic 45 Degree Elbow	1,008.23	342.08
23 31 16 16-0099	EA		30" Fiber Reinforced Plastic 45 Degree Elbow	1,261.01	373.21
23 31 16 16-0100	EA		36" Fiber Reinforced Plastic 45 Degree Elbow	1,532.97	420.54
23 31 16 16-0101	EA		42" Fiber Reinforced Plastic 45 Degree Elbow	1,934.17	467.22
23 31 16 16-0102	EA		48" Fiber Reinforced Plastic 45 Degree Elbow	2,264.48	513.64
23 31 16 16-0103	EA		54" Fiber Reinforced Plastic 45 Degree Elbow	2,701.43	622.45
23 31 16 16-0104	EA		60" Fiber Reinforced Plastic 45 Degree Elbow	3,247.68	778.05
23 31 16 16-0105	EA		66" Fiber Reinforced Plastic 45 Degree Elbow	3,821.75	931.59
23 31 16 16-0106	EA		72" Fiber Reinforced Plastic 45 Degree Elbow	4,320.81	1,058.80
23 31 16 16-0107			Fiber Reinforced Plastic Tee (23 31 16 16-0001)		
23 31 16 16-0108	EA		2" Fiber Reinforced Plastic Tee	258.32	100.24
23 31 16 16-0109	EA		3" Fiber Reinforced Plastic Tee	305.58	120.73
23 31 16 16-0110	EA		4" Fiber Reinforced Plastic Tee	350.78	140.05
23 31 16 16-0111	EA		6" Fiber Reinforced Plastic Tee	454.69	186.73
23 31 16 16-0112	EA		8" Fiber Reinforced Plastic Tee	556.53	232.25
23 31 16 16-0113	EA		10" Fiber Reinforced Plastic Tee	664.50	281.39
23 31 16 16-0114	EA		12" Fiber Reinforced Plastic Tee	803.19	341.04
23 31 16 16-0115	EA		14" Fiber Reinforced Plastic Tee	875.98	369.05
23 31 16 16-0116	EA		16" Fiber Reinforced Plastic Tee	1,007.22	400.95
23 31 16 16-0117	EA		18" Fiber Reinforced Plastic Tee	1,133.12	429.48
23 31 16 16-0118	EA		20" Fiber Reinforced Plastic Tee	1,299.81	466.96
23 31 16 16-0119	EA		24" Fiber Reinforced Plastic Tee	1,482.02	513.64
23 31 16 16-0120	EA		30" Fiber Reinforced Plastic Tee	1,755.04	560.07
23 31 16 16-0121	EA		36" Fiber Reinforced Plastic Tee	2,094.13	630.48
23 31 16 16-0122	EA		42" Fiber Reinforced Plastic Tee	2,732.33	700.51
23 31 16 16-0123	EA		48" Fiber Reinforced Plastic Tee	3,240.57	770.66
23 31 16 16-0124	EA		54" Fiber Reinforced Plastic Tee	3,904.48	934.31
23 31 16 16-0125	EA		60" Fiber Reinforced Plastic Tee	4,684.52	1,167.60
23 31 16 16-0126	EA		66" Fiber Reinforced Plastic Tee	5,463.81	1,400.37
23 31 16 16-0127	EA		72" Fiber Reinforced Plastic Tee	6,167.51	1,587.88
23 31 16 16-0128			Fiber Reinforced Plastic Lateral Joint (23 31 16 16-0001)		
23 31 16 16-0129	EA		2" Fiber Reinforced Plastic Lateral Joint	219.17	100.24
23 31 16 16-0130	EA		3" Fiber Reinforced Plastic Lateral Joint	258.59	120.73
23 31 16 16-0131	EA		4" Fiber Reinforced Plastic Lateral Joint	296.05	140.05
23 31 16 16-0132	EA		6" Fiber Reinforced Plastic Lateral Joint	379.14	186.73
23 31 16 16-0133	EA		8" Fiber Reinforced Plastic Lateral Joint	460.12	232.25
23 31 16 16-0134	EA		10" Fiber Reinforced Plastic Lateral Joint	552.41	281.39
23 31 16 16-0135	EA		12" Fiber Reinforced Plastic Lateral Joint	662.65	341.30
23 31 16 16-0136	EA		14" Fiber Reinforced Plastic Lateral Joint	718.91	368.80
23 31 16 16-0137	EA		16" Fiber Reinforced Plastic Lateral Joint	788.41	401.08
23 31 16 16-0138	EA		18" Fiber Reinforced Plastic Lateral Joint	852.07	429.88
23 31 16 16-0139	EA		20" Fiber Reinforced Plastic Lateral Joint	930.02	467.22
23 31 16 16-0140	EA		24" Fiber Reinforced Plastic Lateral Joint	1,028.19	513.64
23 31 16 16-0141	EA		30" Fiber Reinforced Plastic Lateral Joint	1,133.75	559.81
23 31 16 16-0142	EA		36" Fiber Reinforced Plastic Lateral Joint	1,279.69	630.09
23 31 16 16-0143	EA		42" Fiber Reinforced Plastic Lateral Joint	1,429.06	700.90
23 31 16 16-0144	EA		48" Fiber Reinforced Plastic Lateral Joint	1,570.82	770.40
23 31 16 16-0145	EA		54" Fiber Reinforced Plastic Lateral Joint	1,878.64	931.59
23 31 16 16-0146	EA		60" Fiber Reinforced Plastic Lateral Joint	2,301.53	1,169.67
23 31 16 16-0147	EA		66" Fiber Reinforced Plastic Lateral Joint	2,779.04	1,401.40
23 31 16 16-0148	EA		72" Fiber Reinforced Plastic Lateral Joint	3,115.92	1,587.88
23 31 16 16-0149			Fiber Reinforced Plastic One Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0150	EA		2" Fiber Reinforced Plastic One Piece Reducer	179.88	67.31
23 31 16 16-0151	EA		3" Fiber Reinforced Plastic One Piece Reducer	212.14	80.39
23 31 16 16-0152	EA		4" Fiber Reinforced Plastic One Piece Reducer	249.58	93.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer	322.24	124.49
23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer	389.76	155.61
23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer	468.96	187.51
23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer	559.23	232.25
23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer	597.48	245.86
23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer	658.70	266.88
23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer	722.76	286.58
23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer	805.60	311.22
23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer	915.54	342.73
23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer	1,025.10	374.11
23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer	1,159.99	420.54
23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer	1,295.16	467.22
23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer	1,455.94	513.64
23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer	1,728.57	622.45
23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer	2,071.39	778.05
23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer	2,335.08	931.59
23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer	2,625.48	1,058.80

23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer (23 31 16 16-0001)

23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer	211.18	67.31
23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer	233.00	80.39
23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer	270.44	93.36
23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer	350.93	124.49
23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer	431.49	155.61
23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer	513.30	187.51
23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer	616.61	232.25
23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer	670.51	245.86
23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer	731.73	266.88
23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer	821.87	286.58
23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer	1,024.69	311.22
23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer	1,236.35	342.73
23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer	1,327.65	374.11
23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer	1,509.49	420.54
23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer	1,639.45	467.22
23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer	1,795.00	513.64
23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer	2,002.43	622.45
23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer	2,329.60	778.05
23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer	2,621.98	931.59
23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer	2,886.30	1,058.80

23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers (23 31 16 16-0001)

23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper	359.80	67.17
23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper	407.69	80.27
23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper	455.55	93.36
23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper	546.55	124.49
23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper	650.58	155.61
23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper	741.59	186.73
23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper	856.48	232.25
23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper	944.48	245.86
23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper	1,044.96	267.00
23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper	1,142.33	286.32
23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper	1,222.99	311.22
23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper	1,379.19	342.34
23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper	1,587.51	373.47
23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper	1,821.88	420.15
23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper	2,082.27	466.96
23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper	2,316.64	513.64
23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper	2,732.73	622.45
23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper	3,226.82	778.05
23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper	3,694.32	933.41
23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper	4,240.64	1,057.77

23 33 Air Duct Accessories (23 30)**23 33 13 Dampers (23 33)****23 33 13 13 Volume-Control Dampers (23 33 13)****23 33 13 13-0001 Radial Opposed Blade Damper Steel Construction (23 33 13 13)**

23 33 13 13-0002 EA 6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	104.40	11.20
For Stainless Steel, Add	79.25	
For Parallel Blade Damper, Add	24.38	
23 33 13 13-0003 EA 7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	112.23	12.59
For Stainless Steel, Add	80.39	
For Parallel Blade Damper, Add	24.74	
23 33 13 13-0004 EA 8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	121.10	13.99
For Stainless Steel, Add	81.25	
For Parallel Blade Damper, Add	25.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0005 EA 10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	131.00	16.80
For Stainless Steel, Add	86.32	
For Parallel Blade Damper, Add	26.56	
23 33 13 13-0006 EA 12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	142.30	18.20
For Stainless Steel, Add	91.40	
For Parallel Blade Damper, Add	28.12	
23 33 13 13-0007 EA 14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	168.58	19.60
For Stainless Steel, Add	116.79	
For Parallel Blade Damper, Add	35.94	
23 33 13 13-0008 EA 15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	184.52	20.99
For Stainless Steel, Add	126.95	
For Parallel Blade Damper, Add	39.06	
23 33 13 13-0009 EA 16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	194.85	23.79
For Stainless Steel, Add	132.00	
For Parallel Blade Damper, Add	40.62	
23 33 13 13-0010 EA 18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	214.05	25.20
For Stainless Steel, Add	147.25	
For Parallel Blade Damper, Add	45.31	
23 33 13 13-0011 EA 20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	250.16	28.00
For Stainless Steel, Add	182.81	
For Parallel Blade Damper, Add	56.25	
23 33 13 13-0012 EA 24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	274.64	28.00
For Stainless Steel, Add	208.16	
For Parallel Blade Damper, Add	64.05	
23 33 13 13-0013 EA 30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	313.45	32.19
For Stainless Steel, Add	243.71	
For Parallel Blade Damper, Add	74.99	
23 33 13 13-0014 EA 36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	336.88	33.59
For Stainless Steel, Add	265.56	
For Parallel Blade Damper, Add	81.71	
 23 33 13 13-0015 Rectangular Opposed Blade Damper <small>(23 33 13 13)</small>		
23 33 13 13-0016 EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	84.40	15.56
For Stainless Steel, Add	49.05	
For Parallel Blade Damper, Add	15.09	
23 33 13 13-0017 EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	89.19	16.26
For Stainless Steel, Add	52.53	
For Parallel Blade Damper, Add	16.16	
23 33 13 13-0018 EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	92.17	16.40
For Stainless Steel, Add	56.04	
For Parallel Blade Damper, Add	17.24	
23 33 13 13-0019 EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	92.17	16.40
For Stainless Steel, Add	56.04	
For Parallel Blade Damper, Add	17.24	
23 33 13 13-0020 EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	96.26	16.82
For Stainless Steel, Add	59.54	
For Parallel Blade Damper, Add	18.32	
23 33 13 13-0021 EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	107.25	18.65
For Stainless Steel, Add	66.53	
For Parallel Blade Damper, Add	20.47	
23 33 13 13-0022 EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	96.26	16.82
For Stainless Steel, Add	59.54	
For Parallel Blade Damper, Add	18.32	
23 33 13 13-0023 EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	104.44	17.80
For Stainless Steel, Add	66.53	
For Parallel Blade Damper, Add	20.47	
23 33 13 13-0024 EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	109.97	18.65
For Stainless Steel, Add	70.07	
For Parallel Blade Damper, Add	21.56	
23 33 13 13-0025 EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	119.67	21.02
For Stainless Steel, Add	73.58	
For Parallel Blade Damper, Add	22.64	
23 33 13 13-0026 EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	103.11	17.80
For Stainless Steel, Add	64.81	
For Parallel Blade Damper, Add	19.94	
23 33 13 13-0027 EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	109.97	18.65
For Stainless Steel, Add	70.07	
For Parallel Blade Damper, Add	21.56	
23 33 13 13-0028 EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	115.46	19.62
For Stainless Steel, Add	73.58	
For Parallel Blade Damper, Add	22.64	
23 33 13 13-0029 EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	122.36	21.02
For Stainless Steel, Add	77.08	
For Parallel Blade Damper, Add	23.72	
23 33 13 13-0030 EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	136.10	23.40
For Stainless Steel, Add	85.83	
For Parallel Blade Damper, Add	26.41	
23 33 13 13-0031 EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	109.97	18.65
For Stainless Steel, Add	70.07	
For Parallel Blade Damper, Add	21.56	
23 33 13 13-0032 EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	116.87	20.04
For Stainless Steel, Add	73.58	
For Parallel Blade Damper, Add	22.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0033 EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	125.16	22.00
For Stainless Steel, Add	77.08	
For Parallel Blade Damper, Add	23.72	
23 33 13 13-0034 EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	132.05	23.40
For Stainless Steel, Add	80.56	
For Parallel Blade Damper, Add	24.79	
23 33 13 13-0035 EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	145.83	25.64
For Stainless Steel, Add	89.36	
For Parallel Blade Damper, Add	27.50	
23 33 13 13-0036 EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	159.56	28.03
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0037 EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	115.46	19.62
For Stainless Steel, Add	73.58	
For Parallel Blade Damper, Add	22.64	
23 33 13 13-0038 EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	123.69	21.02
For Stainless Steel, Add	78.81	
For Parallel Blade Damper, Add	24.25	
23 33 13 13-0039 EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	134.77	23.40
For Stainless Steel, Add	84.10	
For Parallel Blade Damper, Add	25.88	
23 33 13 13-0040 EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	148.52	25.64
For Stainless Steel, Add	92.86	
For Parallel Blade Damper, Add	28.57	
23 33 13 13-0041 EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	160.91	28.03
For Stainless Steel, Add	99.85	
For Parallel Blade Damper, Add	30.72	
23 33 13 13-0042 EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	174.63	30.27
For Stainless Steel, Add	108.59	
For Parallel Blade Damper, Add	33.41	
23 33 13 13-0043 EA 18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	185.69	32.65
For Stainless Steel, Add	113.85	
For Parallel Blade Damper, Add	35.03	
23 33 13 13-0044 EA 20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	122.36	21.02
For Stainless Steel, Add	77.08	
For Parallel Blade Damper, Add	23.72	
23 33 13 13-0045 EA 20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	134.75	23.40
For Stainless Steel, Add	84.07	
For Parallel Blade Damper, Add	25.87	
23 33 13 13-0046 EA 20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	147.16	25.64
For Stainless Steel, Add	91.09	
For Parallel Blade Damper, Add	28.03	
23 33 13 13-0047 EA 20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	164.96	28.03
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0048 EA 20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	176.00	30.27
For Stainless Steel, Add	110.37	
For Parallel Blade Damper, Add	33.96	
23 33 13 13-0049 EA 20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	187.06	32.65
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0050 EA 20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	199.44	35.04
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0051 EA 20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	211.82	37.28
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0052 EA 24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	137.45	23.40
For Stainless Steel, Add	87.58	
For Parallel Blade Damper, Add	26.95	
23 33 13 13-0053 EA 24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.55	25.64
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0054 EA 24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	164.96	28.03
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0055 EA 24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	180.05	30.27
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0056 EA 24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	191.09	32.65
For Stainless Steel, Add	120.87	
For Parallel Blade Damper, Add	37.19	
23 33 13 13-0057 EA 24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	202.13	35.04
For Stainless Steel, Add	126.13	
For Parallel Blade Damper, Add	38.81	
23 33 13 13-0058 EA 24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	217.22	37.28
For Stainless Steel, Add	136.63	
For Parallel Blade Damper, Add	42.04	
23 33 13 13-0059 EA 24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	239.31	42.05
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0060 EA 24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	264.13	46.67
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0061 EA 28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.55	25.64
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0062 EA 28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	164.96	28.03
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0063 EA 28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	180.05	30.27
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0064 EA 28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	192.44	32.65
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0065 EA 28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	206.16	35.04
For Stainless Steel, Add	131.37	
For Parallel Blade Damper, Add	40.42	
23 33 13 13-0066 EA 28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	219.90	37.28
For Stainless Steel, Add	140.11	
For Parallel Blade Damper, Add	43.11	
23 33 13 13-0067 EA 28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	242.01	42.05
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0068 EA 28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	264.13	46.67
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0069 EA 28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	287.29	49.06
For Stainless Steel, Add	182.17	
For Parallel Blade Damper, Add	56.05	
23 33 13 13-0070 EA 28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	314.78	53.68
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0071 EA 32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	173.05	28.03
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0072 EA 32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	182.73	30.27
For Stainless Steel, Add	119.12	
For Parallel Blade Damper, Add	36.65	
23 33 13 13-0073 EA 32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	192.44	32.65
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0074 EA 32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	204.81	35.04
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0075 EA 32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	220.42	37.28
For Stainless Steel, Add	140.79	
For Parallel Blade Damper, Add	43.32	
23 33 13 13-0076 EA 32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	242.01	42.05
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0077 EA 32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	266.83	46.67
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0078 EA 32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	291.62	51.30
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0079 EA 32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	314.78	53.68
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0080 EA 32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	344.87	57.46
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0081 EA 32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	376.25	60.69
For Stainless Steel, Add	252.27	
For Parallel Blade Damper, Add	77.62	
23 33 13 13-0082 EA 36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	188.12	30.27
For Stainless Steel, Add	126.13	
For Parallel Blade Damper, Add	38.81	
23 33 13 13-0083 EA 36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	200.51	32.65
For Stainless Steel, Add	133.12	
For Parallel Blade Damper, Add	40.96	
23 33 13 13-0084 EA 36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	212.89	35.04
For Stainless Steel, Add	140.11	
For Parallel Blade Damper, Add	43.11	
23 33 13 13-0085 EA 36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	227.99	37.28
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0086 EA 36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	246.08	42.05
For Stainless Steel, Add	155.92	
For Parallel Blade Damper, Add	47.98	
23 33 13 13-0087 EA 36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	257.13	44.29
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0088 EA 36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	291.62	51.30
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0089 EA 36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	319.09	56.07
For Stainless Steel, Add	196.17	
For Parallel Blade Damper, Add	60.36	
23 33 13 13-0090 EA 36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	340.88	57.89
For Stainless Steel, Add	217.22	
For Parallel Blade Damper, Add	66.84	
23 33 13 13-0091 EA 36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	375.04	62.09
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0092 EA 36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	403.72	65.31
For Stainless Steel, Add	269.75	
For Parallel Blade Damper, Add	83.00	
23 33 13 13-0093 EA 36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	432.29	67.69
For Stainless Steel, Add	297.78	
For Parallel Blade Damper, Add	91.62	
23 33 13 13-0094 EA 40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	197.81	35.04
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0095 EA 40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	215.58	37.28
For Stainless Steel, Add	143.61	
For Parallel Blade Damper, Add	44.19	
23 33 13 13-0096 EA 40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	225.29	39.66
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0097 EA 40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	235.00	42.05
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0098 EA 40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.46	44.29
For Stainless Steel, Add	162.90	
For Parallel Blade Damper, Add	50.12	
23 33 13 13-0099 EA 40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	274.90	46.67
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0100 EA 40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	306.71	53.68
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0101 EA 40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	331.52	58.31
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	
23 33 13 13-0102 EA 40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	358.89	62.09
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0103 EA 40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.34	65.31
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0104 EA 40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	425.70	69.10
For Stainless Steel, Add	283.75	
For Parallel Blade Damper, Add	87.31	
23 33 13 13-0105 EA 40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	460.96	70.92
For Stainless Steel, Add	322.31	
For Parallel Blade Damper, Add	99.17	
23 33 13 13-0106 EA 40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	499.13	74.70
For Stainless Steel, Add	357.34	
For Parallel Blade Damper, Add	109.95	
23 33 13 13-0107 EA 44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	210.21	35.04
For Stainless Steel, Add	136.63	
For Parallel Blade Damper, Add	42.04	
23 33 13 13-0108 EA 44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	227.99	37.28
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0109 EA 44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	243.11	39.66
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0110 EA 44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.82	42.05
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0111 EA 44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	270.60	44.29
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0112 EA 44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	288.37	46.67
For Stainless Steel, Add	192.69	
For Parallel Blade Damper, Add	59.29	
23 33 13 13-0113 EA 44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	329.90	56.07
For Stainless Steel, Add	210.22	
For Parallel Blade Damper, Add	64.68	
23 33 13 13-0114 EA 44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	357.36	60.69
For Stainless Steel, Add	227.71	
For Parallel Blade Damper, Add	70.06	
23 33 13 13-0115 EA 44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.34	65.31
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0116 EA 44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	436.62	70.08
For Stainless Steel, Add	294.29	
For Parallel Blade Damper, Add	90.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0117 EA 44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	477.55	74.70
For Stainless Steel, Add	329.29	
For Parallel Blade Damper, Add	101.32	
23 33 13 13-0118 EA 44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	508.82	76.94
For Stainless Steel, Add	360.83	
For Parallel Blade Damper, Add	111.02	
23 33 13 13-0119 EA 44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	540.09	79.33
For Stainless Steel, Add	392.37	
For Parallel Blade Damper, Add	120.73	
23 33 13 13-0120 EA 44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	571.36	81.71
For Stainless Steel, Add	423.90	
For Parallel Blade Damper, Add	130.43	
23 33 13 13-0121 EA 48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	225.29	37.28
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0122 EA 48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	243.11	39.66
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0123 EA 48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.82	42.05
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0124 EA 48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	274.90	46.67
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0125 EA 48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	299.70	51.30
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0126 EA 48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	324.51	56.07
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	
23 33 13 13-0127 EA 48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	354.68	60.69
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0128 EA 48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	384.85	65.31
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0129 EA 48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	423.13	70.08
For Stainless Steel, Add	276.76	
For Parallel Blade Damper, Add	85.16	
23 33 13 13-0130 EA 48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	466.78	74.70
For Stainless Steel, Add	315.29	
For Parallel Blade Damper, Add	97.01	
23 33 13 13-0131 EA 48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	498.07	76.94
For Stainless Steel, Add	346.85	
For Parallel Blade Damper, Add	106.72	
23 33 13 13-0132 EA 48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	537.40	79.33
For Stainless Steel, Add	388.87	
For Parallel Blade Damper, Add	119.65	
23 33 13 13-0133 EA 48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	575.68	83.95
For Stainless Steel, Add	420.41	
For Parallel Blade Damper, Add	129.36	
23 33 13 13-0134 EA 48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	615.02	86.34
For Stainless Steel, Add	462.44	
For Parallel Blade Damper, Add	142.29	
23 33 13 13-0135 EA 48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	657.59	93.35
For Stainless Steel, Add	490.46	
For Parallel Blade Damper, Add	150.91	
23 33 13 13-0136 EA 52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	240.41	39.66
For Stainless Steel, Add	157.66	
For Parallel Blade Damper, Add	48.51	
23 33 13 13-0137 EA 52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.20	42.05
For Stainless Steel, Add	171.68	
For Parallel Blade Damper, Add	52.82	
23 33 13 13-0138 EA 52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	282.98	46.67
For Stainless Steel, Add	185.68	
For Parallel Blade Damper, Add	57.13	
23 33 13 13-0139 EA 52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	299.70	51.30
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0140 EA 52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	325.86	56.07
For Stainless Steel, Add	204.97	
For Parallel Blade Damper, Add	63.07	
23 33 13 13-0141 EA 52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	351.99	60.69
For Stainless Steel, Add	220.73	
For Parallel Blade Damper, Add	67.92	
23 33 13 13-0142 EA 52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	382.17	65.31
For Stainless Steel, Add	241.74	
For Parallel Blade Damper, Add	74.38	
23 33 13 13-0143 EA 52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	412.36	70.08
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0144 EA 52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	450.63	74.70
For Stainless Steel, Add	294.29	
For Parallel Blade Damper, Add	90.55	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0145 EA 52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	496.97	79.33
For Stainless Steel, Add	336.31	
For Parallel Blade Damper, Add	103.48	
23 33 13 13-0146 EA 52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	530.92	81.71
For Stainless Steel, Add	371.33	
For Parallel Blade Damper, Add	114.26	
23 33 13 13-0147 EA 52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	572.98	83.95
For Stainless Steel, Add	416.90	
For Parallel Blade Damper, Add	128.28	
23 33 13 13-0148 EA 52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	619.30	88.72
For Stainless Steel, Add	458.90	
For Parallel Blade Damper, Add	141.20	
23 33 13 13-0149 EA 52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	657.59	93.35
For Stainless Steel, Add	490.46	
For Parallel Blade Damper, Add	150.91	
23 33 13 13-0150 EA 52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	710.95	100.36
For Stainless Steel, Add	532.51	
For Parallel Blade Damper, Add	163.85	
23 33 13 13-0151 EA 52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	751.93	104.97
For Stainless Steel, Add	567.55	
For Parallel Blade Damper, Add	174.63	
23 33 13 13-0152 EA 56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.82	42.05
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0153 EA 56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	280.28	46.67
For Stainless Steel, Add	182.17	
For Parallel Blade Damper, Add	56.05	
23 33 13 13-0154 EA 56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	302.39	51.30
For Stainless Steel, Add	192.69	
For Parallel Blade Damper, Add	59.29	
23 33 13 13-0155 EA 56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	319.09	56.07
For Stainless Steel, Add	196.17	
For Parallel Blade Damper, Add	60.36	
23 33 13 13-0156 EA 56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	347.94	60.69
For Stainless Steel, Add	215.46	
For Parallel Blade Damper, Add	66.30	
23 33 13 13-0157 EA 56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	376.78	65.31
For Stainless Steel, Add	234.73	
For Parallel Blade Damper, Add	72.22	
23 33 13 13-0158 EA 56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	405.62	70.08
For Stainless Steel, Add	253.99	
For Parallel Blade Damper, Add	78.15	
23 33 13 13-0159 EA 56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	434.45	74.70
For Stainless Steel, Add	273.26	
For Parallel Blade Damper, Add	84.08	
23 33 13 13-0160 EA 56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	480.80	79.33
For Stainless Steel, Add	315.29	
For Parallel Blade Damper, Add	97.01	
23 33 13 13-0161 EA 56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	520.16	81.71
For Stainless Steel, Add	357.34	
For Parallel Blade Damper, Add	109.95	
23 33 13 13-0162 EA 56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	556.81	83.95
For Stainless Steel, Add	395.88	
For Parallel Blade Damper, Add	121.81	
23 33 13 13-0163 EA 56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	608.55	88.72
For Stainless Steel, Add	444.93	
For Parallel Blade Damper, Add	136.90	
23 33 13 13-0164 EA 56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	654.90	93.35
For Stainless Steel, Add	486.97	
For Parallel Blade Damper, Add	149.84	
23 33 13 13-0165 EA 56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	703.95	97.97
For Stainless Steel, Add	532.51	
For Parallel Blade Damper, Add	163.85	
23 33 13 13-0166 EA 56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	744.92	102.73
For Stainless Steel, Add	567.55	
For Parallel Blade Damper, Add	174.63	
23 33 13 13-0167 EA 56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	793.97	107.36
For Stainless Steel, Add	613.09	
For Parallel Blade Damper, Add	188.64	
23 33 13 13-0168 EA 56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	843.02	111.98
For Stainless Steel, Add	658.63	
For Parallel Blade Damper, Add	202.66	
23 33 13 13-0169 EA 60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	274.90	46.67
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0170 EA 60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	302.39	51.30
For Stainless Steel, Add	192.69	
For Parallel Blade Damper, Add	59.29	
23 33 13 13-0171 EA 60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	321.79	56.07
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0172 EA 60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	338.52	60.69
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0173 EA 60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	368.70	65.31
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0174 EA 60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.87	70.08
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0175 EA 60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	430.40	74.70
For Stainless Steel, Add	268.00	
For Parallel Blade Damper, Add	82.46	
23 33 13 13-0176 EA 60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	461.94	79.33
For Stainless Steel, Add	290.77	
For Parallel Blade Damper, Add	89.47	
23 33 13 13-0177 EA 60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	503.98	81.71
For Stainless Steel, Add	336.31	
For Parallel Blade Damper, Add	103.48	
23 33 13 13-0178 EA 60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	543.32	83.95
For Stainless Steel, Add	378.34	
For Parallel Blade Damper, Add	116.41	
23 33 13 13-0179 EA 60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	592.38	88.72
For Stainless Steel, Add	423.90	
For Parallel Blade Damper, Add	130.43	
23 33 13 13-0180 EA 60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	641.43	93.35
For Stainless Steel, Add	469.46	
For Parallel Blade Damper, Add	144.45	
23 33 13 13-0181 EA 60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	682.39	97.97
For Stainless Steel, Add	504.48	
For Parallel Blade Damper, Add	155.22	
23 33 13 13-0182 EA 60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	739.50	102.73
For Stainless Steel, Add	560.51	
For Parallel Blade Damper, Add	172.46	
23 33 13 13-0183 EA 60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	791.25	107.36
For Stainless Steel, Add	609.56	
For Parallel Blade Damper, Add	187.56	
23 33 13 13-0184 EA 60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	843.02	111.98
For Stainless Steel, Add	658.63	
For Parallel Blade Damper, Add	202.66	
23 33 13 13-0185 EA 60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	889.33	116.75
For Stainless Steel, Add	700.62	
For Parallel Blade Damper, Add	215.58	
23 33 13 13-0186 EA 60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	935.72	121.38
For Stainless Steel, Add	742.70	
For Parallel Blade Damper, Add	228.52	

23 33 13 16 Fire Dampers (23 33 13)

23 33 13 16-0001 Fire Dampers (23 33 13 16)

23 33 13 16-0002 SF Curtain Type, Vertical, Fire Damper	125.85	15.14
For Smoke Damper, Add	68.26	
For Spring Activated Horizontal Mount Operation, Add	18.07	
For Dynamic Damper, Add	43.36	
For 3 Hour Rated, Add	24.09	
23 33 13 16-0003 SF Louver Type, Vertical, Fire Damper	169.65	15.14
For Smoke Damper, Add	105.49	
For Spring Activated Horizontal Mount Operation, Add	27.92	
For Dynamic Damper, Add	67.01	
For 3 Hour Rated, Add	37.23	

23 33 13 16-0004 Folding Curtain Fire Dampers (23 33 13 16)

Note: UL Listed. Air stream 22 gauge galvanized steel construction with fusible link 160 F, gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.

23 33 13 16-0005 EA 6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	71.27	15.56
For Spring Activated Horizontal Mount Operation, Add	5.54	
For Dynamic Damper, Add	13.28	
For 3 Hour Rated, Add	7.38	
For Cap Of Damper Blades Outside Air Stream, Add	6.15	
23 33 13 16-0006 EA 8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	75.12	16.26
For Spring Activated Horizontal Mount Operation, Add	5.93	
For Dynamic Damper, Add	14.22	
For 3 Hour Rated, Add	7.90	
For Cap Of Damper Blades Outside Air Stream, Add	6.59	
23 33 13 16-0007 EA 8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	77.16	16.40
For Spring Activated Horizontal Mount Operation, Add	6.32	
For Dynamic Damper, Add	15.17	
For 3 Hour Rated, Add	8.43	
For Cap Of Damper Blades Outside Air Stream, Add	7.03	
23 33 13 16-0008 EA 10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	77.16	16.40
For Spring Activated Horizontal Mount Operation, Add	6.32	
For Dynamic Damper, Add	15.17	
For 3 Hour Rated, Add	8.43	
For Cap Of Damper Blades Outside Air Stream, Add	7.03	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0009 EA 10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	80.32	16.82
<i>For Spring Activated Horizontal Mount Operation, Add</i>	6.72	
<i>For Dynamic Damper, Add</i>	16.12	
<i>For 3 Hour Rated, Add</i>	8.96	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	7.47	
23 33 13 16-0010 EA 10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	89.44	18.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.51	
<i>For Dynamic Damper, Add</i>	18.02	
<i>For 3 Hour Rated, Add</i>	10.01	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.34	
23 33 13 16-0011 EA 12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	80.32	16.82
<i>For Spring Activated Horizontal Mount Operation, Add</i>	6.72	
<i>For Dynamic Damper, Add</i>	16.12	
<i>For 3 Hour Rated, Add</i>	8.96	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	7.47	
23 33 13 16-0012 EA 12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	86.63	17.80
<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.51	
<i>For Dynamic Damper, Add</i>	18.02	
<i>For 3 Hour Rated, Add</i>	10.01	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.34	
23 33 13 16-0013 EA 12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.20	18.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.90	
<i>For Dynamic Damper, Add</i>	18.97	
<i>For 3 Hour Rated, Add</i>	10.54	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.78	
23 33 13 16-0014 EA 12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	99.96	21.02
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
<i>For Dynamic Damper, Add</i>	19.92	
<i>For 3 Hour Rated, Add</i>	11.07	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0015 EA 14" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	85.75	17.80
<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.31	
<i>For Dynamic Damper, Add</i>	17.54	
<i>For 3 Hour Rated, Add</i>	9.75	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.12	
23 33 13 16-0016 EA 14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.20	18.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.90	
<i>For Dynamic Damper, Add</i>	18.97	
<i>For 3 Hour Rated, Add</i>	10.54	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.78	
23 33 13 16-0017 EA 14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	95.75	19.62
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
<i>For Dynamic Damper, Add</i>	19.92	
<i>For 3 Hour Rated, Add</i>	11.07	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0018 EA 14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.72	21.02
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.70	
<i>For Dynamic Damper, Add</i>	20.87	
<i>For 3 Hour Rated, Add</i>	11.60	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.66	
23 33 13 16-0019 EA 14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.12	23.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.68	
<i>For Dynamic Damper, Add</i>	23.24	
<i>For 3 Hour Rated, Add</i>	12.91	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.76	
23 33 13 16-0020 EA 16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.20	18.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.90	
<i>For Dynamic Damper, Add</i>	18.97	
<i>For 3 Hour Rated, Add</i>	10.54	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.78	
23 33 13 16-0021 EA 16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	97.16	20.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
<i>For Dynamic Damper, Add</i>	19.92	
<i>For 3 Hour Rated, Add</i>	11.07	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0022 EA 16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.52	22.00
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.70	
<i>For Dynamic Damper, Add</i>	20.87	
<i>For 3 Hour Rated, Add</i>	11.60	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.66	
23 33 13 16-0023 EA 16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	110.47	23.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.09	
<i>For Dynamic Damper, Add</i>	21.81	
<i>For 3 Hour Rated, Add</i>	12.12	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.10	
23 33 13 16-0024 EA 16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	121.89	25.64
<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.08	
<i>For Dynamic Damper, Add</i>	24.19	
<i>For 3 Hour Rated, Add</i>	13.44	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.20	
23 33 13 16-0025 EA 16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	133.29	28.03
<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.07	
<i>For Dynamic Damper, Add</i>	26.56	
<i>For 3 Hour Rated, Add</i>	14.76	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0026 EA 18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	95.75	19.62
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
<i>For Dynamic Damper, Add</i>	19.92	
<i>For 3 Hour Rated, Add</i>	11.07	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0027 EA 18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	102.59	21.02
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.89	
<i>For Dynamic Damper, Add</i>	21.34	
<i>For 3 Hour Rated, Add</i>	11.86	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.88	
23 33 13 16-0028 EA 18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	112.25	23.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.49	
<i>For Dynamic Damper, Add</i>	22.77	
<i>For 3 Hour Rated, Add</i>	12.65	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.54	
23 33 13 16-0029 EA 18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	123.65	25.64
<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.48	
<i>For Dynamic Damper, Add</i>	25.14	
<i>For 3 Hour Rated, Add</i>	13.97	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.64	
23 33 13 16-0030 EA 18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	134.16	28.03
<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.26	
<i>For Dynamic Damper, Add</i>	27.03	
<i>For 3 Hour Rated, Add</i>	15.02	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.52	
23 33 13 16-0031 EA 18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	145.56	30.27
<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.25	
<i>For Dynamic Damper, Add</i>	29.41	
<i>For 3 Hour Rated, Add</i>	16.34	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.62	
23 33 13 16-0032 EA 18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	155.20	32.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.85	
<i>For Dynamic Damper, Add</i>	30.83	
<i>For 3 Hour Rated, Add</i>	17.13	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.27	
23 33 13 16-0033 EA 20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.72	21.02
<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.70	
<i>For Dynamic Damper, Add</i>	20.87	
<i>For 3 Hour Rated, Add</i>	11.60	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.66	
23 33 13 16-0034 EA 20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	112.23	23.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.48	
<i>For Dynamic Damper, Add</i>	22.76	
<i>For 3 Hour Rated, Add</i>	12.65	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.54	
23 33 13 16-0035 EA 20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	122.76	25.64
<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.28	
<i>For Dynamic Damper, Add</i>	24.66	
<i>For 3 Hour Rated, Add</i>	13.70	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.42	
23 33 13 16-0036 EA 20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.81	28.03
<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.86	
<i>For Dynamic Damper, Add</i>	28.46	
<i>For 3 Hour Rated, Add</i>	15.81	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.18	
23 33 13 16-0037 EA 20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	146.44	30.27
<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.45	
<i>For Dynamic Damper, Add</i>	29.88	
<i>For 3 Hour Rated, Add</i>	16.60	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.84	
23 33 13 16-0038 EA 20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	156.09	32.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.05	
<i>For Dynamic Damper, Add</i>	31.31	
<i>For 3 Hour Rated, Add</i>	17.39	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.50	
23 33 13 16-0039 EA 20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	166.59	35.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.83	
<i>For Dynamic Damper, Add</i>	33.20	
<i>For 3 Hour Rated, Add</i>	18.44	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.37	
23 33 13 16-0040 EA 20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.11	37.28
<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.62	
<i>For Dynamic Damper, Add</i>	35.09	
<i>For 3 Hour Rated, Add</i>	19.50	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.25	
23 33 13 16-0041 EA 24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.99	23.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.88	
<i>For Dynamic Damper, Add</i>	23.71	
<i>For 3 Hour Rated, Add</i>	13.17	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.98	
23 33 13 16-0042 EA 24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	126.28	25.64
<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.07	
<i>For Dynamic Damper, Add</i>	26.56	
<i>For 3 Hour Rated, Add</i>	14.76	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.30	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0043	EA		24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.81	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.86	
			<i>For Dynamic Damper, Add</i>	28.46	
			<i>For 3 Hour Rated, Add</i>	15.81	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.18	
23 33 13 16-0044	EA		24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	149.08	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.05	
			<i>For Dynamic Damper, Add</i>	31.31	
			<i>For 3 Hour Rated, Add</i>	17.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.50	
23 33 13 16-0045	EA		24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	158.72	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.64	
			<i>For Dynamic Damper, Add</i>	32.73	
			<i>For 3 Hour Rated, Add</i>	18.18	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.15	
23 33 13 16-0046	EA		24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	168.35	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.23	
			<i>For Dynamic Damper, Add</i>	34.15	
			<i>For 3 Hour Rated, Add</i>	18.97	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.81	
23 33 13 16-0047	EA		24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	180.63	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.41	
			<i>For Dynamic Damper, Add</i>	37.00	
			<i>For 3 Hour Rated, Add</i>	20.55	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.13	
23 33 13 16-0048	EA		24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.91	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.60	
			<i>For Dynamic Damper, Add</i>	39.84	
			<i>For 3 Hour Rated, Add</i>	22.13	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.44	
23 33 13 16-0049	EA		24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	220.96	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.18	
			<i>For Dynamic Damper, Add</i>	43.64	
			<i>For 3 Hour Rated, Add</i>	24.24	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.20	
23 33 13 16-0050	EA		28" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	126.28	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.07	
			<i>For Dynamic Damper, Add</i>	26.56	
			<i>For 3 Hour Rated, Add</i>	14.76	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.30	
23 33 13 16-0051	EA		28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.81	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.86	
			<i>For Dynamic Damper, Add</i>	28.46	
			<i>For 3 Hour Rated, Add</i>	15.81	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.18	
23 33 13 16-0052	EA		28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	149.08	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.05	
			<i>For Dynamic Damper, Add</i>	31.31	
			<i>For 3 Hour Rated, Add</i>	17.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.50	
23 33 13 16-0053	EA		28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.59	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.83	
			<i>For Dynamic Damper, Add</i>	33.20	
			<i>For 3 Hour Rated, Add</i>	18.44	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.37	
23 33 13 16-0054	EA		28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.99	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.82	
			<i>For Dynamic Damper, Add</i>	35.58	
			<i>For 3 Hour Rated, Add</i>	19.76	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.47	
23 33 13 16-0055	EA		28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	182.37	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.81	
			<i>For Dynamic Damper, Add</i>	37.94	
			<i>For 3 Hour Rated, Add</i>	21.08	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.56	
23 33 13 16-0056	EA		28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.67	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
			<i>For Dynamic Damper, Add</i>	40.79	
			<i>For 3 Hour Rated, Add</i>	22.66	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0057	EA		28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	220.96	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.18	
			<i>For Dynamic Damper, Add</i>	43.64	
			<i>For 3 Hour Rated, Add</i>	24.24	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.20	
23 33 13 16-0058	EA		28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	238.50	49.06
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.55	
			<i>For Dynamic Damper, Add</i>	49.32	
			<i>For 3 Hour Rated, Add</i>	27.40	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.84	
23 33 13 16-0059	EA		28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	261.31	53.68
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.53	
			<i>For Dynamic Damper, Add</i>	54.07	
			<i>For 3 Hour Rated, Add</i>	30.04	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0060 EA 32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	142.08	28.03
<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.05	
<i>For Dynamic Damper, Add</i>	31.31	
<i>For 3 Hour Rated, Add</i>	17.39	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.50	
23 33 13 16-0061 EA 32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	150.82	30.27
<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.44	
<i>For Dynamic Damper, Add</i>	32.25	
<i>For 3 Hour Rated, Add</i>	17.92	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.93	
23 33 13 16-0062 EA 32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.59	32.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.83	
<i>For Dynamic Damper, Add</i>	33.20	
<i>For 3 Hour Rated, Add</i>	18.44	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.37	
23 33 13 16-0063 EA 32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.10	35.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.62	
<i>For Dynamic Damper, Add</i>	35.09	
<i>For 3 Hour Rated, Add</i>	19.50	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.25	
23 33 13 16-0064 EA 32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	182.71	37.28
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.88	
<i>For Dynamic Damper, Add</i>	38.12	
<i>For 3 Hour Rated, Add</i>	21.18	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.65	
23 33 13 16-0065 EA 32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.67	42.05
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
<i>For Dynamic Damper, Add</i>	40.79	
<i>For 3 Hour Rated, Add</i>	22.66	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0066 EA 32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	222.72	46.67
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.58	
<i>For Dynamic Damper, Add</i>	44.59	
<i>For 3 Hour Rated, Add</i>	24.77	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.64	
23 33 13 16-0067 EA 32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.77	51.30
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.16	
<i>For Dynamic Damper, Add</i>	48.38	
<i>For 3 Hour Rated, Add</i>	26.88	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.40	
23 33 13 16-0068 EA 32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	261.31	53.68
<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.53	
<i>For Dynamic Damper, Add</i>	54.07	
<i>For 3 Hour Rated, Add</i>	30.04	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.03	
23 33 13 16-0069 EA 32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.82	57.46
<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.30	
<i>For Dynamic Damper, Add</i>	60.71	
<i>For 3 Hour Rated, Add</i>	33.73	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.11	
23 33 13 16-0070 EA 32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	308.69	60.69
<i>For Spring Activated Horizontal Mount Operation, Add</i>	28.46	
<i>For Dynamic Damper, Add</i>	68.30	
<i>For 3 Hour Rated, Add</i>	37.95	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	31.62	
23 33 13 16-0071 EA 36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	154.34	30.27
<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.23	
<i>For Dynamic Damper, Add</i>	34.15	
<i>For 3 Hour Rated, Add</i>	18.97	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.81	
23 33 13 16-0072 EA 36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	164.86	32.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.02	
<i>For Dynamic Damper, Add</i>	36.05	
<i>For 3 Hour Rated, Add</i>	20.03	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.69	
23 33 13 16-0073 EA 36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	175.36	35.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.81	
<i>For Dynamic Damper, Add</i>	37.94	
<i>For 3 Hour Rated, Add</i>	21.08	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.56	
23 33 13 16-0074 EA 36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	187.65	37.28
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
<i>For Dynamic Damper, Add</i>	40.79	
<i>For 3 Hour Rated, Add</i>	22.66	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0075 EA 36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	204.32	42.05
<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.59	
<i>For Dynamic Damper, Add</i>	42.22	
<i>For 3 Hour Rated, Add</i>	23.45	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	19.55	
23 33 13 16-0076 EA 36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	213.96	44.29
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.18	
<i>For Dynamic Damper, Add</i>	43.64	
<i>For 3 Hour Rated, Add</i>	24.24	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0077 EA 36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.77	51.30
For Spring Activated Horizontal Mount Operation, Add	20.16	
For Dynamic Damper, Add	48.38	
For 3 Hour Rated, Add	26.88	
For Cap Of Damper Blades Outside Air Stream, Add	22.40	
23 33 13 16-0078 EA 36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.56	56.07
For Spring Activated Horizontal Mount Operation, Add	22.13	
For Dynamic Damper, Add	53.12	
For 3 Hour Rated, Add	29.51	
For Cap Of Damper Blades Outside Air Stream, Add	24.59	
23 33 13 16-0079 EA 36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	236.03	57.89
For Spring Activated Horizontal Mount Operation, Add	14.00	
For Dynamic Damper, Add	33.61	
For 3 Hour Rated, Add	18.67	
For Cap Of Damper Blades Outside Air Stream, Add	15.56	
23 33 13 16-0080 EA 36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	309.38	62.09
For Spring Activated Horizontal Mount Operation, Add	27.67	
For Dynamic Damper, Add	66.40	
For 3 Hour Rated, Add	36.89	
For Cap Of Damper Blades Outside Air Stream, Add	30.74	
23 33 13 16-0081 EA 36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	331.48	65.31
For Spring Activated Horizontal Mount Operation, Add	30.43	
For Dynamic Damper, Add	73.04	
For 3 Hour Rated, Add	40.58	
For Cap Of Damper Blades Outside Air Stream, Add	33.82	
23 33 13 16-0082 EA 36" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	352.54	67.69
For Spring Activated Horizontal Mount Operation, Add	33.59	
For Dynamic Damper, Add	80.63	
For 3 Hour Rated, Add	44.79	
For Cap Of Damper Blades Outside Air Stream, Add	37.33	
23 33 13 16-0083 EA 40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	163.10	35.04
For Spring Activated Horizontal Mount Operation, Add	14.62	
For Dynamic Damper, Add	35.09	
For 3 Hour Rated, Add	19.50	
For Cap Of Damper Blades Outside Air Stream, Add	16.25	
23 33 13 16-0084 EA 40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.12	37.28
For Spring Activated Horizontal Mount Operation, Add	16.20	
For Dynamic Damper, Add	38.89	
For 3 Hour Rated, Add	21.60	
For Cap Of Damper Blades Outside Air Stream, Add	18.00	
23 33 13 16-0085 EA 40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	185.89	39.66
For Spring Activated Horizontal Mount Operation, Add	16.60	
For Dynamic Damper, Add	39.84	
For 3 Hour Rated, Add	22.13	
For Cap Of Damper Blades Outside Air Stream, Add	18.44	
23 33 13 16-0086 EA 40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	194.66	42.05
For Spring Activated Horizontal Mount Operation, Add	16.99	
For Dynamic Damper, Add	40.79	
For 3 Hour Rated, Add	22.66	
For Cap Of Damper Blades Outside Air Stream, Add	18.88	
23 33 13 16-0087 EA 40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	214.84	44.29
For Spring Activated Horizontal Mount Operation, Add	18.38	
For Dynamic Damper, Add	44.11	
For 3 Hour Rated, Add	24.51	
For Cap Of Damper Blades Outside Air Stream, Add	20.42	
23 33 13 16-0088 EA 40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.99	46.67
For Spring Activated Horizontal Mount Operation, Add	19.76	
For Dynamic Damper, Add	47.43	
For 3 Hour Rated, Add	26.35	
For Cap Of Damper Blades Outside Air Stream, Add	21.96	
23 33 13 16-0089 EA 40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	256.04	53.68
For Spring Activated Horizontal Mount Operation, Add	21.34	
For Dynamic Damper, Add	51.22	
For 3 Hour Rated, Add	28.46	
For Cap Of Damper Blades Outside Air Stream, Add	23.72	
23 33 13 16-0090 EA 40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	277.09	58.31
For Spring Activated Horizontal Mount Operation, Add	22.93	
For Dynamic Damper, Add	55.02	
For 3 Hour Rated, Add	30.57	
For Cap Of Damper Blades Outside Air Stream, Add	25.47	
23 33 13 16-0091 EA 40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	298.84	62.09
For Spring Activated Horizontal Mount Operation, Add	25.30	
For Dynamic Damper, Add	60.71	
For 3 Hour Rated, Add	33.73	
For Cap Of Damper Blades Outside Air Stream, Add	28.11	
23 33 13 16-0092 EA 40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	327.97	65.31
For Spring Activated Horizontal Mount Operation, Add	29.64	
For Dynamic Damper, Add	71.15	
For 3 Hour Rated, Add	39.53	
For Cap Of Damper Blades Outside Air Stream, Add	32.94	
23 33 13 16-0093 EA 40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	349.71	69.10
For Spring Activated Horizontal Mount Operation, Add	32.01	
For Dynamic Damper, Add	76.83	
For 3 Hour Rated, Add	42.68	
For Cap Of Damper Blades Outside Air Stream, Add	35.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0094 EA 40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	374.64	70.92
<i>For Spring Activated Horizontal Mount Operation, Add</i>	36.36	
<i>For Dynamic Damper, Add</i>	87.27	
<i>For 3 Hour Rated, Add</i>	48.48	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	40.40	
23 33 13 16-0095 EA 40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	403.43	74.70
<i>For Spring Activated Horizontal Mount Operation, Add</i>	40.32	
<i>For Dynamic Damper, Add</i>	96.76	
<i>For 3 Hour Rated, Add</i>	53.75	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	44.80	
23 33 13 16-0096 EA 44" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	173.62	35.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.41	
<i>For Dynamic Damper, Add</i>	37.00	
<i>For 3 Hour Rated, Add</i>	20.55	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.13	
23 33 13 16-0097 EA 44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	187.65	37.28
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
<i>For Dynamic Damper, Add</i>	40.79	
<i>For 3 Hour Rated, Add</i>	22.66	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0098 EA 44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.94	39.66
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.18	
<i>For Dynamic Damper, Add</i>	43.64	
<i>For 3 Hour Rated, Add</i>	24.24	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.20	
23 33 13 16-0099 EA 44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.71	42.05
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.58	
<i>For Dynamic Damper, Add</i>	44.59	
<i>For 3 Hour Rated, Add</i>	24.77	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.64	
23 33 13 16-0100 EA 44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	222.75	44.29
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.16	
<i>For Dynamic Damper, Add</i>	48.38	
<i>For 3 Hour Rated, Add</i>	26.88	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.40	
23 33 13 16-0101 EA 44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	236.77	46.67
<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.74	
<i>For Dynamic Damper, Add</i>	52.17	
<i>For 3 Hour Rated, Add</i>	28.99	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.16	
23 33 13 16-0102 EA 44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	273.60	56.07
<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.72	
<i>For Dynamic Damper, Add</i>	56.92	
<i>For 3 Hour Rated, Add</i>	31.62	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	26.35	
23 33 13 16-0103 EA 44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	296.38	60.69
<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.69	
<i>For Dynamic Damper, Add</i>	61.66	
<i>For 3 Hour Rated, Add</i>	34.25	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.55	
23 33 13 16-0104 EA 44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	327.97	65.31
<i>For Spring Activated Horizontal Mount Operation, Add</i>	29.64	
<i>For Dynamic Damper, Add</i>	71.15	
<i>For 3 Hour Rated, Add</i>	39.53	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	32.94	
23 33 13 16-0105 EA 44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	357.80	70.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.20	
<i>For Dynamic Damper, Add</i>	79.68	
<i>For 3 Hour Rated, Add</i>	44.27	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	36.89	
23 33 13 16-0106 EA 44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	389.37	74.70
<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.15	
<i>For Dynamic Damper, Add</i>	89.16	
<i>For 3 Hour Rated, Add</i>	49.54	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	41.28	
23 33 13 16-0107 EA 44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	412.19	76.94
<i>For Spring Activated Horizontal Mount Operation, Add</i>	40.71	
<i>For Dynamic Damper, Add</i>	97.70	
<i>For 3 Hour Rated, Add</i>	54.28	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	45.23	
23 33 13 16-0108 EA 44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	435.01	79.33
<i>For Spring Activated Horizontal Mount Operation, Add</i>	44.27	
<i>For Dynamic Damper, Add</i>	106.24	
<i>For 3 Hour Rated, Add</i>	59.02	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	49.19	
23 33 13 16-0109 EA 44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	457.84	81.71
<i>For Spring Activated Horizontal Mount Operation, Add</i>	47.83	
<i>For Dynamic Damper, Add</i>	114.78	
<i>For 3 Hour Rated, Add</i>	63.77	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	53.14	
23 33 13 16-0110 EA 48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	185.89	37.28
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.60	
<i>For Dynamic Damper, Add</i>	39.84	
<i>For 3 Hour Rated, Add</i>	22.13	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0111 EA 48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.94	39.66
For Spring Activated Horizontal Mount Operation, Add	18.18	
For Dynamic Damper, Add	43.64	
For 3 Hour Rated, Add	24.24	
For Cap Of Damper Blades Outside Air Stream, Add	20.20	
23 33 13 16-0112 EA 48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.71	42.05
For Spring Activated Horizontal Mount Operation, Add	18.58	
For Dynamic Damper, Add	44.59	
For 3 Hour Rated, Add	24.77	
For Cap Of Damper Blades Outside Air Stream, Add	20.64	
23 33 13 16-0113 EA 48" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.99	46.67
For Spring Activated Horizontal Mount Operation, Add	19.76	
For Dynamic Damper, Add	47.43	
For 3 Hour Rated, Add	26.35	
For Cap Of Damper Blades Outside Air Stream, Add	21.96	
23 33 13 16-0114 EA 48" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	249.03	51.30
For Spring Activated Horizontal Mount Operation, Add	21.34	
For Dynamic Damper, Add	51.22	
For 3 Hour Rated, Add	28.46	
For Cap Of Damper Blades Outside Air Stream, Add	23.72	
23 33 13 16-0115 EA 48" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	270.08	56.07
For Spring Activated Horizontal Mount Operation, Add	22.93	
For Dynamic Damper, Add	55.02	
For 3 Hour Rated, Add	30.57	
For Cap Of Damper Blades Outside Air Stream, Add	25.47	
23 33 13 16-0116 EA 48" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	294.63	60.69
For Spring Activated Horizontal Mount Operation, Add	25.30	
For Dynamic Damper, Add	60.71	
For 3 Hour Rated, Add	33.73	
For Cap Of Damper Blades Outside Air Stream, Add	28.11	
23 33 13 16-0117 EA 48" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	319.19	65.31
For Spring Activated Horizontal Mount Operation, Add	27.67	
For Dynamic Damper, Add	66.40	
For 3 Hour Rated, Add	36.89	
For Cap Of Damper Blades Outside Air Stream, Add	30.74	
23 33 13 16-0118 EA 48" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	349.02	70.08
For Spring Activated Horizontal Mount Operation, Add	31.23	
For Dynamic Damper, Add	74.94	
For 3 Hour Rated, Add	41.63	
For Cap Of Damper Blades Outside Air Stream, Add	34.70	
23 33 13 16-0119 EA 48" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	382.34	74.70
For Spring Activated Horizontal Mount Operation, Add	35.57	
For Dynamic Damper, Add	85.37	
For 3 Hour Rated, Add	47.43	
For Cap Of Damper Blades Outside Air Stream, Add	39.52	
23 33 13 16-0120 EA 48" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	405.18	76.94
For Spring Activated Horizontal Mount Operation, Add	39.13	
For Dynamic Damper, Add	93.92	
For 3 Hour Rated, Add	52.18	
For Cap Of Damper Blades Outside Air Stream, Add	43.48	
23 33 13 16-0121 EA 48" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	433.25	79.33
For Spring Activated Horizontal Mount Operation, Add	43.87	
For Dynamic Damper, Add	105.29	
For 3 Hour Rated, Add	58.49	
For Cap Of Damper Blades Outside Air Stream, Add	48.75	
23 33 13 16-0122 EA 48" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	463.09	83.95
For Spring Activated Horizontal Mount Operation, Add	47.43	
For Dynamic Damper, Add	113.83	
For 3 Hour Rated, Add	63.24	
For Cap Of Damper Blades Outside Air Stream, Add	52.70	
23 33 13 16-0123 EA 48" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	491.18	86.34
For Spring Activated Horizontal Mount Operation, Add	52.17	
For Dynamic Damper, Add	125.22	
For 3 Hour Rated, Add	69.56	
For Cap Of Damper Blades Outside Air Stream, Add	57.97	
23 33 13 16-0124 EA 48" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	526.24	93.35
For Spring Activated Horizontal Mount Operation, Add	55.33	
For Dynamic Damper, Add	132.80	
For 3 Hour Rated, Add	73.78	
For Cap Of Damper Blades Outside Air Stream, Add	61.48	
23 33 13 16-0125 EA 52" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	198.18	39.66
For Spring Activated Horizontal Mount Operation, Add	17.79	
For Dynamic Damper, Add	42.69	
For 3 Hour Rated, Add	23.72	
For Cap Of Damper Blades Outside Air Stream, Add	19.76	
23 33 13 16-0126 EA 52" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	212.22	42.05
For Spring Activated Horizontal Mount Operation, Add	19.37	
For Dynamic Damper, Add	46.48	
For 3 Hour Rated, Add	25.82	
For Cap Of Damper Blades Outside Air Stream, Add	21.52	
23 33 13 16-0127 EA 52" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	233.25	46.67
For Spring Activated Horizontal Mount Operation, Add	20.95	
For Dynamic Damper, Add	50.27	
For 3 Hour Rated, Add	27.93	
For Cap Of Damper Blades Outside Air Stream, Add	23.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0128 EA 52" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	249.03	51.30
<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.34	
<i>For Dynamic Damper, Add</i>	51.22	
<i>For 3 Hour Rated, Add</i>	28.46	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	23.72	
23 33 13 16-0129 EA 52" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	270.97	56.07
<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.13	
<i>For Dynamic Damper, Add</i>	55.50	
<i>For 3 Hour Rated, Add</i>	30.83	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.70	
23 33 13 16-0130 EA 52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	292.87	60.69
<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.90	
<i>For Dynamic Damper, Add</i>	59.76	
<i>For 3 Hour Rated, Add</i>	33.20	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.67	
23 33 13 16-0131 EA 52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	317.44	65.31
<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.27	
<i>For Dynamic Damper, Add</i>	65.46	
<i>For 3 Hour Rated, Add</i>	36.37	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.31	
23 33 13 16-0132 EA 52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	341.99	70.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	29.64	
<i>For Dynamic Damper, Add</i>	71.15	
<i>For 3 Hour Rated, Add</i>	39.53	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	32.94	
23 33 13 16-0133 EA 52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	371.81	74.70
<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.20	
<i>For Dynamic Damper, Add</i>	79.68	
<i>For 3 Hour Rated, Add</i>	44.27	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	36.89	
23 33 13 16-0134 EA 52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	406.91	79.33
<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.94	
<i>For Dynamic Damper, Add</i>	91.07	
<i>For 3 Hour Rated, Add</i>	50.59	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	42.16	
23 33 13 16-0135 EA 52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	431.47	81.71
<i>For Spring Activated Horizontal Mount Operation, Add</i>	41.89	
<i>For Dynamic Damper, Add</i>	100.54	
<i>For 3 Hour Rated, Add</i>	55.86	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	46.55	
23 33 13 16-0136 EA 52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	461.33	83.95
<i>For Spring Activated Horizontal Mount Operation, Add</i>	47.03	
<i>For Dynamic Damper, Add</i>	112.88	
<i>For 3 Hour Rated, Add</i>	62.71	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	52.26	
23 33 13 16-0137 EA 52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	496.41	88.72
<i>For Spring Activated Horizontal Mount Operation, Add</i>	51.77	
<i>For Dynamic Damper, Add</i>	124.26	
<i>For 3 Hour Rated, Add</i>	69.03	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	57.53	
23 33 13 16-0138 EA 52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	526.24	93.35
<i>For Spring Activated Horizontal Mount Operation, Add</i>	55.33	
<i>For Dynamic Damper, Add</i>	132.80	
<i>For 3 Hour Rated, Add</i>	73.78	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	61.48	
23 33 13 16-0139 EA 52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	568.34	100.36
<i>For Spring Activated Horizontal Mount Operation, Add</i>	60.08	
<i>For Dynamic Damper, Add</i>	144.19	
<i>For 3 Hour Rated, Add</i>	80.10	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	66.75	
23 33 13 16-0140 EA 52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	599.93	104.97
<i>For Spring Activated Horizontal Mount Operation, Add</i>	64.03	
<i>For Dynamic Damper, Add</i>	153.67	
<i>For 3 Hour Rated, Add</i>	85.37	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	71.15	
23 33 13 16-0141 EA 56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.71	42.05
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.58	
<i>For Dynamic Damper, Add</i>	44.59	
<i>For 3 Hour Rated, Add</i>	24.77	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.64	
23 33 13 16-0142 EA 56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	231.49	46.67
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.55	
<i>For Dynamic Damper, Add</i>	49.32	
<i>For 3 Hour Rated, Add</i>	27.40	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.84	
23 33 13 16-0143 EA 56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	250.79	51.30
<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.74	
<i>For Dynamic Damper, Add</i>	52.17	
<i>For 3 Hour Rated, Add</i>	28.99	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.16	
23 33 13 16-0144 EA 56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.56	56.07
<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.13	
<i>For Dynamic Damper, Add</i>	53.12	
<i>For 3 Hour Rated, Add</i>	29.51	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.59	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0145 EA 56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	290.24	60.69
For Spring Activated Horizontal Mount Operation, Add	24.31	
For Dynamic Damper, Add	58.34	
For 3 Hour Rated, Add	32.41	
For Cap Of Damper Blades Outside Air Stream, Add	27.01	
23 33 13 16-0146 EA 56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	313.92	65.31
For Spring Activated Horizontal Mount Operation, Add	26.48	
For Dynamic Damper, Add	63.56	
For 3 Hour Rated, Add	35.31	
For Cap Of Damper Blades Outside Air Stream, Add	29.43	
23 33 13 16-0147 EA 56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	337.60	70.08
For Spring Activated Horizontal Mount Operation, Add	28.66	
For Dynamic Damper, Add	68.77	
For 3 Hour Rated, Add	38.21	
For Cap Of Damper Blades Outside Air Stream, Add	31.84	
23 33 13 16-0148 EA 56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	361.27	74.70
For Spring Activated Horizontal Mount Operation, Add	30.83	
For Dynamic Damper, Add	73.99	
For 3 Hour Rated, Add	41.11	
For Cap Of Damper Blades Outside Air Stream, Add	34.26	
23 33 13 16-0149 EA 56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	396.36	79.33
For Spring Activated Horizontal Mount Operation, Add	35.57	
For Dynamic Damper, Add	85.37	
For 3 Hour Rated, Add	47.43	
For Cap Of Damper Blades Outside Air Stream, Add	39.52	
23 33 13 16-0150 EA 56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	424.46	81.71
For Spring Activated Horizontal Mount Operation, Add	40.32	
For Dynamic Damper, Add	96.76	
For 3 Hour Rated, Add	53.75	
For Cap Of Damper Blades Outside Air Stream, Add	44.80	
23 33 13 16-0151 EA 56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	450.79	83.95
For Spring Activated Horizontal Mount Operation, Add	44.66	
For Dynamic Damper, Add	107.19	
For 3 Hour Rated, Add	59.55	
For Cap Of Damper Blades Outside Air Stream, Add	49.63	
23 33 13 16-0152 EA 56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	489.40	88.72
For Spring Activated Horizontal Mount Operation, Add	50.20	
For Dynamic Damper, Add	120.47	
For 3 Hour Rated, Add	66.93	
For Cap Of Damper Blades Outside Air Stream, Add	55.78	
23 33 13 16-0153 EA 56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	524.48	93.35
For Spring Activated Horizontal Mount Operation, Add	54.94	
For Dynamic Damper, Add	131.85	
For 3 Hour Rated, Add	73.25	
For Cap Of Damper Blades Outside Air Stream, Add	61.04	
23 33 13 16-0154 EA 56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	561.34	97.97
For Spring Activated Horizontal Mount Operation, Add	60.08	
For Dynamic Damper, Add	144.19	
For 3 Hour Rated, Add	80.10	
For Cap Of Damper Blades Outside Air Stream, Add	66.75	
23 33 13 16-0155 EA 56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	592.92	102.73
For Spring Activated Horizontal Mount Operation, Add	64.03	
For Dynamic Damper, Add	153.67	
For 3 Hour Rated, Add	85.37	
For Cap Of Damper Blades Outside Air Stream, Add	71.15	
23 33 13 16-0156 EA 56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	629.77	107.36
For Spring Activated Horizontal Mount Operation, Add	69.17	
For Dynamic Damper, Add	166.00	
For 3 Hour Rated, Add	92.22	
For Cap Of Damper Blades Outside Air Stream, Add	76.85	
23 33 13 16-0157 EA 56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	666.63	111.98
For Spring Activated Horizontal Mount Operation, Add	74.31	
For Dynamic Damper, Add	178.34	
For 3 Hour Rated, Add	99.08	
For Cap Of Damper Blades Outside Air Stream, Add	82.56	
23 33 13 16-0158 EA 60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.99	46.67
For Spring Activated Horizontal Mount Operation, Add	19.76	
For Dynamic Damper, Add	47.43	
For 3 Hour Rated, Add	26.35	
For Cap Of Damper Blades Outside Air Stream, Add	21.96	
23 33 13 16-0159 EA 60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	250.79	51.30
For Spring Activated Horizontal Mount Operation, Add	21.74	
For Dynamic Damper, Add	52.17	
For 3 Hour Rated, Add	28.99	
For Cap Of Damper Blades Outside Air Stream, Add	24.16	
23 33 13 16-0160 EA 60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	268.32	56.07
For Spring Activated Horizontal Mount Operation, Add	22.53	
For Dynamic Damper, Add	54.07	
For 3 Hour Rated, Add	30.04	
For Cap Of Damper Blades Outside Air Stream, Add	25.03	
23 33 13 16-0161 EA 60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.09	60.69
For Spring Activated Horizontal Mount Operation, Add	22.93	
For Dynamic Damper, Add	55.02	
For 3 Hour Rated, Add	30.57	
For Cap Of Damper Blades Outside Air Stream, Add	25.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0162 EA 60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	308.65	65.31
<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.30	
<i>For Dynamic Damper, Add</i>	60.71	
<i>For 3 Hour Rated, Add</i>	33.73	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.11	
23 33 13 16-0163 EA 60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	333.21	70.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.67	
<i>For Dynamic Damper, Add</i>	66.40	
<i>For 3 Hour Rated, Add</i>	36.89	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.74	
23 33 13 16-0164 EA 60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	358.63	74.70
<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.24	
<i>For Dynamic Damper, Add</i>	72.57	
<i>For 3 Hour Rated, Add</i>	40.31	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	33.60	
23 33 13 16-0165 EA 60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	384.07	79.33
<i>For Spring Activated Horizontal Mount Operation, Add</i>	32.81	
<i>For Dynamic Damper, Add</i>	78.73	
<i>For 3 Hour Rated, Add</i>	43.74	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	36.45	
23 33 13 16-0166 EA 60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	413.92	81.71
<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.94	
<i>For Dynamic Damper, Add</i>	91.07	
<i>For 3 Hour Rated, Add</i>	50.59	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	42.16	
23 33 13 16-0167 EA 60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	442.00	83.95
<i>For Spring Activated Horizontal Mount Operation, Add</i>	42.68	
<i>For Dynamic Damper, Add</i>	102.44	
<i>For 3 Hour Rated, Add</i>	56.91	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	47.43	
23 33 13 16-0168 EA 60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	478.86	88.72
<i>For Spring Activated Horizontal Mount Operation, Add</i>	47.83	
<i>For Dynamic Damper, Add</i>	114.78	
<i>For 3 Hour Rated, Add</i>	63.77	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	53.14	
23 33 13 16-0169 EA 60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	515.71	93.35
<i>For Spring Activated Horizontal Mount Operation, Add</i>	52.97	
<i>For Dynamic Damper, Add</i>	127.12	
<i>For 3 Hour Rated, Add</i>	70.62	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	58.85	
23 33 13 16-0170 EA 60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	547.29	97.97
<i>For Spring Activated Horizontal Mount Operation, Add</i>	56.92	
<i>For Dynamic Damper, Add</i>	136.60	
<i>For 3 Hour Rated, Add</i>	75.89	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	63.24	
23 33 13 16-0171 EA 60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	589.40	102.73
<i>For Spring Activated Horizontal Mount Operation, Add</i>	63.24	
<i>For Dynamic Damper, Add</i>	151.77	
<i>For 3 Hour Rated, Add</i>	84.32	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	70.27	
23 33 13 16-0172 EA 60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	628.01	107.36
<i>For Spring Activated Horizontal Mount Operation, Add</i>	68.77	
<i>For Dynamic Damper, Add</i>	165.05	
<i>For 3 Hour Rated, Add</i>	91.70	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	76.41	
23 33 13 16-0173 EA 60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	666.63	111.98
<i>For Spring Activated Horizontal Mount Operation, Add</i>	74.31	
<i>For Dynamic Damper, Add</i>	178.34	
<i>For 3 Hour Rated, Add</i>	99.08	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	82.56	
23 33 13 16-0174 EA 60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	701.70	116.75
<i>For Spring Activated Horizontal Mount Operation, Add</i>	79.04	
<i>For Dynamic Damper, Add</i>	189.71	
<i>For 3 Hour Rated, Add</i>	105.39	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	87.83	
23 33 13 16-0175 EA 60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	736.83	121.38
<i>For Spring Activated Horizontal Mount Operation, Add</i>	83.79	
<i>For Dynamic Damper, Add</i>	201.11	
<i>For 3 Hour Rated, Add</i>	111.73	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	93.11	
23 33 13 16-0176 Parallel Blade Louver Fire Damper <small>(23 33 13 16)</small>		
Note: UL listed. 22 gauge galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating.		
23 33 13 16-0177 EA 6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	97.57	15.56
<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.45	
<i>For Dynamic Damper, Add</i>	27.49	
<i>For 3 Hour Rated, Add</i>	15.27	
23 33 13 16-0178 EA 8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.85	16.26
<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.94	
<i>For Dynamic Damper, Add</i>	28.66	
<i>For 3 Hour Rated, Add</i>	15.92	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33	13 16-0179	EA	8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	104.34	16.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.44	
			<i>For Dynamic Damper, Add</i>	29.85	
			<i>For 3 Hour Rated, Add</i>	16.58	
23 33	13 16-0180	EA	10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	104.34	16.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.44	
			<i>For Dynamic Damper, Add</i>	29.85	
			<i>For 3 Hour Rated, Add</i>	16.58	
23 33	13 16-0181	EA	10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	107.94	16.82
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.93	
			<i>For Dynamic Damper, Add</i>	31.04	
			<i>For 3 Hour Rated, Add</i>	17.24	
23 33	13 16-0182	EA	10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	117.93	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.92	
			<i>For Dynamic Damper, Add</i>	33.40	
			<i>For 3 Hour Rated, Add</i>	18.56	
23 33	13 16-0183	EA	12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	107.94	16.82
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.93	
			<i>For Dynamic Damper, Add</i>	31.04	
			<i>For 3 Hour Rated, Add</i>	17.24	
23 33	13 16-0184	EA	12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	115.12	17.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.92	
			<i>For Dynamic Damper, Add</i>	33.40	
			<i>For 3 Hour Rated, Add</i>	18.56	
23 33	13 16-0185	EA	12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.13	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.41	
			<i>For Dynamic Damper, Add</i>	34.59	
			<i>For 3 Hour Rated, Add</i>	19.22	
23 33	13 16-0186	EA	12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	129.33	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.91	
			<i>For Dynamic Damper, Add</i>	35.78	
			<i>For 3 Hour Rated, Add</i>	19.88	
23 33	13 16-0187	EA	14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	114.03	17.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.67	
			<i>For Dynamic Damper, Add</i>	32.82	
			<i>For 3 Hour Rated, Add</i>	18.23	
23 33	13 16-0188	EA	14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.13	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.41	
			<i>For Dynamic Damper, Add</i>	34.59	
			<i>For 3 Hour Rated, Add</i>	19.22	
23 33	13 16-0189	EA	14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	125.12	19.62
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.91	
			<i>For Dynamic Damper, Add</i>	35.78	
			<i>For 3 Hour Rated, Add</i>	19.88	
23 33	13 16-0190	EA	14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.52	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.40	
			<i>For Dynamic Damper, Add</i>	36.96	
			<i>For 3 Hour Rated, Add</i>	20.54	
23 33	13 16-0191	EA	14" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	144.03	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.64	
			<i>For Dynamic Damper, Add</i>	39.93	
			<i>For 3 Hour Rated, Add</i>	22.19	
23 33	13 16-0192	EA	16" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	145.55	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.13	
			<i>For Dynamic Damper, Add</i>	48.32	
			<i>For 3 Hour Rated, Add</i>	26.84	
23 33	13 16-0193	EA	16" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	152.21	20.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.69	
			<i>For Dynamic Damper, Add</i>	49.65	
			<i>For 3 Hour Rated, Add</i>	27.58	
23 33	13 16-0194	EA	16" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.28	22.00
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.24	
			<i>For Dynamic Damper, Add</i>	50.98	
			<i>For 3 Hour Rated, Add</i>	28.32	
23 33	13 16-0195	EA	16" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	166.93	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.79	
			<i>For Dynamic Damper, Add</i>	52.30	
			<i>For 3 Hour Rated, Add</i>	29.06	
23 33	13 16-0196	EA	16" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	180.11	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.18	
			<i>For Dynamic Damper, Add</i>	55.63	
			<i>For 3 Hour Rated, Add</i>	30.91	
23 33	13 16-0197	EA	16" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	193.27	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.56	
			<i>For Dynamic Damper, Add</i>	58.95	
			<i>For 3 Hour Rated, Add</i>	32.75	
23 33	13 16-0198	EA	18" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	150.80	19.62
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.69	
			<i>For Dynamic Damper, Add</i>	49.65	
			<i>For 3 Hour Rated, Add</i>	27.58	
23 33	13 16-0199	EA	18" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	158.70	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.52	
			<i>For Dynamic Damper, Add</i>	51.64	
			<i>For 3 Hour Rated, Add</i>	28.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0200 EA 18" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	169.42 22.35 53.64 29.80	23.40
23 33 13 16-0201 EA 18" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	182.57 23.73 56.96 31.64	25.64
23 33 13 16-0202 EA 18" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	194.49 24.84 59.61 33.12	28.03
23 33 13 16-0203 EA 18" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	207.64 26.22 62.93 34.96	30.27
23 33 13 16-0204 EA 18" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.34 27.05 64.92 36.07	32.65
23 33 13 16-0205 EA 20" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	157.48 21.24 50.98 28.32	21.02
23 33 13 16-0206 EA 20" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	169.39 22.34 53.63 29.79	23.40
23 33 13 16-0207 EA 20" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	181.33 23.45 56.29 31.27	25.64
23 33 13 16-0208 EA 20" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	198.20 25.67 61.61 34.23	28.03
23 33 13 16-0209 EA 20" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	208.88 26.50 63.60 35.33	30.27
23 33 13 16-0210 EA 20" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	219.57 27.33 65.59 36.44	32.65
23 33 13 16-0211 EA 20" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	231.49 28.44 68.25 37.91	35.04
23 33 13 16-0212 EA 20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	243.40 29.54 70.89 39.38	37.28
23 33 13 16-0213 EA 24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	192.01 27.43 65.84 36.58	23.40
23 33 13 16-0214 EA 24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	206.41 29.10 69.83 38.80	25.64
23 33 13 16-0215 EA 24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.35 30.21 72.50 40.28	28.03
23 33 13 16-0216 EA 24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	232.71 31.86 76.47 42.48	30.27
23 33 13 16-0217 EA 24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	243.41 32.69 78.46 43.59	32.65
23 33 13 16-0218 EA 24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	254.10 33.52 80.45 44.70	35.04
23 33 13 16-0219 EA 24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	268.48 35.18 84.43 46.91	37.28
23 33 13 16-0220 EA 24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	289.87 36.84 88.41 49.12	42.05

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0221	EA		24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....313.73	313.73	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	39.06	
			<i>For Dynamic Damper, Add</i>	93.73	
			<i>For 3 Hour Rated, Add</i>	52.07	
23 33 13 16-0222	EA		28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....206.41	206.41	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	29.10	
			<i>For Dynamic Damper, Add</i>	69.83	
			<i>For 3 Hour Rated, Add</i>	38.80	
23 33 13 16-0223	EA		28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....218.35	218.35	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.21	
			<i>For Dynamic Damper, Add</i>	72.50	
			<i>For 3 Hour Rated, Add</i>	40.28	
23 33 13 16-0224	EA		28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....232.71	232.71	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	31.86	
			<i>For Dynamic Damper, Add</i>	76.47	
			<i>For 3 Hour Rated, Add</i>	42.48	
23 33 13 16-0225	EA		28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....244.64	244.64	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	32.97	
			<i>For Dynamic Damper, Add</i>	79.13	
			<i>For 3 Hour Rated, Add</i>	43.96	
23 33 13 16-0226	EA		28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....257.79	257.79	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	34.35	
			<i>For Dynamic Damper, Add</i>	82.45	
			<i>For 3 Hour Rated, Add</i>	45.80	
23 33 13 16-0227	EA		28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....270.92	270.92	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	35.73	
			<i>For Dynamic Damper, Add</i>	85.75	
			<i>For 3 Hour Rated, Add</i>	47.64	
23 33 13 16-0228	EA		28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....292.33	292.33	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.39	
			<i>For Dynamic Damper, Add</i>	89.74	
			<i>For 3 Hour Rated, Add</i>	49.86	
23 33 13 16-0229	EA		28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....313.73	313.73	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	39.06	
			<i>For Dynamic Damper, Add</i>	93.73	
			<i>For 3 Hour Rated, Add</i>	52.07	
23 33 13 16-0230	EA		28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....335.49	335.49	49.06
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	42.37	
			<i>For Dynamic Damper, Add</i>	101.70	
			<i>For 3 Hour Rated, Add</i>	56.50	
23 33 13 16-0231	EA		28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....361.82	361.82	53.68
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	45.14	
			<i>For Dynamic Damper, Add</i>	108.35	
			<i>For 3 Hour Rated, Add</i>	60.19	
23 33 13 16-0232	EA		32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....225.71	225.71	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	31.86	
			<i>For Dynamic Damper, Add</i>	76.47	
			<i>For 3 Hour Rated, Add</i>	42.48	
23 33 13 16-0233	EA		32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....235.16	235.16	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	32.41	
			<i>For Dynamic Damper, Add</i>	77.79	
			<i>For 3 Hour Rated, Add</i>	43.22	
23 33 13 16-0234	EA		32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....244.64	244.64	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	32.97	
			<i>For Dynamic Damper, Add</i>	79.13	
			<i>For 3 Hour Rated, Add</i>	43.96	
23 33 13 16-0235	EA		32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....256.54	256.54	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	34.07	
			<i>For Dynamic Damper, Add</i>	81.77	
			<i>For 3 Hour Rated, Add</i>	45.43	
23 33 13 16-0236	EA		32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....271.40	271.40	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	35.84	
			<i>For Dynamic Damper, Add</i>	86.01	
			<i>For 3 Hour Rated, Add</i>	47.78	
23 33 13 16-0237	EA		32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....292.33	292.33	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.39	
			<i>For Dynamic Damper, Add</i>	89.74	
			<i>For 3 Hour Rated, Add</i>	49.86	
23 33 13 16-0238	EA		32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....316.20	316.20	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	39.61	
			<i>For Dynamic Damper, Add</i>	95.07	
			<i>For 3 Hour Rated, Add</i>	52.82	
23 33 13 16-0239	EA		32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....340.06	340.06	51.30
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	41.83	
			<i>For Dynamic Damper, Add</i>	100.38	
			<i>For 3 Hour Rated, Add</i>	55.77	
23 33 13 16-0240	EA		32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....361.82	361.82	53.68
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	45.14	
			<i>For Dynamic Damper, Add</i>	108.35	
			<i>For 3 Hour Rated, Add</i>	60.19	
23 33 13 16-0241	EA		32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....390.25	390.25	57.46
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	49.02	
			<i>For Dynamic Damper, Add</i>	117.64	
			<i>For 3 Hour Rated, Add</i>	65.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0242 EA 32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	419.72 53.44 128.26 71.26	60.69
23 33 13 16-0243 EA 36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	252.74 36.37 87.29 48.49	30.27
23 33 13 16-0244 EA 36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	265.35 37.63 90.31 50.17	32.65
23 33 13 16-0245 EA 36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	277.97 38.89 93.34 51.86	35.04
23 33 13 16-0246 EA 36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	293.43 40.79 97.91 54.39	37.28
23 33 13 16-0247 EA 36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	311.68 41.75 100.19 55.66	42.05
23 33 13 16-0248 EA 36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	322.90 42.69 102.47 56.93	44.29
23 33 13 16-0249 EA 36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	357.98 45.86 110.06 61.14	51.30
23 33 13 16-0250 EA 36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	386.03 49.01 117.63 65.35	56.07
23 33 13 16-0251 EA 36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	408.50 52.81 126.74 70.41	57.89
23 33 13 16-0252 EA 36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	443.60 57.87 138.88 77.16	62.09
23 33 13 16-0253 EA 36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.07 62.29 149.50 83.06	65.31
23 33 13 16-0254 EA 36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	502.57 67.35 161.64 89.80	67.69
23 33 13 16-0255 EA 40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	282.69 41.53 99.67 55.37	35.04
23 33 13 16-0256 EA 40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	300.94 44.06 105.75 58.75	37.28
23 33 13 16-0257 EA 40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	310.75 44.69 107.26 59.59	39.66
23 33 13 16-0258 EA 40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	320.58 45.33 108.78 60.44	42.05
23 33 13 16-0259 EA 40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	344.45 47.54 114.10 63.39	44.29
23 33 13 16-0260 EA 40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	361.28 49.75 119.41 66.34	46.67
23 33 13 16-0261 EA 40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	393.56 52.29 125.49 69.71	53.68
23 33 13 16-0262 EA 40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	418.82 54.81 131.55 73.09	58.31

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0263	EA		40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	446.90 58.61 140.66 78.15	62.09
23 33 13 16-0264	EA		40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	487.62 65.57 157.36 87.42	65.31
23 33 13 16-0265	EA		40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	515.68 69.36 166.46 92.48	69.10
23 33 13 16-0266	EA		40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	552.21 76.32 183.16 101.75	70.92
23 33 13 16-0267	EA		40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	591.54 82.64 198.34 110.19	74.70
23 33 13 16-0268	EA		44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	295.32 42.80 102.71 57.06	35.04
23 33 13 16-0269	EA		44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	313.57 45.33 108.78 60.44	37.28
23 33 13 16-0270	EA		44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	329.03 47.23 113.35 62.97	39.66
23 33 13 16-0271	EA		44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	338.85 47.86 114.86 63.81	42.05
23 33 13 16-0272	EA		44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	357.11 50.39 120.94 67.19	44.29
23 33 13 16-0273	EA		44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	375.35 52.92 127.01 70.56	46.67
23 33 13 16-0274	EA		44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	417.44 56.08 134.60 74.78	56.07
23 33 13 16-0275	EA		44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	445.49 59.24 142.18 78.99	60.69
23 33 13 16-0276	EA		44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	487.62 65.57 157.36 87.42	65.31
23 33 13 16-0277	EA		44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	526.94 71.26 171.02 95.01	70.08
23 33 13 16-0278	EA		44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	569.03 77.58 186.18 103.43	74.70
23 33 13 16-0279	EA		44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	601.34 83.27 199.84 111.02	76.94
23 33 13 16-0280	EA		44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	633.66 88.96 213.51 118.62	79.33
23 33 13 16-0281	EA		44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	665.97 94.66 227.17 126.21	81.71
23 33 13 16-0282	EA		48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	310.75 44.69 107.26 59.59	37.28
23 33 13 16-0283	EA		48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	329.03 47.23 113.35 62.97	39.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0284 EA 48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	338.85 47.86 114.86 63.81	42.05
23 33 13 16-0285 EA 48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	361.28 49.75 119.41 66.34	46.67
23 33 13 16-0286 EA 48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	386.55 52.29 125.49 69.71	51.30
23 33 13 16-0287 EA 48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	411.81 54.81 131.55 73.09	56.07
23 33 13 16-0288 EA 48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	442.69 58.61 140.66 78.15	60.69
23 33 13 16-0289 EA 48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.56 62.40 149.76 83.20	65.31
23 33 13 16-0290 EA 48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	512.89 68.10 163.43 90.80	70.08
23 33 13 16-0291 EA 48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	557.79 75.05 180.11 100.06	74.70
23 33 13 16-0292 EA 48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	590.12 80.74 193.78 107.66	76.94
23 33 13 16-0293 EA 48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	630.84 88.33 211.99 117.77	79.33
23 33 13 16-0294 EA 48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	670.18 94.03 225.66 125.37	83.95
23 33 13 16-0295 EA 48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	710.90 101.61 243.86 135.48	86.34
23 33 13 16-0296 EA 48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	754.40 106.67 256.01 142.23	93.35
23 33 13 16-0297 EA 52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	326.21 46.59 111.82 62.12	39.66
23 33 13 16-0298 EA 52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	344.47 49.12 117.90 65.50	42.05
23 33 13 16-0299 EA 52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	369.72 51.65 123.97 68.87	46.67
23 33 13 16-0300 EA 52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	386.55 52.29 125.49 69.71	51.30
23 33 13 16-0301 EA 52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	413.23 55.13 132.32 73.51	56.07
23 33 13 16-0302 EA 52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	439.87 57.98 139.14 77.30	60.69
23 33 13 16-0303 EA 52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	470.76 61.77 148.25 82.36	65.31
23 33 13 16-0304 EA 52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	501.64 65.57 157.36 87.42	70.08

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0305	EA		52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	540.95	74.70
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	71.26	
			<i>For Dynamic Damper, Add</i>	171.02	
			<i>For 3 Hour Rated, Add</i>	95.01	
23 33 13 16-0306	EA		52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	588.68	79.33
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	78.84	
			<i>For Dynamic Damper, Add</i>	189.22	
			<i>For 3 Hour Rated, Add</i>	105.12	
23 33 13 16-0307	EA		52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	623.80	81.71
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	85.17	
			<i>For Dynamic Damper, Add</i>	204.40	
			<i>For 3 Hour Rated, Add</i>	113.56	
23 33 13 16-0308	EA		52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	667.36	83.95
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	93.39	
			<i>For Dynamic Damper, Add</i>	224.14	
			<i>For 3 Hour Rated, Add</i>	124.52	
23 33 13 16-0309	EA		52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	715.07	88.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	100.97	
			<i>For Dynamic Damper, Add</i>	242.34	
			<i>For 3 Hour Rated, Add</i>	134.63	
23 33 13 16-0310	EA		52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	754.40	93.35
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	106.67	
			<i>For Dynamic Damper, Add</i>	256.01	
			<i>For 3 Hour Rated, Add</i>	142.23	
23 33 13 16-0311	EA		52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	809.14	100.36
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	114.26	
			<i>For Dynamic Damper, Add</i>	274.22	
			<i>For 3 Hour Rated, Add</i>	152.34	
23 33 13 16-0312	EA		52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	851.27	104.97
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	120.58	
			<i>For Dynamic Damper, Add</i>	289.40	
			<i>For 3 Hour Rated, Add</i>	160.78	
23 33 13 16-0313	EA		56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	338.85	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	47.86	
			<i>For Dynamic Damper, Add</i>	114.86	
			<i>For 3 Hour Rated, Add</i>	63.81	
23 33 13 16-0314	EA		56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	366.90	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	51.02	
			<i>For Dynamic Damper, Add</i>	122.45	
			<i>For 3 Hour Rated, Add</i>	68.03	
23 33 13 16-0315	EA		56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	389.37	51.30
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	52.92	
			<i>For Dynamic Damper, Add</i>	127.01	
			<i>For 3 Hour Rated, Add</i>	70.56	
23 33 13 16-0316	EA		56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	406.18	56.07
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	53.55	
			<i>For Dynamic Damper, Add</i>	128.51	
			<i>For 3 Hour Rated, Add</i>	71.40	
23 33 13 16-0317	EA		56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	435.67	60.69
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	57.03	
			<i>For Dynamic Damper, Add</i>	136.87	
			<i>For 3 Hour Rated, Add</i>	76.04	
23 33 13 16-0318	EA		56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	465.14	65.31
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	60.51	
			<i>For Dynamic Damper, Add</i>	145.22	
			<i>For 3 Hour Rated, Add</i>	80.68	
23 33 13 16-0319	EA		56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	494.62	70.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	63.99	
			<i>For Dynamic Damper, Add</i>	153.57	
			<i>For 3 Hour Rated, Add</i>	85.31	
23 33 13 16-0320	EA		56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	524.07	74.70
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	67.46	
			<i>For Dynamic Damper, Add</i>	161.90	
			<i>For 3 Hour Rated, Add</i>	89.95	
23 33 13 16-0321	EA		56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	571.81	79.33
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	75.05	
			<i>For Dynamic Damper, Add</i>	180.11	
			<i>For 3 Hour Rated, Add</i>	100.06	
23 33 13 16-0322	EA		56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	612.57	81.71
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	82.64	
			<i>For Dynamic Damper, Add</i>	198.34	
			<i>For 3 Hour Rated, Add</i>	110.19	
23 33 13 16-0323	EA		56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	650.48	83.95
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	89.59	
			<i>For Dynamic Damper, Add</i>	215.02	
			<i>For 3 Hour Rated, Add</i>	119.46	
23 33 13 16-0324	EA		56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	703.85	88.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	98.45	
			<i>For Dynamic Damper, Add</i>	236.28	
			<i>For 3 Hour Rated, Add</i>	131.27	
23 33 13 16-0325	EA		56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	751.58	93.35
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	106.04	
			<i>For Dynamic Damper, Add</i>	254.49	
			<i>For 3 Hour Rated, Add</i>	141.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0326 EA 56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	802.14 114.26 274.22 152.34	97.97
23 33 13 16-0327 EA 56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	844.26 120.58 289.40 160.78	102.73
23 33 13 16-0328 EA 56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	894.82 128.80 309.13 171.74	107.36
23 33 13 16-0329 EA 56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	945.38 137.03 328.86 182.70	111.98
23 33 13 16-0330 EA 60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	361.28 49.75 119.41 66.34	46.67
23 33 13 16-0331 EA 60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	389.37 52.92 127.01 70.56	51.30
23 33 13 16-0332 EA 60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	408.99 54.18 130.03 72.24	56.07
23 33 13 16-0333 EA 60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	425.82 54.81 131.55 73.09	60.69
23 33 13 16-0334 EA 60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	456.71 58.61 140.66 78.15	65.31
23 33 13 16-0335 EA 60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	487.58 62.40 149.76 83.20	70.08
23 33 13 16-0336 EA 60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	519.86 66.51 159.63 88.68	74.70
23 33 13 16-0337 EA 60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	552.15 70.62 169.50 94.16	79.33
23 33 13 16-0338 EA 60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	595.69 78.84 189.22 105.12	81.71
23 33 13 16-0339 EA 60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	636.43 86.43 207.44 115.24	83.95
23 33 13 16-0340 EA 60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	686.99 94.66 227.17 126.21	88.72
23 33 13 16-0341 EA 60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	737.54 102.88 246.90 137.17	93.35
23 33 13 16-0342 EA 60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	779.66 109.20 262.08 145.60	97.97
23 33 13 16-0343 EA 60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	838.63 119.32 286.36 159.09	102.73
23 33 13 16-0344 EA 60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	892.00 128.17 307.61 170.89	107.36
23 33 13 16-0345 EA 60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	945.38 137.03 328.86 182.70	111.98
23 33 13 16-0346 EA 60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	993.09 144.61 347.06 192.81	116.75

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0347	EA		60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,040.87 152.20 365.29 202.94	121.38
23 33 13 16-0348			Round 2 Hour Fire Damper (23 33 13 16)		
23 33 13 16-0349	EA		4" Round 2 Hour Fire Damper	83.91	28.03
23 33 13 16-0350	EA		5" Round 2 Hour Fire Damper	85.90	28.03
23 33 13 16-0351	EA		6" Round 2 Hour Fire Damper	99.52	31.82
23 33 13 16-0352	EA		7" Round 2 Hour Fire Damper	101.68	31.82
23 33 13 16-0353	EA		8" Round 2 Hour Fire Damper	117.81	35.04
23 33 13 16-0354	EA		9" Round 2 Hour Fire Damper	123.78	35.04
23 33 13 16-0355	EA		10" Round 2 Hour Fire Damper	137.54	38.96
23 33 13 16-0356	EA		12" Round 2 Hour Fire Damper	154.59	43.87
23 33 13 16-0357	EA		14" Round 2 Hour Fire Damper	176.07	50.03
23 33 13 16-0358			Round 4 Hour Fire Damper (23 33 13 16)		
23 33 13 16-0359	EA		4" Round 4 Hour Fire Damper	94.89	31.82
23 33 13 16-0360	EA		5" Round 4 Hour Fire Damper	100.32	31.82
23 33 13 16-0361	EA		6" Round 4 Hour Fire Damper	112.19	35.04
23 33 13 16-0362	EA		7" Round 4 Hour Fire Damper	119.20	35.04
23 33 13 16-0363	EA		8" Round 4 Hour Fire Damper	134.01	38.96
23 33 13 16-0364	EA		9" Round 4 Hour Fire Damper	138.28	38.96
23 33 13 16-0365	EA		10" Round 4 Hour Fire Damper	154.72	43.87
23 33 13 16-0366	EA		12" Round 4 Hour Fire Damper	173.35	50.03
23 33 13 16-0367	EA		14" Round 4 Hour Fire Damper	202.24	58.45
23 33 13 19			Smoke-Control Dampers (23 33 13)		
23 33 13 19-0001			Combination Smoke/Fire Damper (23 33 13 19) Note: Leakage class I with Firestat UL 555S air foil blades.		
23 33 13 19-0002	EA		6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	248.46 53.54	23.33
23 33 13 19-0003	EA		8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	255.96 54.84	24.39
23 33 13 19-0004	EA		8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	260.81 56.17	24.60
23 33 13 19-0005	EA		10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	260.81 56.17	24.60
23 33 13 19-0006	EA		10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	267.29 57.48	25.23
23 33 13 19-0007	EA		10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	284.50 60.12	27.96
23 33 13 19-0008	EA		12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	267.29 57.48	25.23
23 33 13 19-0009	EA		12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	280.29 60.12	26.70
23 33 13 19-0010	EA		12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	288.88 61.43	27.96
23 33 13 19-0011	EA		12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	303.79 62.76	31.54
23 33 13 19-0012	EA		14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	278.09 59.46	26.70
23 33 13 19-0013	EA		14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	288.88 61.43	27.96
23 33 13 19-0014	EA		14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	297.49 62.76	29.44
23 33 13 19-0015	EA		14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	308.21 64.08	31.54
23 33 13 19-0016	EA		14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	329.70 67.38	35.11
23 33 13 19-0017	EA		16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	449.62 109.66	27.96
23 33 13 19-0018	EA		16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	460.33 110.98	30.06
23 33 13 19-0019	EA		16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	473.15 112.30	33.01
23 33 13 19-0020	EA		16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	483.81 113.61	35.11
23 33 13 19-0021	EA		16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	505.35 116.92	38.48
23 33 13 19-0022	EA		16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	526.84 120.21	42.05
23 33 13 19-0023	EA		18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	458.23 110.98	29.44
23 33 13 19-0024	EA		18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	471.11 112.95	31.54
23 33 13 19-0025	EA		18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	488.25 114.94	35.11



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
Air Duct Accessories	23 33

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0026 EA 18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	509.76 <i>118.24</i>	38.48
23 33 13 19-0027 EA 18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	529.04 <i>120.87</i>	42.05
23 33 13 19-0028 EA 18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	550.53 <i>124.16</i>	45.41
23 33 13 19-0029 EA 18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	567.65 <i>126.15</i>	48.99
23 33 13 19-0030 EA 20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	468.94 <i>112.30</i>	31.54
23 33 13 19-0031 EA 20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	488.22 <i>114.93</i>	35.11
23 33 13 19-0032 EA 20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	507.54 <i>117.57</i>	38.48
23 33 13 19-0033 EA 20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	535.67 <i>122.86</i>	42.05
23 33 13 19-0034 EA 20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	552.76 <i>124.83</i>	45.41
23 33 13 19-0035 EA 20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	569.84 <i>126.80</i>	48.99
23 33 13 19-0036 EA 20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	589.16 <i>129.44</i>	52.56
23 33 13 19-0037 EA 20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	608.44 <i>132.08</i>	55.93
23 33 13 19-0038 EA 24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	667.95 <i>168.85</i>	35.11
23 33 13 19-0039 EA 24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	691.68 <i>172.82</i>	38.48
23 33 13 19-0040 EA 24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	711.02 <i>175.46</i>	42.05
23 33 13 19-0041 EA 24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	734.68 <i>179.41</i>	45.41
23 33 13 19-0042 EA 24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	751.80 <i>181.39</i>	48.99
23 33 13 19-0043 EA 24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	768.89 <i>183.36</i>	52.56
23 33 13 19-0044 EA 24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	792.58 <i>187.32</i>	55.93
23 33 13 19-0045 EA 24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	826.78 <i>191.27</i>	63.07
23 33 13 19-0046 EA 24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	865.41 <i>196.55</i>	70.01
23 33 13 19-0047 EA 28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	691.68 <i>172.82</i>	38.48
23 33 13 19-0048 EA 28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	711.02 <i>175.46</i>	42.05
23 33 13 19-0049 EA 28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	734.68 <i>179.41</i>	45.41
23 33 13 19-0050 EA 28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	753.99 <i>182.05</i>	48.99
23 33 13 19-0051 EA 28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	775.50 <i>185.35</i>	52.56
23 33 13 19-0052 EA 28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	796.97 <i>188.63</i>	55.93
23 33 13 19-0053 EA 28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	831.17 <i>192.59</i>	63.07
23 33 13 19-0054 EA 28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	865.41 <i>196.55</i>	70.01
23 33 13 19-0055 EA 28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	902.28 <i>204.46</i>	73.59
23 33 13 19-0056 EA 28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	945.27 <i>211.05</i>	80.53
23 33 13 19-0057 EA 32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	724.17 <i>179.41</i>	42.05
23 33 13 19-0058 EA 32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	739.06 <i>180.72</i>	45.41
23 33 13 19-0059 EA 32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	753.99 <i>182.05</i>	48.99
23 33 13 19-0060 EA 32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	773.28 <i>184.68</i>	52.56
23 33 13 19-0061 EA 32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	797.78 <i>188.88</i>	55.93
23 33 13 19-0062 EA 32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	831.17 <i>192.59</i>	63.07
23 33 13 19-0063 EA 32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	869.82 <i>197.87</i>	70.01
23 33 13 19-0064 EA 32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	908.43 <i>203.15</i>	76.94
23 33 13 19-0065 EA 32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	945.27 <i>211.05</i>	80.53
23 33 13 19-0066 EA 32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	992.90 <i>220.29</i>	86.20
23 33 13 19-0067 EA 32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,042.74 <i>230.83</i>	91.03

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0068	EA		36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	761.63	45.41
			<i>For 3 Hour Rated, Add</i>	187.49	
23 33 13 19-0069	EA		36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	781.66	48.99
			<i>For 3 Hour Rated, Add</i>	190.35	
23 33 13 19-0070	EA		36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	801.74	52.56
			<i>For 3 Hour Rated, Add</i>	193.22	
23 33 13 19-0071	EA		36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	826.60	55.93
			<i>For 3 Hour Rated, Add</i>	197.52	
23 33 13 19-0072	EA		36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	854.81	63.07
			<i>For 3 Hour Rated, Add</i>	199.68	
23 33 13 19-0073	EA		36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	872.49	66.44
			<i>For 3 Hour Rated, Add</i>	201.83	
23 33 13 19-0074	EA		36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	927.93	76.94
			<i>For 3 Hour Rated, Add</i>	209.00	
23 33 13 19-0075	EA		36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	972.80	84.10
			<i>For 3 Hour Rated, Add</i>	216.15	
23 33 13 19-0076	EA		36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,009.87	86.83
			<i>For 3 Hour Rated, Add</i>	224.75	
23 33 13 19-0077	EA		36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,067.02	93.14
			<i>For 3 Hour Rated, Add</i>	236.22	
23 33 13 19-0078	EA		36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,115.14	97.97
			<i>For 3 Hour Rated, Add</i>	246.24	
23 33 13 19-0079	EA		36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,163.88	101.54
			<i>For 3 Hour Rated, Add</i>	257.71	
23 33 13 19-0080	EA		40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	937.64	52.56
			<i>For 3 Hour Rated, Add</i>	237.14	
23 33 13 19-0081	EA		40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	967.24	55.93
			<i>For 3 Hour Rated, Add</i>	242.87	
23 33 13 19-0082	EA		40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	982.54	59.50
			<i>For 3 Hour Rated, Add</i>	244.31	
23 33 13 19-0083	EA		40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	997.85	63.07
			<i>For 3 Hour Rated, Add</i>	245.75	
23 33 13 19-0084	EA		40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,035.59	66.44
			<i>For 3 Hour Rated, Add</i>	250.76	
23 33 13 19-0085	EA		40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,062.85	70.01
			<i>For 3 Hour Rated, Add</i>	255.78	
23 33 13 19-0086	EA		40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,113.49	80.53
			<i>For 3 Hour Rated, Add</i>	261.52	
23 33 13 19-0087	EA		40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,153.61	87.45
			<i>For 3 Hour Rated, Add</i>	267.24	
23 33 13 19-0088	EA		40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,199.12	93.14
			<i>For 3 Hour Rated, Add</i>	275.85	
23 33 13 19-0089	EA		40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,266.35	97.97
			<i>For 3 Hour Rated, Add</i>	291.61	
23 33 13 19-0090	EA		40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,311.81	103.65
			<i>For 3 Hour Rated, Add</i>	300.20	
23 33 13 19-0091	EA		40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,372.80	106.38
			<i>For 3 Hour Rated, Add</i>	315.97	
23 33 13 19-0092	EA		40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,437.40	112.05
			<i>For 3 Hour Rated, Add</i>	330.31	
23 33 13 19-0093	EA		44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	957.71	52.56
			<i>For 3 Hour Rated, Add</i>	240.01	
23 33 13 19-0094	EA		44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	987.34	55.93
			<i>For 3 Hour Rated, Add</i>	245.75	
23 33 13 19-0095	EA		44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,012.20	59.50
			<i>For 3 Hour Rated, Add</i>	250.05	
23 33 13 19-0096	EA		44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,027.50	63.07
			<i>For 3 Hour Rated, Add</i>	251.49	
23 33 13 19-0097	EA		44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,057.13	66.44
			<i>For 3 Hour Rated, Add</i>	257.22	
23 33 13 19-0098	EA		44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,086.73	70.01
			<i>For 3 Hour Rated, Add</i>	262.95	
23 33 13 19-0099	EA		44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,152.68	84.10
			<i>For 3 Hour Rated, Add</i>	270.12	
23 33 13 19-0100	EA		44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,197.54	91.03
			<i>For 3 Hour Rated, Add</i>	277.27	
23 33 13 19-0101	EA		44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,266.35	97.97
			<i>For 3 Hour Rated, Add</i>	291.61	
23 33 13 19-0102	EA		44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,330.36	105.11
			<i>For 3 Hour Rated, Add</i>	304.50	
23 33 13 19-0103	EA		44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,399.15	112.05
			<i>For 3 Hour Rated, Add</i>	318.83	
23 33 13 19-0104	EA		44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,452.65	115.42
			<i>For 3 Hour Rated, Add</i>	331.73	
23 33 13 19-0105	EA		44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,506.18	118.99
			<i>For 3 Hour Rated, Add</i>	344.63	
23 33 13 19-0106	EA		44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,559.71	122.56
			<i>For 3 Hour Rated, Add</i>	357.54	
23 33 13 19-0107	EA		48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	982.54	55.93
			<i>For 3 Hour Rated, Add</i>	244.31	
23 33 13 19-0108	EA		48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,012.20	59.50
			<i>For 3 Hour Rated, Add</i>	250.05	
23 33 13 19-0109	EA		48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,027.50	63.07
			<i>For 3 Hour Rated, Add</i>	251.49	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
Air Duct Accessories	23 33

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0110 EA 48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,062.85 255.78	70.01
23 33 13 19-0111 EA 48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,102.98 261.52	76.94
23 33 13 19-0112 EA 48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,143.10 267.24	84.10
23 33 13 19-0113 EA 48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,192.81 275.85	91.03
23 33 13 19-0114 EA 48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,242.48 284.45	97.97
23 33 13 19-0115 EA 48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,306.49 297.34	105.11
23 33 13 19-0116 EA 48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,380.03 313.10	112.05
23 33 13 19-0117 EA 48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,433.59 326.01	115.42
23 33 13 19-0118 EA 48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,501.38 343.19	118.99
23 33 13 19-0119 EA 48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,565.43 356.10	125.93
23 33 13 19-0120 EA 48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,633.28 373.30	129.50
23 33 13 19-0121 EA 48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,703.02 384.76	140.02
23 33 13 19-0122 EA 52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,007.40 248.61	59.50
23 33 13 19-0123 EA 52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,037.03 254.35	63.07
23 33 13 19-0124 EA 52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,077.17 260.08	70.01
23 33 13 19-0125 EA 52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,102.98 261.52	76.94
23 33 13 19-0126 EA 52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,145.52 267.97	84.10
23 33 13 19-0127 EA 52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,188.01 274.41	91.03
23 33 13 19-0128 EA 52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,237.71 283.01	97.97
23 33 13 19-0129 EA 52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,287.37 291.61	105.11
23 33 13 19-0130 EA 52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,351.39 304.50	112.05
23 33 13 19-0131 EA 52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,429.75 321.71	118.99
23 33 13 19-0132 EA 52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,487.99 336.02	122.56
23 33 13 19-0133 EA 52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,560.67 354.67	125.93
23 33 13 19-0134 EA 52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,638.97 371.86	133.08
23 33 13 19-0135 EA 52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,703.02 384.76	140.02
23 33 13 19-0136 EA 52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,791.85 401.96	150.53
23 33 13 19-0137 EA 52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,860.66 416.29	157.47
23 33 13 19-0138 EA 56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,027.50 251.49	63.07
23 33 13 19-0139 EA 56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,072.38 258.64	70.01
23 33 13 19-0140 EA 56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,107.75 262.95	76.94
23 33 13 19-0141 EA 56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,133.54 264.38	84.10
23 33 13 19-0142 EA 56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,180.85 272.27	91.03
23 33 13 19-0143 EA 56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,228.16 280.15	97.97
23 33 13 19-0144 EA 56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,275.42 288.02	105.11
23 33 13 19-0145 EA 56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,322.72 295.90	112.05
23 33 13 19-0146 EA 56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,401.05 313.10	118.99
23 33 13 19-0147 EA 56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,468.93 330.31	122.56
23 33 13 19-0148 EA 56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,531.97 346.06	125.93
23 33 13 19-0149 EA 56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,619.89 366.13	133.08
23 33 13 19-0150 EA 56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,698.23 383.33	140.02
23 33 13 19-0151 EA 56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,781.35 401.96	146.95

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0152	EA		56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,850.14 416.29	154.10
23 33 13 19-0153	EA		56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,933.28 434.92	161.04
23 33 13 19-0154	EA		56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,016.40 453.55	167.98
23 33 13 19-0155	EA		60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,062.85 255.78	70.01
23 33 13 19-0156	EA		60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,107.75 262.95	76.94
23 33 13 19-0157	EA		60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,138.33 265.81	84.10
23 33 13 19-0158	EA		60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,164.11 267.24	91.03
23 33 13 19-0159	EA		60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,213.84 275.85	97.97
23 33 13 19-0160	EA		60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,263.50 284.45	105.11
23 33 13 19-0161	EA		60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,315.56 293.75	112.05
23 33 13 19-0162	EA		60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,367.65 303.08	118.99
23 33 13 19-0163	EA		60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,440.26 321.71	122.56
23 33 13 19-0164	EA		60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,508.09 338.90	125.93
23 33 13 19-0165	EA		60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,591.25 357.54	133.08
23 33 13 19-0166	EA		60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,674.38 376.17	140.02
23 33 13 19-0167	EA		60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,743.15 390.50	146.95
23 33 13 19-0168	EA		60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,840.59 413.42	154.10
23 33 13 19-0169	EA		60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,928.51 433.49	161.04
23 33 13 19-0170	EA		60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,016.40 453.55	167.98
23 33 13 19-0171	EA		60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,094.71 470.74	175.13
23 33 13 19-0172	EA		60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,173.13 487.96	182.07
23 33 13 19-0173 Smoke Damper <small>(23 33 13 19)</small>					
Note: Leakage class I with Firestat UL 555S air foil blades.					
23 33 13 19-0174	EA		6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	119.52 39.34 21.86	15.56
23 33 13 19-0175	EA		8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	123.45 40.32 22.40	16.26
23 33 13 19-0176	EA		8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	125.59 41.33 22.96	16.40
23 33 13 19-0177	EA		10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	125.59 41.33 22.96	16.40
23 33 13 19-0178	EA		10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	128.83 42.32 23.51	16.82
23 33 13 19-0179	EA		10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	138.12 44.31 24.62	18.65
23 33 13 19-0180	EA		12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	128.83 42.32 23.51	16.82
23 33 13 19-0181	EA		12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	135.31 44.31 24.62	17.80
23 33 13 19-0182	EA		12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	139.97 45.31 25.17	18.65
23 33 13 19-0183	EA		12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	148.81 46.30 25.72	21.02
23 33 13 19-0184	EA		14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	134.40 43.82 24.34	17.80
23 33 13 19-0185	EA		14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	139.97 45.31 25.17	18.65
23 33 13 19-0186	EA		14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	144.60 46.30 25.72	19.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0187 EA 14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	150.67 47.30 26.28	21.02
23 33 13 19-0188 EA 14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	162.28 49.79 27.66	23.40
23 33 13 19-0189 EA 16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	207.14 81.58 45.32	18.65
23 33 13 19-0190 EA 16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	213.18 82.57 45.87	20.04
23 33 13 19-0191 EA 16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	220.63 83.57 46.43	22.00
23 33 13 19-0192 EA 16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	226.67 84.56 46.98	23.40
23 33 13 19-0193 EA 16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	238.31 87.06 48.37	25.64
23 33 13 19-0194 EA 16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	249.93 89.55 49.75	28.03
23 33 13 19-0195 EA 18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	211.77 82.57 45.87	19.62
23 33 13 19-0196 EA 18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.75 84.07 46.70	21.02
23 33 13 19-0197 EA 18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	228.54 85.57 47.54	23.40
23 33 13 19-0198 EA 18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	240.15 88.05 48.92	25.64
23 33 13 19-0199 EA 18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	250.84 90.04 50.02	28.03
23 33 13 19-0200 EA 18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	262.46 92.52 51.41	30.27
23 33 13 19-0201 EA 18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	272.24 94.03 52.24	32.65
23 33 13 19-0202 EA 20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	217.83 83.57 46.43	21.02
23 33 13 19-0203 EA 20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	228.52 85.56 47.53	23.40
23 33 13 19-0204 EA 20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	239.23 87.56 48.64	25.64
23 33 13 19-0205 EA 20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	253.62 91.54 50.86	28.03
23 33 13 19-0206 EA 20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	263.39 93.04 51.69	30.27
23 33 13 19-0207 EA 20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	273.17 94.53 52.52	32.65
23 33 13 19-0208 EA 20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	283.85 96.52 53.62	35.04
23 33 13 19-0209 EA 20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	294.54 98.51 54.73	37.28
23 33 13 19-0210 EA 24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	284.09 115.57 64.20	23.40
23 33 13 19-0211 EA 24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	296.65 118.56 65.87	25.64
23 33 13 19-0212 EA 24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	307.36 120.56 66.98	28.03
23 33 13 19-0213 EA 24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	319.89 123.55 68.64	30.27
23 33 13 19-0214 EA 24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	329.67 125.04 69.47	32.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0215	EA		24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.42 126.53 70.29	35.04
23 33 13 19-0216	EA		24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	351.97 129.52 71.96	37.28
23 33 13 19-0217	EA		24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	371.52 132.51 73.61	42.05
23 33 13 19-0218	EA		24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	392.92 136.50 75.83	46.67
23 33 13 19-0219	EA		28" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	296.65 118.56 65.87	25.64
23 33 13 19-0220	EA		28" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	307.36 120.56 66.98	28.03
23 33 13 19-0221	EA		28" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	319.89 123.55 68.64	30.27
23 33 13 19-0222	EA		28" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	330.58 125.53 69.74	32.65
23 33 13 19-0223	EA		28" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	342.19 128.02 71.12	35.04
23 33 13 19-0224	EA		28" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	353.81 130.51 72.51	37.28
23 33 13 19-0225	EA		28" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	373.36 133.50 74.17	42.05
23 33 13 19-0226	EA		28" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	392.92 136.50 75.83	46.67
23 33 13 19-0227	EA		28" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	410.98 142.46 79.15	49.06
23 33 13 19-0228	EA		28" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	434.23 147.45 81.92	53.68
23 33 13 19-0229	EA		32" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	312.89 123.55 68.64	28.03
23 33 13 19-0230	EA		32" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	321.72 124.53 69.19	30.27
23 33 13 19-0231	EA		32" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	330.58 125.53 69.74	32.65
23 33 13 19-0232	EA		32" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	341.26 127.52 70.85	35.04
23 33 13 19-0233	EA		32" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	354.16 130.70 72.61	37.28
23 33 13 19-0234	EA		32" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	373.36 133.50 74.17	42.05
23 33 13 19-0235	EA		32" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	394.76 137.49 76.38	46.67
23 33 13 19-0236	EA		32" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	416.17 141.48 78.60	51.30
23 33 13 19-0237	EA		32" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	434.23 147.45 81.92	53.68
23 33 13 19-0238	EA		32" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	458.37 154.43 85.79	57.46
23 33 13 19-0239	EA		32" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	482.92 162.39 90.22	60.69
23 33 13 19-0240	EA		36" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	328.58 128.24 71.24	30.27
23 33 13 19-0241	EA		36" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.45 130.32 72.40	32.65
23 33 13 19-0242	EA		36" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	350.30 132.40 73.56	35.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0243 EA 36" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	363.12 135.54 75.30	37.28
23 33 13 19-0244 EA 36" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	380.05 137.11 76.17	42.05
23 33 13 19-0245 EA 36" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	389.96 138.68 77.04	44.29
23 33 13 19-0246 EA 36" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	420.64 143.89 79.94	51.30
23 33 13 19-0247 EA 36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	444.31 149.10 82.84	56.07
23 33 13 19-0248 EA 36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	461.51 155.37 86.32	57.89
23 33 13 19-0249 EA 36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	489.58 163.71 90.95	62.09
23 33 13 19-0250 EA 36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	512.92 171.02 95.01	65.31
23 33 13 19-0251 EA 36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	535.39 179.37 99.65	67.69
23 33 13 19-0252 EA 40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	377.81 151.04 83.91	35.04
23 33 13 19-0253 EA 40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	392.54 155.21 86.23	37.28
23 33 13 19-0254 EA 40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	401.48 156.25 86.81	39.66
23 33 13 19-0255 EA 40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	410.42 157.30 87.39	42.05
23 33 13 19-0256 EA 40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	431.21 160.95 89.42	44.29
23 33 13 19-0257 EA 40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	444.99 164.61 91.45	46.67
23 33 13 19-0258 EA 40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	473.74 168.78 93.77	53.68
23 33 13 19-0259 EA 40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	495.50 172.96 96.09	58.31
23 33 13 19-0260 EA 40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	518.30 179.22 99.57	62.09
23 33 13 19-0261 EA 40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	549.36 190.70 105.94	65.31
23 33 13 19-0262 EA 40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	572.15 196.95 109.42	69.10
23 33 13 19-0263 EA 40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	599.01 208.43 115.79	70.92
23 33 13 19-0264 EA 40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	629.56 218.87 121.59	74.70
23 33 13 19-0265 EA 44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	388.68 153.13 85.07	35.04
23 33 13 19-0266 EA 44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	403.41 157.30 87.39	37.28
23 33 13 19-0267 EA 44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	416.24 160.44 89.13	39.66
23 33 13 19-0268 EA 44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	425.19 161.49 89.72	42.05
23 33 13 19-0269 EA 44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	439.92 165.66 92.03	44.29
23 33 13 19-0270 EA 44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	454.64 169.82 94.35	46.67

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0271 EA 44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	492.36 175.05 97.25	56.07
23 33 13 19-0272 EA 44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	516.01 180.26 100.14	60.69
23 33 13 19-0273 EA 44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	549.36 190.70 105.94	65.31
23 33 13 19-0274 EA 44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	580.78 200.09 111.16	70.08
23 33 13 19-0275 EA 44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	614.09 210.51 116.95	74.70
23 33 13 19-0276 EA 44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	638.49 219.90 122.17	76.94
23 33 13 19-0277 EA 44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	662.90 229.30 127.39	79.33
23 33 13 19-0278 EA 44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	687.31 238.70 132.61	81.71
23 33 13 19-0279 EA 48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	401.48 156.25 86.81	37.28
23 33 13 19-0280 EA 48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	416.24 160.44 89.13	39.66
23 33 13 19-0281 EA 48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	425.19 161.49 89.72	42.05
23 33 13 19-0282 EA 48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	444.99 164.61 91.45	46.67
23 33 13 19-0283 EA 48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	466.73 168.78 93.77	51.30
23 33 13 19-0284 EA 48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	488.49 172.96 96.09	56.07
23 33 13 19-0285 EA 48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	514.09 179.22 99.57	60.69
23 33 13 19-0286 EA 48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	539.69 185.47 103.04	65.31
23 33 13 19-0287 EA 48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	571.10 194.86 108.26	70.08
23 33 13 19-0288 EA 48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	606.37 206.34 114.64	74.70
23 33 13 19-0289 EA 48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	630.78 215.74 119.86	76.94
23 33 13 19-0290 EA 48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	660.97 228.26 126.81	79.33
23 33 13 19-0291 EA 48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	692.38 237.65 132.03	83.95
23 33 13 19-0292 EA 48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	722.58 250.17 138.98	86.34
23 33 13 19-0293 EA 48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	759.05 258.52 143.62	93.35
23 33 13 19-0294 EA 52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	414.31 159.40 88.55	39.66
23 33 13 19-0295 EA 52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	429.04 163.57 90.87	42.05
23 33 13 19-0296 EA 52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	450.77 167.73 93.19	46.67
23 33 13 19-0297 EA 52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	466.73 168.78 93.77	51.30
23 33 13 19-0298 EA 52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	489.45 173.48 96.38	56.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0299 EA 52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	512.15 178.17 98.99	60.69
23 33 13 19-0300 EA 52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	537.77 184.44 102.47	65.31
23 33 13 19-0301 EA 52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	563.38 190.70 105.94	70.08
23 33 13 19-0302 EA 52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	594.79 200.09 111.16	74.70
23 33 13 19-0303 EA 52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	631.98 212.60 118.11	79.33
23 33 13 19-0304 EA 52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	658.30 223.03 123.91	81.71
23 33 13 19-0305 EA 52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	690.45 236.61 131.45	83.95
23 33 13 19-0306 EA 52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	727.63 249.12 138.40	88.72
23 33 13 19-0307 EA 52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	759.05 258.52 143.62	93.35
23 33 13 19-0308 EA 52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	803.25 271.04 150.58	100.36
23 33 13 19-0309 EA 52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	836.60 281.48 156.38	104.97
23 33 13 19-0310 EA 56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	425.19 161.49 89.72	42.05
23 33 13 19-0311 EA 56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	448.84 166.69 92.61	46.67
23 33 13 19-0312 EA 56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	468.66 169.82 94.35	51.30
23 33 13 19-0313 EA 56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	484.60 170.86 94.92	56.07
23 33 13 19-0314 EA 56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	509.25 176.61 98.12	60.69
23 33 13 19-0315 EA 56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	533.90 182.35 101.30	65.31
23 33 13 19-0316 EA 56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	558.54 188.08 104.49	70.08
23 33 13 19-0317 EA 56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	583.18 193.82 107.68	74.70
23 33 13 19-0318 EA 56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	620.39 206.34 114.64	79.33
23 33 13 19-0319 EA 56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	650.59 218.87 121.59	81.71
23 33 13 19-0320 EA 56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	678.85 230.34 127.97	83.95
23 33 13 19-0321 EA 56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	719.92 244.95 136.09	88.72
23 33 13 19-0322 EA 56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	757.11 257.47 143.04	93.35
23 33 13 19-0323 EA 56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	796.25 271.04 150.58	97.97
23 33 13 19-0324 EA 56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	829.59 281.48 156.38	102.73
23 33 13 19-0325 EA 56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	868.73 295.04 163.91	107.36
23 33 13 19-0326 EA 56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	907.87 308.60 171.45	111.98

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13	19-0327	EA	60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	444.99 164.61 91.45	46.67
23 33 13	19-0328	EA	60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	468.66 169.82 94.35	51.30
23 33 13	19-0329	EA	60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	486.54 171.91 95.51	56.07
23 33 13	19-0330	EA	60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	502.50 172.96 96.09	60.69
23 33 13	19-0331	EA	60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	528.11 179.22 99.57	65.31
23 33 13	19-0332	EA	60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	553.71 185.47 103.04	70.08
23 33 13	19-0333	EA	60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	580.28 192.26 106.81	74.70
23 33 13	19-0334	EA	60" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	606.86 199.04 110.58	79.33
23 33 13	19-0335	EA	60" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	638.99 212.60 118.11	81.71
23 33 13	19-0336	EA	60" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	669.18 225.12 125.07	83.95
23 33 13	19-0337	EA	60" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	708.33 238.70 132.61	88.72
23 33 13	19-0338	EA	60" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	747.46 252.26 140.15	93.35
23 33 13	19-0339	EA	60" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	780.79 262.69 145.94	97.97
23 33 13	19-0340	EA	60" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	825.71 279.38 155.21	102.73
23 33 13	19-0341	EA	60" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	866.79 293.99 163.33	107.36
23 33 13	19-0342	EA	60" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	907.87 308.60 171.45	111.98
23 33 13	19-0343	EA	60" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	945.04 321.11 178.40	116.75
23 33 13	19-0344	EA	60" x 60" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	982.27 333.64 185.36	121.38

23 33 13 23 Backdraft Dampers (23 33 13)**23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)**

Note: Galvanized steel frame, aluminum blades. Exclude motor pack.

23 33 13 23-0002	EA	6" x 6" Horizontally Mounted Backdraft Damper	84.92	15.56
23 33 13 23-0003	EA	8" x 6" Horizontally Mounted Backdraft Damper	99.77	16.26
23 33 13 23-0004	EA	8" x 8" Horizontally Mounted Backdraft Damper	117.05	16.40
23 33 13 23-0005	EA	10" x 6" Horizontally Mounted Backdraft Damper	112.81	16.40
23 33 13 23-0006	EA	10" x 8" Horizontally Mounted Backdraft Damper	109.15	16.82
23 33 13 23-0007	EA	10" x 10" Horizontally Mounted Backdraft Damper	129.43	18.65
23 33 13 23-0008	EA	12" x 6" Horizontally Mounted Backdraft Damper	103.28	16.82
23 33 13 23-0009	EA	12" x 8" Horizontally Mounted Backdraft Damper	126.49	18.65
23 33 13 23-0010	EA	12" x 10" Horizontally Mounted Backdraft Damper	122.97	19.62
23 33 13 23-0011	EA	12" x 12" Horizontally Mounted Backdraft Damper	140.01	21.02
23 33 13 23-0012	EA	14" x 6" Horizontally Mounted Backdraft Damper	114.88	17.80
23 33 13 23-0013	EA	14" x 8" Horizontally Mounted Backdraft Damper	118.69	19.62
23 33 13 23-0014	EA	14" x 10" Horizontally Mounted Backdraft Damper	137.88	21.02
23 33 13 23-0015	EA	14" x 12" Horizontally Mounted Backdraft Damper	127.62	23.40
23 33 13 23-0016	EA	14" x 14" Horizontally Mounted Backdraft Damper	144.22	25.64
23 33 13 23-0017	EA	16" x 6" Horizontally Mounted Backdraft Damper	126.49	18.65
23 33 13 23-0018	EA	16" x 8" Horizontally Mounted Backdraft Damper	131.45	21.02
23 33 13 23-0019	EA	16" x 10" Horizontally Mounted Backdraft Damper	124.88	23.40
23 33 13 23-0020	EA	16" x 12" Horizontally Mounted Backdraft Damper	135.83	23.40
23 33 13 23-0021	EA	16" x 14" Horizontally Mounted Backdraft Damper	153.81	25.64
23 33 13 23-0022	EA	16" x 16" Horizontally Mounted Backdraft Damper	171.77	28.03
23 33 13 23-0023	EA	18" x 6" Horizontally Mounted Backdraft Damper	116.56	19.62
23 33 13 23-0024	EA	18" x 8" Horizontally Mounted Backdraft Damper	112.38	21.02
23 33 13 23-0025	EA	18" x 10" Horizontally Mounted Backdraft Damper	131.72	23.40



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0026	EA			18" x 12" Horizontally Mounted Backdraft Damper	151.06	25.64
23 33 13 23-0027	EA			18" x 14" Horizontally Mounted Backdraft Damper	170.39	28.03
23 33 13 23-0028	EA			18" x 16" Horizontally Mounted Backdraft Damper	192.89	30.27
23 33 13 23-0029	EA			18" x 18" Horizontally Mounted Backdraft Damper	219.62	35.04
23 33 13 23-0030	EA			18" x 20" Horizontally Mounted Backdraft Damper	189.29	37.28
23 33 13 23-0031	EA			18" x 24" Horizontally Mounted Backdraft Damper	218.73	42.05
23 33 13 23-0032	EA			20" x 6" Horizontally Mounted Backdraft Damper	127.18	21.02
23 33 13 23-0033	EA			20" x 8" Horizontally Mounted Backdraft Damper	124.88	23.40
23 33 13 23-0034	EA			20" x 10" Horizontally Mounted Backdraft Damper	145.58	25.64
23 33 13 23-0035	EA			20" x 12" Horizontally Mounted Backdraft Damper	166.30	28.03
23 33 13 23-0036	EA			20" x 14" Horizontally Mounted Backdraft Damper	190.06	30.27
23 33 13 23-0037	EA			20" x 16" Horizontally Mounted Backdraft Damper	211.21	32.65
23 33 13 23-0038	EA			20" x 18" Horizontally Mounted Backdraft Damper	189.29	37.28
23 33 13 23-0039	EA			20" x 20" Horizontally Mounted Backdraft Damper	197.86	37.28
23 33 13 23-0040	EA			20" x 24" Horizontally Mounted Backdraft Damper	229.02	42.05
23 33 13 23-0041	EA			20" x 28" Horizontally Mounted Backdraft Damper	260.17	46.67
23 33 13 23-0042	EA			20" x 32" Horizontally Mounted Backdraft Damper	252.15	51.30
23 33 13 23-0043	EA			20" x 36" Horizontally Mounted Backdraft Damper	278.40	56.07
23 33 13 23-0044	EA			24" x 6" Horizontally Mounted Backdraft Damper	119.39	23.40
23 33 13 23-0045	EA			24" x 8" Horizontally Mounted Backdraft Damper	142.84	25.64
23 33 13 23-0046	EA			24" x 10" Horizontally Mounted Backdraft Damper	166.30	28.03
23 33 13 23-0047	EA			24" x 12" Horizontally Mounted Backdraft Damper	192.89	30.27
23 33 13 23-0048	EA			24" x 14" Horizontally Mounted Backdraft Damper	177.13	35.04
23 33 13 23-0049	EA			24" x 16" Horizontally Mounted Backdraft Damper	194.42	37.28
23 33 13 23-0050	EA			24" x 18" Horizontally Mounted Backdraft Damper	218.73	42.05
23 33 13 23-0051	EA			24" x 20" Horizontally Mounted Backdraft Damper	229.02	42.05
23 33 13 23-0052	EA			24" x 24" Horizontally Mounted Backdraft Damper	263.60	46.67
23 33 13 23-0053	EA			24" x 28" Horizontally Mounted Backdraft Damper	257.03	51.30
23 33 13 23-0054	EA			24" x 32" Horizontally Mounted Backdraft Damper	285.76	56.07
23 33 13 23-0055	EA			24" x 36" Horizontally Mounted Backdraft Damper	314.46	60.69
23 33 13 23-0056	EA			24" x 40" Horizontally Mounted Backdraft Damper	313.79	65.31
23 33 13 23-0057	EA			24" x 44" Horizontally Mounted Backdraft Damper	339.56	70.08
23 33 13 23-0058	EA			24" x 48" Horizontally Mounted Backdraft Damper	351.32	70.08
23 33 13 23-0059	EA			28" x 6" Horizontally Mounted Backdraft Damper	127.62	23.40
23 33 13 23-0060	EA			28" x 8" Horizontally Mounted Backdraft Damper	153.81	25.64
23 33 13 23-0061	EA			28" x 10" Horizontally Mounted Backdraft Damper	190.06	30.27
23 33 13 23-0062	EA			28" x 12" Horizontally Mounted Backdraft Damper	177.13	35.04
23 33 13 23-0063	EA			28" x 14" Horizontally Mounted Backdraft Damper	196.14	37.28
23 33 13 23-0064	EA			28" x 16" Horizontally Mounted Backdraft Damper	222.17	42.05
23 33 13 23-0065	EA			28" x 18" Horizontally Mounted Backdraft Damper	248.18	46.67
23 33 13 23-0066	EA			28" x 20" Horizontally Mounted Backdraft Damper	260.17	46.67
23 33 13 23-0067	EA			28" x 24" Horizontally Mounted Backdraft Damper	257.03	51.30
23 33 13 23-0068	EA			28" x 28" Horizontally Mounted Backdraft Damper	288.21	56.07
23 33 13 23-0069	EA			28" x 32" Horizontally Mounted Backdraft Damper	319.36	60.69
23 33 13 23-0070	EA			28" x 36" Horizontally Mounted Backdraft Damper	333.68	70.08
23 33 13 23-0071	EA			28" x 40" Horizontally Mounted Backdraft Damper	347.40	70.08
23 33 13 23-0072	EA			28" x 44" Horizontally Mounted Backdraft Damper	375.12	74.70
23 33 13 23-0073	EA			28" x 48" Horizontally Mounted Backdraft Damper	402.86	79.33
23 33 13 23-0074	EA			28" x 52" Horizontally Mounted Backdraft Damper	416.58	79.33
23 33 13 23-0075	EA			28" x 56" Horizontally Mounted Backdraft Damper	420.31	83.95
23 33 13 23-0076	EA			28" x 60" Horizontally Mounted Backdraft Damper	432.30	83.95
23 33 13 23-0077	EA			32" x 6" Horizontally Mounted Backdraft Damper	142.84	25.64
23 33 13 23-0078	EA			32" x 8" Horizontally Mounted Backdraft Damper	181.58	30.27
23 33 13 23-0079	EA			32" x 10" Horizontally Mounted Backdraft Damper	211.21	32.65
23 33 13 23-0080	EA			32" x 12" Horizontally Mounted Backdraft Damper	194.42	37.28
23 33 13 23-0081	EA			32" x 14" Horizontally Mounted Backdraft Damper	222.17	42.05
23 33 13 23-0082	EA			32" x 16" Horizontally Mounted Backdraft Damper	249.88	46.67
23 33 13 23-0083	EA			32" x 18" Horizontally Mounted Backdraft Damper	228.32	46.67
23 33 13 23-0084	EA			32" x 20" Horizontally Mounted Backdraft Damper	252.15	51.30
23 33 13 23-0085	EA			32" x 24" Horizontally Mounted Backdraft Damper	285.76	56.07
23 33 13 23-0086	EA			32" x 28" Horizontally Mounted Backdraft Damper	319.36	60.69
23 33 13 23-0087	EA			32" x 32" Horizontally Mounted Backdraft Damper	335.64	70.08
23 33 13 23-0088	EA			32" x 36" Horizontally Mounted Backdraft Damper	351.32	70.08
23 33 13 23-0089	EA			32" x 40" Horizontally Mounted Backdraft Damper	381.00	74.70
23 33 13 23-0090	EA			32" x 44" Horizontally Mounted Backdraft Damper	410.70	79.33
23 33 13 23-0091	EA			32" x 48" Horizontally Mounted Backdraft Damper	416.88	83.95
23 33 13 23-0092	EA			32" x 52" Horizontally Mounted Backdraft Damper	430.60	83.95
23 33 13 23-0093	EA			32" x 56" Horizontally Mounted Backdraft Damper	458.32	88.72
23 33 13 23-0094	EA			32" x 60" Horizontally Mounted Backdraft Damper	472.04	88.72
23 33 13 23-0095	EA			32" x 64" Horizontally Mounted Backdraft Damper	468.41	93.35
23 33 13 23-0096	EA			32" x 68" Horizontally Mounted Backdraft Damper	480.16	93.35
23 33 13 23-0097	EA			32" x 72" Horizontally Mounted Backdraft Damper	505.94	97.97
23 33 13 23-0098	EA			36" x 6" Horizontally Mounted Backdraft Damper	151.06	25.64
23 33 13 23-0099	EA			36" x 8" Horizontally Mounted Backdraft Damper	199.90	32.65
23 33 13 23-0100	EA			36" x 10" Horizontally Mounted Backdraft Damper	189.29	37.28
23 33 13 23-0101	EA			36" x 12" Horizontally Mounted Backdraft Damper	218.73	42.05
23 33 13 23-0102	EA			36" x 14" Horizontally Mounted Backdraft Damper	248.18	46.67
23 33 13 23-0103	EA			36" x 16" Horizontally Mounted Backdraft Damper	228.32	46.67
23 33 13 23-0104	EA			36" x 18" Horizontally Mounted Backdraft Damper	253.36	51.30
23 33 13 23-0105	EA			36" x 20" Horizontally Mounted Backdraft Damper	278.40	56.07
23 33 13 23-0106	EA			36" x 24" Horizontally Mounted Backdraft Damper	314.46	60.69

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33	13 23-0107	EA	36" x 28" Horizontally Mounted Backdraft Damper	333.68	70.08
23 33	13 23-0108	EA	36" x 32" Horizontally Mounted Backdraft Damper	351.32	70.08
23 33	13 23-0109	EA	36" x 36" Horizontally Mounted Backdraft Damper	382.95	74.70
23 33	13 23-0110	EA	36" x 40" Horizontally Mounted Backdraft Damper	414.61	79.33
23 33	13 23-0111	EA	36" x 44" Horizontally Mounted Backdraft Damper	422.01	83.95
23 33	13 23-0112	EA	36" x 48" Horizontally Mounted Backdraft Damper	451.46	88.72
23 33	13 23-0113	EA	36" x 52" Horizontally Mounted Backdraft Damper	466.89	88.72
23 33	13 23-0114	EA	36" x 56" Horizontally Mounted Backdraft Damper	465.47	93.35
23 33	13 23-0115	EA	36" x 60" Horizontally Mounted Backdraft Damper	478.70	93.35
23 33	13 23-0116	EA	36" x 64" Horizontally Mounted Backdraft Damper	505.94	97.97
23 33	13 23-0117	EA	36" x 68" Horizontally Mounted Backdraft Damper	519.16	97.97
23 33	13 23-0118	EA	36" x 72" Horizontally Mounted Backdraft Damper	532.40	97.97
23 33	13 23-0119	EA	40" x 6" Horizontally Mounted Backdraft Damper	166.30	28.03
23 33	13 23-0120	EA	40" x 8" Horizontally Mounted Backdraft Damper	218.21	35.04
23 33	13 23-0121	EA	40" x 10" Horizontally Mounted Backdraft Damper	197.86	37.28
23 33	13 23-0122	EA	40" x 12" Horizontally Mounted Backdraft Damper	229.02	42.05
23 33	13 23-0123	EA	40" x 14" Horizontally Mounted Backdraft Damper	260.17	46.67
23 33	13 23-0124	EA	40" x 16" Horizontally Mounted Backdraft Damper	252.15	51.30
23 33	13 23-0125	EA	40" x 18" Horizontally Mounted Backdraft Damper	278.40	56.07
23 33	13 23-0126	EA	40" x 20" Horizontally Mounted Backdraft Damper	304.65	60.69
23 33	13 23-0127	EA	40" x 24" Horizontally Mounted Backdraft Damper	313.79	65.31
23 33	13 23-0128	EA	40" x 28" Horizontally Mounted Backdraft Damper	347.40	70.08
23 33	13 23-0129	EA	40" x 32" Horizontally Mounted Backdraft Damper	381.00	74.70
23 33	13 23-0130	EA	40" x 36" Horizontally Mounted Backdraft Damper	414.61	79.33
23 33	13 23-0131	EA	40" x 40" Horizontally Mounted Backdraft Damper	423.73	83.95
23 33	13 23-0132	EA	40" x 44" Horizontally Mounted Backdraft Damper	454.88	88.72
23 33	13 23-0133	EA	40" x 48" Horizontally Mounted Backdraft Damper	472.04	88.72
23 33	13 23-0134	EA	40" x 50" Horizontally Mounted Backdraft Damper	464.01	93.35
23 33	13 23-0135	EA	44" x 6" Horizontally Mounted Backdraft Damper	184.41	30.27
23 33	13 23-0136	EA	44" x 8" Horizontally Mounted Backdraft Damper	187.57	37.28
23 33	13 23-0137	EA	44" x 10" Horizontally Mounted Backdraft Damper	220.45	42.05
23 33	13 23-0138	EA	44" x 12" Horizontally Mounted Backdraft Damper	253.32	46.67
23 33	13 23-0139	EA	44" x 14" Horizontally Mounted Backdraft Damper	248.46	51.30
23 33	13 23-0140	EA	44" x 16" Horizontally Mounted Backdraft Damper	275.95	56.07
23 33	13 23-0141	EA	44" x 18" Horizontally Mounted Backdraft Damper	289.43	56.07
23 33	13 23-0142	EA	44" x 20" Horizontally Mounted Backdraft Damper	316.91	60.69
23 33	13 23-0143	EA	44" x 24" Horizontally Mounted Backdraft Damper	339.56	70.08
23 33	13 23-0144	EA	44" x 28" Horizontally Mounted Backdraft Damper	375.12	74.70
23 33	13 23-0145	EA	44" x 32" Horizontally Mounted Backdraft Damper	410.70	79.33
23 33	13 23-0146	EA	44" x 36" Horizontally Mounted Backdraft Damper	422.01	83.95
23 33	13 23-0147	EA	44" x 40" Horizontally Mounted Backdraft Damper	454.88	88.72
23 33	13 23-0148	EA	44" x 44" Horizontally Mounted Backdraft Damper	473.74	88.72
23 33	13 23-0149	EA	44" x 48" Horizontally Mounted Backdraft Damper	474.30	93.35
23 33	13 23-0150	EA	44" x 50" Horizontally Mounted Backdraft Damper	482.36	93.35
23 33	13 23-0151	EA	48" x 6" Horizontally Mounted Backdraft Damper	199.90	32.65
23 33	13 23-0152	EA	48" x 8" Horizontally Mounted Backdraft Damper	194.42	37.28
23 33	13 23-0153	EA	48" x 10" Horizontally Mounted Backdraft Damper	229.02	42.05
23 33	13 23-0154	EA	48" x 12" Horizontally Mounted Backdraft Damper	228.32	46.67
23 33	13 23-0155	EA	48" x 14" Horizontally Mounted Backdraft Damper	257.03	51.30
23 33	13 23-0156	EA	48" x 16" Horizontally Mounted Backdraft Damper	285.76	56.07
23 33	13 23-0157	EA	48" x 18" Horizontally Mounted Backdraft Damper	314.46	60.69
23 33	13 23-0158	EA	48" x 20" Horizontally Mounted Backdraft Damper	313.79	65.31
23 33	13 23-0159	EA	48" x 24" Horizontally Mounted Backdraft Damper	351.32	70.08
23 33	13 23-0160	EA	48" x 28" Horizontally Mounted Backdraft Damper	402.86	79.33
23 33	13 23-0161	EA	48" x 32" Horizontally Mounted Backdraft Damper	416.88	83.95
23 33	13 23-0162	EA	48" x 36" Horizontally Mounted Backdraft Damper	451.46	88.72
23 33	13 23-0163	EA	48" x 40" Horizontally Mounted Backdraft Damper	472.04	88.72
23 33	13 23-0164	EA	48" x 44" Horizontally Mounted Backdraft Damper	474.30	93.35
23 33	13 23-0165	EA	48" x 48" Horizontally Mounted Backdraft Damper	505.94	97.97
23 33	13 23-0166	EA	48" x 50" Horizontally Mounted Backdraft Damper	514.76	97.97
23 33	13 23-0167	EA	50" x 6" Horizontally Mounted Backdraft Damper	204.14	32.65
23 33	13 23-0168	EA	50" x 8" Horizontally Mounted Backdraft Damper	211.88	42.05
23 33	13 23-0169	EA	50" x 10" Horizontally Mounted Backdraft Damper	247.32	46.67
23 33	13 23-0170	EA	50" x 12" Horizontally Mounted Backdraft Damper	246.01	51.30
23 33	13 23-0171	EA	50" x 14" Horizontally Mounted Backdraft Damper	275.35	56.07
23 33	13 23-0172	EA	50" x 16" Horizontally Mounted Backdraft Damper	304.65	60.69
23 33	13 23-0173	EA	50" x 18" Horizontally Mounted Backdraft Damper	333.99	65.31
23 33	13 23-0174	EA	50" x 20" Horizontally Mounted Backdraft Damper	332.69	70.08
23 33	13 23-0175	EA	50" x 24" Horizontally Mounted Backdraft Damper	371.20	74.70
23 33	13 23-0176	EA	50" x 28" Horizontally Mounted Backdraft Damper	409.71	79.33
23 33	13 23-0177	EA	50" x 32" Horizontally Mounted Backdraft Damper	423.73	83.95
23 33	13 23-0178	EA	50" x 36" Horizontally Mounted Backdraft Damper	459.18	88.72
23 33	13 23-0179	EA	50" x 40" Horizontally Mounted Backdraft Damper	464.01	93.35
23 33	13 23-0180	EA	50" x 44" Horizontally Mounted Backdraft Damper	482.36	93.35
23 33	13 23-0181	EA	50" x 48" Horizontally Mounted Backdraft Damper	514.76	97.97
23 33	13 23-0182	EA	50" x 50" Horizontally Mounted Backdraft Damper	523.94	97.97

23 33 13 23-0183 Vertically Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Excludes motor pack.

23 33	13 23-0184	EA	6" x 6" Vertically Mounted Backdraft Damper	90.72	15.56
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0185 EA 8" x 6" Vertically Mounted Backdraft Damper	107.52	16.26
23 33 13 23-0186 EA 10" x 6" Vertically Mounted Backdraft Damper	110.25	16.40
23 33 13 23-0187 EA 8" x 8" Vertically Mounted Backdraft Damper	114.33	16.40
23 33 13 23-0188 EA 12" x 6" Vertically Mounted Backdraft Damper	123.89	16.82
23 33 13 23-0189 EA 10" x 8" Vertically Mounted Backdraft Damper	137.66	18.65
23 33 13 23-0190 EA 14" x 6" Vertically Mounted Backdraft Damper	136.13	16.82
23 33 13 23-0191 EA 12" x 8" Vertically Mounted Backdraft Damper	153.97	18.65
23 33 13 23-0192 EA 16" x 6" Vertically Mounted Backdraft Damper	156.76	19.62
23 33 13 23-0193 EA 10" x 10" Vertically Mounted Backdraft Damper	165.05	21.02
23 33 13 23-0194 EA 18" x 6" Vertically Mounted Backdraft Damper	133.77	17.80
23 33 13 23-0195 EA 14" x 8" Vertically Mounted Backdraft Damper	142.36	19.62
23 33 13 23-0196 EA 12" x 10" Vertically Mounted Backdraft Damper	152.53	21.02
23 33 13 23-0197 EA 20" x 6" Vertically Mounted Backdraft Damper	159.54	23.40
23 33 13 23-0198 EA 16" x 8" Vertically Mounted Backdraft Damper	172.51	25.64
23 33 13 23-0199 EA 14" x 10" Vertically Mounted Backdraft Damper	160.43	18.65
23 33 13 23-0200 EA 12" x 12" Vertically Mounted Backdraft Damper	170.42	21.02
23 33 13 23-0201 EA 18" x 8" Vertically Mounted Backdraft Damper	155.53	23.40
23 33 13 23-0202 EA 24" x 6" Vertically Mounted Backdraft Damper	155.53	23.40
23 33 13 23-0203 EA 16" x 10" Vertically Mounted Backdraft Damper	172.03	25.64
23 33 13 23-0204 EA 20" x 8" Vertically Mounted Backdraft Damper	179.04	28.03
23 33 13 23-0205 EA 14" x 12" Vertically Mounted Backdraft Damper	158.54	19.62
23 33 13 23-0206 EA 28" x 6" Vertically Mounted Backdraft Damper	162.75	21.02
23 33 13 23-0207 EA 18" x 10" Vertically Mounted Backdraft Damper	176.88	23.40
23 33 13 23-0208 EA 16" x 12" Vertically Mounted Backdraft Damper	191.01	25.64
23 33 13 23-0209 EA 24" x 8" Vertically Mounted Backdraft Damper	198.02	28.03
23 33 13 23-0210 EA 32" x 6" Vertically Mounted Backdraft Damper	205.02	30.27
23 33 13 23-0211 EA 14" x 14" Vertically Mounted Backdraft Damper	221.41	35.04
23 33 13 23-0212 EA 20" x 10" Vertically Mounted Backdraft Damper	222.55	37.28
23 33 13 23-0213 EA 18" x 12" Vertically Mounted Backdraft Damper	245.41	42.05
23 33 13 23-0214 EA 36" x 6" Vertically Mounted Backdraft Damper	182.34	21.02
23 33 13 23-0215 EA 16" x 14" Vertically Mounted Backdraft Damper	193.77	23.40
23 33 13 23-0216 EA 28" x 8" Vertically Mounted Backdraft Damper	200.78	25.64
23 33 13 23-0217 EA 20" x 12" Vertically Mounted Backdraft Damper	216.61	28.03
23 33 13 23-0218 EA 24" x 10" Vertically Mounted Backdraft Damper	223.61	30.27
23 33 13 23-0219 EA 40" x 6" Vertically Mounted Backdraft Damper	230.62	32.65
23 33 13 23-0220 EA 18" x 14" Vertically Mounted Backdraft Damper	251.27	37.28
23 33 13 23-0221 EA 16" x 16" Vertically Mounted Backdraft Damper	253.47	37.28
23 33 13 23-0222 EA 32" x 8" Vertically Mounted Backdraft Damper	267.49	42.05
23 33 13 23-0223 EA 44" x 6" Vertically Mounted Backdraft Damper	285.92	46.67
23 33 13 23-0224 EA 20" x 14" Vertically Mounted Backdraft Damper	308.77	51.30
23 33 13 23-0225 EA 28" x 10" Vertically Mounted Backdraft Damper	322.79	56.07
23 33 13 23-0226 EA 18" x 16" Vertically Mounted Backdraft Damper	229.10	23.40
23 33 13 23-0227 EA 24" x 12" Vertically Mounted Backdraft Damper	236.11	25.64
23 33 13 23-0228 EA 36" x 8" Vertically Mounted Backdraft Damper	243.12	28.03
23 33 13 23-0229 EA 48" x 6" Vertically Mounted Backdraft Damper	250.12	30.27
23 33 13 23-0230 EA 50" x 6" Vertically Mounted Backdraft Damper	270.75	35.04
23 33 13 23-0231 EA 20" x 16" Vertically Mounted Backdraft Damper	288.80	37.28
23 33 13 23-0232 EA 32" x 10" Vertically Mounted Backdraft Damper	302.82	42.05
23 33 13 23-0233 EA 40" x 8" Vertically Mounted Backdraft Damper	302.82	42.05
23 33 13 23-0234 EA 18" x 18" Vertically Mounted Backdraft Damper	281.50	46.67
23 33 13 23-0235 EA 24" x 14" Vertically Mounted Backdraft Damper	275.89	51.30
23 33 13 23-0236 EA 28" x 12" Vertically Mounted Backdraft Damper	289.91	56.07
23 33 13 23-0237 EA 44" x 8" Vertically Mounted Backdraft Damper	309.72	60.69
23 33 13 23-0238 EA 18" x 20" Vertically Mounted Backdraft Damper	326.63	65.31
23 33 13 23-0239 EA 20" x 18" Vertically Mounted Backdraft Damper	340.65	70.08
23 33 13 23-0240 EA 36" x 10" Vertically Mounted Backdraft Damper	340.65	70.08
23 33 13 23-0241 EA 24" x 16" Vertically Mounted Backdraft Damper	209.19	23.40
23 33 13 23-0242 EA 32" x 12" Vertically Mounted Backdraft Damper	216.20	25.64
23 33 13 23-0243 EA 48" x 8" Vertically Mounted Backdraft Damper	230.21	30.27
23 33 13 23-0244 EA 28" x 14" Vertically Mounted Backdraft Damper	247.12	35.04
23 33 13 23-0245 EA 20" x 20" Vertically Mounted Backdraft Damper	257.03	37.28
23 33 13 23-0246 EA 40" x 10" Vertically Mounted Backdraft Damper	271.05	42.05
23 33 13 23-0247 EA 50" x 8" Vertically Mounted Backdraft Damper	285.06	46.67
23 33 13 23-0248 EA 18" x 24" Vertically Mounted Backdraft Damper	296.65	46.67
23 33 13 23-0249 EA 24" x 18" Vertically Mounted Backdraft Damper	310.67	51.30
23 33 13 23-0250 EA 36" x 12" Vertically Mounted Backdraft Damper	324.69	56.07
23 33 13 23-0251 EA 44" x 10" Vertically Mounted Backdraft Damper	341.60	60.69
23 33 13 23-0252 EA 28" x 16" Vertically Mounted Backdraft Damper	372.54	70.08
23 33 13 23-0253 EA 32" x 14" Vertically Mounted Backdraft Damper	372.54	70.08
23 33 13 23-0254 EA 20" x 24" Vertically Mounted Backdraft Damper	399.59	74.70
23 33 13 23-0255 EA 24" x 20" Vertically Mounted Backdraft Damper	386.92	79.33
23 33 13 23-0256 EA 40" x 12" Vertically Mounted Backdraft Damper	386.92	79.33
23 33 13 23-0257 EA 48" x 10" Vertically Mounted Backdraft Damper	400.94	83.95
23 33 13 23-0258 EA 50" x 10" Vertically Mounted Backdraft Damper	407.13	83.95
23 33 13 23-0259 EA 28" x 18" Vertically Mounted Backdraft Damper	233.16	25.64
23 33 13 23-0260 EA 36" x 14" Vertically Mounted Backdraft Damper	247.17	30.27
23 33 13 23-0261 EA 32" x 16" Vertically Mounted Backdraft Damper	256.67	32.65
23 33 13 23-0262 EA 44" x 12" Vertically Mounted Backdraft Damper	275.62	37.28
23 33 13 23-0263 EA 20" x 28" Vertically Mounted Backdraft Damper	299.55	42.05
23 33 13 23-0264 EA 28" x 20" Vertically Mounted Backdraft Damper	313.56	46.67
23 33 13 23-0265 EA 40" x 14" Vertically Mounted Backdraft Damper	313.56	46.67

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0266 EA 24" x 24" Vertically Mounted Backdraft Damper	332.54	51.30
23 33 13 23-0267 EA 32" x 18" Vertically Mounted Backdraft Damper	346.56	56.07
23 33 13 23-0268 EA 36" x 16" Vertically Mounted Backdraft Damper	360.57	60.69
23 33 13 23-0269 EA 48" x 12" Vertically Mounted Backdraft Damper	388.61	70.08
23 33 13 23-0270 EA 50" x 12" Vertically Mounted Backdraft Damper	396.05	70.08
23 33 13 23-0271 EA 44" x 14" Vertically Mounted Backdraft Damper	415.01	74.70
23 33 13 23-0272 EA 20" x 32" Vertically Mounted Backdraft Damper	436.46	79.33
23 33 13 23-0273 EA 32" x 20" Vertically Mounted Backdraft Damper	450.48	83.95
23 33 13 23-0274 EA 40" x 16" Vertically Mounted Backdraft Damper	450.48	83.95
23 33 13 23-0275 EA 36" x 18" Vertically Mounted Backdraft Damper	466.96	88.72
23 33 13 23-0276 EA 24" x 28" Vertically Mounted Backdraft Damper	475.64	88.72
23 33 13 23-0277 EA 28" x 24" Vertically Mounted Backdraft Damper	471.70	93.35
23 33 13 23-0278 EA 48" x 14" Vertically Mounted Backdraft Damper	471.70	93.35
23 33 13 23-0279 EA 50" x 14" Vertically Mounted Backdraft Damper	493.70	97.97
23 33 13 23-0280 EA 44" x 16" Vertically Mounted Backdraft Damper	277.59	25.64
23 33 13 23-0281 EA 20" x 36" Vertically Mounted Backdraft Damper	303.17	32.65
23 33 13 23-0282 EA 36" x 20" Vertically Mounted Backdraft Damper	317.18	37.28
23 33 13 23-0283 EA 40" x 18" Vertically Mounted Backdraft Damper	331.20	42.05
23 33 13 23-0284 EA 24" x 32" Vertically Mounted Backdraft Damper	358.88	46.67
23 33 13 23-0285 EA 32" x 24" Vertically Mounted Backdraft Damper	358.88	46.67
23 33 13 23-0286 EA 48" x 16" Vertically Mounted Backdraft Damper	372.90	51.30
23 33 13 23-0287 EA 28" x 28" Vertically Mounted Backdraft Damper	391.48	56.07
23 33 13 23-0288 EA 44" x 18" Vertically Mounted Backdraft Damper	407.76	60.69
23 33 13 23-0289 EA 40" x 20" Vertically Mounted Backdraft Damper	438.08	70.08
23 33 13 23-0290 EA 50" x 16" Vertically Mounted Backdraft Damper	438.08	70.08
23 33 13 23-0291 EA 24" x 36" Vertically Mounted Backdraft Damper	470.32	74.70
23 33 13 23-0292 EA 36" x 24" Vertically Mounted Backdraft Damper	484.34	79.33
23 33 13 23-0293 EA 48" x 18" Vertically Mounted Backdraft Damper	498.36	83.95
23 33 13 23-0294 EA 44" x 20" Vertically Mounted Backdraft Damper	516.93	88.72
23 33 13 23-0295 EA 28" x 32" Vertically Mounted Backdraft Damper	521.49	88.72
23 33 13 23-0296 EA 32" x 28" Vertically Mounted Backdraft Damper	535.50	93.35
23 33 13 23-0297 EA 50" x 18" Vertically Mounted Backdraft Damper	536.63	93.35
23 33 13 23-0298 EA 24" x 40" Vertically Mounted Backdraft Damper	567.74	97.97
23 33 13 23-0299 EA 40" x 24" Vertically Mounted Backdraft Damper	567.74	97.97
23 33 13 23-0300 EA 48" x 20" Vertically Mounted Backdraft Damper	567.74	97.97
23 33 13 23-0301 EA 50" x 20" Vertically Mounted Backdraft Damper	368.90	28.03
23 33 13 23-0302 EA 28" x 36" Vertically Mounted Backdraft Damper	392.19	35.04
23 33 13 23-0303 EA 36" x 28" Vertically Mounted Backdraft Damper	399.20	37.28
23 33 13 23-0304 EA 32" x 32" Vertically Mounted Backdraft Damper	417.78	42.05
23 33 13 23-0305 EA 24" x 44" Vertically Mounted Backdraft Damper	408.39	46.67
23 33 13 23-0306 EA 44" x 24" Vertically Mounted Backdraft Damper	422.41	51.30
23 33 13 23-0307 EA 28" x 40" Vertically Mounted Backdraft Damper	452.67	56.07
23 33 13 23-0308 EA 40" x 28" Vertically Mounted Backdraft Damper	466.68	60.69
23 33 13 23-0309 EA 24" x 48" Vertically Mounted Backdraft Damper	488.84	65.31
23 33 13 23-0310 EA 32" x 36" Vertically Mounted Backdraft Damper	502.86	70.08
23 33 13 23-0311 EA 36" x 32" Vertically Mounted Backdraft Damper	516.87	74.70
23 33 13 23-0312 EA 48" x 24" Vertically Mounted Backdraft Damper	530.89	79.33
23 33 13 23-0313 EA 50" x 24" Vertically Mounted Backdraft Damper	557.10	83.95
23 33 13 23-0314 EA 28" x 44" Vertically Mounted Backdraft Damper	579.23	88.72
23 33 13 23-0315 EA 44" x 28" Vertically Mounted Backdraft Damper	579.23	88.72
23 33 13 23-0316 EA 32" x 40" Vertically Mounted Backdraft Damper	605.44	93.35
23 33 13 23-0317 EA 40" x 32" Vertically Mounted Backdraft Damper	416.23	30.27
23 33 13 23-0318 EA 36" x 36" Vertically Mounted Backdraft Damper	441.31	37.28
23 33 13 23-0319 EA 28" x 48" Vertically Mounted Backdraft Damper	467.52	42.05
23 33 13 23-0320 EA 48" x 28" Vertically Mounted Backdraft Damper	481.53	46.67
23 33 13 23-0321 EA 50" x 28" Vertically Mounted Backdraft Damper	509.77	51.30
23 33 13 23-0322 EA 32" x 44" Vertically Mounted Backdraft Damper	525.83	56.07
23 33 13 23-0323 EA 44" x 32" Vertically Mounted Backdraft Damper	525.83	56.07
23 33 13 23-0324 EA 36" x 40" Vertically Mounted Backdraft Damper	548.99	60.69
23 33 13 23-0325 EA 40" x 36" Vertically Mounted Backdraft Damper	539.43	70.08
23 33 13 23-0326 EA 28" x 52" Vertically Mounted Backdraft Damper	557.09	74.70
23 33 13 23-0327 EA 32" x 48" Vertically Mounted Backdraft Damper	589.40	79.33
23 33 13 23-0328 EA 48" x 32" Vertically Mounted Backdraft Damper	603.42	83.95
23 33 13 23-0329 EA 28" x 56" Vertically Mounted Backdraft Damper	624.75	88.72
23 33 13 23-0330 EA 36" x 44" Vertically Mounted Backdraft Damper	628.42	88.72
23 33 13 23-0331 EA 44" x 36" Vertically Mounted Backdraft Damper	642.43	93.35
23 33 13 23-0332 EA 40" x 40" Vertically Mounted Backdraft Damper	646.08	93.35
23 33 13 23-0333 EA 50" x 32" Vertically Mounted Backdraft Damper	463.88	32.65
23 33 13 23-0334 EA 32" x 52" Vertically Mounted Backdraft Damper	492.52	37.28
23 33 13 23-0335 EA 28" x 60" Vertically Mounted Backdraft Damper	510.19	42.05
23 33 13 23-0336 EA 36" x 48" Vertically Mounted Backdraft Damper	535.19	46.67
23 33 13 23-0337 EA 48" x 36" Vertically Mounted Backdraft Damper	549.21	51.30
23 33 13 23-0338 EA 40" x 44" Vertically Mounted Backdraft Damper	570.55	56.07
23 33 13 23-0339 EA 44" x 40" Vertically Mounted Backdraft Damper	584.56	60.69
23 33 13 23-0340 EA 32" x 56" Vertically Mounted Backdraft Damper	605.88	65.31
23 33 13 23-0341 EA 50" x 36" Vertically Mounted Backdraft Damper	576.01	70.08
23 33 13 23-0342 EA 36" x 52" Vertically Mounted Backdraft Damper	618.67	79.33
23 33 13 23-0343 EA 32" x 60" Vertically Mounted Backdraft Damper	642.44	83.95
23 33 13 23-0344 EA 40" x 48" Vertically Mounted Backdraft Damper	656.45	88.72
23 33 13 23-0345 EA 48" x 40" Vertically Mounted Backdraft Damper	656.45	88.72
23 33 13 23-0346 EA 44" x 44" Vertically Mounted Backdraft Damper	673.72	93.35



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

Air Duct Accessories

23 33

23

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like Backdraft Damper Accessories, Splitter Damper Hardware, Blower Check Valves, and Duct Silencers.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 19 00-0028 EA 36" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,244.63	251.95
23 33 19 00-0029 EA 36" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,154.12	331.73
23 33 19 00-0030 EA 36" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,400.14	359.73
23 33 19 00-0031 EA 48" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,658.61	382.12
23 33 19 00-0032 EA 48" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,988.29	419.92
23 33 19 00-0033 84" Long Packaged Duct Sound Trap (23 33 19)		
23 33 19 00-0034 EA 6" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	367.08	104.98
23 33 19 00-0035 EA 6" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	619.56	156.77
23 33 19 00-0036 EA 6" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	868.54	229.55
23 33 19 00-0037 EA 12" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	489.24	125.98
23 33 19 00-0038 EA 12" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	604.01	145.57
23 33 19 00-0039 EA 12" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	807.31	167.96
23 33 19 00-0040 EA 12" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	946.75	180.56
23 33 19 00-0041 EA 12" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,032.15	194.56
23 33 19 00-0042 EA 12" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,285.72	209.95
23 33 19 00-0043 EA 12" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,513.08	229.55
23 33 19 00-0044 EA 24" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	897.47	194.56
23 33 19 00-0045 EA 24" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,249.71	202.96
23 33 19 00-0046 EA 24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,359.47	209.95
23 33 19 00-0047 EA 24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,477.77	221.16
23 33 19 00-0048 EA 24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,838.20	237.95
23 33 19 00-0049 EA 24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,991.78	251.95
23 33 23 Turning Vanes (23 33)		
23 33 23 00-0001 Duct Turning Vane Components (23 33 23)		
23 33 23 00-0002 LF Duct Turning Vane Rail.....	12.84	3.50
<i>For Stainless Steel, Add</i>	7.25	
23 33 23 00-0003 LF Double Thick Factory Fabricated, Duct Turning Vane.....	11.31	1.40
<i>For Stainless Steel, Add</i>	10.92	
23 33 23 00-0004 Duct Turning Vane Sets (23 33 23)		
Note: Measured from inside corner to outside corner of ductwork.		
23 33 23 00-0005 LF 12" High Duct Turning Vanes, Sets.....	45.15	5.25
<i>For Stainless Steel, Add</i>	50.17	
23 33 23 00-0006 LF 14" High Duct Turning Vanes, Sets.....	55.82	5.60
<i>For Stainless Steel, Add</i>	63.47	
23 33 23 00-0007 LF 16" High Duct Turning Vanes, Sets.....	75.76	5.87
<i>For Stainless Steel, Add</i>	88.86	
23 33 23 00-0008 LF 18" High Duct Turning Vanes, Sets.....	95.76	6.30
<i>For Stainless Steel, Add</i>	114.24	
23 33 23 00-0009 LF 20" High Duct Turning Vanes, Sets.....	106.04	6.72
<i>For Stainless Steel, Add</i>	126.93	
23 33 23 00-0010 LF 22" High Duct Turning Vanes, Sets.....	134.81	6.30
<i>For Stainless Steel, Add</i>	165.04	
23 33 23 00-0011 LF 24" High Duct Turning Vanes, Sets.....	165.58	7.41
<i>For Stainless Steel, Add</i>	203.11	
23 33 23 00-0012 LF 26" High Duct Turning Vanes, Sets.....	177.69	7.76
<i>For Stainless Steel, Add</i>	218.40	
23 33 23 00-0013 LF 30" High Duct Turning Vanes, Sets.....	198.24	8.06
<i>For Stainless Steel, Add</i>	244.61	
23 33 33 Duct-Mounting Access Doors (23 33)		
23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication (23 33 33)		
23 33 33 00-0002 EA 6" x 6" Duct Access Doors Insulated Factory Fabrication.....	98.18	19.60
<i>For Stainless Steel, Add</i>	38.88	
23 33 33 00-0003 EA 10" x 10" Duct Access Doors Insulated Factory Fabrication.....	102.26	19.60
<i>For Stainless Steel, Add</i>	47.04	
23 33 33 00-0004 EA 12" x 12" Duct Access Doors Insulated Factory Fabrication.....	104.26	19.60
<i>For Stainless Steel, Add</i>	51.04	
23 33 33 00-0005 EA 12" x 18" Duct Access Doors Insulated Factory Fabrication.....	132.88	23.79
<i>For Stainless Steel, Add</i>	71.96	
23 33 33 00-0006 EA 16" x 12" Duct Access Doors Insulated Factory Fabrication.....	133.69	23.79
<i>For Stainless Steel, Add</i>	73.58	
23 33 33 00-0007 EA 18" x 18" Duct Access Doors Insulated Factory Fabrication.....	168.32	32.19
<i>For Stainless Steel, Add</i>	84.68	
23 33 33 00-0008 EA 24" x 18" Duct Access Doors Insulated Factory Fabrication.....	203.07	39.19
<i>For Stainless Steel, Add</i>	91.20	
23 33 33 00-0009 EA 24" x 24" Duct Access Doors Insulated Factory Fabrication.....	265.94	53.18
<i>For Stainless Steel, Add</i>	111.98	
23 33 43 Flexible Connectors (23 33)		
23 33 43 00-0001 LF 6-1/2" Width, Galvanized Steel, Flexible Duct Connector.....	16.97	4.19
23 33 43 00-0002 LF 5-3/4" Width, Vinyl/Steel, Flexible Duct Connector.....	17.27	3.78



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 33 46 Flexible Ducts (23 33)

23 33 46 00-0001	Flexible Duct, R8.0 Insulated With Metallized Outer Jacket (23 33 46)				
Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.					
23 33 46 00-0002	LF		4" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	7.57	1.40
23 33 46 00-0003	LF		5" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	8.46	2.80
23 33 46 00-0004	LF		6" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	9.75	2.80
23 33 46 00-0005	LF		7" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	11.42	2.80
23 33 46 00-0006	LF		8" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	13.80	4.19
23 33 46 00-0007	LF		10" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	17.72	4.19
23 33 46 00-0008	LF		12" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	24.33	5.60
23 33 46 00-0009	LF		14" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	30.36	5.60
23 33 46 00-0010	LF		16" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	40.19	7.00

23 33 46 00-0011 Collars, Sheet Metal Spin-In Type With Damper (23 33 46)

23 33 46 00-0012	EA		Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	46.70	8.40
			<i>For Stainless Steel, Add</i>	19.76	
23 33 46 00-0013	EA		5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	51.39	9.80
			<i>For Stainless Steel, Add</i>	20.02	
23 33 46 00-0014	EA		6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	58.97	9.80
			<i>For Stainless Steel, Add</i>	22.07	
23 33 46 00-0015	EA		7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	67.91	12.59
			<i>For Stainless Steel, Add</i>	22.78	
23 33 46 00-0016	EA		8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	82.77	15.40
			<i>For Stainless Steel, Add</i>	25.73	
23 33 46 00-0017	EA		10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	96.39	18.20
			<i>For Stainless Steel, Add</i>	31.72	
23 33 46 00-0018	EA		12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	110.28	20.99
			<i>For Stainless Steel, Add</i>	34.18	
23 33 46 00-0019	EA		14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	129.50	23.79
			<i>For Stainless Steel, Add</i>	42.80	
23 33 46 00-0020	EA		16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	141.00	26.60
			<i>For Stainless Steel, Add</i>	46.83	

23 33 53 Duct Liners (23 33)

23 33 53 00-0001	Fiberglass Duct Liner Board, Rigid, Acoustical Insulation (23 33 53)				
23 33 53 00-0002	SF		1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	14.56	3.94
23 33 53 00-0003	SF		3/4" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	15.90	3.94
23 33 53 00-0004	SF		1" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	17.66	5.25
23 33 53 00-0005	SF		1-1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	21.64	5.25
23 33 53 00-0006	SF		2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	26.11	5.91
23 33 53 00-0007	SF		1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	13.68	4.19
23 33 53 00-0008	SF		3/4" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	14.95	4.19
23 33 53 00-0009	SF		1" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	16.66	5.60
23 33 53 00-0010	SF		1-1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	20.29	5.60
23 33 53 00-0011	SF		2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	24.58	6.30

23 33 53 00-0012 Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation (23 33 53)

23 33 53 00-0013	SF		1/2", R2, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	2.87	3.36
23 33 53 00-0014	SF		1", R3.8, 1.5 LB/CF, T150, Fiberglass Duct Liner Blanket	3.68	3.78
23 33 53 00-0015	SF		1", R4.1, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	4.14	3.78
23 33 53 00-0016	SF		1", R4.3, 3 LB/CF, T300, Fiberglass Duct Liner Blanket	5.36	3.78
23 33 53 00-0017	SF		1-1/2", T150, 1.5 LB/CF, Fiberglass Duct Liner Blanket	4.47	4.19
23 33 53 00-0018	SF		2", R7.7, 1.5 LB/CF, T150 Fiberglass Duct Liner Blanket	4.74	4.62
23 33 53 00-0019	SF		2", R8, 2 LB/CF, T200 Fiberglass Duct Liner Blanket	7.38	4.62

23 33 56 Duct Air Extractors (23 33)

23 33 56 00-0001	EA		12" x 4" Duct Air Extractor	60.46	23.10
			<i>For Stainless Steel, Add</i>	18.55	
23 33 56 00-0002	EA		8" x 6" Duct Air Extractor	64.66	25.20
			<i>For Stainless Steel, Add</i>	18.55	
23 33 56 00-0003	EA		12" x 6" Duct Air Extractor	72.93	26.60
			<i>For Stainless Steel, Add</i>	25.68	
23 33 56 00-0004	EA		16" x 6" Duct Air Extractor	81.04	28.00
			<i>For Stainless Steel, Add</i>	32.57	
23 33 56 00-0005	EA		24" x 6" Duct Air Extractor	102.94	30.79
			<i>For Stainless Steel, Add</i>	53.77	
23 33 56 00-0006	EA		12" x 8" Duct Air Extractor	78.13	28.00
			<i>For Stainless Steel, Add</i>	28.78	
23 33 56 00-0007	EA		20" x 8" Duct Air Extractor	102.02	35.00
			<i>For Stainless Steel, Add</i>	41.65	
23 33 56 00-0008	EA		18" x 10" Duct Air Extractor	111.24	39.89
			<i>For Stainless Steel, Add</i>	40.90	
23 33 56 00-0009	EA		24" x 10" Duct Air Extractor	134.56	46.88
			<i>For Stainless Steel, Add</i>	53.01	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 56 00-0010 EA 24" x 12" Duct Air Extractor..... <i>For Stainless Steel, Add</i>	155.66 56.80	55.99
23 33 56 00-0011 EA 30" x 12" Duct Air Extractor..... <i>For Stainless Steel, Add</i>	194.73 71.19	69.98
23 33 59 Duct Pressure Relief Doors (23 33)		
23 33 59 00-0001 Duct Pressure Relief Doors (23 33 59)		
23 33 59 00-0002 EA 18" x 18" Duct Pressure Relief Door (Ruskin PRD18)	1,048.06	41.99
23 33 59 00-0003 EA 24" x 10" Duct Pressure Relief Door (Ruskin PRD18)	861.65	35.00
23 33 59 00-0004 EA 24" x 12" Duct Pressure Relief Door (Ruskin PRD18)	858.05	38.49
23 34 HVAC Fans (23 30)		
23 34 13 Axial HVAC Fans (23 34)		
23 34 13 00-0001 Tube-Axial Fans (23 34 13)		
23 34 13 00-0002 Direct Drive Tube-Axial Duct Fans (23 34 13 00-0001)		
23 34 13 00-0003 EA 12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,790.28 74.39 148.78 204.57	429.77
23 34 13 00-0004 EA 12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,856.70 79.70 159.41 219.19	431.05
23 34 13 00-0005 EA 16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,989.54 90.33 180.66 248.41	429.77
23 34 13 00-0006 EA 20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,122.38 100.96 201.92 277.64	431.05
23 34 13 00-0007 EA 22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,493.72 116.90 233.80 321.47	516.24
23 34 13 00-0008 EA 24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,849.18 138.15 276.31 379.92	561.41
23 34 13 00-0009 EA 24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	3,022.48 143.47 286.93 394.53	614.33
23 34 13 00-0010 EA 30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	3,416.04 170.04 340.07 467.60	645.30
23 34 13 00-0011 EA 30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	4,137.21 201.92 403.83 555.27	806.62
23 34 13 00-0012 EA 36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	4,643.28 233.80 467.60 642.95	860.83
23 34 13 00-0013 EA 36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	5,439.38 276.31 552.61 759.84	992.47
23 34 13 00-0014 Belt Drive Tube-Axial Duct Fans (23 34 13 00-0001)		
23 34 13 00-0015 EA 15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,702.59 69.60 139.19 191.39	416.87
23 34 13 00-0016 EA 15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,799.02 75.09 150.18 206.50	431.05
23 34 13 00-0017 EA 18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,859.20 77.53 155.06 213.21	445.25
23 34 13 00-0018 EA 18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,962.21 83.23 166.46 228.88	460.74



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Fans	23 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0019 EA 18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure.....	2,189.67	478.81
For 1/4" Static Pressure, Add	98.69	
For 3/8" Static Pressure, Add	197.39	
For 1/2" Static Pressure, Add	271.41	
23 34 13 00-0020 EA 24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure.....	2,305.30	496.87
For 1/4" Static Pressure, Add	105.00	
For 3/8" Static Pressure, Add	210.01	
For 1/2" Static Pressure, Add	288.76	
23 34 13 00-0021 EA 24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure.....	2,558.68	516.24
For 1/4" Static Pressure, Add	122.10	
For 3/8" Static Pressure, Add	244.19	
For 1/2" Static Pressure, Add	335.76	
23 34 13 00-0022 EA 24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure.....	2,849.26	516.24
For 1/4" Static Pressure, Add	145.47	
For 3/8" Static Pressure, Add	290.95	
For 1/2" Static Pressure, Add	400.05	
23 34 13 00-0023 EA 30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure.....	3,282.43	561.41
For 1/4" Static Pressure, Add	172.97	
For 3/8" Static Pressure, Add	345.94	
For 1/2" Static Pressure, Add	475.67	
23 34 13 00-0024 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure.....	3,899.33	680.15
For 1/4" Static Pressure, Add	203.49	
For 3/8" Static Pressure, Add	406.99	
For 1/2" Static Pressure, Add	559.61	
23 34 13 00-0025 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure.....	4,392.10	680.15
For 1/4" Static Pressure, Add	242.46	
For 3/8" Static Pressure, Add	484.91	
For 1/2" Static Pressure, Add	666.76	
23 34 13 00-0026 EA 36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure.....	4,818.00	717.57
For 1/4" Static Pressure, Add	270.72	
For 3/8" Static Pressure, Add	541.44	
For 1/2" Static Pressure, Add	744.48	
23 34 13 00-0027 EA 36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	5,248.86	758.87
For 1/4" Static Pressure, Add	298.73	
For 3/8" Static Pressure, Add	597.45	
For 1/2" Static Pressure, Add	821.50	
23 34 13 00-0028 EA 36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	6,049.32	992.47
For 1/4" Static Pressure, Add	325.59	
For 3/8" Static Pressure, Add	651.18	
For 1/2" Static Pressure, Add	895.37	
23 34 13 00-0029 EA 36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure.....	6,828.58	993.76
For 1/4" Static Pressure, Add	387.93	
For 3/8" Static Pressure, Add	775.86	
For 1/2" Static Pressure, Add	1,066.81	
23 34 13 00-0030 EA 42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure.....	7,740.96	1,172.89
For 1/4" Static Pressure, Add	432.23	
For 3/8" Static Pressure, Add	864.47	
For 1/2" Static Pressure, Add	1,188.64	
23 34 16 Centrifugal HVAC Fans (23 34)		
23 34 16 00-0001 Centrifugal Fans (23 34 16)		
Note: All belt fans to be supplied with belt guard.		
23 34 16 00-0002 Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001)		
Note: V-belt driven.		
23 34 16 00-0003 Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)		
Note: Under 30" diameter wheel.		
23 34 16 00-0004 12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0005 EA 1/6 HP, 12-1/4" Wheel, 450 To 1,750 CFM At 1/8" Static Pressure, Centrifugal Fan	1,184.07	283.55
23 34 16 00-0006 EA 1/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,652.46	294.25
23 34 16 00-0007 EA 1/3 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,703.30	234.50
23 34 16 00-0008 EA 1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,777.96	321.36
23 34 16 00-0009 EA 3/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,826.26	340.72
23 34 16 00-0010 EA 1 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,886.02	354.91
23 34 16 00-0011 EA 1-1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,949.84	378.15
23 34 16 00-0012 13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0013 EA 1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,893.54	309.74
23 34 16 00-0014 EA 1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,930.23	321.36
23 34 16 00-0015 EA 1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,997.44	340.72
23 34 16 00-0016 EA 3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,037.94	354.91
23 34 16 00-0017 EA 1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,111.78	378.15
23 34 16 00-0018 EA 1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,182.76	396.22
23 34 16 00-0019 15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0020 EA 1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,911.25	321.36
23 34 16 00-0021 EA 1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,959.46	340.72
23 34 16 00-0022 EA 1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,018.95	354.91

23	23 Heating, Ventilating, and Air-Conditioning (HVAC)
23 30	HVAC Air Distribution
23 34	HVAC Fans



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0023 EA 3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,073.79	378.15
23 34 16 00-0024 EA 1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,138.46	396.22
23 34 16 00-0025 EA 1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,230.94	425.89
23 34 16 00-0026 EA 2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,302.87	447.84
23 34 16 00-0027 16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0028 EA 1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,177.84	340.72
23 34 16 00-0029 EA 1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,257.06	354.91
23 34 16 00-0030 EA 1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,347.98	378.15
23 34 16 00-0031 EA 3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,397.90	396.22
23 34 16 00-0032 EA 1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,466.16	425.89
23 34 16 00-0033 EA 1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,523.36	447.84
23 34 16 00-0034 EA 2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,797.87	486.55
23 34 16 00-0035 18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0036 EA 1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,251.57	354.91
23 34 16 00-0037 EA 1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,311.16	378.15
23 34 16 00-0038 EA 1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,385.33	396.22
23 34 16 00-0039 EA 3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,449.33	425.89
23 34 16 00-0040 EA 1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,530.76	447.84
23 34 16 00-0041 EA 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,655.45	486.55
23 34 16 00-0042 EA 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,738.13	516.24
23 34 16 00-0043 EA 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,864.36	567.87
23 34 16 00-0044 20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0045 EA 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,282.68	378.15
23 34 16 00-0046 EA 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,356.82	396.22
23 34 16 00-0047 EA 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,449.33	425.89
23 34 16 00-0048 EA 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,530.76	447.84
23 34 16 00-0049 EA 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,683.93	486.55
23 34 16 00-0050 EA 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,888.68	516.24
23 34 16 00-0051 EA 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	3,044.23	567.87
23 34 16 00-0052 EA 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	3,200.63	607.87
23 34 16 00-0053 22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0054 EA 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,720.80	396.22
23 34 16 00-0055 EA 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,780.36	425.89
23 34 16 00-0056 EA 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,855.16	447.84
23 34 16 00-0057 EA 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,952.96	486.55
23 34 16 00-0058 EA 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,074.39	516.24
23 34 16 00-0059 EA 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,131.25	567.87
23 34 16 00-0060 EA 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,219.62	607.87
23 34 16 00-0061 EA 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,377.71	681.43
23 34 16 00-0062 24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0063 EA 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,253.23	425.89
23 34 16 00-0064 EA 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,377.06	486.55
23 34 16 00-0065 EA 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,488.22	516.24
23 34 16 00-0066 EA 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,613.92	567.87
23 34 16 00-0067 EA 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,722.85	607.87
23 34 16 00-0068 EA 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,833.48	681.43
23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,970.73	740.80
23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,281.49	851.80
23 34 16 00-0071 27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,595.77	447.84
23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,725.60	516.24
23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,851.29	567.87
23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,960.23	607.87
23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,118.32	681.43
23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	4,255.29	740.80
23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	4,586.22	851.80
23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	4,662.26	946.01
23 34 16 00-0080 Large Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)		
Note: Over 30" diameter wheel.		
23 34 16 00-0081 30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure (23 34 16 00-0002)		
23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,014.42	567.87
23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,119.62	607.87
23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,286.20	681.43



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0085	EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,432.66	740.80
23 34 16 00-0086	EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,658.26	851.80
23 34 16 00-0087	EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,858.61	946.01
23 34 16 00-0088	EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,202.40	1,135.72
23 34 16 00-0089	EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,518.00	1,309.96
23 34 16 00-0090	33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0091	EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	5,859.21	607.87
23 34 16 00-0092	EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,064.78	681.43
23 34 16 00-0093	EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,249.51	740.80
23 34 16 00-0094	EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,512.81	851.80
23 34 16 00-0095	EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,751.15	946.01
23 34 16 00-0096	EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	7,132.90	1,135.72
23 34 16 00-0097	EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	7,545.04	1,309.96
23 34 16 00-0098	EA 7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	8,183.20	1,703.59
23 34 16 00-0099	36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0100	EA 1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	4,923.00	681.43
23 34 16 00-0101	EA 3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,012.78	740.80
23 34 16 00-0102	EA 1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,181.12	851.80
23 34 16 00-0103	EA 1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,343.65	946.01
23 34 16 00-0104	EA 2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,096.61	1,135.72
23 34 16 00-0105	EA 3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,442.00	1,309.96
23 34 16 00-0106	EA 5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	7,121.05	1,703.59
23 34 16 00-0107	EA 7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	7,849.74	2,129.48
23 34 16 00-0108	Kitchen System Fans (23 34 16 00-0001)		
23 34 16 00-0109	Upblast Kitchen Exhaust Fans (23 34 16 00-0108)		
23 34 16 00-0110	Direct Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109) Note: Greenheck CUE.		
23 34 16 00-0111	EA Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan	1,087.81	167.77
	Note: 115V. For roof or wall installations. Includes disconnect switch.		
	<i>For Bird Screen, Add</i>	42.63	
	<i>For Backdraft Damper, Add</i>	124.79	
	<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0112	EA 14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan	1,257.16	167.77
	Note: 115V. For roof or wall installations. Includes disconnect switch.		
	<i>For Bird Screen, Add</i>	42.63	
	<i>For Backdraft Damper, Add</i>	124.79	
	<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0113	Belt Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109) Note: Greenheck CUBE.		
23 34 16 00-0114	EA 10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,792.23	167.77
	Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
	<i>For Bird Screen, Add</i>	42.63	
	<i>For Wall Mounted Fan, Add</i>	71.69	
	<i>For 3 Phase Motor, Deduct</i>	-50.00	
	<i>For Totally Enclosed Motor, Add</i>	85.00	
	<i>For Grease Trap Kit, Add</i>	76.41	
	<i>For Hinged Curb Kit, Add</i>	123.82	
	<i>For Backdraft Damper, Add</i>	124.79	
	<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0115	EA 12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,865.73	167.77
	Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
	<i>For Bird Screen, Add</i>	42.63	
	<i>For Wall Mounted Fan, Add</i>	74.63	
	<i>For 3 Phase Motor, Deduct</i>	-50.00	
	<i>For Totally Enclosed Motor, Add</i>	85.00	
	<i>For Grease Trap Kit, Add</i>	76.41	
	<i>For Hinged Curb Kit, Add</i>	130.06	
	<i>For Backdraft Damper, Add</i>	124.79	
	<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0116	EA 14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,633.66	193.59
	Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
	<i>For Bird Screen, Add</i>	48.51	
	<i>For Wall Mounted Fan, Add</i>	65.35	
	<i>For 3 Phase Motor, Deduct</i>	-50.00	
	<i>For Totally Enclosed Motor, Add</i>	85.00	
	<i>For Grease Trap Kit, Add</i>	76.41	
	<i>For Hinged Curb Kit, Add</i>	105.95	
	<i>For Backdraft Damper, Add</i>	141.47	
	<i>For Damper Motor, Add</i>	195.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0117 EA 14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	1,739.49	193.59
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	48.51	
For Wall Mounted Fan, Add	69.58	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	114.95	
For Backdraft Damper, Add	141.47	
For Damper Motor, Add	195.02	
23 34 16 00-0118 EA 16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,197.95	225.86
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	48.51	
For Wall Mounted Fan, Add	87.92	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	148.43	
For Backdraft Damper, Add	141.47	
For Damper Motor, Add	195.02	
23 34 16 00-0119 EA 16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,311.13	225.86
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	48.51	
For Wall Mounted Fan, Add	92.45	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	158.05	
For Backdraft Damper, Add	141.47	
For Damper Motor, Add	195.02	
23 34 16 00-0120 EA 18" Diameter Wheel, 1/2 HP, 3,243 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,515.37	241.99
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	100.61	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	172.67	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0121 EA 18" Diameter Wheel, 1 HP, 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,691.76	241.99
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	107.67	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	187.66	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0122 EA 20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,744.61	258.12
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	109.78	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	189.41	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0123 EA 20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,993.02	258.12
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	119.72	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	210.53	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0124 EA 24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,442.67	290.39
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	95.54	
For Wall Mounted Fan, Add	137.71	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	243.26	
For Backdraft Damper, Add	188.43	
For Damper Motor, Add	195.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0125 EA 24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,670.50	290.39
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	95.54	
<i>For Wall Mounted Fan, Add</i>	146.82	
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	262.63	
<i>For Backdraft Damper, Add</i>	188.43	
<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0126 EA 30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,336.22	322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	102.89	
<i>For Wall Mounted Fan, Add</i>	173.45	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	313.73	
<i>For Backdraft Damper, Add</i>	208.49	
<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0127 EA 30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,411.18	322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	102.89	
<i>For Wall Mounted Fan, Add</i>	176.45	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	320.10	
<i>For Backdraft Damper, Add</i>	208.49	
<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0128 EA 30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,791.89	322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	102.89	
<i>For Wall Mounted Fan, Add</i>	191.68	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	352.46	
<i>For Backdraft Damper, Add</i>	208.49	
<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0129 EA 30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,975.63	322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	102.89	
<i>For Wall Mounted Fan, Add</i>	199.03	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	368.08	
<i>For Backdraft Damper, Add</i>	208.49	
<i>For Damper Motor, Add</i>	195.02	
23 34 16 00-0130 EA 36" Diameter Wheel, 3 HP, 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	5,478.41	354.91
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	117.59	
<i>For Wall Mounted Fan, Add</i>	219.14	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	405.33	
<i>For Damper Motor, Add</i>	195.02	
<i>For Backdraft Damper, Add</i>	242.43	
23 34 16 00-0131 EA 36" Diameter Wheel, 5 HP, 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	5,689.70	354.91
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	117.59	
<i>For Wall Mounted Fan, Add</i>	227.59	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	423.29	
<i>For Damper Motor, Add</i>	195.02	
<i>For Backdraft Damper, Add</i>	242.43	
23 34 16 00-0132 EA 42" Diameter Wheel, 3 HP, 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	5,760.13	387.18
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	117.59	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	423.80	
<i>For Damper Motor, Add</i>	195.02	
<i>For Backdraft Damper, Add</i>	278.75	
23 34 16 00-0133 EA 42" Diameter Wheel, 7-1/2 HP, 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	6,224.03	387.18
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	117.59	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	463.23	
<i>For Damper Motor, Add</i>	195.02	
<i>For Backdraft Damper, Add</i>	278.75	

23 34 16 00-0134 **Untempered Kitchen Make-Up Air Fans** (23 34 16 00-0108)
 Note: Roof mounted with downblast discharge, weatherhood and filter.

23 34 16 00-0135 **Direct Drive Kitchen Make-Up Air Fans** (23 34 16 00-0134)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0136 EA 7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,244.13 220.14	167.77
23 34 16 00-0137 EA 8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,301.66 228.77	167.77
23 34 16 00-0138 EA 9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,372.26 239.36	167.77
23 34 16 00-0139 Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0140 EA 9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,399.65 243.47	167.77
23 34 16 00-0141 EA 10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,594.37 284.33	225.86
23 34 16 00-0142 EA 12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,912.64 338.52	258.12
23 34 16 00-0143 EA 15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,232.79 399.45	322.65
23 34 16 00-0144 EA 18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,699.86 482.41	387.18
23 34 16 00-0145 Replacement Parts (23 34 16 00-0001)		
23 34 16 00-0146 Replace Belts And Accessories (23 34 16 00-0145)		
23 34 16 00-0147 EA Fan Shaft Bearing, Replacement	1,003.42	463.07
23 34 16 00-0148 EA Fan Belt, Replacement	156.62	62.81
23 34 16 00-0149 Corrosive Fume Resistant Plastic (23 34 16 00-0001)		
23 34 16 00-0150 Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)		
23 34 16 00-0151 EA 250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	5,199.00 709.94	233.05
23 34 16 00-0152 EA 895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	5,661.58 765.26	279.95
23 34 16 00-0153 EA 1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	6,723.55 903.56	349.93
23 34 16 00-0154 EA 2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	7,264.73 949.65	466.80
23 34 16 00-0155 EA 3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	8,406.87 1,051.07	699.85
23 34 16 00-0156 EA 11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	14,600.96 1,770.23	1,399.71
23 34 16 00-0157 EA 18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	21,273.74 2,590.80	2,000.89
23 34 16 00-0158 Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)		
23 34 16 00-0159 EA 1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	5,199.00 709.94	233.05
23 34 16 00-0160 EA 1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	5,354.25 719.16	279.95
23 34 16 00-0161 EA 1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	5,494.22 719.16	349.93
23 34 16 00-0162 EA 2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	5,728.07 719.16	466.80
23 34 16 00-0163 EA 3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	7,915.14 977.31	699.85
23 34 16 00-0164 EA 4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	8,265.07 977.31	874.82
23 34 16 00-0165 EA 4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	8,517.56 977.31	1,001.07
23 34 16 00-0166 EA 6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	8,737.93 995.75	1,049.78
23 34 16 00-0167 EA 7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic <i>For Explosion Proof Motor, Add</i>	9,032.69 1,004.97	1,166.38
23 34 16 00-0168 In-Line Duct Fans (23 34 16 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0169 Direct Drive In-Line Duct Fans <small>(23 34 16 00-0168)</small>		
<i>Note: Greenheck SQ.</i>		
23 34 16 00-0170 EA Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan	1,218.14	167.77
<i>Note: 115V. Includes disconnect switch.</i>		
23 34 16 00-0171 EA 13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan	1,531.62	180.69
<i>Note: 115V. Includes disconnect switch.</i>		
23 34 16 00-0172 EA 14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan	1,676.11	193.59
<i>Note: 115V. Includes disconnect switch.</i>		
23 34 16 00-0173 Belt Drive In-Line Duct Fans <small>(23 34 16 00-0168)</small>		
<i>Note: Greenheck BSQ.</i>		
23 34 16 00-0174 EA Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan	1,744.77	193.59
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0175 EA 13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan	2,007.83	225.86
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0176 EA 13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan	2,236.96	225.86
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0177 EA 13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan	2,431.75	225.86
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0178 EA 16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan	2,397.02	258.12
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0179 EA 16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan	2,726.90	258.12
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0180 EA 24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan	3,465.71	322.65
<i>Note: 115/208-230/60/1. Includes disconnect switch.</i>		
<i>For 3 Phase Motor, Deduct</i>		
	-50.00	
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0181 EA 24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan	3,647.82	322.65
<i>Note: 230/460/60/3. Includes disconnect switch.</i>		
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0182 EA 24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan	3,776.19	322.65
<i>Note: Belt drive. 230/460/60/3. Includes disconnect switch.</i>		
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0183 EA 30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan	4,377.74	387.18
<i>Note: 230/460/60/3. Includes disconnect switch.</i>		
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0184 EA 30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan	4,530.96	387.18
<i>Note: 230/460/60/3. Includes disconnect switch.</i>		
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0185 EA 30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan	4,719.25	387.18
<i>Note: 230/460/60/3. Includes disconnect switch.</i>		
<i>For Totally Enclosed Motor, Add</i>		
	85.00	
23 34 16 00-0186 In-Line Cabinet Fans <small>(23 34 16 00-0001)</small>		
23 34 16 00-0187 EA 950 CFM, 80 Watt, Direct Drive In-Line Cabinet Fan	420.98	112.92
23 34 16 00-0188 EA 1,050 CFM, 129 Watt, Direct Drive In-Line Cabinet Fan	441.52	112.92
23 34 16 00-0189 EA 1,100 CFM, 173 Watt, Direct Drive In-Line Cabinet Fan	469.39	112.92
23 34 16 00-0190 EA 950 CFM, 48.7 Watt, Direct Drive In-Line Cabinet Fan	467.92	112.92
23 34 16 00-0191 EA 1,100 CFM, 52.5 Watt, Direct Drive In-Line Cabinet Fan	467.92	112.92
23 34 16 00-0192 EA 1,400 CFM, 100 Watt, Direct Drive In-Line Cabinet Fan	511.94	112.92
23 34 16 00-0193 EA 900 CFM, 48.2 Watt, Direct Drive In-Line Cabinet Fan	604.06	119.38
23 34 16 00-0194 EA 1,000 CFM, 82.7 Watt, Direct Drive In-Line Cabinet Fan	526.30	119.38
23 34 16 00-0195 EA 1,050 CFM, 80.7 Watt, Direct Drive In-Line Cabinet Fan	555.64	119.38
23 34 16 00-0196 EA 1,350 CFM, 140 Watt, Direct Drive In-Line Cabinet Fan	574.72	119.38
23 34 16 00-0197 EA 1,000 CFM, 135 Watt, Direct Drive In-Line Cabinet Fan	596.72	119.38
23 34 16 00-0198 EA 1,070 CFM, 217 Watt, Direct Drive In-Line Cabinet Fan	596.72	119.38
23 34 16 00-0199 EA 1,100 CFM, 350 Watt, Direct Drive In-Line Cabinet Fan	927.98	125.83
23 34 16 00-0200 EA 1,080 CFM, 325 Watt, Direct Drive In-Line Cabinet Fan	794.48	125.83
23 34 16 00-0201 EA 1,600 CFM, 405 Watt, Direct Drive In-Line Cabinet Fan	794.48	125.83
23 34 16 00-0202 EA 950 CFM, 328 Watt, Direct Drive In-Line Cabinet Fan	1,045.35	125.83
23 34 16 00-0203 EA 1,095 CFM, 455 Watt, Direct Drive In-Line Cabinet Fan	1,045.35	125.83
23 34 16 00-0204 EA 1,450 CFM, 822 Watt, Direct Drive In-Line Cabinet Fan	1,045.35	125.83
23 34 16 00-0205 EA 1,640 CFM, 830 Watt, Direct Drive In-Line Cabinet Fan	1,392.12	125.83
23 34 16 00-0206 Propeller And Ceiling Fans <small>(23 34 16)</small>		
23 34 16 00-0207 Direct Drive, Sidewall Propeller Exhaust Fan <small>(23 34 16 00-0206)</small>		
<i>Note: Greenheck SE1.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0208	EA		1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....611.50	611.50	138.09
			Note: Includes motor side guard.		
			For Backdraft Damper, Add	135.78	
			For Wall Mount Collar, Add	211.53	
23 34 16 00-0209	EA		1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....652.77	652.77	153.58
			Note: Includes motor side guard.		
			For Backdraft Damper, Add	147.32	
			For Wall Mount Collar, Add	211.53	
23 34 16 00-0210	EA		1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....723.06	723.06	170.36
			Note: Includes motor side guard.		
			For Backdraft Damper, Add	162.28	
			For Wall Mount Collar, Add	217.23	
23 34 16 00-0211	EA		1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....1,016.27	1,016.27	188.42
			For Backdraft Damper, Add	192.59	
			For Wall Mount Collar, Add	221.46	
			For Motor Side Guard, Add	177.52	
23 34 16 00-0212	EA		1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....1,174.70	1,174.70	209.07
			For Backdraft Damper, Add	192.59	
			For Wall Mount Collar, Add	227.16	
			For Motor Side Guard, Add	189.09	
23 34 16 00-0213	EA		1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....1,319.32	1,319.32	232.31
			For Backdraft Damper, Add	231.40	
			For Wall Mount Collar, Add	232.85	
			For Motor Side Guard, Add	200.67	
23 34 16 00-0214	EA		1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....1,502.97	1,502.97	258.12
			For Backdraft Damper, Add	231.40	
			For Wall Mount Collar, Add	237.09	
			For Motor Side Guard, Add	216.65	
23 34 16 00-0215			Belt Drive Propeller Exhaust Fans (23 34 16 00-0206)		
			Note: Wall shutter 1/8" static pressure, with birdscreen.		
23 34 16 00-0216	EA		24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter.....2,215.69	2,215.69	369.11
23 34 16 00-0217	EA		30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter.....2,541.78	2,541.78	429.77
23 34 16 00-0218	EA		36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter.....2,898.20	2,898.20	516.24
23 34 16 00-0219	EA		42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter.....3,996.72	3,996.72	645.30
23 34 16 00-0220	EA		48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter.....4,815.62	4,815.62	860.83
23 34 16 00-0221	EA		54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter.....6,739.07	6,739.07	1,290.60
23 34 16 00-0222	EA		60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter.....8,144.36	8,144.36	1,654.54
23 34 16 00-0223			Propeller Exhaust Fan Accessories (23 34 16 00-0206)		
23 34 16 00-0224	SF		Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening).....115.72	115.72	
23 34 16 00-0225	SF		Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening).....263.05	263.05	
23 34 16 00-0226			Reversible Ceiling Fans (23 34 16 00-0206)		
23 34 16 00-0227			4 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0228	EA		42" 4-Blade Ceiling Fan, Three Speed.....531.62	531.62	67.83
			For Brass Plated Motor, Add	20.25	
			For Light Kit, Add	26.13	
23 34 16 00-0229			5 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0230	EA		42" 5-Blade Ceiling Fan, Three Speed.....579.86	579.86	167.85
			For Brass Plated Motor, Add	20.25	
			For Light Kit, Add	26.20	
23 34 16 00-0231	EA		52" 5-Blade Ceiling Fan, Three Speed.....660.42	660.42	167.85
			For Brass Plated Motor, Add	20.25	
			For Light Kit, Add	26.34	
23 34 16 00-0232			3 Blade Weatherproof Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0233	EA		3-Blade Ceiling Fan, Weatherproof, Three Speed.....543.27	543.27	63.89
23 34 16 00-0234			Ceiling Fan Down Rod (23 34 16 00-0226)		
23 34 16 00-0235	EA		1' Ceiling Fan Down Rod .....22.54	22.54	
23 34 16 00-0236	EA		1-1/2' Ceiling Fan Down Rod .....28.52	28.52	
23 34 16 00-0237	EA		2' Ceiling Fan Down Rod .....31.51	31.51	
23 34 16 00-0238	EA		3' Ceiling Fan Down Rod .....41.14	41.14	
23 34 16 00-0239	EA		4' Ceiling Fan Down Rod .....47.83	47.83	
23 34 16 00-0240	EA		5' Ceiling Fan Down Rod .....58.09	58.09	
23 34 16 00-0241	EA		6' Ceiling Fan Down Rod .....71.85	71.85	
23 34 16 00-0242			Explosion Proof Industrial Blowers (23 34 16 00-0206)		
23 34 16 00-0243	EA		355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....4,575.79	4,575.79	
23 34 16 00-0244	EA		355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....5,016.99	5,016.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0245	EA		355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof	6,647.64	
23 34 16 00-0246	EA		355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof	6,951.38	
23 34 16 00-0247	EA		355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure	4,179.34	
23 34 16 00-0248	EA		355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure	4,444.12	
23 34 16 00-0249	EA		355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure	6,063.81	
23 34 16 00-0250	EA		355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure	6,563.41	
23 34 16 00-0251			Exhaust Fans <small>(23 34 16)</small>		
23 34 16 00-0252			Exhaust Fans <small>(23 34 16 00-0251)</small> Note: Excludes ducting.		
23 34 16 00-0253			Light Duty Exhaust Fans <small>(23 34 16 00-0252)</small>		
23 34 16 00-0254			Light Duty Exhaust Fans <small>(23 34 16 00-0253)</small>		
23 34 16 00-0255	EA		50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 670)	152.50	54.81
23 34 16 00-0256	EA		70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 671)	159.67	54.81
23 34 16 00-0257	EA		180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 505)	245.65	54.81
23 34 16 00-0258	EA		350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 504)	303.15	54.81
23 34 16 00-0259	EA		160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 503)	273.96	54.81
23 34 16 00-0260	EA		270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 502)	355.61	54.81
23 34 16 00-0261			Light Duty Exhaust Fans With Lights <small>(23 34 16 00-0253)</small>		
23 34 16 00-0262	EA		50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678)	190.81	54.81
23 34 16 00-0263	EA		70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679)	208.76	54.81
23 34 16 00-0264	EA		100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680)	366.57	54.81
23 34 16 00-0265			Light Duty Exhaust Fans With Heaters <small>(23 34 16 00-0253)</small>		
23 34 16 00-0266	EA		70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162)	194.70	54.81
23 34 16 00-0267	EA		70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658)	293.10	54.81
23 34 16 00-0268			Light Duty Exhaust Fans With Heaters And Lights <small>(23 34 16 00-0253)</small>		
23 34 16 00-0269	EA		70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655)	310.15	54.81
23 34 16 00-0270	EA		100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL)	456.61	54.81
23 34 16 00-0271			Heavy Duty/Continuous Operation Exhaust Fans <small>(23 34 16 00-0252)</small>		
23 34 16 00-0272			Heavy Duty/Continuous Operation Exhaust Fans <small>(23 34 16 00-0271)</small> Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0273	EA		50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50)	221.80	54.81
23 34 16 00-0274	EA		80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80)	242.36	54.81
23 34 16 00-0275	EA		109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG)	420.36	54.81
23 34 16 00-0276	EA		157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG)	429.89	54.81
23 34 16 00-0277	EA		210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG)	459.56	54.81
23 34 16 00-0278	EA		259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG)	478.51	54.81
23 34 16 00-0279	EA		308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG)	485.85	54.81
23 34 16 00-0280	EA		434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400)	552.07	54.81
23 34 16 00-0281	EA		514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500)	625.11	54.81
23 34 16 00-0282	EA		701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700)	666.71	54.81
23 34 16 00-0283	EA		901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900)	788.24	54.81
23 34 16 00-0284	EA		1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500)	1,004.72	54.81
23 34 16 00-0285			Heavy Duty/Continuous Operation Kitchen Exhaust Fans <small>(23 34 16 00-0271)</small> Note: Includes enamel steel or aluminum grille.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0286 EA 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG).....	435.44	54.81
23 34 16 00-0287 EA 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....	619.65	54.81
23 34 16 00-0288 EA 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....	653.76	54.81
23 34 16 00-0289 Heavy Duty/Continuous Operation Exhaust Fans With Lights (23 34 16 00-0271)		
23 34 16 00-0290 EA 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....	238.64	54.81
23 34 16 00-0291 EA 80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....	257.95	54.81
23 34 16 00-0292 Fire Rated, Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0271)		
23 34 16 00-0293 EA 50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF).....	247.12	54.81
23 34 16 00-0294 EA 80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF).....	259.91	54.81
23 34 16 00-0295 EA 110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® 110RDF).....	266.08	54.81
23 34 16 00-0296 Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans (23 34 16 00-0252)		
23 34 16 00-0297 EA 900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900).....	1,077.52	54.81
23 34 16 00-0298 EA 1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050).....	1,077.52	54.81
23 34 16 00-0299 EA 1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410).....	1,077.52	54.81
23 34 16 00-0300 EA 1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550).....	1,179.76	54.81
23 34 16 00-0301 Room-To-Room Exhaust Fans (23 34 16 00-0252)		
23 34 16 00-0302 EA 90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512).....	185.98	54.81
23 34 16 00-0303 EA 180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511).....	290.42	54.81
23 34 16 00-0304 EA 380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510).....	328.48	54.81
23 34 16 00-0305 Through-Wall Exhaust Fans (23 34 16 00-0252)		
23 34 16 00-0306 EA 250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507).....	308.58	54.81
23 34 16 00-0307 EA 470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506).....	361.03	54.81
23 34 16 00-0308 EA 180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509).....	272.51	54.81
23 34 16 00-0309 EA 270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508).....	355.61	54.81
23 34 16 00-0310 EA 360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C).....	601.59	54.81
23 34 16 00-0311 Exhaust Fan Accessories (23 34 16 00-0252)		
23 34 16 00-0312 Exhaust Fan Controls (23 34 16 00-0311)		
23 34 16 00-0313 EA Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57).....	171.61	34.26
23 34 16 00-0314 EA 60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59).....	125.21	34.26
23 34 16 00-0315 EA 60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61).....	126.32	34.26
23 34 16 00-0316 Roof And Wall Caps For Exhaust Fans (23 34 16 00-0311)		
23 34 16 00-0317 Wall Caps For Exhaust Fans (23 34 16 00-0316)		
23 34 16 00-0318 EA Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613).....	283.46	70.08
23 34 16 00-0319 EA Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643).....	287.11	70.08
23 34 16 00-0320 Roof Caps For Exhaust Fans (23 34 16 00-0316)		
Note: Includes flashing and built in bird screen.		
23 34 16 00-0321 EA Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611).....	245.76	70.08
23 34 16 00-0322 EA Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612).....	340.61	70.08
23 34 16 00-0323 EA CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636).....	172.85	70.08
23 34 16 00-0324 EA CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634).....	201.30	70.08
23 34 16 00-0325 Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan (23 34 16 00-0252)		
Note: Includes storage and cleaning.		
23 34 16 00-0326 EA Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan.....	96.79	
23 34 23 HVAC Power Ventilators (23 34)		
23 34 23 00-0001 Power Roof Ventilators (23 34 23)		
23 34 23 00-0002 Direct Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)		
Note: Greenheck G.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0003 EA 1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster Note: Three speed motor. For 12" Roof Curb, Add For Backdraft Damper, Add For Solid State Speed Control, Add For Damper Motor, Add	711.71 202.32 114.94 100.03 195.02	184.56
23 34 23 00-0004 EA 1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster Note: Three speed motor. For 12" Roof Curb, Add For Backdraft Damper, Add For Solid State Speed Control, Add For Damper Motor, Add	778.61 202.32 114.94 100.03 195.02	209.07
23 34 23 00-0005 EA 1/6 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster For 12" Roof Curb, Add For Backdraft Damper, Add For Solid State Speed Control, Add For Damper Motor, Add	1,110.93 206.72 124.79 100.03 195.02	243.92
23 34 23 00-0006 EA 1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster For 12" Roof Curb, Add For Backdraft Damper, Add For Solid State Speed Control, Add For Damper Motor, Add	1,145.21 206.72 124.79 100.03 195.02	274.89
23 34 23 00-0007 EA 1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster For Solid State Speed Control, Add For Damper Motor, Add	1,469.64 100.03 195.02	303.29
23 34 23 00-0008 EA 1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster For 12" Roof Curb, Add For Backdraft Damper, Add For Solid State Speed Control, Add For Damper Motor, Add	1,666.81 214.07 141.47 145.59 195.02	322.65
23 34 23 00-0009 Belt Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001) Note: Greenheck GB.		
23 34 23 00-0010 EA 1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	1,643.85 206.72 124.79 195.02	274.89
23 34 23 00-0011 EA 1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	1,792.66 214.07 141.47 195.02	349.75
23 34 23 00-0012 EA 1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	2,426.99 214.07 141.47 195.02	416.87
23 34 23 00-0013 EA 3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	3,095.64 249.35 173.47 195.02	516.24
23 34 23 00-0014 EA 1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	4,083.22 265.52 188.43 195.02	645.30
23 34 23 00-0015 EA 1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	4,730.91 290.51 208.49 195.02	806.62
23 34 23 00-0016 EA 2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	4,766.19 290.51 208.49 195.02	806.62
23 34 23 00-0017 EA 3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	5,146.89 290.51 208.49 195.02	806.62
23 34 23 00-0018 EA 5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... For 12" Roof Curb, Add For Backdraft Damper, Add For Damper Motor, Add	5,893.58 290.51 208.49 195.02	806.62
23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast (23 34 23 00-0001) Note: Includes back draft damper and birdscreen and curb.		
23 34 23 00-0020 EA 30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure	7,391.22	992.47
23 34 23 00-0021 EA 36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure	11,958.49	1,290.21
23 34 23 00-0022 Belt Drive Supply Fans (23 34 23 00-0001)		
23 34 23 00-0023 EA 4,500 CFM, 24" x 24" Supply Fan, Roof Mounted	2,976.82	515.34
23 34 23 00-0024 EA 10,000 CFM, 36" x 36" Supply Fan, Roof Mounted	3,999.75	645.17
23 34 23 00-0025 Fan Thermostat (23 34 23 00-0001)		
23 34 23 00-0026 EA 50 To 120 Degree Line Voltage Fan Thermostat.....	136.90	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0027 Power Wall Ventilators <small>(23 34 23)</small>		
23 34 23 00-0028 Centrifugal Sidewall Exhausters <small>(23 34 23 00-0027)</small>		
23 34 23 00-0029 Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <small>(23 34 23 00-0028)</small> Note: Greenheck CW.		
23 34 23 00-0030 EA 1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	935.92	207.78
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	146.37	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	101.08	
23 34 23 00-0031 EA 1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	1,074.31	243.92
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	163.04	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	120.00	
23 34 23 00-0032 EA 1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	1,600.23	274.89
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	184.81	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	138.93	
23 34 23 00-0033 Belt Drive, Aluminum, Centrifugal Sidewall Exhausters <small>(23 34 23 00-0028)</small> Note: Greenheck CWB.		
23 34 23 00-0034 EA 1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	1,920.28	155.37
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	175.21	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	209.30	
23 34 23 00-0035 EA 1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	2,035.91	174.97
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	175.21	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	209.30	
23 34 23 00-0036 EA 3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	2,490.53	200.15
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	216.99	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	242.93	
23 34 33 Air Curtains <small>(23 34)</small>		
23 34 33 00-0001 Unheated Air Curtains For Entrances <small>(23 34 33)</small>		
23 34 33 00-0002 Unheated Air Curtains, Standard Velocity <small>(23 34 33 00-0001)</small>		
23 34 33 00-0003 EA Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated.....	2,408.13	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0004 EA Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated.....	2,436.78	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0005 EA Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated.....	2,467.82	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0006	EA		Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,981.15 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	946.01
23 34 33 00-0007	EA		Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,406.45 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	1,135.72
23 34 33 00-0008	EA		Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,585.52 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	1,135.72
23 34 33 00-0009	EA		Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,993.51 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	1,309.96
23 34 33 00-0010	EA		Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	4,708.60 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	1,309.96
23 34 33 00-0011	EA		Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	4,799.33 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	1,309.96
23 34 33 00-0012	EA		Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	5,040.47 162.13 441.35 327.86 504.40 139.14 278.27 333.93 352.48	1,309.96
23 34 33 00-0013			Unheated Air Curtains, High Velocity (23 34 33 00-0001)		
23 34 33 00-0014	EA		High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,883.26 162.13 278.27 139.14 278.27 333.93 352.48	946.01

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated.....	2,920.27	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated.....	2,935.79	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated.....	2,965.64	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated.....	4,495.19	1,135.72
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated.....	4,679.04	1,135.72
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated.....	5,018.99	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated.....	5,655.28	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0022 EA High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated.....	5,722.13	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0023 EA High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated.....	5,982.38	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0024 Service Window Unheated Air Curtains <small>(23 34 33 00-0001)</small>		
Note: Normal window sizes.		
23 34 33 00-0025 EA Air Curtain For 2.5' x 5' Service Window, Unheated.....	2,084.89	745.97
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0026 Heated Air Curtains For Entrances <small>(23 34 33)</small>		
Note: Includes housing, mounting brackets and manual controls.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0027 EA 60" Heated Air Curtain With 1- 300 MBH Heater	3,953.08	833.08
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0028 EA 60" Heated Air Curtain With 1- 400 MBH Heater	4,257.95	833.08
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0029 EA 72" Heated Air Curtain With 1- 350 MBH Heater	4,742.86	999.57
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0030 EA 72" Heated Air Curtain With 2- 250 MBH Heaters	5,108.70	999.57
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0031 EA 96" Heated Air Curtain With 1- 400 MBH Heater	6,322.71	1,332.54
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0032 EA 96" Heated Air Curtain With 2- 350 MBH Heaters	6,810.50	1,332.54
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0033 EA 117" Heated Air Curtain With 2- 300 MBH Heaters	7,704.65	1,623.57
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0034 EA 117" Heated Air Curtain With 2- 400 MBH Heaters	8,299.14	1,623.57
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0035 EA 147" Heated Air Curtain With 2- 350 MBH Heaters	9,680.93	2,039.78
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters	11,159.53	2,039.78
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters	11,064.76	2,331.46
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters	12,754.23	2,331.46
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters	12,641.04	2,664.43
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters	14,571.87	2,664.43
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 35 Special Exhaust Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 35 Special Exhaust Systems (23 30)

See CSI section 23 31 13 16-0075 for spiral duct/piping.

23 35 13 Dust Collection Systems (23 35)

23 35 13 13 Sawdust Collection Systems (23 35 13)

23 35 13 13-0001 Dust Collector System (23 35 13 13)

Table with columns for description, unit cost, and demolition unit cost. Includes items like 1.5 HP Dust Collector Central Vacuum Unit, 2 HP Dust Collector Central Vacuum Unit, etc.

23 35 13 13-0011 Vacuum Tubing And Accessories (23 35 13 13)

23 35 13 13-0012 Vacuum Tubing (23 35 13 13-0011)

23 35 13 13-0013 Galvanized Vacuum Tubing (23 35 13 13-0012)

Table with columns for description, unit cost, and demolition unit cost. Includes items like 2-1/8" Outside Diameter Vacuum Tubing, Galvanized, 2-1/2" Outside Diameter Vacuum Tubing, Galvanized, etc.

23 35 13 13-0024 Vacuum Fittings, Galvanized (23 35 13 13-0011)

23 35 13 13-0025 90 Degree Elbow (23 35 13 13-0024)

Table with columns for description, unit cost, and demolition unit cost. Includes items like 2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized, 2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized, etc.

23 35 13 13-0034 45 Degree Elbow (23 35 13 13-0024)

Table with columns for description, unit cost, and demolition unit cost. Includes items like 2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized, 2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized, etc.

23 35 13 13-0043 Wye (23 35 13 13-0024)

Table with columns for description, unit cost, and demolition unit cost. Includes items like 2-1/8" Wye, Vacuum Tubing, Galvanized, 2-1/2" Wye, Vacuum Tubing, Galvanized, etc.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 13-0054 Reducer <small>(23 35 13 13-0024)</small>		
23 35 13 13-0055 EA 3" Reducer, Vacuum Tubing, Galvanized.....	55.71	17.30
23 35 13 13-0056 EA 4" Reducer, Vacuum Tubing, Galvanized.....	61.70	18.72
23 35 13 13-0057 EA 5" Reducer, Vacuum Tubing, Galvanized.....	76.13	20.65
23 35 13 13-0058 EA 6" Reducer, Vacuum Tubing, Galvanized.....	82.54	22.97
23 35 13 13-0059 EA 8" Reducer, Vacuum Tubing, Galvanized.....	95.95	25.81
23 35 13 13-0060 Flexible Hose <small>(23 35 13 13-0011)</small>		
23 35 13 13-0061 LF 2" Flexible Hose.....	11.68	2.32
23 35 13 13-0062 LF 3" Flexible Hose.....	13.87	2.59
23 35 13 13-0063 LF 4" Flexible Hose.....	15.07	2.84
23 35 13 13-0064 Air Gate Valve, Galvanized <small>(23 35 13 13-0011)</small>		
23 35 13 13-0065 EA 2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized.....	335.50	34.45
23 35 13 13-0066 EA 2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....	351.88	36.78
23 35 13 13-0067 EA 3" Air Gate Valve, Vacuum Tubing, Galvanized.....	402.91	39.62
23 35 13 13-0068 EA 3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....	456.83	42.33
23 35 13 13-0069 EA 4" Air Gate Valve, Vacuum Tubing, Galvanized.....	513.78	44.91
23 35 13 13-0070 EA 5" Air Gate Valve, Vacuum Tubing, Galvanized.....	605.56	51.24
23 35 13 13-0071 EA 6" Air Gate Valve, Vacuum Tubing, Galvanized.....	696.24	57.43
23 35 16 Engine Exhaust Systems <small>(23 35)</small>		
23 35 16 16 Mechanical Engine Exhaust Systems <small>(23 35 16)</small>		
23 35 16 16-0001 Tailpipe Exhaust Equipment <small>(23 35 16 16)</small>		
23 35 16 16-0002 Overhead Tailpipe Exhaust System <small>(23 35 16 16-0001)</small>		
23 35 16 16-0003 Overhead Tailpipe Exhaust Blowers <small>(23 35 16 16-0002)</small>		
23 35 16 16-0004 Overhead Direct Drive Tailpipe Exhaust Blowers <small>(23 35 16 16-0003)</small>		
23 35 16 16-0005 EA 495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	3,158.80	274.89
23 35 16 16-0006 EA 1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	3,778.66	561.41
23 35 16 16-0007 EA 1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	5,207.82	680.15
23 35 16 16-0008 Overhead Belt Drive Tailpipe Exhaust Blowers <small>(23 35 16 16-0003)</small>		
23 35 16 16-0009 EA 1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	3,681.77	561.41
23 35 16 16-0010 EA 2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	3,963.29	680.15
23 35 16 16-0011 EA 2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	4,876.66	1,076.35
23 35 16 16-0012 EA 4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	6,003.85	1,388.68
23 35 16 16-0013 EA 7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	7,537.84	1,654.54
23 35 16 16-0014 Spiral Exhaust Duct Accessories <small>(23 35 16 16-0002)</small>		
23 35 16 16-0015 Flex Hose x Length <small>(23 35 16 16-0014)</small>		
Note: Includes duct coupler, damper and tailpipe adapter.		
23 35 16 16-0016 EA 3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	176.72	68.41
23 35 16 16-0017 EA 3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	158.06	68.41
23 35 16 16-0018 EA 4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	273.44	108.41
23 35 16 16-0019 EA 4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	242.26	108.41
23 35 16 16-0020 EA 5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	401.56	171.65
23 35 16 16-0021 EA 5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	390.40	171.65
23 35 16 16-0022 EA 6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	620.73	272.32
23 35 16 16-0023 EA 6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	597.26	272.32
23 35 16 16-0024 Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter <small>(23 35 16 16-0014)</small>		
23 35 16 16-0025 EA 4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	191.60	68.41
23 35 16 16-0026 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	284.31	108.41
23 35 16 16-0027 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	170.11	68.41
23 35 16 16-0028 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	252.42	108.41
23 35 16 16-0029 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	1,192.83	92.14
23 35 16 16-0030 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter.....	1,105.41	169.07
23 35 16 16-0031 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter.....	1,206.46	169.07
23 35 16 16-0032 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.).....	60.26	13.16
23 35 16 16-0033 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.).....	66.47	13.16
23 35 16 16-0034 Flexible Hose <small>(23 35 16 16-0014)</small>		
23 35 16 16-0035 LF 3" Stainless Steel Flexible Tubing.....	26.98	3.23
23 35 16 16-0036 LF 4" Stainless Steel Flexible Tubing.....	33.86	3.61
23 35 16 16-0037 LF 5" Stainless Steel Flexible Tubing.....	39.80	3.74
23 35 16 16-0038 LF 6" Stainless Steel Flexible Tubing.....	46.56	4.00
23 35 16 16-0039 LF 3" Galvanized Flexible Tubing.....	17.89	3.23
23 35 16 16-0040 LF 4" Galvanized Flexible Tubing.....	20.84	3.61

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 16 16-0041	LF		5" Galvanized Flexible Tubing	23.63	3.74
23 35 16 16-0042	LF		6" Galvanized Flexible Tubing	26.21	4.00
23 35 16 16-0043			Accessories <small>(23 35 16 16-0002)</small>		
23 35 16 16-0044	EA		3" Tail Pipe Adapter	50.20	9.68
23 35 16 16-0045	EA		4" Tail Pipe Adapter	51.44	9.68
23 35 16 16-0046	EA		5" Tail Pipe Adapter	55.25	10.97
23 35 16 16-0047	EA		3" Bullnose (Guide)	28.67	6.45
23 35 16 16-0048	EA		4" Bullnose (Guide)	30.65	7.09
23 35 16 16-0049	EA		5" Bullnose (Guide)	32.83	7.75
23 35 16 16-0050	EA		Flex-Hose Winch And Associated Hardware	229.35	73.18
23 35 16 16-0051	LF		Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope	0.10	
23 35 16 16-0052			Automatic Exhaust Extraction System <small>(23 35 16 16-0001)</small> Note: (Neiderman System) Includes track, hydraulic shock absorber, automatic disconnect box, flexible hose, electromagnetic ergonomic positioner, nozzle, power supply and accessories.		
23 35 16 16-0053	EA		Magnatrack System For One Vehicle (30" To 40" Track)	32,572.80	
23 35 16 16-0054	EA		Magnatrack System For Two Vehicles (2 Each 30" Tracks)	47,049.60	
23 35 16 16-0055	EA		Magnatrack System For Tandem Vehicles (2 Each 30" Tracks)	47,049.60	
23 35 16 16-0056	EA		Magnarail System For One Vehicle (33" Rail)	38,604.80	
23 35 16 16-0057	EA		Magnarail System For Two Vehicles in Tandem (66" Rail)	57,907.20	
23 35 16 16-0058	EA		Magnastack For One Vehicle, Vertical Exhaust Stacks (30" Stack)	30,160.00	
23 35 19			Fume Exhaust Systems <small>(23 35)</small>		
23 35 19 00-0001	EA		Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle	2,392.17	515.85
23 35 19 00-0002	EA		Hose Extension Kit 5'	436.90	114.60
23 36			Air Terminal Units <small>(23 30)</small>		
23 36 13			Constant-Air-Volume Units <small>(23 36)</small>		
23 36 13 00-0001			Vertical Units, With Electric Heating Coils <small>(23 36 13)</small>		
23 36 13 00-0002	EA		60 CFM Vertical Induction Unit, With Electric Heating Coils	1,564.03	183.16
23 36 13 00-0003	EA		90 CFM Vertical Induction Unit, With Electric Heating Coils	1,868.66	197.24
23 36 13 00-0004	EA		120 CFM Vertical Induction Unit, With Electric Heating Coils	1,990.19	204.29
23 36 13 00-0005	EA		150 CFM Vertical Induction Unit, With Electric Heating Coils	2,125.81	218.38
23 36 13 00-0006	EA		175 CFM Vertical Induction Unit, With Electric Heating Coils	2,386.34	225.42
23 36 13 00-0007			Horizontal Units, With Electric Heating Coils <small>(23 36 13)</small>		
23 36 13 00-0008	EA		60 CFM Horizontal Induction Unit, With Electric Heating Coils	1,342.97	183.16
23 36 13 00-0009	EA		90 CFM Horizontal Induction Unit, With Electric Heating Coils	1,592.21	197.24
23 36 13 00-0010	EA		120 CFM Horizontal Induction Unit, With Electric Heating Coils	1,884.49	207.82
23 36 13 00-0011			Duct Boxes, Constant Volume Control <small>(23 36 13)</small>		
23 36 13 00-0012			Single Duct Boxes, Constant Volume Control <small>(23 36 13 00-0011)</small>		
23 36 13 00-0013	EA		4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control	1,256.05	53.18
			<i>For Boxes With Motor, Add</i>	209.22	
23 36 13 00-0014	EA		6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control	1,389.48	57.39
			<i>For Boxes With Motor, Add</i>	232.09	
23 36 13 00-0015	EA		7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control	1,446.68	62.98
			<i>For Boxes With Motor, Add</i>	238.95	
23 36 13 00-0016	EA		9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control	1,474.31	65.79
			<i>For Boxes With Motor, Add</i>	242.37	
23 36 13 00-0017	EA		12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control	1,501.46	72.78
			<i>For Boxes With Motor, Add</i>	242.37	
23 36 13 00-0018	EA		14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control	1,716.29	81.18
			<i>For Boxes With Motor, Add</i>	277.82	
23 36 13 00-0019	EA		16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control	1,805.67	90.98
			<i>For Boxes With Motor, Add</i>	288.11	
23 36 13 00-0020	EA		20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control	1,926.87	109.18
			<i>For Boxes With Motor, Add</i>	298.50	
23 36 13 00-0021	EA		24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control	2,047.32	125.98
			<i>For Boxes With Motor, Add</i>	308.69	
23 36 13 00-0022			Dual Duct Boxes, Constant Volume Control <small>(23 36 13 00-0011)</small>		
23 36 13 00-0023	EA		4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control	1,748.17	53.18
			<i>For Boxes With Motor, Add</i>	307.64	
23 36 13 00-0024	EA		6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control	1,871.12	57.39
			<i>For Boxes With Motor, Add</i>	328.41	
23 36 13 00-0025	EA		7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control	1,955.68	62.98
			<i>For Boxes With Motor, Add</i>	340.75	
23 36 13 00-0026	EA		9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control	2,037.56	65.79
			<i>For Boxes With Motor, Add</i>	355.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 13 00-0027	EA		12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control	2,064.71	72.78
			<i>For Boxes With Motor, Add</i>	355.02	
23 36 13 00-0028	EA		14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control	2,371.68	82.58
			<i>For Boxes With Motor, Add</i>	408.89	
23 36 13 00-0029	EA		16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control	2,594.38	90.98
			<i>For Boxes With Motor, Add</i>	445.89	
23 36 13 00-0030	EA		20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control	2,803.38	109.18
			<i>For Boxes With Motor, Add</i>	473.80	
23 36 13 00-0031	EA		24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control	2,937.79	125.98
			<i>For Boxes With Motor, Add</i>	486.78	
23 36 16			Variable-Air-Volume Units <small>(23 36)</small>		
23 36 16 00-0001			Variable Volume Terminal Unit <small>(23 36 16)</small>		
			Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat.		
23 36 16 00-0002			Single Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small>		
			Note: Enclosure only. For mounting DDC controls.		
23 36 16 00-0003	EA		6" Diameter Inlet, 80 To 500 CFM, Variable Air Volume Box With Enclosure Only	582.34	64.39
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0004	EA		8" Diameter Inlet, 145 To 900 CFM, Variable Air Volume Box With Enclosure Only	652.70	72.78
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0005	EA		10" Diameter Inlet, 230 To 1,400 CFM, Variable Air Volume Box With Enclosure Only	727.64	81.18
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0006	EA		12" Diameter Inlet, 325 To 2,000 CFM, Variable Air Volume Box With Enclosure Only	780.06	90.98
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0007	EA		14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With Enclosure Only	1,071.93	195.82
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0008	EA		16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With Enclosure Only	1,318.39	232.36
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0009			Single Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small>		
			Note: With pneumatic controls.		
23 36 16 00-0010	EA		6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller	1,157.30	64.39
			<i>For Fan Powered Variable Air Volume Box, Add</i>	1,173.54	
			<i>For Hot Water Coils, Add</i>	366.13	
			<i>For Pressure Independent Actuator, Add</i>	67.57	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0011	EA		8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller	1,254.64	72.78
			<i>For Fan Powered Variable Air Volume Box, Add</i>	1,257.56	
			<i>For Hot Water Coils, Add</i>	391.38	
			<i>For Pressure Independent Actuator, Add</i>	67.57	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0012	EA		10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller	1,319.20	81.18
			<i>For Fan Powered Variable Air Volume Box, Add</i>	1,297.92	
			<i>For Hot Water Coils, Add</i>	402.32	
			<i>For Pressure Independent Actuator, Add</i>	67.57	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0013	EA		12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller	1,382.00	90.98
			<i>For Fan Powered Variable Air Volume Box, Add</i>	1,335.75	
			<i>For Hot Water Coils, Add</i>	412.42	
			<i>For Pressure Independent Actuator, Add</i>	67.57	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0014	EA		14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller	1,617.83	195.82
			<i>For Fan Powered Variable Air Volume Box, Add</i>	1,502.16	
			<i>For Hot Water Coils, Add</i>	459.56	
			<i>For Pressure Independent Actuator, Add</i>	67.57	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0015	EA		16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller	1,909.96	232.36
			<i>For Fan Powered Variable Air Volume Box, Add</i>	1,636.16	
			<i>For Hot Water Coils, Add</i>	490.70	
			<i>For Pressure Independent Actuator, Add</i>	67.57	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0016			Single Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small>		
			Note: With analog electronic controls.		
23 36 16 00-0017	EA		6" Diameter Inlet, 60 To 500 CFM, Variable Air Volume Box With Analog Electronic Controls	1,873.40	64.39
			<i>For Hot Water Coils, Add</i>	656.51	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0018	EA		8" Diameter Inlet, 105 To 900 CFM, Variable Air Volume Box With Analog Electronic Controls	1,954.13	72.78
			<i>For Hot Water Coils, Add</i>	675.02	
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0019	EA		10" Diameter Inlet, 165 To 1,400 CFM, Variable Air Volume Box With Analog Electronic Controls	2,029.08	81.18
			<i>For Hot Water Coils, Add</i>	690.18	
			<i>For Filters And Frames, Add</i>	6.30	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 36 Air Terminal Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0020 EA 12" Diameter Inlet, 235 To 2,000 CFM, Variable Air Volume Box With Analog Electronic Controls.....	2,131.31	90.98
For Hot Water Coils, Add	716.27	
For Filters And Frames, Add	6.30	
23 36 16 00-0021 EA 14" Diameter Inlet, 320 To 3,000 CFM, Variable Air Volume Box With Analog Electronic Controls.....	2,369.21	195.82
For Hot Water Coils, Add	764.24	
For Filters And Frames, Add	6.30	
23 36 16 00-0022 EA 16" Diameter Inlet, 420 To 4,000 CFM, Variable Air Volume Box With Analog Electronic Controls.....	2,410.73	195.82
For Hot Water Coils, Add	781.08	
For Filters And Frames, Add	6.30	
23 36 16 00-0023 Dual Duct Variable Volume Terminal Unit (23 36 16 00-0001)		
Note: With flow control installation, plenum system power box, thermostat.		
23 36 16 00-0024 EA 6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct	1,302.69	127.23
For Filters And Frames, Add	6.30	
23 36 16 00-0025 EA 8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct	1,427.11	144.87
For Filters And Frames, Add	6.30	
23 36 16 00-0026 EA 10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct	1,531.64	163.63
For Filters And Frames, Add	6.30	
23 36 16 00-0027 EA 12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct	1,681.09	182.52
For Filters And Frames, Add	6.30	
23 36 16 00-0028 EA 14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct	1,892.00	209.95
For Filters And Frames, Add	6.30	
23 36 16 00-0029 EA 16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct	2,087.49	251.95
For Filters And Frames, Add	6.30	
23 36 16 00-0030 Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) (23 36 16 00-0001)		
23 36 16 00-0031 EA 0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A)	595.34	87.48
For Filters And Frames, Add	6.30	
23 36 16 00-0032 EA 0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B)	647.51	96.23
For Filters And Frames, Add	6.30	
23 36 16 00-0033 EA 0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C)	700.89	104.98
For Filters And Frames, Add	6.30	
23 36 16 00-0034 EA 0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D)	755.54	113.72
For Filters And Frames, Add	6.30	
23 36 16 00-0035 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E)	811.59	122.47
For Filters And Frames, Add	6.30	
23 36 16 00-0036 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F)	869.10	131.23
For Filters And Frames, Add	6.30	
23 36 16 00-0037 EA 0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G)	932.23	139.97
For Filters And Frames, Add	6.30	
23 36 16 00-0038 EA 0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H)	993.29	148.72
For Filters And Frames, Add	6.30	
23 36 16 00-0039 EA 0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J)	1,056.18	157.47
For Filters And Frames, Add	6.30	
23 36 16 00-0040 EA 0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K)	1,121.01	166.21
For Filters And Frames, Add	6.30	
23 36 16 00-0041 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L)	1,187.93	174.97
For Filters And Frames, Add	6.30	
23 36 16 00-0042 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M)	1,257.09	183.71
For Filters And Frames, Add	6.30	
23 36 16 00-0043 EA 0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N)	1,328.65	192.46
For Filters And Frames, Add	6.30	
23 36 16 00-0044 EA 0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P)	1,397.21	201.21
For Filters And Frames, Add	6.30	
23 36 16 00-0045 EA 0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R)	1,473.67	209.95
For Filters And Frames, Add	6.30	
23 37 Air Outlets and Inlets (23 30)		
23 37 13 Diffusers, Registers, and Grilles (23 37)		
23 37 13 13 Diffusers, Registers, and Grilles (23 37 13)		
23 37 13 13-0001 Ceiling Diffusers (23 37 13 13)		
23 37 13 13-0002 Ceiling Diffusers With Perforated Face (23 37 13 13-0001)		
Note: Flush mount, aluminum construction, includes damper.		
23 37 13 13-0003 EA 6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	120.34	18.20
For Steel Construction, Deduct	-7.25	
For Surface Mount, Deduct	-5.80	
For Diffuser Without Damper, Deduct	-9.67	
For Stainless Steel, Add	120.88	
23 37 13 13-0004 EA 8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	131.08	18.20
For Steel Construction, Deduct	-8.86	
For Surface Mount, Deduct	-7.09	
For Diffuser Without Damper, Deduct	-11.82	
For Stainless Steel, Add	147.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0005 EA 9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	131.08	18.20
<i>For Steel Construction, Deduct</i>	-8.86	
<i>For Surface Mount, Deduct</i>	-7.09	
<i>For Diffuser Without Damper, Deduct</i>	-11.82	
<i>For Stainless Steel, Add</i>	147.73	
23 37 13 13-0006 EA 10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	157.60	22.39
<i>For Steel Construction, Deduct</i>	-10.61	
<i>For Surface Mount, Deduct</i>	-8.49	
<i>For Diffuser Without Damper, Deduct</i>	-14.15	
<i>For Stainless Steel, Add</i>	176.83	
23 37 13 13-0007 EA 12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	157.60	20.99
<i>For Steel Construction, Deduct</i>	-10.61	
<i>For Surface Mount, Deduct</i>	-8.49	
<i>For Diffuser Without Damper, Deduct</i>	-14.15	
<i>For Stainless Steel, Add</i>	176.83	
23 37 13 13-0008 EA 16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	177.30	20.99
<i>For Steel Construction, Deduct</i>	-13.56	
<i>For Surface Mount, Deduct</i>	-10.85	
<i>For Diffuser Without Damper, Deduct</i>	-18.09	
<i>For Stainless Steel, Add</i>	226.08	
23 37 13 13-0009 EA 18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	206.30	28.00
<i>For Steel Construction, Deduct</i>	-14.58	
<i>For Surface Mount, Deduct</i>	-11.67	
<i>For Diffuser Without Damper, Deduct</i>	-19.45	
<i>For Stainless Steel, Add</i>	243.08	
23 37 13 13-0010 EA 20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	235.92	29.39
<i>For Steel Construction, Deduct</i>	-18.21	
<i>For Surface Mount, Deduct</i>	-14.57	
<i>For Diffuser Without Damper, Deduct</i>	-24.28	
<i>For Stainless Steel, Add</i>	303.50	
23 37 13 13-0011 EA 24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	268.32	33.59
<i>For Steel Construction, Deduct</i>	-20.25	
<i>For Surface Mount, Deduct</i>	-16.20	
<i>For Lay-In Mount, Deduct</i>	-16.20	
<i>For Diffuser Without Damper, Deduct</i>	-27.00	
<i>For Stainless Steel, Add</i>	337.53	
23 37 13 13-0012 Ceiling Diffusers With Louver Face <small>(23 37 13 13-0001)</small>		
Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.		
23 37 13 13-0013 EA 6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	123.92	18.20
<i>For Steel Construction, Deduct</i>	-7.79	
<i>For Flush Mount, Add</i>	7.79	
<i>For Stainless Steel, Add</i>	129.83	
23 37 13 13-0014 EA 8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	137.88	18.20
<i>For Steel Construction, Deduct</i>	-9.88	
<i>For Flush Mount, Add</i>	9.88	
<i>For Stainless Steel, Add</i>	164.73	
23 37 13 13-0015 EA 9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	137.88	18.20
<i>For Steel Construction, Deduct</i>	-9.88	
<i>For Flush Mount, Add</i>	9.88	
<i>For Stainless Steel, Add</i>	164.73	
23 37 13 13-0016 EA 10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	165.66	20.99
<i>For Steel Construction, Deduct</i>	-11.82	
<i>For Flush Mount, Add</i>	11.82	
<i>For Stainless Steel, Add</i>	196.98	
23 37 13 13-0017 EA 12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	165.66	22.39
<i>For Steel Construction, Deduct</i>	-11.82	
<i>For Flush Mount, Add</i>	11.82	
<i>For Stainless Steel, Add</i>	196.98	
23 37 13 13-0018 EA 24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	212.68	28.00
<i>For Steel Construction, Deduct</i>	-15.47	
<i>For Flush Mount, Add</i>	15.47	
<i>For Stainless Steel, Add</i>	257.85	
23 37 13 13-0019 EA 14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	193.70	28.00
<i>For Steel Construction, Deduct</i>	-12.62	
<i>For Flush Mount, Add</i>	12.62	
<i>For Stainless Steel, Add</i>	210.40	
23 37 13 13-0020 EA 18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	240.57	33.59
<i>For Steel Construction, Deduct</i>	-16.20	
<i>For Flush Mount, Add</i>	16.20	
<i>For Stainless Steel, Add</i>	269.93	
23 37 13 13-0021 EA 21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	274.12	37.79
<i>For Steel Construction, Deduct</i>	-20.15	
<i>For Flush Mount, Add</i>	20.15	
<i>For Stainless Steel, Add</i>	335.75	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0022 EA 24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	298.08	74.05
For Steel Construction, Deduct	-22.48	
For Flush Mount, Add	22.48	
For Lay-In Mount, Add	29.97	
For Stainless Steel, Add	374.68	
23 37 13 13-0023 Round Ceiling Diffusers With Fixed Pattern <small>(23 37 13 13-0001)</small>		
Note: Aluminum construction.		
23 37 13 13-0024 EA 6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	188.22	18.20
For Steel Construction, Deduct	-34.87	
For Stainless Steel, Add	290.58	
23 37 13 13-0025 EA 8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	194.18	18.20
For Steel Construction, Deduct	-36.66	
For Stainless Steel, Add	305.48	
23 37 13 13-0026 EA 10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	220.98	22.39
For Steel Construction, Deduct	-40.23	
For Stainless Steel, Add	335.28	
23 37 13 13-0027 EA 12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	235.88	20.99
For Steel Construction, Deduct	-44.70	
For Stainless Steel, Add	372.53	
23 37 13 13-0028 EA 14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	330.26	25.20
For Steel Construction, Deduct	-68.84	
For Stainless Steel, Add	573.70	
23 37 13 13-0029 EA 16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	347.87	26.60
For Steel Construction, Deduct	-72.87	
For Stainless Steel, Add	607.23	
23 37 13 13-0030 EA 18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	365.84	28.00
For Steel Construction, Deduct	-76.89	
For Stainless Steel, Add	640.75	
23 37 13 13-0031 EA 20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	419.17	28.00
For Steel Construction, Deduct	-91.40	
For Stainless Steel, Add	761.63	
23 37 13 13-0032 EA 24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	496.85	32.19
For Steel Construction, Deduct	-111.26	
For Stainless Steel, Add	927.18	
23 37 13 13-0033 EA 28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	556.46	33.59
For Steel Construction, Deduct	-127.16	
For Stainless Steel, Add	1,059.65	
23 37 13 13-0034 EA 32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	661.47	37.79
For Steel Construction, Deduct	-153.98	
For Stainless Steel, Add	1,283.15	
23 37 13 13-0035 Round Ceiling Diffusers With Adjustable Pattern Dropped Style <small>(23 37 13 13-0001)</small>		
Note: Aluminum construction.		
23 37 13 13-0036 EA 6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	197.16	18.20
For Steel Construction, Deduct	-12.52	
For Flush Mount, Deduct	-6.26	
For Stainless Steel, Add	312.93	
23 37 13 13-0037 EA 8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	212.56	18.20
For Steel Construction, Deduct	-14.06	
For Flush Mount, Deduct	-7.03	
For Stainless Steel, Add	351.43	
23 37 13 13-0038 EA 10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	242.50	22.39
For Steel Construction, Deduct	-15.56	
For Flush Mount, Deduct	-7.78	
For Stainless Steel, Add	389.08	
23 37 13 13-0039 EA 12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	259.72	22.39
For Steel Construction, Deduct	-17.29	
For Flush Mount, Deduct	-8.64	
For Stainless Steel, Add	432.13	
23 37 13 13-0040 EA 14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	369.00	25.20
For Steel Construction, Deduct	-26.82	
For Flush Mount, Deduct	-13.41	
For Stainless Steel, Add	670.55	
23 37 13 13-0041 EA 16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	297.10	26.60
For Steel Construction, Deduct	-28.66	
For Flush Mount, Deduct	-14.33	
For Stainless Steel, Add	716.50	
23 37 13 13-0042 EA 18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	414.52	28.00
For Steel Construction, Deduct	-30.50	
For Flush Mount, Deduct	-15.25	
For Stainless Steel, Add	762.45	
23 37 13 13-0043 EA 20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	477.12	29.39
For Steel Construction, Deduct	-36.26	
For Flush Mount, Deduct	-18.13	
For Stainless Steel, Add	906.50	
23 37 13 13-0044 EA 24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	537.91	32.19
For Steel Construction, Deduct	-41.19	
For Flush Mount, Deduct	-20.60	
For Stainless Steel, Add	1,029.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0045 EA 28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	645.86	33.59
For Steel Construction, Deduct	-51.33	
For Flush Mount, Deduct	-25.66	
For Stainless Steel, Add	1,283.15	
23 37 13 13-0046 EA 32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	774.39	37.79
For Steel Construction, Deduct	-62.62	
For Flush Mount, Deduct	-31.31	
For Stainless Steel, Add	1,565.45	
23 37 13 13-0047 EA 36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	855.85	78.81
For Stainless Steel, Add	1,745.95	
23 37 13 13-0048 Linear Type Ceiling Diffusers With 2-Way Air Deflection (23 37 13 13-0001)		
23 37 13 13-0049 LF 4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection.....	159.20	20.99
For Stainless Steel, Add	188.03	
23 37 13 13-0050 LF 6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection	169.42	20.99
For Stainless Steel, Add	213.58	
23 37 13 13-0051 LF 9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection	182.01	20.99
For Stainless Steel, Add	245.05	
23 37 13 13-0052 LF 12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection	194.26	20.99
For Stainless Steel, Add	275.68	
23 37 13 13-0053 Wall And Floor Diffusers (23 37 13 13)		
23 37 13 13-0054 Slot Type Linear Diffusers (23 37 13 13-0053)		
Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.		
23 37 13 13-0055 LF 1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	54.23	7.00
For 3/4" Border, Add	6.21	
For Floor Mounted Diffusers, Add	7.45	
For Stainless Steel, Add	32.29	
23 37 13 13-0056 LF 2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....	65.29	8.40
For 3/4" Border, Add	8.28	
For Floor Mounted Diffusers, Add	9.93	
For Stainless Steel, Add	43.04	
23 37 13 13-0057 LF 3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....	88.56	9.80
For 3/4" Border, Add	13.04	
For Floor Mounted Diffusers, Add	15.65	
For Stainless Steel, Add	67.80	
23 37 13 13-0058 LF 4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....	115.08	9.80
For 3/4" Border, Add	18.63	
For Floor Mounted Diffusers, Add	22.35	
For Stainless Steel, Add	96.86	
23 37 13 13-0059 LF 5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....	143.09	11.20
For 3/4" Border, Add	24.22	
For Floor Mounted Diffusers, Add	29.06	
For Stainless Steel, Add	125.92	
23 37 13 13-0060 LF 6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....	167.39	13.99
For 3/4" Border, Add	28.56	
For Floor Mounted Diffusers, Add	34.27	
For Stainless Steel, Add	148.51	
23 37 13 13-0061 Linear Bar Grilles And Registers (23 37 13 13-0053)		
Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction.		
23 37 13 13-0062 LF 2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	152.22	8.40
For Floor Mount, Add	12.00	
For Opposed Blade Damper, Add	24.01	
For Stainless Steel, Add	156.05	
23 37 13 13-0063 LF 3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....	181.28	9.80
For Floor Mount, Add	14.49	
For Opposed Blade Damper, Add	28.97	
For Stainless Steel, Add	188.33	
23 37 13 13-0064 LF 4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....	197.86	9.80
For Floor Mount, Add	15.73	
For Opposed Blade Damper, Add	31.46	
For Stainless Steel, Add	204.48	
23 37 13 13-0065 LF 6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....	243.55	13.99
For Floor Mount, Add	19.04	
For Opposed Blade Damper, Add	38.08	
For Stainless Steel, Add	247.52	
23 37 13 13-0066 LF 9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....	336.28	18.20
For Floor Mount, Add	26.49	
For Opposed Blade Damper, Add	52.98	
For Stainless Steel, Add	344.38	
23 37 13 13-0067 LF 12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....	389.03	20.99
For Floor Mount, Add	30.22	
For Opposed Blade Damper, Add	60.43	
For Stainless Steel, Add	392.81	
23 37 13 13-0068 Return/Exhaust Registers And Grilles (23 37 13 13)		
23 37 13 13-0069 Return/Exhaust Registers With Frame (23 37 13 13-0068)		
Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0070 EA 8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	110.08	11.20
For Steel Construction, Deduct	-13.33	
For Grilles (No Damper), Deduct	-26.66	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	6.66	
For Cube Core Lay In, Add	13.33	
For Stainless Steel, Add	166.60	
23 37 13 13-0071 EA 8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	124.57	11.20
For Steel Construction, Deduct	-16.23	
For Grilles (No Damper), Deduct	-32.45	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	8.11	
For Cube Core Lay In, Add	16.23	
For Stainless Steel, Add	202.83	
23 37 13 13-0072 EA 10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	140.21	12.59
For Steel Construction, Deduct	-17.96	
For Grilles (No Damper), Deduct	-35.93	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	8.98	
For Cube Core Lay In, Add	17.96	
For Stainless Steel, Add	224.55	
23 37 13 13-0073 EA 10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	148.42	13.99
For Steel Construction, Deduct	-17.96	
For Grilles (No Damper), Deduct	-35.93	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	8.98	
For Cube Core Lay In, Add	17.96	
For Stainless Steel, Add	224.55	
23 37 13 13-0074 EA 12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	142.63	13.99
For Steel Construction, Deduct	-16.81	
For Grilles (No Damper), Deduct	-33.61	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	8.40	
For Cube Core Lay In, Add	16.81	
For Stainless Steel, Add	210.08	
23 37 13 13-0075 EA 12" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	182.09	18.20
For Steel Construction, Deduct	-22.02	
For Grilles (No Damper), Deduct	-44.04	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	11.01	
For Cube Core Lay In, Add	22.02	
For Stainless Steel, Add	275.25	
23 37 13 13-0076 EA 16" x 16" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	218.33	20.99
For Steel Construction, Deduct	-26.29	
For Grilles (No Damper), Deduct	-52.58	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	13.15	
For Cube Core Lay In, Add	26.29	
For Stainless Steel, Add	328.65	
23 37 13 13-0077 EA 18" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	265.93	25.20
For Steel Construction, Deduct	-33.03	
For Grilles (No Damper), Deduct	-66.06	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	16.52	
For Cube Core Lay In, Add	33.03	
For Stainless Steel, Add	412.88	
23 37 13 13-0078 EA 20" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	309.54	28.00
For Steel Construction, Deduct	-40.00	
For Grilles (No Damper), Deduct	-80.00	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	20.00	
For Cube Core Lay In, Add	40.00	
For Stainless Steel, Add	500.00	
23 37 13 13-0079 EA 24" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	281.80	28.00
For Steel Construction, Deduct	-33.46	
For Grilles (No Damper), Deduct	-66.91	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	16.73	
For Cube Core Lay In, Add	33.46	
For Stainless Steel, Add	418.20	
23 37 13 13-0080 EA 24" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	317.34	28.00
For Steel Construction, Deduct	-40.56	
For Grilles (No Damper), Deduct	-81.13	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	20.28	
For Cube Core Lay In, Add	40.56	
For Stainless Steel, Add	507.05	
23 37 13 13-0081 EA 24" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	336.19	32.19
For Steel Construction, Deduct	-42.04	
For Grilles (No Damper), Deduct	-84.08	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	21.02	
For Cube Core Lay In, Add	42.04	
For Stainless Steel, Add	525.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0082 EA 30" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	356.00	33.59
<i>For Steel Construction, Deduct</i>	-44.68	
<i>For Grilles (No Damper), Deduct</i>	-89.36	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	22.34	
<i>For Cube Core Lay In, Add</i>	44.68	
<i>For Stainless Steel, Add</i>	558.50	
23 37 13 13-0083 EA 30" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	408.97	37.79
<i>For Steel Construction, Deduct</i>	-52.15	
<i>For Grilles (No Damper), Deduct</i>	-104.30	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	26.08	
<i>For Cube Core Lay In, Add</i>	52.15	
<i>For Stainless Steel, Add</i>	651.90	
23 37 13 13-0084 EA 30" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	462.16	44.80
<i>For Steel Construction, Deduct</i>	-56.44	
<i>For Grilles (No Damper), Deduct</i>	-112.88	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	28.22	
<i>For Cube Core Lay In, Add</i>	56.44	
<i>For Stainless Steel, Add</i>	705.48	
23 37 13 13-0085 EA 30" x 30" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	584.85	44.80
<i>For Steel Construction, Deduct</i>	-80.98	
<i>For Grilles (No Damper), Deduct</i>	-161.95	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	40.49	
<i>For Cube Core Lay In, Add</i>	80.98	
<i>For Stainless Steel, Add</i>	1,012.20	
23 37 13 13-0086 EA 36" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	498.66	48.99
<i>For Steel Construction, Deduct</i>	-60.97	
<i>For Grilles (No Damper), Deduct</i>	-121.94	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	30.49	
<i>For Cube Core Lay In, Add</i>	60.97	
<i>For Stainless Steel, Add</i>	762.13	
23 37 13 13-0087 EA 36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	487.00	47.59
<i>For Steel Construction, Deduct</i>	-58.64	
<i>For Grilles (No Damper), Deduct</i>	-117.28	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	29.32	
<i>For Cube Core Lay In, Add</i>	58.64	
<i>For Stainless Steel, Add</i>	732.98	
23 37 13 13-0088 EA 36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	551.40	53.18
<i>For Steel Construction, Deduct</i>	-68.29	
<i>For Grilles (No Damper), Deduct</i>	-136.58	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	34.15	
<i>For Cube Core Lay In, Add</i>	68.29	
<i>For Stainless Steel, Add</i>	853.63	
23 37 13 13-0089 EA 36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	731.58	57.39
<i>For Steel Construction, Deduct</i>	-100.51	
<i>For Grilles (No Damper), Deduct</i>	-201.01	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	50.25	
<i>For Cube Core Lay In, Add</i>	100.51	
<i>For Stainless Steel, Add</i>	1,256.33	
23 37 13 13-0090 EA 24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	332.49	32.33
<i>For Steel Construction, Deduct</i>	-40.66	
<i>For Grilles (No Damper), Deduct</i>	-81.33	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	20.33	
<i>For Cube Core Lay In, Add</i>	40.66	
<i>For Stainless Steel, Add</i>	508.30	
23 37 13 13-0091 EA 32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	600.46	57.25
<i>For Steel Construction, Deduct</i>	-74.28	
<i>For Grilles (No Damper), Deduct</i>	-148.56	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	37.14	
<i>For Cube Core Lay In, Add</i>	74.28	
<i>For Stainless Steel, Add</i>	928.53	
23 37 13 13-0092 EA 48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	636.14	55.99
<i>For Steel Construction, Deduct</i>	-85.24	
<i>For Grilles (No Damper), Deduct</i>	-170.48	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	42.62	
<i>For Cube Core Lay In, Add</i>	85.24	
<i>For Stainless Steel, Add</i>	1,065.48	
23 37 13 13-0093 Return/Exhaust Registers Removable-Reversible (23 37 13 13-0068)		
Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.		
23 37 13 13-0094 EA 8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	102.55	11.20
<i>For Steel Construction, Deduct</i>	-5.91	
<i>For Flat Frame, Deduct</i>	-0.59	
<i>For Grilles (No Damper), Deduct</i>	-11.82	
<i>For Stainless Steel, Add</i>	147.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0095 EA 8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	102.55	11.20
For Steel Construction, Deduct	-5.91	
For Flat Frame, Deduct	-0.59	
For Grilles (No Damper), Deduct	-11.82	
For Stainless Steel, Add	147.78	
23 37 13 13-0096 EA 10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	125.14	12.59
For Steel Construction, Deduct	-7.48	
For Flat Frame, Deduct	-0.75	
For Grilles (No Damper), Deduct	-14.95	
For Stainless Steel, Add	186.88	
23 37 13 13-0097 EA 10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	143.78	15.40
For Steel Construction, Deduct	-8.52	
For Flat Frame, Deduct	-0.85	
For Grilles (No Damper), Deduct	-17.04	
For Stainless Steel, Add	212.95	
23 37 13 13-0098 EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	142.05	13.99
For Steel Construction, Deduct	-8.35	
For Flat Frame, Deduct	-0.83	
For Grilles (No Damper), Deduct	-16.69	
For Stainless Steel, Add	208.63	
23 37 13 13-0099 EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	183.25	18.20
For Steel Construction, Deduct	-11.13	
For Flat Frame, Deduct	-1.11	
For Grilles (No Damper), Deduct	-22.25	
For Stainless Steel, Add	278.15	
23 37 13 13-0100 EA 16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	287.95	22.39
For Steel Construction, Deduct	-20.11	
For Flat Frame, Deduct	-2.01	
For Grilles (No Damper), Deduct	-40.22	
For Stainless Steel, Add	502.70	
23 37 13 13-0101 EA 18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	345.90	25.20
For Steel Construction, Deduct	-24.51	
For Flat Frame, Deduct	-2.45	
For Grilles (No Damper), Deduct	-49.02	
For Stainless Steel, Add	612.80	
23 37 13 13-0102 EA 20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	389.43	28.00
For Steel Construction, Deduct	-27.99	
For Flat Frame, Deduct	-2.80	
For Grilles (No Damper), Deduct	-55.98	
For Stainless Steel, Add	699.73	
23 37 13 13-0103 EA 24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	330.09	28.00
For Steel Construction, Deduct	-21.56	
For Flat Frame, Deduct	-2.16	
For Grilles (No Damper), Deduct	-43.11	
For Stainless Steel, Add	538.93	
23 37 13 13-0104 EA 24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	434.40	29.39
For Steel Construction, Deduct	-31.99	
For Flat Frame, Deduct	-3.20	
For Grilles (No Damper), Deduct	-63.98	
For Stainless Steel, Add	799.70	
23 37 13 13-0105 EA 24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	504.97	32.19
For Steel Construction, Deduct	-37.90	
For Flat Frame, Deduct	-3.79	
For Grilles (No Damper), Deduct	-75.80	
For Stainless Steel, Add	947.48	
23 37 13 13-0106 EA 30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	396.85	33.59
For Steel Construction, Deduct	-26.43	
For Flat Frame, Deduct	-2.64	
For Grilles (No Damper), Deduct	-52.85	
For Stainless Steel, Add	660.63	
23 37 13 13-0107 EA 30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	537.63	37.79
For Steel Construction, Deduct	-38.94	
For Flat Frame, Deduct	-3.89	
For Grilles (No Damper), Deduct	-77.88	
For Stainless Steel, Add	973.55	
23 37 13 13-0108 EA 30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	647.62	44.80
For Steel Construction, Deduct	-46.77	
For Flat Frame, Deduct	-4.68	
For Grilles (No Damper), Deduct	-93.53	
For Stainless Steel, Add	1,169.13	
23 37 13 13-0109 EA 30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	735.41	44.80
For Steel Construction, Deduct	-55.54	
For Flat Frame, Deduct	-5.55	
For Grilles (No Damper), Deduct	-111.09	
For Stainless Steel, Add	1,388.60	
23 37 13 13-0110 EA 36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	518.90	47.59
For Steel Construction, Deduct	-32.51	
For Flat Frame, Deduct	-3.25	
For Grilles (No Damper), Deduct	-65.02	
For Stainless Steel, Add	812.73	
23 37 13 13-0111 EA 36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	685.80	47.59
For Steel Construction, Deduct	-49.20	
For Flat Frame, Deduct	-4.92	
For Grilles (No Damper), Deduct	-98.40	
For Stainless Steel, Add	1,229.98	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
Air Outlets and Inlets	23 37

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0112 EA 36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	790.60	53.18
For Steel Construction, Deduct	-58.07	
For Flat Frame, Deduct	-5.81	
For Grilles (No Damper), Deduct	-116.13	
For Stainless Steel, Add	1,451.63	
23 37 13 13-0113 EA 36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	920.09	57.39
For Steel Construction, Deduct	-69.10	
For Flat Frame, Deduct	-6.91	
For Grilles (No Damper), Deduct	-138.21	
For Stainless Steel, Add	1,727.60	
23 37 13 13-0114 EA 36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	968.77	57.39
For Steel Construction, Deduct	-73.97	
For Flat Frame, Deduct	-7.40	
For Grilles (No Damper), Deduct	-147.94	
For Stainless Steel, Add	1,849.30	
23 37 13 13-0115 Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles (23 37 13 13-0068)		
23 37 13 13-0116 EA 6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	59.92	13.69
23 37 13 13-0117 EA 8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	59.92	13.69
23 37 13 13-0118 EA 8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.15	13.69
23 37 13 13-0119 EA 8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.84	13.69
23 37 13 13-0120 EA 10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.15	13.69
23 37 13 13-0121 EA 10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.84	13.69
23 37 13 13-0122 EA 10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	80.44	17.94
23 37 13 13-0123 EA 10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.14	17.94
23 37 13 13-0124 EA 12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	78.75	17.94
23 37 13 13-0125 EA 12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.14	17.94
23 37 13 13-0126 EA 12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	83.83	17.94
23 37 13 13-0127 EA 12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	85.52	17.94
23 37 13 13-0128 EA 14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.98	17.94
23 37 13 13-0129 EA 14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	86.37	17.94
23 37 13 13-0130 EA 14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	88.06	17.94
23 37 13 13-0131 EA 14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.68	17.94
23 37 13 13-0132 EA 16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	86.37	17.94
23 37 13 13-0133 EA 16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	92.29	17.94
23 37 13 13-0134 EA 16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.68	17.94
23 37 13 13-0135 EA 16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	125.72	26.45
23 37 13 13-0136 EA 16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	127.41	26.45
23 37 13 13-0137 EA 18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	124.02	26.45
23 37 13 13-0138 EA 18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	150.46	30.71
23 37 13 13-0139 EA 20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	122.33	26.45
23 37 13 13-0140 EA 20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	158.93	30.71
23 37 13 13-0141 EA 22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	84.67	17.94
23 37 13 13-0142 EA 22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	124.02	26.45
23 37 13 13-0143 EA 22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	178.61	34.98
23 37 13 13-0144 EA 24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	122.33	26.45
23 37 13 13-0145 EA 24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	125.72	26.45
23 37 13 13-0146 EA 24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	145.39	30.71
For Lay-In Installation, Deduct	-64.76	
23 37 13 13-0147 EA 24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	150.46	30.71
23 37 13 13-0148 EA 24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	168.45	34.98
23 37 13 13-0149 EA 24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	173.53	34.98
23 37 13 13-0150 EA 24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	179.45	34.98
23 37 13 13-0151 EA 24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	190.45	34.98
For Lay-In Installation, Deduct	-74.14	
23 37 13 13-0152 EA 30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	147.93	30.71
23 37 13 13-0153 EA 48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	230.39	38.33
23 37 13 13-0154 EA 48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	378.91	46.85
For Lay-In Installation, Deduct	-106.70	
23 37 13 13-0155 Supply Registers and Grilles (23 37 13 13)		
23 37 13 13-0156 Adjustable Curved Blade Register (23 37 13 13-0155)		
Note: Ceiling mount aluminum construction four way pattern flush frame.		
23 37 13 13-0157 EA 6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	94.03	11.20
For Steel Construction, Deduct	-7.60	
For Lay In Frame, Deduct	-12.67	
For Three Way Pattern, Deduct	-5.07	
For Two Way Pattern, Deduct	-4.05	
For One Way Pattern, Deduct	-4.05	
For Grille (No Damper), Deduct	-7.60	
For Stainless Steel, Add	126.65	
23 37 13 13-0158 EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	97.01	11.20
For Steel Construction, Deduct	-8.05	
For Lay In Frame, Deduct	-13.41	
For Three Way Pattern, Deduct	-5.36	
For Two Way Pattern, Deduct	-4.29	
For One Way Pattern, Deduct	-4.29	
For Grille (No Damper), Deduct	-8.05	
For Stainless Steel, Add	134.10	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0159	EA		12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 109.39		15.40
			<i>For Steel Construction, Deduct</i>	-7.60	
			<i>For Lay In Frame, Deduct</i>	-12.67	
			<i>For Three Way Pattern, Deduct</i>	-5.07	
			<i>For Two Way Pattern, Deduct</i>	-4.05	
			<i>For One Way Pattern, Deduct</i>	-4.05	
			<i>For Grille (No Damper), Deduct</i>	-7.60	
			<i>For Stainless Steel, Add</i>	126.65	
23 37 13 13-0160	EA		10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 120.32		13.99
			<i>For Steel Construction, Deduct</i>	-9.24	
			<i>For Lay In Frame, Deduct</i>	-15.40	
			<i>For Three Way Pattern, Deduct</i>	-6.16	
			<i>For Two Way Pattern, Deduct</i>	-4.93	
			<i>For One Way Pattern, Deduct</i>	-4.93	
			<i>For Grille (No Damper), Deduct</i>	-9.24	
			<i>For Stainless Steel, Add</i>	153.98	
23 37 13 13-0161	EA		12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 144.88		18.20
			<i>For Steel Construction, Deduct</i>	-11.03	
			<i>For Lay In Frame, Deduct</i>	-18.38	
			<i>For Three Way Pattern, Deduct</i>	-7.35	
			<i>For Two Way Pattern, Deduct</i>	-5.88	
			<i>For One Way Pattern, Deduct</i>	-5.88	
			<i>For Grille (No Damper), Deduct</i>	-11.03	
			<i>For Stainless Steel, Add</i>	183.78	
23 37 13 13-0162	EA		14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 178.26		20.99
			<i>For Steel Construction, Deduct</i>	-13.71	
			<i>For Lay In Frame, Deduct</i>	-22.85	
			<i>For Three Way Pattern, Deduct</i>	-9.14	
			<i>For Two Way Pattern, Deduct</i>	-7.31	
			<i>For One Way Pattern, Deduct</i>	-7.31	
			<i>For Grille (No Damper), Deduct</i>	-13.71	
			<i>For Stainless Steel, Add</i>	228.48	
23 37 13 13-0163	EA		16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 178.26		20.99
			<i>For Steel Construction, Deduct</i>	-13.71	
			<i>For Lay In Frame, Deduct</i>	-22.85	
			<i>For Three Way Pattern, Deduct</i>	-9.14	
			<i>For Two Way Pattern, Deduct</i>	-7.31	
			<i>For One Way Pattern, Deduct</i>	-7.31	
			<i>For Grille (No Damper), Deduct</i>	-13.71	
			<i>For Stainless Steel, Add</i>	228.48	
23 37 13 13-0164	EA		18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 220.33		28.00
			<i>For Steel Construction, Deduct</i>	-16.69	
			<i>For Lay In Frame, Deduct</i>	-27.82	
			<i>For Three Way Pattern, Deduct</i>	-11.13	
			<i>For Two Way Pattern, Deduct</i>	-8.90	
			<i>For One Way Pattern, Deduct</i>	-8.90	
			<i>For Grille (No Damper), Deduct</i>	-16.69	
			<i>For Stainless Steel, Add</i>	278.15	
23 37 13 13-0165	EA		24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 282.41		29.39
			<i>For Steel Construction, Deduct</i>	-25.18	
			<i>For Lay In Frame, Deduct</i>	-41.97	
			<i>For Three Way Pattern, Deduct</i>	-16.79	
			<i>For Two Way Pattern, Deduct</i>	-13.43	
			<i>For One Way Pattern, Deduct</i>	-13.43	
			<i>For Grille (No Damper), Deduct</i>	-25.18	
			<i>For Stainless Steel, Add</i>	419.73	
23 37 13 13-0166	EA		30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern 441.07		59.35
			<i>For Steel Construction, Deduct</i>	-48.35	
			<i>For Lay In Frame, Deduct</i>	-80.59	
			<i>For Three Way Pattern, Deduct</i>	-32.24	
			<i>For Two Way Pattern, Deduct</i>	-25.79	
			<i>For One Way Pattern, Deduct</i>	-25.79	
			<i>For Grille (No Damper), Deduct</i>	-48.35	
			<i>For Stainless Steel, Add</i>	805.90	
23 37 13 13-0167 Removable-Reversible Core Registers <small>(23 37 13 13-0155)</small>					
Note: Double deflection radiused frame aluminum construction.					
23 37 13 13-0168	EA		6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame 106.95		11.20
			<i>For Steel Construction, Deduct</i>	-6.36	
			<i>For Flat Frame, Deduct</i>	-6.36	
			<i>For Grille (No Damper), Deduct</i>	-19.07	
			<i>For Stainless Steel, Add</i>	158.95	
23 37 13 13-0169	EA		8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame 132.78		11.20
			<i>For Steel Construction, Deduct</i>	-8.94	
			<i>For Flat Frame, Deduct</i>	-8.94	
			<i>For Grille (No Damper), Deduct</i>	-26.82	
			<i>For Stainless Steel, Add</i>	223.53	
23 37 13 13-0170	EA		12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame 169.99		15.40
			<i>For Steel Construction, Deduct</i>	-11.13	
			<i>For Flat Frame, Deduct</i>	-11.13	
			<i>For Grille (No Damper), Deduct</i>	-33.38	
			<i>For Stainless Steel, Add</i>	278.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0171 EA 10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	171.98	15.40
<i>For Steel Construction, Deduct</i>	-11.33	
<i>For Flat Frame, Deduct</i>	-11.33	
<i>For Grille (No Damper), Deduct</i>	-33.98	
<i>For Stainless Steel, Add</i>	283.13	
23 37 13 13-0172 EA 12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	218.40	18.20
<i>For Steel Construction, Deduct</i>	-14.70	
<i>For Flat Frame, Deduct</i>	-14.70	
<i>For Grille (No Damper), Deduct</i>	-44.11	
<i>For Stainless Steel, Add</i>	367.58	
23 37 13 13-0173 EA 14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	307.41	22.39
<i>For Steel Construction, Deduct</i>	-22.05	
<i>For Flat Frame, Deduct</i>	-22.05	
<i>For Grille (No Damper), Deduct</i>	-66.16	
<i>For Stainless Steel, Add</i>	551.35	
23 37 13 13-0174 EA 16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	343.17	20.99
<i>For Steel Construction, Deduct</i>	-25.63	
<i>For Flat Frame, Deduct</i>	-25.63	
<i>For Grille (No Damper), Deduct</i>	-76.89	
<i>For Stainless Steel, Add</i>	640.75	
23 37 13 13-0175 EA 18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	415.04	28.00
<i>For Steel Construction, Deduct</i>	-30.60	
<i>For Flat Frame, Deduct</i>	-30.60	
<i>For Grille (No Damper), Deduct</i>	-91.79	
<i>For Stainless Steel, Add</i>	764.93	
23 37 13 13-0176 EA 24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	517.84	28.00
<i>For Steel Construction, Deduct</i>	-40.33	
<i>For Flat Frame, Deduct</i>	-40.33	
<i>For Grille (No Damper), Deduct</i>	-121.00	
<i>For Stainless Steel, Add</i>	1,008.30	
23 37 13 13-0177 Adjustable Shutter Blade Registers <small>(23 37 13 13-0155)</small>		
<i>Note: Double deflection flat frame aluminum construction.</i>		
23 37 13 13-0178 EA 6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	159.27	11.20
<i>For Steel Construction, Deduct</i>	-11.59	
<i>For Single Deflection, Deduct</i>	-23.18	
<i>For Grille (No Damper), Deduct</i>	-17.39	
<i>For Stainless Steel, Add</i>	289.75	
23 37 13 13-0179 EA 8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	182.45	11.20
<i>For Steel Construction, Deduct</i>	-13.91	
<i>For Single Deflection, Deduct</i>	-27.82	
<i>For Grille (No Damper), Deduct</i>	-20.86	
<i>For Stainless Steel, Add</i>	347.70	
23 37 13 13-0180 EA 12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	197.81	15.40
<i>For Steel Construction, Deduct</i>	-13.91	
<i>For Single Deflection, Deduct</i>	-27.82	
<i>For Grille (No Damper), Deduct</i>	-20.86	
<i>For Stainless Steel, Add</i>	347.70	
23 37 13 13-0181 EA 10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	204.43	13.99
<i>For Steel Construction, Deduct</i>	-14.57	
<i>For Single Deflection, Deduct</i>	-29.14	
<i>For Grille (No Damper), Deduct</i>	-21.86	
<i>For Stainless Steel, Add</i>	364.25	
23 37 13 13-0182 EA 12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	250.18	18.20
<i>For Steel Construction, Deduct</i>	-17.88	
<i>For Single Deflection, Deduct</i>	-35.76	
<i>For Grille (No Damper), Deduct</i>	-26.82	
<i>For Stainless Steel, Add</i>	447.03	
23 37 13 13-0183 EA 14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	331.91	20.99
<i>For Steel Construction, Deduct</i>	-24.50	
<i>For Single Deflection, Deduct</i>	-49.01	
<i>For Grille (No Damper), Deduct</i>	-36.76	
<i>For Stainless Steel, Add</i>	612.60	
23 37 13 13-0184 EA 16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	388.20	22.39
<i>For Steel Construction, Deduct</i>	-30.13	
<i>For Single Deflection, Deduct</i>	-60.27	
<i>For Grille (No Damper), Deduct</i>	-45.20	
<i>For Stainless Steel, Add</i>	753.33	
23 37 13 13-0185 EA 18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	479.94	28.00
<i>For Steel Construction, Deduct</i>	-37.09	
<i>For Single Deflection, Deduct</i>	-74.17	
<i>For Grille (No Damper), Deduct</i>	-55.63	
<i>For Stainless Steel, Add</i>	927.18	
23 37 13 13-0186 EA 24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	654.27	29.39
<i>For Steel Construction, Deduct</i>	-53.98	
<i>For Single Deflection, Deduct</i>	-107.95	
<i>For Grille (No Damper), Deduct</i>	-80.96	
<i>For Stainless Steel, Add</i>	1,349.38	
23 37 13 13-0187 Air Conditioning And Ventilation <small>(23 37 13 13-0155)</small>		
23 37 13 13-0188 EA 10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	89.77	29.39
<i>For Stainless Steel, Add</i>	77.60	
23 37 13 13-0189 EA 18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	149.57	43.74
<i>For Stainless Steel, Add</i>	155.23	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0190 EA 30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	225.95	61.24
For Stainless Steel, Add	258.70	
23 37 13 13-0191 EA 48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	509.43	83.99
For Stainless Steel, Add	853.68	
23 37 13 13-0192 Square Wall Return Air And Exhaust Grilles (23 37 13 13-0155)		
Note: Egg crate design aluminum construction.		
23 37 13 13-0193 EA 8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	88.74	35.04
23 37 13 13-0194 EA 12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	94.48	35.04
23 37 13 13-0195 EA 18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	140.99	52.56
23 37 13 13-0196 EA 24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	169.69	52.56
23 37 13 13-0197 EA 28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	269.31	70.08
23 37 13 13-0198 EA 36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	442.64	69.98
23 37 13 13-0199 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles (23 37 13 13-0155)		
Note: Aluminum construction.		
23 37 13 13-0200 EA 12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	237.78	25.23
23 37 13 13-0201 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	267.58	25.23
23 37 13 13-0202 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	320.74	28.03
23 37 13 13-0203 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	373.69	28.03
23 37 13 13-0204 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	488.57	87.60
23 37 13 13-0205 Square Ceiling Return Air And Exhaust Grilles (23 37 13 13-0155)		
Note: Egg crate design, plastic construction.		
23 37 13 13-0206 EA 24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction	49.53	16.77
23 37 13 13-0207 EA 24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction	69.31	16.91
23 37 13 13-0208 Door Grilles Sight Proof Inverted Vee Cross Section (23 37 13 13-0155)		
Note: Painted steel louvers and frame.		
23 37 13 13-0209 EA 12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	135.34	25.23
23 37 13 13-0210 EA 12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	174.86	25.23
23 37 13 13-0211 EA 18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	211.29	26.63
23 37 13 13-0212 EA 24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	280.83	31.82
23 37 13 13-0213 EA 24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	313.78	58.45
23 37 13 13-0214 Stainless Steel Devices (23 37 13 13-0155)		
23 37 13 13-0215 304 Stainless Steel, Louvered Partition/Door Grilles (23 37 13 13-0214)		
23 37 13 13-0216 SF Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille	178.78	21.86
For 316 Stainless Steel, Add	28.47	
23 37 13 13-0217 SF >4 SF, 304 Stainless Steel, Louvered Partition/Door Grille	152.81	21.86
For 316 Stainless Steel, Add	23.27	
23 37 13 13-0218 304 Stainless Steel, Single Deflection Supply Grilles (23 37 13 13-0214)		
23 37 13 13-0219 SF Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille	138.41	21.86
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0220 SF >4 SF, 304 Stainless Steel, Single Deflection Supply Grille	119.52	21.86
For 316 Stainless Steel, Add	16.62	
23 37 13 13-0221 304 Stainless Steel, Double Deflection Supply Grilles (23 37 13 13-0214)		
23 37 13 13-0222 SF Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille	196.84	21.86
For 316 Stainless Steel, Add	32.08	
23 37 13 13-0223 SF >4 SF, 304 Stainless Steel, Double Deflection Supply Grille	169.57	21.86
For 316 Stainless Steel, Add	26.63	
23 37 13 13-0224 304 Stainless Steel Return Grilles (23 37 13 13-0214)		
23 37 13 13-0225 SF Up To 4 SF, 304 Stainless Steel Return Grille	138.41	21.86
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0226 SF >4 SF, 304 Stainless Steel Return Grille	119.52	21.86
For 316 Stainless Steel, Add	16.62	
23 37 13 13-0227 304 Stainless Steel, Louvered Supply/Return Grilles (23 37 13 13-0214)		
23 37 13 13-0228 SF Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille	138.41	21.86
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0229 SF >4 SF, 304 Stainless Steel, Louvered Supply/Return Grille	119.52	21.86
For 316 Stainless Steel, Add	16.62	
23 37 13 13-0230 304 Stainless Steel, Perforated Return Grilles (23 37 13 13-0214)		
23 37 13 13-0231 SF Up To 4 SF, 304 Stainless Steel, Perforated Return Grille	138.41	21.86
For 316 Stainless Steel, Add	20.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0232 SF >4 SF, 304 Stainless Steel, Perforated Return Grille..... <i>For 316 Stainless Steel, Add</i>	114.34 15.58	21.86
23 37 13 13-0233 304 Stainless Steel, Perforated Supply Grilles (23 37 13 13-0214)		
23 37 13 13-0234 SF Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille..... <i>For 316 Stainless Steel, Add</i>	164.97 25.71	21.86
23 37 13 13-0235 SF >4 SF, 304 Stainless Steel, Perforated Supply Grille <i>For 316 Stainless Steel, Add</i>	117.10 16.13	21.86
23 37 13 13-0236 304 Stainless Steel, Door Grilles (23 37 13 13-0214)		
23 37 13 13-0237 SF Up To 4 SF, 304 Stainless Steel, Door Grille..... <i>For 316 Stainless Steel, Add</i>	240.39 40.79	21.86
23 37 13 13-0238 SF >4 SF, 304 Stainless Steel, Door Grille <i>For 316 Stainless Steel, Add</i>	202.63 33.24	21.86
23 37 13 13-0239 304 Stainless Steel, Linear Bar Grilles (23 37 13 13-0214)		
23 37 13 13-0240 SF Up To 4 SF, 304 Stainless Steel, Linear Bar Grille..... <i>For 316 Stainless Steel, Add</i>	303.77 53.47	21.86
23 37 13 13-0241 SF >4 SF, 304 Stainless Steel, Linear Bar Grille..... <i>For 316 Stainless Steel, Add</i>	261.86 45.08	21.86
23 37 13 13-0242 304 Stainless Steel, Hinged Filter Grilles (23 37 13 13-0214)		
23 37 13 13-0243 SF Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille..... <i>For 316 Stainless Steel, Add</i>	226.58 38.03	21.86
23 37 13 13-0244 SF >4 SF, 304 Stainless Steel, Hinged Filter Grille..... <i>For 316 Stainless Steel, Add</i>	160.49 24.81	21.86
23 37 13 13-0245 304 Stainless Steel, Opposed Blade Dampers Grilles (23 37 13 13-0214)		
23 37 13 13-0246 SF Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille..... <i>For 316 Stainless Steel, Add</i>	127.79 18.27	21.86
23 37 13 13-0247 SF Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF..... <i>For 316 Stainless Steel, Add</i>	100.30 12.77	21.86
23 37 13 13-0248 304 Stainless Steel, Plaster Frames Replacement (23 37 13 13-0214)		
Note: For frequent replacement.		
23 37 13 13-0249 SF To 4 SF, 304 Stainless Steel, Plaster Frames Replacement..... <i>For 316 Stainless Steel, Add</i>	102.30 13.17	21.86
23 37 13 13-0250 SF >4 SF, 304 Stainless Steel, Plaster Frames Replacement..... <i>For 316 Stainless Steel, Add</i>	60.16 4.74	21.86
23 37 13 13-0251 304 Stainless Steel, Modular Louvered Ceiling Diffusers (23 37 13 13-0214)		
23 37 13 13-0252 SF Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser..... <i>For 316 Stainless Steel, Add</i>	223.39 37.39	21.86
23 37 13 13-0253 SF >4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser..... <i>For 316 Stainless Steel, Add</i>	177.49 28.21	21.86
23 37 13 13-0254 304 Stainless Steel, Latticed Supply/Return Grilles (23 37 13 13-0214)		
23 37 13 13-0255 SF Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille..... <i>For 316 Stainless Steel, Add</i>	86.36 9.98	21.86
23 37 13 13-0256 SF >4 SF, 304 Stainless Steel, Latticed Supply/Return Grille..... <i>For 316 Stainless Steel, Add</i>	86.36 9.98	21.86
23 37 13 13-0257 Removal And Reinstallation Of Distribution Devices (23 37 13 13)		
Note: Includes storage and cleaning. Excludes ductwork.		
23 37 13 13-0258 EA Removal And Reinstallation Of Variable Air Volume Terminal Unit.....	262.44	
23 37 13 13-0259 EA Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit.....	289.46	
23 37 13 13-0260 EA Removal And Reinstallation Of Lay-in Diffuser/Register/Grille.....	43.38	
23 37 13 13-0261 EA Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille.....	58.76	
23 37 13 43 Security Registers and Grilles (23 37 13)		
23 37 13 43-0001 Security Supply Or Return Grille (23 37 13 43)		
Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.		
23 37 13 43-0002 EA 8" x 4" Steel Security Grille.....	196.55	21.02
<i>For Anchoring Tabs, Add</i>		
<i>For Angle Iron Frame, Add</i>		
<i>For Rear Operated Opposed Blade Damper, Add</i>		
<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>		
<i>For 1" x 1" Square Holes On Face, Add</i>		
<i>For Stainless Steel, Add</i>		
	15.45 27.38 58.28 0.35 38.63 200.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0003	EA		8" x 6" Steel Security Grille	216.67	21.72
			<i>For Anchoring Tabs, Add</i>	17.32	
			<i>For Angle Iron Frame, Add</i>	30.33	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	64.97	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	43.31	
			<i>For Stainless Steel, Add</i>	225.19	
23 37 13 43-0004	EA		8" x 8" Steel Security Grille	248.03	24.53
			<i>For Anchoring Tabs, Add</i>	19.90	
			<i>For Angle Iron Frame, Add</i>	34.75	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	74.55	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	49.74	
			<i>For Stainless Steel, Add</i>	258.66	
23 37 13 43-0005	EA		10" x 4" Steel Security Grille	218.53	23.82
			<i>For Anchoring Tabs, Add</i>	17.09	
			<i>For Angle Iron Frame, Add</i>	30.40	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	64.57	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	42.72	
			<i>For Stainless Steel, Add</i>	222.14	
23 37 13 43-0006	EA		10" x 6" Steel Security Grille	233.05	25.23
			<i>For Anchoring Tabs, Add</i>	18.26	
			<i>For Angle Iron Frame, Add</i>	32.43	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	68.95	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	45.65	
			<i>For Stainless Steel, Add</i>	237.37	
23 37 13 43-0007	EA		10" x 8" Steel Security Grille	265.34	27.33
			<i>For Anchoring Tabs, Add</i>	21.07	
			<i>For Angle Iron Frame, Add</i>	37.07	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	79.20	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	52.67	
			<i>For Stainless Steel, Add</i>	273.88	
23 37 13 43-0008	EA		10" x 10" Steel Security Grille	295.29	29.44
			<i>For Anchoring Tabs, Add</i>	23.64	
			<i>For Angle Iron Frame, Add</i>	41.35	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	88.64	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	59.11	
			<i>For Stainless Steel, Add</i>	307.36	
23 37 13 43-0009	EA		12" x 4" Steel Security Grille	231.17	26.63
			<i>For Anchoring Tabs, Add</i>	17.79	
			<i>For Angle Iron Frame, Add</i>	32.01	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	67.59	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	44.48	
			<i>For Stainless Steel, Add</i>	231.28	
23 37 13 43-0010	EA		12" x 6" Steel Security Grille	257.83	29.44
			<i>For Anchoring Tabs, Add</i>	19.90	
			<i>For Angle Iron Frame, Add</i>	35.73	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	75.53	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	49.74	
			<i>For Stainless Steel, Add</i>	258.66	
23 37 13 43-0011	EA		12" x 8" Steel Security Grille	292.47	31.54
			<i>For Anchoring Tabs, Add</i>	22.94	
			<i>For Angle Iron Frame, Add</i>	40.72	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	86.60	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	57.35	
			<i>For Stainless Steel, Add</i>	298.22	
23 37 13 43-0012	EA		12" x 10" Steel Security Grille	317.74	33.64
			<i>For Anchoring Tabs, Add</i>	25.05	
			<i>For Angle Iron Frame, Add</i>	44.30	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	94.39	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	62.62	
			<i>For Stainless Steel, Add</i>	325.61	
23 37 13 43-0013	EA		12" x 12" Steel Security Grille	350.03	35.74
			<i>For Anchoring Tabs, Add</i>	27.86	
			<i>For Angle Iron Frame, Add</i>	48.93	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	104.64	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	69.64	
			<i>For Stainless Steel, Add</i>	362.13	
23 37 13 43-0014	EA		14" x 4" Steel Security Grille	247.07	28.73
			<i>For Anchoring Tabs, Add</i>	18.96	
			<i>For Angle Iron Frame, Add</i>	34.19	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	72.11	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	47.40	
			<i>For Stainless Steel, Add</i>	246.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0015 EA 14" x 6" Steel Security Grille	277.03	30.83
For Anchoring Tabs, Add	21.54	
For Angle Iron Frame, Add	38.47	
For Rear Operated Opposed Blade Damper, Add	81.54	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	53.84	
For Stainless Steel, Add	279.97	
23 37 13 43-0016 EA 14" x 8" Steel Security Grille	308.38	33.64
For Anchoring Tabs, Add	24.11	
For Angle Iron Frame, Add	42.89	
For Rear Operated Opposed Blade Damper, Add	91.12	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	60.28	
For Stainless Steel, Add	313.44	
23 37 13 43-0017 EA 14" x 10" Steel Security Grille	346.76	36.44
For Anchoring Tabs, Add	27.39	
For Angle Iron Frame, Add	48.37	
For Rear Operated Opposed Blade Damper, Add	103.15	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	68.47	
For Stainless Steel, Add	356.04	
23 37 13 43-0018 EA 14" x 12" Steel Security Grille	381.85	39.95
For Anchoring Tabs, Add	30.20	
For Angle Iron Frame, Add	53.28	
For Rear Operated Opposed Blade Damper, Add	113.68	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	75.49	
For Stainless Steel, Add	392.56	
23 37 13 43-0019 EA 14" x 14" Steel Security Grille	410.87	42.75
For Anchoring Tabs, Add	32.54	
For Angle Iron Frame, Add	57.36	
For Rear Operated Opposed Blade Damper, Add	122.43	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	81.35	
For Stainless Steel, Add	422.99	
23 37 13 43-0020 EA 16" x 6" Steel Security Grille	296.67	33.64
For Anchoring Tabs, Add	22.94	
For Angle Iron Frame, Add	41.14	
For Rear Operated Opposed Blade Damper, Add	87.02	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	57.35	
For Stainless Steel, Add	298.22	
23 37 13 43-0021 EA 16" x 8" Steel Security Grille	337.40	36.44
For Anchoring Tabs, Add	26.45	
For Angle Iron Frame, Add	46.97	
For Rear Operated Opposed Blade Damper, Add	99.87	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	66.13	
For Stainless Steel, Add	343.88	
23 37 13 43-0022 EA 16" x 10" Steel Security Grille	364.06	39.24
For Anchoring Tabs, Add	28.56	
For Angle Iron Frame, Add	50.69	
For Rear Operated Opposed Blade Damper, Add	107.80	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	71.40	
For Stainless Steel, Add	371.25	
23 37 13 43-0023 EA 16" x 12" Steel Security Grille	408.07	41.34
For Anchoring Tabs, Add	32.54	
For Angle Iron Frame, Add	57.08	
For Rear Operated Opposed Blade Damper, Add	122.15	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	81.35	
For Stainless Steel, Add	422.99	
23 37 13 43-0024 EA 16" x 14" Steel Security Grille	432.40	44.15
For Anchoring Tabs, Add	34.41	
For Angle Iron Frame, Add	60.45	
For Rear Operated Opposed Blade Damper, Add	129.27	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	86.03	
For Stainless Steel, Add	447.34	
23 37 13 43-0025 EA 16" x 16" Steel Security Grille	468.44	46.96
For Anchoring Tabs, Add	37.45	
For Angle Iron Frame, Add	65.57	
For Rear Operated Opposed Blade Damper, Add	140.48	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	93.64	
For Stainless Steel, Add	486.90	
23 37 13 43-0026 EA 18" x 6" Steel Security Grille	316.79	37.84
For Anchoring Tabs, Add	24.11	
For Angle Iron Frame, Add	43.73	
For Rear Operated Opposed Blade Damper, Add	91.96	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	60.28	
For Stainless Steel, Add	313.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0027	EA		18" x 8" Steel Security Grille	359.85	40.65
			For Anchoring Tabs, Add	27.86	
			For Angle Iron Frame, Add	49.91	
			For Rear Operated Opposed Blade Damper, Add	105.63	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	69.64	
			For Stainless Steel, Add	362.13	
23 37 13 43-0028	EA		18" x 10" Steel Security Grille	393.54	43.45
			For Anchoring Tabs, Add	30.67	
			For Angle Iron Frame, Add	54.69	
			For Rear Operated Opposed Blade Damper, Add	116.02	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	76.66	
			For Stainless Steel, Add	398.65	
23 37 13 43-0029	EA		18" x 12" Steel Security Grille	431.92	46.25
			For Anchoring Tabs, Add	33.94	
			For Angle Iron Frame, Add	60.16	
			For Rear Operated Opposed Blade Damper, Add	128.05	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	84.86	
			For Stainless Steel, Add	441.25	
23 37 13 43-0030	EA		18" x 14" Steel Security Grille	458.62	45.55
			For Anchoring Tabs, Add	36.75	
			For Angle Iron Frame, Add	64.24	
			For Rear Operated Opposed Blade Damper, Add	137.74	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	91.88	
			For Stainless Steel, Add	477.78	
23 37 13 43-0031	EA		18" x 16" Steel Security Grille	500.27	47.65
			For Anchoring Tabs, Add	40.50	
			For Angle Iron Frame, Add	70.28	
			For Rear Operated Opposed Blade Damper, Add	151.27	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	101.24	
			For Stainless Steel, Add	526.46	
23 37 13 43-0032	EA		18" x 18" Steel Security Grille	534.91	49.75
			For Anchoring Tabs, Add	43.54	
			For Angle Iron Frame, Add	75.26	
			For Rear Operated Opposed Blade Damper, Add	162.34	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	108.85	
			For Stainless Steel, Add	566.02	
23 37 13 43-0033	EA		20" x 6" Steel Security Grille	340.18	41.34
			For Anchoring Tabs, Add	25.75	
			For Angle Iron Frame, Add	46.89	
			For Rear Operated Opposed Blade Damper, Add	98.39	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	64.37	
			For Stainless Steel, Add	334.74	
23 37 13 43-0034	EA		20" x 8" Steel Security Grille	383.71	45.55
			For Anchoring Tabs, Add	29.26	
			For Angle Iron Frame, Add	53.00	
			For Rear Operated Opposed Blade Damper, Add	111.52	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	73.15	
			For Stainless Steel, Add	380.39	
23 37 13 43-0035	EA		20" x 10" Steel Security Grille	420.68	47.65
			For Anchoring Tabs, Add	32.54	
			For Angle Iron Frame, Add	58.34	
			For Rear Operated Opposed Blade Damper, Add	123.41	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	81.35	
			For Stainless Steel, Add	422.99	
23 37 13 43-0036	EA		20" x 12" Steel Security Grille	461.40	50.46
			For Anchoring Tabs, Add	36.05	
			For Angle Iron Frame, Add	64.16	
			For Rear Operated Opposed Blade Damper, Add	136.26	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	90.12	
			For Stainless Steel, Add	468.64	
23 37 13 43-0037	EA		20" x 14" Steel Security Grille	505.40	52.56
			For Anchoring Tabs, Add	40.03	
			For Angle Iron Frame, Add	70.55	
			For Rear Operated Opposed Blade Damper, Add	150.61	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	100.07	
			For Stainless Steel, Add	520.38	
23 37 13 43-0038	EA		20" x 16" Steel Security Grille	544.72	54.66
			For Anchoring Tabs, Add	43.54	
			For Angle Iron Frame, Add	76.24	
			For Rear Operated Opposed Blade Damper, Add	163.32	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	108.85	
			For Stainless Steel, Add	566.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0039 EA 20" x 18" Steel Security Grille	581.69	56.76
For Anchoring Tabs, Add	46.82	
For Angle Iron Frame, Add	81.58	
For Rear Operated Opposed Blade Damper, Add	175.21	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	117.04	
For Stainless Steel, Add	608.62	
23 37 13 43-0040 EA 20" x 20" Steel Security Grille	625.70	58.86
For Anchoring Tabs, Add	50.80	
For Angle Iron Frame, Add	87.97	
For Rear Operated Opposed Blade Damper, Add	189.56	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	126.99	
For Stainless Steel, Add	660.36	
23 37 13 43-0041 EA 24" x 6" Steel Security Grille	378.07	46.25
For Anchoring Tabs, Add	28.56	
For Angle Iron Frame, Add	52.09	
For Rear Operated Opposed Blade Damper, Add	109.20	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	71.40	
For Stainless Steel, Add	371.25	
23 37 13 43-0042 EA 24" x 8" Steel Security Grille	426.28	50.46
For Anchoring Tabs, Add	32.54	
For Angle Iron Frame, Add	58.90	
For Rear Operated Opposed Blade Damper, Add	123.97	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	81.35	
For Stainless Steel, Add	422.99	
23 37 13 43-0043 EA 24" x 10" Steel Security Grille	464.20	51.86
For Anchoring Tabs, Add	36.05	
For Angle Iron Frame, Add	64.44	
For Rear Operated Opposed Blade Damper, Add	136.54	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	90.12	
For Stainless Steel, Add	468.64	
23 37 13 43-0044 EA 24" x 12" Steel Security Grille	519.88	57.46
For Anchoring Tabs, Add	40.50	
For Angle Iron Frame, Add	72.24	
For Rear Operated Opposed Blade Damper, Add	153.23	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	101.24	
For Stainless Steel, Add	526.46	
23 37 13 43-0045 EA 24" x 14" Steel Security Grille	559.19	59.57
For Anchoring Tabs, Add	44.01	
For Angle Iron Frame, Add	77.92	
For Rear Operated Opposed Blade Damper, Add	165.94	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	110.02	
For Stainless Steel, Add	572.10	
23 37 13 43-0046 EA 24" x 16" Steel Security Grille	607.88	61.67
For Anchoring Tabs, Add	48.46	
For Angle Iron Frame, Add	85.02	
For Rear Operated Opposed Blade Damper, Add	181.93	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	121.14	
For Stainless Steel, Add	629.93	
23 37 13 43-0047 EA 24" x 18" Steel Security Grille	663.58	63.77
For Anchoring Tabs, Add	53.61	
For Angle Iron Frame, Add	93.16	
For Rear Operated Opposed Blade Damper, Add	200.37	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	134.02	
For Stainless Steel, Add	696.88	
23 37 13 43-0048 EA 24" x 20" Steel Security Grille	702.88	65.87
For Anchoring Tabs, Add	57.12	
For Angle Iron Frame, Add	98.85	
For Rear Operated Opposed Blade Damper, Add	213.08	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	142.79	
For Stainless Steel, Add	742.52	
23 37 13 43-0049 EA 24" x 24" Steel Security Grille	786.20	70.08
For Anchoring Tabs, Add	64.61	
For Angle Iron Frame, Add	110.92	
For Rear Operated Opposed Blade Damper, Add	240.14	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	161.52	
For Stainless Steel, Add	839.90	
23 37 13 43-0050 Security Registers And Grilles (23 37 13 43)		
23 37 13 43-0051 Maximum Security Steel Supply / Return Registers (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0052 EA 6" x 6" Maximum Security Supply/ Return Register	221.49	15.68
23 37 13 43-0053 EA 9" x 9" Maximum Security Supply/ Return Register	317.70	18.65
23 37 13 43-0054 EA 12" x 6" Maximum Security Supply/ Return Register	297.50	19.58
23 37 13 43-0055 EA 12" x 8" Maximum Security Supply/ Return Register	343.48	22.60

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0056 EA 10" x 10" Maximum Security Supply/ Return Register	321.63	19.58
23 37 13 43-0057 EA 14" x 12" Maximum Security Supply/ Return Register	445.57	27.54
23 37 13 43-0058 EA 14" x 14" Maximum Security Supply/ Return Register	503.63	29.67
23 37 13 43-0059 EA 18" x 18" Maximum Security Supply/ Return Register	671.92	35.26
23 37 13 43-0060 EA 24" x 24" Maximum Security Supply/ Return Registers	960.52	45.07
23 37 13 43-0061 Staff Security Steel Supply Registers (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0062 EA 6" x 6" Staff Security Supply Register	168.41	15.68
23 37 13 43-0063 EA 9" x 9" Staff Security Supply Register	216.36	18.65
23 37 13 43-0064 EA 12" x 12" Staff Security Supply Register	273.66	25.45
23 37 13 43-0065 EA 15" x 15" Staff Security Supply Register	386.91	29.38
23 37 13 43-0066 EA 21" x 21" Staff Security Supply Register	548.54	39.19
23 37 13 43-0067 EA 24" x 24" Staff Security Supply Register	658.92	45.07
23 37 13 43-0068 Staff Security Steel Return Registers (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0069 EA 10" x 4" 12 Gage Flat Steel Plate Staff Security Return Register	213.36	16.95
Note: Perforated with square holes.		
23 37 13 43-0070 EA 6" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	192.54	15.68
Note: Perforated with square holes.		
23 37 13 43-0071 EA 10" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	232.21	17.65
Note: Perforated with square holes.		
23 37 13 43-0072 EA 12" x 5" 12 Gage Flat Steel Plate Staff Security Return Register	237.62	19.07
Note: Perforated with square holes.		
23 37 13 43-0073 EA 12" x 8" 12 Gage Flat Steel Plate Staff Security Return Register	295.23	22.60
Note: Perforated with square holes.		
23 37 13 43-0074 EA 16" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	309.70	22.60
Note: Perforated with square holes.		
23 37 13 43-0075 EA 16" x 8" 12 Gage Flat Steel Plate Staff Security Return Register	344.54	23.45
Note: Perforated with square holes.		
23 37 13 43-0076 EA 12" x 12" 12 Gage Flat Steel Plate Staff Security Return Register	346.05	25.45
Note: Perforated with square holes.		
23 37 13 43-0077 EA 30" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	449.49	28.54
Note: Perforated with square holes.		
23 37 13 43-0078 EA 14" x 12" 12 Gage Flat Steel Plate Staff Security Return Register	385.25	27.54
Note: Perforated with square holes.		
23 37 13 43-0079 EA 28" x 8" 12 Gage Flat Steel Plate Staff Security Return Register	479.50	29.38
Note: Perforated with square holes.		
23 37 13 43-0080 EA 18" x 12" 12 Gage Flat Steel Plate Staff Security Return Register	443.31	29.10
Note: Perforated with square holes.		
23 37 13 43-0081 Maximum Security Steel Grills (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0082 EA 10" x 4" Maximum Security Grill	184.40	16.95
23 37 13 43-0083 EA 6" x 6" Maximum Security Grill	168.41	15.68
23 37 13 43-0084 EA 10" x 6" Maximum Security Grill	198.43	17.65
23 37 13 43-0085 EA 12" x 5" Maximum Security Grill	206.26	19.07
23 37 13 43-0086 EA 12" x 8" Maximum Security Grill	244.56	22.60
23 37 13 43-0087 EA 16" x 8" Maximum Security Grill	281.81	23.45
23 37 13 43-0088 EA 12" x 12" Maximum Security Grill	283.31	25.45
23 37 13 43-0089 EA 14" x 12" Maximum Security Grill	308.04	27.54
23 37 13 43-0090 EA 30" x 6" Maximum Security Grill	377.11	28.54
23 37 13 43-0091 EA 28" x 8" Maximum Security Grill	397.46	29.38
23 37 13 43-0092 EA 18" x 12" Maximum Security Grill	363.69	29.10
23 38 Ventilation Hoods (23 30)		
23 38 13 Commercial-Kitchen Hoods (23 38)		
23 38 13 13 Listed Commercial-Kitchen Hoods (23 38 13)		
23 38 13 13-0001 Universal Ventless Hood (23 38 13 13)		
23 38 13 13-0002 EA 109" Wide x 50" Deep x 102" High, Ventless Exhaust Hood With Stand, (Wells WVU-96)	42,801.21	597.92
23 38 13 16 Standard Commercial-Kitchen Hoods (23 38 13)		
23 38 13 16-0001 Commercial Kitchen Hood Ventilation System (23 38 13 16)		
Note: Excludes fire suppression. See CSI section 21 24 16 00-0000 for fire suppression system, 23 31 13 23-0000 for duct, 23 34 16 00-0108 for exhaust and supply fans.		
23 38 13 16-0002 Dry Filter Exhaust Hoods (23 38 13 16-0001)		
Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.		
23 38 13 16-0003 EA 8' Long x 60" Deep Dry Filter Exhaust Hood	10,733.12	1,121.81
23 38 13 16-0004 EA 8'-6" Long x 60" Deep Dry Filter Exhaust Hood	11,194.89	1,191.93
23 38 13 16-0005 EA 9' Long x 60" Deep Dry Filter Exhaust Hood	12,447.90	1,262.04
23 38 13 16-0006 EA 9'-6" Long x 60" Deep Dry Filter Exhaust Hood	12,843.19	1,332.15
23 38 13 16-0007 EA 10' Long x 60" Deep Dry Filter Exhaust Hood	13,316.13	1,402.27



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 38 13 16-0008	EA			10'-6" Long x 60" Deep Dry Filter Exhaust Hood.....	13,813.35	1,472.38
23 38 13 16-0009	EA			11' Long x 60" Deep Dry Filter Exhaust Hood.....	14,287.14	1,542.49
23 38 13 16-0010	EA			11'-6" Long x 60" Deep Dry Filter Exhaust Hood.....	14,774.40	1,612.60
23 38 13 16-0011	EA			12' Long x 60" Deep Dry Filter Exhaust Hood.....	15,311.73	1,682.72
23 38 13 16-0012	EA			12'-6" Long x 60" Deep Dry Filter Exhaust Hood.....	15,782.00	1,752.84
23 38 13 16-0013	EA			13' Long x 60" Deep Dry Filter Exhaust Hood.....	16,178.64	1,822.95
23 38 13 16-0014	EA			13'-6" Long x 60" Deep Dry Filter Exhaust Hood.....	16,820.71	1,893.06
23 38 13 16-0015	EA			14' Long x 60" Deep Dry Filter Exhaust Hood.....	18,733.24	1,963.17
23 38 13 16-0016	EA			14'-6" Long x 60" Deep Dry Filter Exhaust Hood.....	19,249.07	2,033.28
23 38 13 16-0017	EA			15' Long x 60" Deep Dry Filter Exhaust Hood.....	19,932.02	2,103.39
23 38 13 16-0018	EA			15'-6" Long x 60" Deep Dry Filter Exhaust Hood.....	20,457.73	2,173.52
23 38 13 16-0019	EA			16' Long x 60" Deep Dry Filter Exhaust Hood.....	21,223.27	2,243.63
23 38 13 16-0020	Dry Extractor Exhaust Hoods <small>(23 38 13 16-0001)</small>					
Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.						
23 38 13 16-0021	EA			8' Long x 60" Deep Dry Extractor Exhaust Hood.....	14,774.07	1,121.81
23 38 13 16-0022	EA			8'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	15,261.42	1,191.93
23 38 13 16-0023	EA			9' Long x 60" Deep Dry Extractor Exhaust Hood.....	16,591.16	1,262.04
23 38 13 16-0024	EA			9'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	17,088.75	1,332.15
23 38 13 16-0025	EA			10' Long x 60" Deep Dry Extractor Exhaust Hood.....	17,587.27	1,402.27
23 38 13 16-0026	EA			10'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	18,058.92	1,472.38
23 38 13 16-0027	EA			11' Long x 60" Deep Dry Extractor Exhaust Hood.....	18,558.28	1,542.49
23 38 13 16-0028	EA			11'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	19,032.75	1,612.60
23 38 13 16-0029	EA			12' Long x 60" Deep Dry Extractor Exhaust Hood.....	19,480.57	1,682.72
23 38 13 16-0030	EA			12'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	20,104.29	1,752.84
23 38 13 16-0031	EA			13' Long x 60" Deep Dry Extractor Exhaust Hood.....	20,820.63	1,822.95
23 38 13 16-0032	EA			13'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	21,577.79	1,893.06
23 38 13 16-0033	EA			14' Long x 60" Deep Dry Extractor Exhaust Hood.....	23,119.47	1,963.17
23 38 13 16-0034	EA			14'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	23,891.05	2,033.28
23 38 13 16-0035	EA			15' Long x 60" Deep Dry Extractor Exhaust Hood.....	25,354.07	2,103.39
23 38 13 16-0036	EA			15'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	26,838.86	2,173.52
23 38 13 16-0037	EA			16' Long x 60" Deep Dry Extractor Exhaust Hood.....	28,307.74	2,243.63
23 38 13 16-0038	Single Manifold Water Wash Exhaust Hoods <small>(23 38 13 16-0001)</small>					
Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.						
23 38 13 16-0039	EA			8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	15,797.10	1,121.81
23 38 13 16-0040	EA			8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	16,310.03	1,191.93
23 38 13 16-0041	EA			9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	17,665.34	1,262.04
23 38 13 16-0042	EA			9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	18,175.72	1,332.15
23 38 13 16-0043	EA			10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	18,712.60	1,402.27
23 38 13 16-0044	EA			10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	19,209.82	1,472.38
23 38 13 16-0045	EA			11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	19,721.97	1,542.49
23 38 13 16-0046	EA			11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	20,234.81	1,612.60
23 38 13 16-0047	EA			12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	20,695.41	1,682.72
23 38 13 16-0048	EA			12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	21,370.28	1,752.84
23 38 13 16-0049	EA			13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	22,137.78	1,822.95
23 38 13 16-0050	EA			13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	22,946.08	1,893.06
23 38 13 16-0051	EA			14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	24,538.92	1,963.17
23 38 13 16-0052	EA			14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	25,361.65	2,033.28
23 38 13 16-0053	EA			15' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	26,965.34	2,103.39
23 38 13 16-0054	EA			15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	27,785.16	2,173.52
23 38 13 16-0055	EA			16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	28,601.86	2,243.63
23 38 13 16-0056	EA			Fan Wash Control Panel.....	11,195.25	560.90
Note: Includes time clock and backflow preventer.						
23 38 13 16-0057	Utility Distribution System (UDS) <small>(23 38 13 16-0001)</small>					
Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 1" cold water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.						
23 38 13 16-0058	EA			8' Long UDS.....	26,457.93	570.45
23 38 13 16-0059	EA			8'-6" Long UDS.....	27,236.62	584.33
23 38 13 16-0060	EA			9' Long UDS.....	28,006.76	597.92
23 38 13 16-0061	EA			9'-6" Long UDS.....	28,787.98	616.99
23 38 13 16-0062	EA			10' Long UDS.....	29,561.28	632.14
23 38 13 16-0063	EA			10'-6" Long UDS.....	30,328.03	648.12
23 38 13 16-0064	EA			11' Long UDS.....	31,101.22	659.20
23 38 13 16-0065	EA			11'-6" Long UDS.....	31,878.87	676.60
23 38 13 16-0066	EA			12' Long UDS.....	32,671.03	701.14
23 38 13 16-0067	EA			12'-6" Long UDS.....	33,480.76	734.50
23 38 13 16-0068	EA			13' Long UDS.....	34,266.91	756.10
23 38 13 16-0069	EA			13'-6" Long UDS.....	35,071.61	786.95
23 38 13 16-0070	EA			14' Long UDS.....	35,864.26	811.77
23 38 13 16-0071	EA			14'-6" Long UDS.....	36,660.16	838.28
23 38 13 16-0072	EA			15' Long UDS.....	37,459.64	866.60
23 38 13 16-0073	EA			15'-6" Long UDS.....	38,263.04	896.75
23 38 13 16-0074	EA			16' Long UDS.....	39,048.71	918.20

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 38 Ventilation Hoods



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 38 13 16-0075 Stainless Steel Exhaust Hood Material <small>(23 38 13 16)</small>					
Note: Welded seams.					
23 38 13 16-0076	SF		16 Gauge, Type 304, Stainless Steel Exhaust Hood Material	46.19	17.23
			<i>For Type 316 Stainless Steel, Add</i>	1.05	
23 38 13 16-0077	SF		14 Gauge, Type 304, Stainless Steel Exhaust Hood Material	57.74	22.97
			<i>For Type 316 Stainless Steel, Add</i>	1.31	
23 38 13 16-0078	SF		12 Gauge, Type 304, Stainless Steel Exhaust Hood Material	80.13	31.01
			<i>For Type 316 Stainless Steel, Add</i>	1.83	
23 38 13 16-0079	SF		10 Gauge, Type 304, Stainless Steel Exhaust Hood Material	100.08	37.89
			<i>For Type 316 Stainless Steel, Add</i>	2.35	

23 40 HVAC Air Cleaning Devices (23)

23 41 Particulate Air Filtration (23 40)

23 41 13 Panel Air Filters (23 41)

23 41 13 00-0001 Disposable Air Filters <small>(23 41 13)</small>					
23 41 13 00-0002	EA		Throwaway Glass Or Paper Media Filter, Residential.....	14.33	

23 41 13 00-0003 Disposable Fiberglass Air Filters (23 41 13)

23 41 13 00-0004	EA		8" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.39	6.73
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0005	EA		8" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.39	6.73
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0006	EA		8" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.12	6.73
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0007	EA		10" x 10" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.09	7.04
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0008	EA		10" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.09	7.04
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0009	EA		10" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.09	7.04
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0010	EA		10" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.09	7.04
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0011	EA		10" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.31	7.04
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0012	EA		12" x 12" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.88	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0013	EA		12" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.85	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0014	EA		12" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.22	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0015	EA		12" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.22	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0016	EA		12" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.22	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0017	EA		12" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....	16.69	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0018	EA		12" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5.....	19.51	7.36
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0019	EA		14" x 14" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.98	7.77
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0020	EA		14" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5.....	18.34	7.77
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0021	EA		14" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.07	7.77
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0022	EA		14" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.98	7.77
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0023	EA		14" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.07	7.77
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0024	EA		14" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....	16.83	7.77
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0025	EA		15" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.27	7.99
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0026	EA		15" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.27	7.99
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0027	EA		15" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....	19.39	7.99
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0028	EA		16" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.44	8.10
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0029	EA		16" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5.....	16.97	8.10
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0030	EA		16" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....	15.49	8.10
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0031	EA		16" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	16.40	8.10
			Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0032	EA		16" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.90	8.10
			Note: One-piece kraft fiberboard frame with two metal grids.		



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Cleaning Devices

23 40

Particulate Air Filtration

23 41

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0033 EA 16" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.55	8.10
23 41 13 00-0034 EA 16" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.97	8.10
23 41 13 00-0035 EA 16" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.70	8.10
23 41 13 00-0036 EA 18" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.82	8.41
23 41 13 00-0037 EA 18" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.46	8.41
23 41 13 00-0038 EA 18" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.82	8.41
23 41 13 00-0039 EA 18" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.01	8.41
23 41 13 00-0040 EA 18" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.74	8.41
23 41 13 00-0041 EA 18" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.74	8.41
23 41 13 00-0042 EA 19" x 27" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.65	8.83
23 41 13 00-0043 EA 20" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.88	8.83
23 41 13 00-0044 EA 20" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.00	8.83
23 41 13 00-0045 EA 20" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.27	8.83
23 41 13 00-0046 EA 20" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.75	8.83
23 41 13 00-0047 EA 20" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	23.96	8.83
23 41 13 00-0048 EA 20" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.75	8.83
23 41 13 00-0049 EA 21" x 21" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.93	8.93
23 41 13 00-0050 EA 22" x 22" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.15	9.04
23 41 13 00-0051 EA 24" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.28	9.14
23 41 13 00-0052 EA 24" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.88	9.14
23 41 13 00-0053 EA 24" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.04	9.14
23 41 13 00-0054 EA 25" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.42	9.25
23 41 13 00-0055 EA 25" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.55	9.25
23 41 13 00-0056 EA 10" x 10" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.95	7.04
23 41 13 00-0057 EA 10" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.93	7.04
23 41 13 00-0058 EA 12" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.26	7.36
23 41 13 00-0059 EA 14" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.81	7.77
23 41 13 00-0060 EA 14" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.81	7.77
23 41 13 00-0061 EA 15" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.20	7.99
23 41 13 00-0062 EA 16" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.12	8.10
23 41 13 00-0063 EA 16" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.96	8.10
23 41 13 00-0064 EA 16" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.34	8.10
23 41 13 00-0065 EA 18" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.42	8.41
23 41 13 00-0066 EA 20" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.09	8.83
23 41 13 00-0067 EA 20" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.83	8.83
23 41 13 00-0068 EA 20" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.83	8.83
23 41 13 00-0069 EA 24" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.51	9.14
23 41 13 00-0070 EA 25" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.65	9.25
23 41 13 00-0071 Disposable Pleated Air Filters <small>(23 41 13)</small>		
23 41 13 00-0072 EA 10" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	15.13	7.04
23 41 13 00-0073 EA 10" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.90	7.04
23 41 13 00-0074 EA 10" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.25	7.04
23 41 13 00-0075 EA 12" x 12" x 1" Disposable Pleated Air Filter, MERV 8.....	19.21	7.36
23 41 13 00-0076 EA 12" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	17.95	7.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0077 EA 12" x 24" x 1" Disposable Pleated Air Filter, MERV 8	17.75	7.36
23 41 13 00-0078 EA 12" x 25" x 1" Disposable Pleated Air Filter, MERV 8	17.75	7.36
23 41 13 00-0079 EA 12" x 30" x 1" Disposable Pleated Air Filter, MERV 8	27.68	7.36
23 41 13 00-0080 EA 14" x 14" x 1" Disposable Pleated Air Filter, MERV 8	21.64	7.77
23 41 13 00-0081 EA 14" x 20" x 1" Disposable Pleated Air Filter, MERV 8	18.50	7.77
23 41 13 00-0082 EA 14" x 24" x 1" Disposable Pleated Air Filter, MERV 8	23.24	7.77
23 41 13 00-0083 EA 14" x 25" x 1" Disposable Pleated Air Filter, MERV 8	19.08	7.77
23 41 13 00-0084 EA 14" x 30" x 1" Disposable Pleated Air Filter, MERV 8	26.80	7.77
23 41 13 00-0085 EA 15" x 20" x 1" Disposable Pleated Air Filter, MERV 8	18.90	7.99
23 41 13 00-0086 EA 16" x 16" x 1" Disposable Pleated Air Filter, MERV 8	22.06	8.10
23 41 13 00-0087 EA 16" x 20" x 1" Disposable Pleated Air Filter, MERV 8	18.65	8.10
23 41 13 00-0088 EA 16" x 24" x 1" Disposable Pleated Air Filter, MERV 8	21.52	8.10
23 41 13 00-0089 EA 16" x 25" x 1" Disposable Pleated Air Filter, MERV 8	19.30	8.10
23 41 13 00-0090 EA 16" x 30" x 1" Disposable Pleated Air Filter, MERV 8	27.22	8.10
23 41 13 00-0091 EA 18" x 18" x 1" Disposable Pleated Air Filter, MERV 8	29.07	8.41
23 41 13 00-0092 EA 18" x 20" x 1" Disposable Pleated Air Filter, MERV 8	21.90	8.41
23 41 13 00-0093 EA 18" x 24" x 1" Disposable Pleated Air Filter, MERV 8	21.54	8.41
23 41 13 00-0094 EA 18" x 25" x 1" Disposable Pleated Air Filter, MERV 8	21.29	8.41
23 41 13 00-0095 EA 18" x 30" x 1" Disposable Pleated Air Filter, MERV 8	29.24	8.41
23 41 13 00-0096 EA 20" x 20" x 1" Disposable Pleated Air Filter, MERV 8	20.39	8.83
23 41 13 00-0097 EA 20" x 24" x 1" Disposable Pleated Air Filter, MERV 8	21.69	8.83
23 41 13 00-0098 EA 20" x 25" x 1" Disposable Pleated Air Filter, MERV 8	21.47	8.83
23 41 13 00-0099 EA 20" x 30" x 1" Disposable Pleated Air Filter, MERV 8	24.07	8.83
23 41 13 00-0100 EA 22" x 22" x 1" Disposable Pleated Air Filter, MERV 8	28.96	9.04
23 41 13 00-0101 EA 24" x 24" x 1" Disposable Pleated Air Filter, MERV 8	23.05	9.14
23 41 13 00-0102 EA 24" x 30" x 1" Disposable Pleated Air Filter, MERV 8	35.34	9.14
23 41 13 00-0103 EA 25" x 25" x 1" Disposable Pleated Air Filter, MERV 8	24.32	9.25
23 41 13 00-0104 EA 10" x 20" x 2" Disposable Pleated Air Filter, MERV 8	17.65	7.04
23 41 13 00-0105 EA 12" x 12" x 2" Disposable Pleated Air Filter, MERV 8	22.73	7.36
23 41 13 00-0106 EA 12" x 20" x 2" Disposable Pleated Air Filter, MERV 8	18.50	7.36
23 41 13 00-0107 EA 12" x 24" x 2" Disposable Pleated Air Filter, MERV 8	18.24	7.36
23 41 13 00-0108 EA 14" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.27	7.77
23 41 13 00-0109 EA 14" x 25" x 2" Disposable Pleated Air Filter, MERV 8	20.06	7.77
23 41 13 00-0110 EA 15" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.55	7.99
23 41 13 00-0111 EA 16" x 16" x 2" Disposable Pleated Air Filter, MERV 8	24.25	8.10
23 41 13 00-0112 EA 16" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.21	8.10
23 41 13 00-0113 EA 16" x 24" x 2" Disposable Pleated Air Filter, MERV 8	21.71	8.10
23 41 13 00-0114 EA 16" x 25" x 2" Disposable Pleated Air Filter, MERV 8	20.22	8.10
23 41 13 00-0115 EA 18" x 18" x 2" Disposable Pleated Air Filter, MERV 8	27.83	8.41
23 41 13 00-0116 EA 18" x 20" x 2" Disposable Pleated Air Filter, MERV 8	23.96	8.41
23 41 13 00-0117 EA 18" x 24" x 2" Disposable Pleated Air Filter, MERV 8	21.90	8.41
23 41 13 00-0118 EA 18" x 25" x 2" Disposable Pleated Air Filter, MERV 8	22.69	8.41
23 41 13 00-0119 EA 20" x 20" x 2" Disposable Pleated Air Filter, MERV 8	21.40	8.83
23 41 13 00-0120 EA 20" x 24" x 2" Disposable Pleated Air Filter, MERV 8	22.84	8.83
23 41 13 00-0121 EA 20" x 25" x 2" Disposable Pleated Air Filter, MERV 8	22.59	8.83
23 41 13 00-0122 EA 20" x 30" x 2" Disposable Pleated Air Filter, MERV 8	31.92	8.83
23 41 13 00-0123 EA 24" x 24" x 2" Disposable Pleated Air Filter, MERV 8	24.15	9.14
23 41 13 00-0124 EA 25" x 25" x 2" Disposable Pleated Air Filter, MERV 8	26.54	9.25
23 41 13 00-0125 EA 12" x 24" x 4" Disposable Pleated Air Filter, MERV 8	27.28	7.36
23 41 13 00-0126 EA 16" x 20" x 4" Disposable Pleated Air Filter, MERV 8	29.50	8.10
23 41 13 00-0127 EA 16" x 25" x 4" Disposable Pleated Air Filter, MERV 8	31.44	8.10
23 41 13 00-0128 EA 18" x 24" x 4" Disposable Pleated Air Filter, MERV 8	33.86	8.41
23 41 13 00-0129 EA 20" x 20" x 4" Disposable Pleated Air Filter, MERV 8	32.33	8.83
23 41 13 00-0130 EA 20" x 24" x 4" Disposable Pleated Air Filter, MERV 8	35.05	8.83
23 41 13 00-0131 EA 20" x 25" x 4" Disposable Pleated Air Filter, MERV 8	35.30	8.83
23 41 13 00-0132 EA 24" x 24" x 4" Disposable Pleated Air Filter, MERV 8	38.44	9.14
23 41 13 00-0133 EA 10" x 20" x 1" Disposable Pleated Air Filter, MERV 11	24.87	7.04
23 41 13 00-0134 EA 10" x 24" x 1" Disposable Pleated Air Filter, MERV 11	24.87	7.04
23 41 13 00-0135 EA 10" x 30" x 1" Disposable Pleated Air Filter, MERV 11	31.89	7.04
23 41 13 00-0136 EA 12" x 12" x 1" Disposable Pleated Air Filter, MERV 11	26.35	7.36
23 41 13 00-0137 EA 12" x 20" x 1" Disposable Pleated Air Filter, MERV 11	25.72	7.36
23 41 13 00-0138 EA 12" x 24" x 1" Disposable Pleated Air Filter, MERV 11	25.62	7.36
23 41 13 00-0139 EA 12" x 30" x 1" Disposable Pleated Air Filter, MERV 11	36.08	7.36
23 41 13 00-0140 EA 14" x 14" x 1" Disposable Pleated Air Filter, MERV 11	29.83	7.77
23 41 13 00-0141 EA 14" x 20" x 1" Disposable Pleated Air Filter, MERV 11	26.43	7.77
23 41 13 00-0142 EA 14" x 24" x 1" Disposable Pleated Air Filter, MERV 11	33.74	7.77
23 41 13 00-0143 EA 14" x 25" x 1" Disposable Pleated Air Filter, MERV 11	33.03	7.77
23 41 13 00-0144 EA 14" x 30" x 1" Disposable Pleated Air Filter, MERV 11	38.55	7.77
23 41 13 00-0145 EA 15" x 20" x 1" Disposable Pleated Air Filter, MERV 11	25.46	7.99
23 41 13 00-0146 EA 16" x 16" x 1" Disposable Pleated Air Filter, MERV 11	35.51	8.10
23 41 13 00-0147 EA 16" x 20" x 1" Disposable Pleated Air Filter, MERV 11	23.89	8.10
23 41 13 00-0148 EA 16" x 24" x 1" Disposable Pleated Air Filter, MERV 11	30.41	8.10
23 41 13 00-0149 EA 16" x 25" x 1" Disposable Pleated Air Filter, MERV 11	28.06	8.10
23 41 13 00-0150 EA 16" x 30" x 1" Disposable Pleated Air Filter, MERV 11	36.60	8.10
23 41 13 00-0151 EA 18" x 18" x 1" Disposable Pleated Air Filter, MERV 11	37.47	8.41
23 41 13 00-0152 EA 18" x 20" x 1" Disposable Pleated Air Filter, MERV 11	32.02	8.41
23 41 13 00-0153 EA 18" x 24" x 1" Disposable Pleated Air Filter, MERV 11	29.01	8.41
23 41 13 00-0154 EA 18" x 25" x 1" Disposable Pleated Air Filter, MERV 11	30.83	8.41
23 41 13 00-0155 EA 18" x 30" x 1" Disposable Pleated Air Filter, MERV 11	42.16	8.41
23 41 13 00-0156 EA 20" x 20" x 1" Disposable Pleated Air Filter, MERV 11	29.22	8.83
23 41 13 00-0157 EA 20" x 24" x 1" Disposable Pleated Air Filter, MERV 11	31.91	8.83



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Cleaning Devices	23 40
Particulate Air Filtration	23 41

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0158	EA	20" x 25" x 1" Disposable Pleated Air Filter, MERV 11	32.20	8.83
23 41 13 00-0159	EA	20" x 30" x 1" Disposable Pleated Air Filter, MERV 11	37.21	8.83
23 41 13 00-0160	EA	22" x 22" x 1" Disposable Pleated Air Filter, MERV 11	41.06	9.04
23 41 13 00-0161	EA	24" x 24" x 1" Disposable Pleated Air Filter, MERV 11	34.85	9.14
23 41 13 00-0162	EA	24" x 30" x 1" Disposable Pleated Air Filter, MERV 11	44.69	9.14
23 41 13 00-0163	EA	25" x 25" x 1" Disposable Pleated Air Filter, MERV 11	39.04	9.25
23 41 13 00-0164	EA	10" x 20" x 2" Disposable Pleated Air Filter, MERV 11	25.29	7.04
23 41 13 00-0165	EA	12" x 12" x 2" Disposable Pleated Air Filter, MERV 11	26.63	7.36
23 41 13 00-0166	EA	12" x 20" x 2" Disposable Pleated Air Filter, MERV 11	25.38	7.36
23 41 13 00-0167	EA	12" x 24" x 2" Disposable Pleated Air Filter, MERV 11	29.57	7.36
23 41 13 00-0168	EA	14" x 20" x 2" Disposable Pleated Air Filter, MERV 11	26.72	7.77
23 41 13 00-0169	EA	14" x 25" x 2" Disposable Pleated Air Filter, MERV 11	27.92	7.77
23 41 13 00-0170	EA	15" x 20" x 2" Disposable Pleated Air Filter, MERV 11	27.44	7.99
23 41 13 00-0171	EA	16" x 16" x 2" Disposable Pleated Air Filter, MERV 11	36.22	8.10
23 41 13 00-0172	EA	16" x 20" x 2" Disposable Pleated Air Filter, MERV 11	31.73	8.10
23 41 13 00-0173	EA	16" x 24" x 2" Disposable Pleated Air Filter, MERV 11	30.97	8.10
23 41 13 00-0174	EA	16" x 25" x 2" Disposable Pleated Air Filter, MERV 11	34.87	8.10
23 41 13 00-0175	EA	18" x 18" x 2" Disposable Pleated Air Filter, MERV 11	41.57	8.41
23 41 13 00-0176	EA	18" x 20" x 2" Disposable Pleated Air Filter, MERV 11	33.29	8.41
23 41 13 00-0177	EA	18" x 24" x 2" Disposable Pleated Air Filter, MERV 11	37.77	8.41
23 41 13 00-0178	EA	18" x 25" x 2" Disposable Pleated Air Filter, MERV 11	32.94	8.41
23 41 13 00-0179	EA	20" x 20" x 2" Disposable Pleated Air Filter, MERV 11	36.44	8.83
23 41 13 00-0180	EA	20" x 24" x 2" Disposable Pleated Air Filter, MERV 11	38.93	8.83
23 41 13 00-0181	EA	20" x 25" x 2" Disposable Pleated Air Filter, MERV 11	39.30	8.83
23 41 13 00-0182	EA	24" x 24" x 2" Disposable Pleated Air Filter, MERV 11	39.34	9.14
23 41 13 00-0183	EA	25" x 25" x 2" Disposable Pleated Air Filter, MERV 11	39.85	9.25
23 41 13 00-0184	EA	12" x 24" x 4" Disposable Pleated Air Filter, MERV 11	47.19	7.36
23 41 13 00-0185	EA	16" x 20" x 4" Disposable Pleated Air Filter, MERV 11	48.43	8.10
23 41 13 00-0186	EA	16" x 25" x 4" Disposable Pleated Air Filter, MERV 11	57.38	8.10
23 41 13 00-0187	EA	18" x 24" x 4" Disposable Pleated Air Filter, MERV 11	57.36	8.41
23 41 13 00-0188	EA	20" x 20" x 4" Disposable Pleated Air Filter, MERV 11	57.24	8.83
23 41 13 00-0189	EA	20" x 24" x 4" Disposable Pleated Air Filter, MERV 11	62.86	8.83
23 41 13 00-0190	EA	20" x 25" x 4" Disposable Pleated Air Filter, MERV 11	62.86	8.83
23 41 13 00-0191	EA	24" x 24" x 4" Disposable Pleated Air Filter, MERV 11	70.00	9.14
23 41 13 00-0192	EA	8" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.29	6.73
23 41 13 00-0193	EA	8" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.29	6.73
23 41 13 00-0194	EA	8" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.29	6.73
23 41 13 00-0195	EA	10" x 10" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41 13 00-0196	EA	10" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.40	7.04
23 41 13 00-0197	EA	10" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41 13 00-0198	EA	10" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41 13 00-0199	EA	10" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41 13 00-0200	EA	12" x 12" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.83	7.36
23 41 13 00-0201	EA	12" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.14	7.36
23 41 13 00-0202	EA	12" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.83	7.36
23 41 13 00-0203	EA	12" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.83	7.36
23 41 13 00-0204	EA	12" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.14	7.36
23 41 13 00-0205	EA	12" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.14	7.36
23 41 13 00-0206	EA	12" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.45	7.36
23 41 13 00-0207	EA	14" x 14" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41 13 00-0208	EA	14" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.69	7.77
23 41 13 00-0209	EA	14" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41 13 00-0210	EA	14" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41 13 00-0211	EA	14" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41 13 00-0212	EA	14" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.69	7.77
23 41 13 00-0213	EA	15" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.66	7.99
23 41 13 00-0214	EA	15" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.97	7.99
23 41 13 00-0215	EA	15" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.97	7.99
23 41 13 00-0216	EA	16" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41 13 00-0217	EA	16" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.11	8.10
23 41 13 00-0218	EA	16" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41 13 00-0219	EA	16" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41 13 00-0220	EA	16" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41 13 00-0221	EA	16" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.11	8.10
23 41 13 00-0222	EA	16" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.11	8.10
23 41 13 00-0223	EA	16" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.38	8.10
23 41 13 00-0224	EA	18" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.22	8.41
23 41 13 00-0225	EA	18" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.84	8.41
23 41 13 00-0226	EA	18" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.22	8.41
23 41 13 00-0227	EA	18" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.84	8.41
23 41 13 00-0228	EA	18" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.84	8.41
23 41 13 00-0229	EA	18" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.80	8.41
23 41 13 00-0230	EA	19" x 27" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	35.41	8.83
23 41 13 00-0231	EA	20" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.79	8.83
23 41 13 00-0232	EA	20" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.79	8.83
23 41 13 00-0233	EA	20" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.79	8.83
23 41 13 00-0234	EA	20" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.10	8.83
23 41 13 00-0235	EA	20" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	38.37	8.83
23 41 13 00-0236	EA	20" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	38.37	8.83
23 41 13 00-0237	EA	21" x 21" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	35.55	8.93
23 41 13 00-0238	EA	22" x 22" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.38	9.04

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0239	EA		24" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.14	9.14
23 41 13 00-0240	EA		24" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.14	9.14
23 41 13 00-0241	EA		24" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	41.40	9.14
23 41 13 00-0242	EA		25" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.28	9.25
23 41 13 00-0243	EA		25" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	41.54	9.25
23 41 13 00-0244	EA		30" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	41.82	9.46
23 41 13 00-0245			Carbon Vapor Trap, Disposable V-Bank Filter <small>(23 41 13)</small>		
23 41 13 00-0246	EA		24" x 24" x 12" Thick Carbon Vapor, Disposable V-Bank Filter	767.90	21.02
23 41 13 00-0247			Electrostatic Air Filters With Frame, Element And Busbar <small>(23 41 13)</small>		
23 41 13 00-0248	MF3		Electrostatic Air Filter, High Efficiency Non Supported With Frame, Element And Busbar	68.34	
23 41 13 00-0249	MF3		Electrostatic Air Filter, Medium Efficiency Non Supported With Frame, Element And Busbar.....	66.00	
23 41 13 00-0250	MF3		Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar	2.85	
23 41 16			Renewable-Media Air Filters <small>(23 41)</small>		
23 41 16 00-0001			Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar <small>(23 41 16)</small>		
23 41 16 00-0002	MF3		Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar.....	117.60	
23 41 19			Washable Air Filters <small>(23 41)</small>		
23 41 19 00-0001			Washable Electrostatic Air Filters With Frame, Element And Busbar <small>(23 41 19)</small>		
23 41 19 00-0002	MF3		Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar	44.90	
23 41 33			High-Efficiency Particulate Filtration <small>(23 41)</small>		
23 41 33 00-0001			High Efficiency Particulate Air (HEPA) Filters <small>(23 41 33)</small> Note: Includes particle board and kraft paper frame and separator material. See CSI section 23 41 13 00-0000 for prefilters.		
23 41 33 00-0002			High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-95% <small>(23 41 33 00-0001)</small>		
23 41 33 00-0003	EA		12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 150 CFM, Complete.....	128.30	19.62
			<i>For Removal And Replacement In Existing Equipment, Add</i>	3.92	
			<i>For >10 To 25, Deduct</i>	-3.21	
			<i>For >25 To 50, Deduct</i>	-6.42	
			<i>For >50 To 100, Deduct</i>	-9.62	
			<i>For >100, Deduct</i>	-12.83	
23 41 33 00-0004	EA		24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 375 CFM, Complete.....	169.16	22.43
			<i>For Removal And Replacement In Existing Equipment, Add</i>	4.49	
			<i>For >10 To 25, Deduct</i>	-4.23	
			<i>For >25 To 50, Deduct</i>	-8.46	
			<i>For >50 To 100, Deduct</i>	-12.69	
			<i>For >100, Deduct</i>	-16.92	
23 41 33 00-0005	EA		24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 450 CFM, Complete.....	197.87	25.93
			<i>For Removal And Replacement In Existing Equipment, Add</i>	5.19	
			<i>For >10 To 25, Deduct</i>	-4.95	
			<i>For >25 To 50, Deduct</i>	-9.89	
			<i>For >50 To 100, Deduct</i>	-14.84	
			<i>For >100, Deduct</i>	-19.79	
23 41 33 00-0006	EA		24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 700 CFM, Complete.....	226.58	29.44
			<i>For Removal And Replacement In Existing Equipment, Add</i>	5.89	
			<i>For >10 To 25, Deduct</i>	-5.66	
			<i>For >25 To 50, Deduct</i>	-11.33	
			<i>For >50 To 100, Deduct</i>	-16.99	
			<i>For >100, Deduct</i>	-22.66	
23 41 33 00-0007	EA		12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 250 CFM, Complete.....	155.20	21.02
			<i>For Removal And Replacement In Existing Equipment, Add</i>	4.21	
			<i>For >10 To 25, Deduct</i>	-3.88	
			<i>For >25 To 50, Deduct</i>	-7.76	
			<i>For >50 To 100, Deduct</i>	-11.64	
			<i>For >100, Deduct</i>	-15.52	
23 41 33 00-0008	EA		24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 500 CFM, Complete.....	206.99	24.53
			<i>For Removal And Replacement In Existing Equipment, Add</i>	4.91	
			<i>For >10 To 25, Deduct</i>	-5.17	
			<i>For >25 To 50, Deduct</i>	-10.35	
			<i>For >50 To 100, Deduct</i>	-15.52	
			<i>For >100, Deduct</i>	-20.70	
23 41 33 00-0009	EA		24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 875 CFM, Complete.....	246.91	28.03
			<i>For Removal And Replacement In Existing Equipment, Add</i>	5.61	
			<i>For >10 To 25, Deduct</i>	-6.17	
			<i>For >25 To 50, Deduct</i>	-12.35	
			<i>For >50 To 100, Deduct</i>	-18.52	
			<i>For >100, Deduct</i>	-24.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0010 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 1,000 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	293.84 7.01 -7.35 -14.69 -22.04 -29.38	35.04
23 41 33 00-0011 High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-99.99% <small>(23 41 33 00-0001)</small>		
23 41 33 00-0012 EA 12" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	110.20 3.50 -2.76 -5.51 -8.27 -11.02	17.52
23 41 33 00-0013 EA 24" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	151.27 4.21 -3.78 -7.56 -11.35 -15.13	21.02
23 41 33 00-0014 EA 24" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	228.51 4.91 -5.71 -11.43 -17.14 -22.85	24.53
23 41 33 00-0015 EA 36" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	292.44 5.61 -7.31 -14.62 -21.93 -29.24	28.03
23 41 33 00-0016 EA 8" x 8" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	103.12 2.80 -2.58 -5.16 -7.73 -10.31	14.02
23 41 33 00-0017 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 150 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	136.80 3.78 -3.42 -6.84 -10.26 -13.68	18.92
23 41 33 00-0018 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 325 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	182.98 4.49 -4.57 -9.15 -13.72 -18.30	22.43
23 41 33 00-0019 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 550 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	214.79 5.26 -5.37 -10.74 -16.11 -21.48	26.28
23 41 33 00-0020 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	245.21 5.89 -6.13 -12.26 -18.39 -24.52	29.44
23 41 33 00-0021 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 250 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	167.77 4.21 -4.19 -8.39 -12.58 -16.78	21.02
23 41 33 00-0022 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 500 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	224.54 4.91 -5.61 -11.23 -16.84 -22.45	24.53
23 41 33 00-0023 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete <i>For Removal And Replacement In Existing Equipment, Add</i> <i>For >10 To 25, Deduct</i> <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	268.12 5.61 -6.70 -13.41 -20.11 -26.81	28.03

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0024	EA		24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete.....	330.53	35.04
			<i>For Removal And Replacement In Existing Equipment, Add</i>	7.01	
			<i>For >10 To 25, Deduct</i>	-8.26	
			<i>For >25 To 50, Deduct</i>	-16.53	
			<i>For >50 To 100, Deduct</i>	-24.79	
			<i>For >100, Deduct</i>	-33.05	
23 41 33 00-0025			High Efficiency Particulate Air (HEPA) Filter Housings, 14 Gauge Galvanized Sheet Metal ^(23 41 33)		
			Note: Nominal sizes.		
23 41 33 00-0026	EA		12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	335.30	104.54
23 41 33 00-0027	EA		24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	630.52	207.78
23 41 33 00-0028	EA		24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	639.11	207.78
23 41 33 00-0029	EA		24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	644.83	207.78
23 41 33 00-0030	EA		24" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	684.90	207.78
23 41 33 00-0031	EA		24" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	734.99	207.78
23 41 33 00-0032	EA		48" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,226.69	416.87
23 41 33 00-0033	EA		48" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,348.34	416.87
23 41 33 00-0034	EA		48" x 96" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,502.90	416.87
23 41 33 00-0035	EA		12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	359.63	104.54
23 41 33 00-0036	EA		24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	672.02	207.78
23 41 33 00-0037	EA		24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	682.04	207.78
23 41 33 00-0038	EA		24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	689.19	207.78
23 41 33 00-0039	EA		24" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	736.42	207.78
23 41 33 00-0040	EA		24" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	799.39	207.78
23 41 33 00-0041	EA		48" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,326.87	416.87
23 41 33 00-0042	EA		48" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,478.57	416.87
23 41 33 00-0043	EA		48" x 96" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,670.34	416.87
23 41 33 00-0044			Filter, Bag Type, 90-95% Efficiency ^(23 41 33)		
23 41 33 00-0045	EA		0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency	313.70	135.51
23 41 33 00-0046	EA		1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency	353.75	135.51
23 41 33 00-0047			Filter, Bag Type, 80-85% Efficiency ^(23 41 33)		
23 41 33 00-0048	EA		0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency	309.11	135.51
23 41 33 00-0049	EA		1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency	338.65	135.51
23 42 Gas-Phase Air Filtration ^(23 40)					
23 42 13 Activated-Carbon Air Filtration ^(23 42)					
23 42 13 00-0001	EA		12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter	46.24	10.51
23 42 13 00-0002	EA		16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter	46.74	10.51
23 42 13 00-0003	EA		16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter	47.04	10.51
23 42 13 00-0004	EA		20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter	47.04	10.51
23 42 13 00-0005	EA		20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter	50.80	10.51
23 42 13 00-0006	EA		24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter	56.97	10.51
23 42 13 00-0007	EA		12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter	58.10	11.92
23 42 13 00-0008	EA		16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter	58.52	11.92
23 42 13 00-0009	EA		16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter	58.88	11.92
23 42 13 00-0010	EA		20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter	58.88	11.92
23 42 13 00-0011	EA		20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter	63.03	11.92
23 42 13 00-0012	EA		24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter	74.59	11.92
23 42 13 00-0013	EA		16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter	29.07	10.51
23 42 13 00-0014	EA		16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter	30.85	10.51
23 42 13 00-0015	EA		20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter	30.92	10.51
23 42 13 00-0016	EA		20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter	33.26	10.51
23 42 13 00-0017	EA		24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter	35.33	10.51
23 42 13 00-0018	EA		16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter	33.60	11.92
23 42 13 00-0019	EA		16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter	36.71	11.92
23 42 13 00-0020	EA		20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter	37.37	11.92
23 42 13 00-0021	EA		20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter	41.23	11.92
23 42 13 00-0022	EA		24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter	43.69	11.92
23 42 13 00-0023	EA		24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter	70.50	12.61
23 43 Electronic Air Cleaners ^(23 40)					
23 43 23 Self-Contained Electronic Air Cleaners ^(23 43)					
23 43 23 00-0001			Stationary Floor, Room Air Purifier ^(23 43 23)		
23 43 23 00-0002	EA		Stationary Floor Room Air Purifier, Up to 390 SF (Blueair Pro M)	929.30	
23 43 23 00-0003	EA		Stationary Floor Room Air Purifier, Up to 780 SF (Blueair Pro L)	1,293.13	
23 43 23 00-0004	EA		Stationary Floor Room Air Purifier, Up to 1,180 SF (Blueair Pro XL)	3,268.22	
23 43 23 00-0005	EA		Stationary Floor Room Air Purifier, Up to 550 SF (Delos Compact)	733.10	
23 43 23 00-0006	EA		Stationary Floor Room Air Purifier, Up to 1,125 SF (Delos 468 Ultrafine)	1,317.83	
23 43 23 00-0007	EA		Stationary Floor Room Air Purifier, Up to 3,500 SF (Delos 980P Commercial)	5,216.03	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 43 23 00-0008			Surface Mounted, Room Air Purifier <small>(23 43 23)</small>		
	23 43 23 00-0009	EA	Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F114A1067)	2,544.41	
	23 43 23 00-0010	EA	Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F115A1064)	3,484.46	
	23 43 23 00-0011	EA	Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F111A1063W-3S)	3,963.35	
23 43 23 00-0012			Suspension Ceiling Mounted, Room Air Purifier <small>(23 43 23)</small>		
	23 43 23 00-0013	EA	2' x 4' Suspension Ceiling Mounted, Air Purification System (Armstrong VidaShield UV24)	3,208.32	
23 50 Central Heating Equipment <small>(23)</small>					
Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.					
23 51 Breechings, Chimneys, and Stacks <small>(23 50)</small>					
23 51 13 Draft Control Devices <small>(23 51)</small>					
23 51 13 13 Draft-Induction Fans <small>(23 51 13)</small>					
23 51 13 13-0001 Vertical Discharge Fans <small>(23 51 13 13)</small>					
Note: Includes chimney adapter. Excludes wiring.					
23 51 13 13-0002 Axial Vane Vertical Discharge Fans <small>(23 51 13 13-0001)</small>					
	23 51 13 13-0003	EA	450 CFM Vertical Discharge Chimney Fan, Axial Vane.....	2,715.01	283.93
	23 51 13 13-0004	EA	950 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,069.70	309.74
	23 51 13 13-0005	EA	1,400 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,664.63	342.01
	23 51 13 13-0006	EA	1,800 CFM Vertical Discharge Chimney Fan, Axial Vane.....	4,755.43	396.86
23 51 13 13-0007 Centrifugal Impeller Vertical Discharge Fans <small>(23 51 13 13-0001)</small>					
	23 51 13 13-0008	EA	700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	3,242.42	309.74
	23 51 13 13-0009	EA	1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	3,929.99	342.01
	23 51 13 13-0010	EA	2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,073.47	400.08
	23 51 13 13-0011	EA	3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,991.22	448.48
23 51 13 13-0012 Accessories For Vertical Discharge Fans <small>(23 51 13 13-0001)</small>					
	23 51 13 13-0013	EA	Modulating Fan Controller And Sensor.....	420.93	96.79
23 51 13 16 Vent Dampers <small>(23 51 13)</small>					
23 51 13 16-0001 Flue Shutter Draft Control Damper, Parallel Blade <small>(23 51 13 16)</small>					
	23 51 13 16-0002	EA	3" Round Flue Shutter Draft Control Damper	861.52	57.31
	23 51 13 16-0003	EA	4" Round Flue Shutter Draft Control Damper	942.72	60.79
	23 51 13 16-0004	EA	5" Round Flue Shutter Draft Control Damper	1,038.39	64.53
	23 51 13 16-0005	EA	6" Round Flue Shutter Draft Control Damper	1,109.28	68.82
	23 51 13 16-0006	EA	7" Round Flue Shutter Draft Control Damper	1,209.81	73.72
	23 51 13 16-0007	EA	8" Round Flue Shutter Draft Control Damper	1,286.18	79.37
	23 51 13 16-0008	EA	10" Round Flue Shutter Draft Control Damper	1,420.42	86.06
	23 51 13 16-0009	EA	12" Round Flue Shutter Draft Control Damper	1,559.13	93.85
	23 51 13 16-0010	EA	14" Round Flue Shutter Draft Control Damper	1,739.14	98.41
	23 51 13 16-0011	EA	16" Round Flue Shutter Draft Control Damper	1,866.02	103.24
	23 51 13 16-0012	EA	18" Round Flue Shutter Draft Control Damper	2,034.63	108.41
	23 51 13 16-0013	EA	20" Round Flue Shutter Draft Control Damper	2,448.87	171.65
	23 51 13 16-0014	EA	22" Round Flue Shutter Draft Control Damper	2,679.87	182.30
	23 51 13 16-0015	EA	24" Round Flue Shutter Draft Control Damper	2,900.13	193.59
	23 51 13 16-0016	EA	26" Round Flue Shutter Draft Control Damper	2,952.58	200.05
	23 51 13 16-0017	EA	28" Round Flue Shutter Draft Control Damper	3,045.71	206.50
	23 51 13 16-0018	EA	30" Round Flue Shutter Draft Control Damper	3,137.74	219.40
	23 51 13 16-0019	EA	32" Round Flue Shutter Draft Control Damper	3,271.37	225.71
	23 51 13 16-0020	EA	34" Round Flue Shutter Draft Control Damper	3,416.71	238.61
	23 51 13 16-0021	EA	36" Round Flue Shutter Draft Control Damper	3,588.59	258.12
	23 51 13 16-0022	EA	38" Round Flue Shutter Draft Control Damper	3,766.03	266.98
	23 51 13 16-0023	EA	40" Round Flue Shutter Draft Control Damper	3,925.64	271.03
	23 51 13 16-0024	EA	42" Round Flue Shutter Draft Control Damper	4,118.06	283.93
	23 51 13 16-0025	EA	44" Round Flue Shutter Draft Control Damper	4,311.51	296.84
	23 51 13 16-0026	EA	46" Round Flue Shutter Draft Control Damper	4,505.48	309.74
	23 51 13 16-0027	EA	48" Round Flue Shutter Draft Control Damper	4,698.66	322.65
23 51 13 19 Barometric Dampers <small>(23 51 13)</small>					
23 51 13 19-0001 Barometric Dampers <small>(23 51 13 19)</small>					
	23 51 13 19-0002	EA	6" x 6" Barometric Damper	380.83	11.20
	23 51 13 19-0003	EA	12" x 12" Barometric Damper	549.83	15.40
	23 51 13 19-0004	EA	18" x 18" Barometric Damper	741.07	23.79
	23 51 13 19-0005	EA	24" x 24" Barometric Damper	905.96	44.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 13 19-0006 EA 6" Diameter Barometric Damper	193.20	11.20
For Stainless Steel, Add	194.69	
23 51 13 19-0007 EA 7" Diameter Barometric Damper	228.31	12.59
For Stainless Steel, Add	231.30	
23 51 13 19-0008 EA 8" Diameter Barometric Damper	264.93	13.99
For Stainless Steel, Add	268.23	
23 51 13 19-0009 EA 9" Diameter Barometric Damper	322.95	13.99
For Stainless Steel, Add	339.78	
23 51 13 19-0010 EA 10" Diameter Barometric Damper	420.69	16.80
For Stainless Steel, Add	462.92	
23 51 13 19-0011 EA 12" Diameter Barometric Damper	531.25	18.20
For Stainless Steel, Add	597.04	
23 51 13 19-0012 EA 14" Diameter Barometric Damper	664.46	19.60
For Stainless Steel, Add	761.44	
23 51 13 19-0013 EA 15" Diameter Barometric Damper	790.86	20.99
For Stainless Steel, Add	915.19	
23 51 13 19-0014 EA 16" Diameter Barometric Damper	915.31	23.79
For Stainless Steel, Add	1,068.60	
23 51 13 19-0015 EA 18" Diameter Barometric Damper	1,199.00	25.20
For Stainless Steel, Add	1,427.69	
23 51 13 19-0016 EA 20" Diameter Barometric Damper	1,424.07	28.00
For Stainless Steel, Add	1,708.89	
23 51 13 19-0017 EA 24" Diameter Barometric Damper	1,711.93	28.00
For Stainless Steel, Add	2,076.63	
23 51 13 19-0018 EA 30" Diameter Barometric Damper	2,106.10	32.19
For Stainless Steel, Add	2,574.16	
23 51 13 19-0019 EA 36" Diameter Barometric Damper	2,678.47	33.59
For Stainless Steel, Add	3,309.63	

23 51 16 Fabricated Breechings and Accessories (23 51)**23 51 16 00-0001 Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)****23 51 16 00-0002 Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)**

23 51 16 00-0003 LF 3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	33.84	11.48
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.29	
For 304 Stainless Steel Liner, Add	0.39	
For 2" Wall Instead Of 1", Add	4.42	
For 3" To 4" Wall Instead Of 1", Add	8.07	
23 51 16 00-0004 LF 4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	35.96	12.14
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.35	
For 304 Stainless Steel Liner, Add	0.48	
For 2" Wall Instead Of 1", Add	4.87	
For 3" To 4" Wall Instead Of 1", Add	8.78	
23 51 16 00-0005 LF 5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	39.47	12.91
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.41	
For 304 Stainless Steel Liner, Add	0.57	
For 2" Wall Instead Of 1", Add	5.46	
For 3" To 4" Wall Instead Of 1", Add	9.78	
23 51 16 00-0006 LF 6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	42.79	13.81
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.48	
For 304 Stainless Steel Liner, Add	0.66	
For 2" Wall Instead Of 1", Add	6.03	
For 3" To 4" Wall Instead Of 1", Add	10.75	
23 51 16 00-0007 LF 7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	48.98	14.71
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.71	
For 304 Stainless Steel Liner, Add	0.97	
For 2" Wall Instead Of 1", Add	7.48	
For 3" To 4" Wall Instead Of 1", Add	13.02	
23 51 16 00-0008 LF 8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	54.43	15.88
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.79	
For 304 Stainless Steel Liner, Add	1.08	
For 2" Wall Instead Of 1", Add	8.32	
For 3" To 4" Wall Instead Of 1", Add	14.48	
23 51 16 00-0009 LF 10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	73.67	17.04
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	1.67	
For 304 Stainless Steel Liner, Add	2.28	
For 2" Wall Instead Of 1", Add	13.44	
For 3" To 4" Wall Instead Of 1", Add	22.32	
23 51 16 00-0010 LF 12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	87.69	18.85
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	2.24	
For 304 Stainless Steel Liner, Add	3.05	
For 2" Wall Instead Of 1", Add	16.91	
For 3" To 4" Wall Instead Of 1", Add	27.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0011 LF 14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	117.53	19.61
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	3.76	
<i>For 304 Stainless Steel Liner, Add</i>	5.13	
<i>For 2" Wall Instead Of 1", Add</i>	25.43	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	40.60	
23 51 16 00-0012 LF 16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	143.57	20.65
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	5.07	
<i>For 304 Stainless Steel Liner, Add</i>	6.91	
<i>For 2" Wall Instead Of 1", Add</i>	32.79	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	51.76	
23 51 16 00-0013 LF 18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	173.83	21.69
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	6.55	
<i>For 304 Stainless Steel Liner, Add</i>	8.93	
<i>For 2" Wall Instead Of 1", Add</i>	41.20	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	64.53	
23 51 16 00-0014 LF 20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	226.36	34.45
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	7.77	
<i>For 304 Stainless Steel Liner, Add</i>	10.60	
<i>For 2" Wall Instead Of 1", Add</i>	50.90	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	80.61	
23 51 16 00-0015 LF 22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	270.05	36.40
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	9.80	
<i>For 304 Stainless Steel Liner, Add</i>	13.37	
<i>For 2" Wall Instead Of 1", Add</i>	62.65	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	98.56	
23 51 16 00-0016 LF 24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	317.27	38.72
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	12.08	
<i>For 304 Stainless Steel Liner, Add</i>	16.48	
<i>For 2" Wall Instead Of 1", Add</i>	75.67	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	118.38	
23 51 16 00-0017 LF 26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	364.13	40.01
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	14.53	
<i>For 304 Stainless Steel Liner, Add</i>	19.82	
<i>For 2" Wall Instead Of 1", Add</i>	89.26	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	138.89	
23 51 16 00-0018 LF 28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	381.28	41.30
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	15.29	
<i>For 304 Stainless Steel Liner, Add</i>	20.86	
<i>For 2" Wall Instead Of 1", Add</i>	93.74	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	145.77	
23 51 16 00-0019 LF 30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	405.47	44.27
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
<i>For Aluminum Liner, Add</i>	16.22	
<i>For 304 Stainless Steel Liner, Add</i>	22.12	
<i>For 2" Wall Instead Of 1", Add</i>	99.54	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	154.84	
23 51 16 00-0020 LF 32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	455.67	45.95
<i>For Aluminum Liner, Add</i>	18.76	
<i>For 304 Stainless Steel Liner, Add</i>	25.58	
<i>For 2" Wall Instead Of 1", Add</i>	113.78	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	176.40	
23 51 16 00-0021 LF 34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	507.69	47.63
<i>For Aluminum Liner, Add</i>	21.38	
<i>For 304 Stainless Steel Liner, Add</i>	29.15	
<i>For 2" Wall Instead Of 1", Add</i>	128.51	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	198.71	
23 51 16 00-0022 LF 36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	533.95	49.56
<i>For Aluminum Liner, Add</i>	22.56	
<i>For 304 Stainless Steel Liner, Add</i>	30.76	
<i>For 2" Wall Instead Of 1", Add</i>	135.43	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	209.34	
23 51 16 00-0023 LF 38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	577.50	51.62
<i>For Aluminum Liner, Add</i>	24.67	
<i>For 304 Stainless Steel Liner, Add</i>	33.65	
<i>For 2" Wall Instead Of 1", Add</i>	147.47	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	227.65	
23 51 16 00-0024 LF 40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	633.90	53.82
<i>For Aluminum Liner, Add</i>	27.46	
<i>For 304 Stainless Steel Liner, Add</i>	37.45	
<i>For 2" Wall Instead Of 1", Add</i>	163.25	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	251.60	
23 51 16 00-0025 LF 42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	663.18	56.27
<i>For Aluminum Liner, Add</i>	28.73	
<i>For 304 Stainless Steel Liner, Add</i>	39.18	
<i>For 2" Wall Instead Of 1", Add</i>	170.79	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	263.22	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0026	LF		44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	731.32	58.98
			<i>For Aluminum Liner, Add</i>	32.11	
			<i>For 304 Stainless Steel Liner, Add</i>	43.78	
			<i>For 2" Wall Instead Of 1", Add</i>	189.89	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	292.21	
23 51 16 00-0027	LF		46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	792.45	61.95
			<i>For Aluminum Liner, Add</i>	35.07	
			<i>For 304 Stainless Steel Liner, Add</i>	47.82	
			<i>For 2" Wall Instead Of 1", Add</i>	206.76	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	317.88	
23 51 16 00-0028	LF		48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	869.39	65.18
			<i>For Aluminum Liner, Add</i>	38.87	
			<i>For 304 Stainless Steel Liner, Add</i>	53.00	
			<i>For 2" Wall Instead Of 1", Add</i>	228.28	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	350.55	
23 51 16 00-0029			90 Degree Elbows <small>(23 51 16 00-0001)</small>		
23 51 16 00-0030	EA		3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	80.70	22.97
			<i>For Aluminum Liner, Add</i>	1.31	
			<i>For 304 Stainless Steel Liner, Add</i>	1.79	
			<i>For 2" Wall Instead Of 1", Add</i>	12.83	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	22.09	
23 51 16 00-0031	EA		4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	88.60	24.26
			<i>For Aluminum Liner, Add</i>	1.54	
			<i>For 304 Stainless Steel Liner, Add</i>	2.11	
			<i>For 2" Wall Instead Of 1", Add</i>	14.48	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	24.74	
23 51 16 00-0032	EA		5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	97.77	25.81
			<i>For Aluminum Liner, Add</i>	1.84	
			<i>For 304 Stainless Steel Liner, Add</i>	2.52	
			<i>For 2" Wall Instead Of 1", Add</i>	16.49	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.94	
23 51 16 00-0033	EA		6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	107.26	27.49
			<i>For Aluminum Liner, Add</i>	2.14	
			<i>For 304 Stainless Steel Liner, Add</i>	2.92	
			<i>For 2" Wall Instead Of 1", Add</i>	18.52	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	31.20	
23 51 16 00-0034	EA		7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	125.29	29.42
			<i>For Aluminum Liner, Add</i>	2.87	
			<i>For 304 Stainless Steel Liner, Add</i>	3.91	
			<i>For 2" Wall Instead Of 1", Add</i>	22.96	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	38.09	
23 51 16 00-0035	EA		8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	144.66	31.75
			<i>For Aluminum Liner, Add</i>	3.59	
			<i>For 304 Stainless Steel Liner, Add</i>	4.90	
			<i>For 2" Wall Instead Of 1", Add</i>	27.52	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	45.25	
23 51 16 00-0036	EA		10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	236.47	34.45
			<i>For Aluminum Liner, Add</i>	8.26	
			<i>For 304 Stainless Steel Liner, Add</i>	11.26	
			<i>For 2" Wall Instead Of 1", Add</i>	53.68	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	84.84	
23 51 16 00-0037	EA		12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	283.17	37.55
			<i>For Aluminum Liner, Add</i>	10.41	
			<i>For 304 Stainless Steel Liner, Add</i>	14.20	
			<i>For 2" Wall Instead Of 1", Add</i>	66.19	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	103.97	
23 51 16 00-0038	EA		14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	360.16	39.37
			<i>For Aluminum Liner, Add</i>	14.40	
			<i>For 304 Stainless Steel Liner, Add</i>	19.64	
			<i>For 2" Wall Instead Of 1", Add</i>	88.38	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	137.49	
23 51 16 00-0039	EA		16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	437.35	41.30
			<i>For Aluminum Liner, Add</i>	18.39	
			<i>For 304 Stainless Steel Liner, Add</i>	25.07	
			<i>For 2" Wall Instead Of 1", Add</i>	110.60	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	171.05	
23 51 16 00-0040	EA		18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	557.99	43.49
			<i>For Aluminum Liner, Add</i>	24.71	
			<i>For 304 Stainless Steel Liner, Add</i>	33.69	
			<i>For 2" Wall Instead Of 1", Add</i>	145.64	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	223.90	
23 51 16 00-0041	EA		20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	792.45	68.79
			<i>For Aluminum Liner, Add</i>	34.12	
			<i>For 304 Stainless Steel Liner, Add</i>	46.52	
			<i>For 2" Wall Instead Of 1", Add</i>	203.30	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	313.56	
23 51 16 00-0042	EA		22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,031.09	72.91
			<i>For Aluminum Liner, Add</i>	46.68	
			<i>For 304 Stainless Steel Liner, Add</i>	63.66	
			<i>For 2" Wall Instead Of 1", Add</i>	272.87	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	418.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0043	EA		24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,160.12	77.43
			For Aluminum Liner, Add	53.15	
			For 304 Stainless Steel Liner, Add	72.47	
			For 2" Wall Instead Of 1", Add	309.28	
			For 3" To 4" Wall Instead Of 1", Add	473.61	
23 51 16 00-0044			45 Degree Elbows <small>(23 51 16 00-0001)</small>		
23 51 16 00-0045	EA		3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	71.01	22.97
			For Aluminum Liner, Add	0.75	
			For 304 Stainless Steel Liner, Add	1.03	
			For 2" Wall Instead Of 1", Add	9.84	
			For 3" To 4" Wall Instead Of 1", Add	17.63	
23 51 16 00-0046	EA		4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	76.95	24.26
			For Aluminum Liner, Add	0.89	
			For 304 Stainless Steel Liner, Add	1.21	
			For 2" Wall Instead Of 1", Add	10.93	
			For 3" To 4" Wall Instead Of 1", Add	19.43	
23 51 16 00-0047	EA		5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	83.56	25.81
			For Aluminum Liner, Add	1.05	
			For 304 Stainless Steel Liner, Add	1.43	
			For 2" Wall Instead Of 1", Add	12.16	
			For 3" To 4" Wall Instead Of 1", Add	21.47	
23 51 16 00-0048	EA		6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	91.58	27.49
			For Aluminum Liner, Add	1.25	
			For 304 Stainless Steel Liner, Add	1.71	
			For 2" Wall Instead Of 1", Add	13.71	
			For 3" To 4" Wall Instead Of 1", Add	24.01	
23 51 16 00-0049	EA		7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	106.37	29.42
			For Aluminum Liner, Add	1.80	
			For 304 Stainless Steel Liner, Add	2.45	
			For 2" Wall Instead Of 1", Add	17.17	
			For 3" To 4" Wall Instead Of 1", Add	29.44	
23 51 16 00-0050	EA		8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	116.91	31.75
			For Aluminum Liner, Add	2.06	
			For 304 Stainless Steel Liner, Add	2.82	
			For 2" Wall Instead Of 1", Add	19.20	
			For 3" To 4" Wall Instead Of 1", Add	32.77	
23 51 16 00-0051	EA		10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	179.93	34.45
			For Aluminum Liner, Add	5.16	
			For 304 Stainless Steel Liner, Add	7.04	
			For 2" Wall Instead Of 1", Add	36.77	
			For 3" To 4" Wall Instead Of 1", Add	59.45	
23 51 16 00-0052	EA		12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	212.18	37.55
			For Aluminum Liner, Add	6.51	
			For 304 Stainless Steel Liner, Add	8.88	
			For 2" Wall Instead Of 1", Add	44.89	
			For 3" To 4" Wall Instead Of 1", Add	72.02	
23 51 16 00-0053	EA		14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	264.87	39.37
			For Aluminum Liner, Add	9.16	
			For 304 Stainless Steel Liner, Add	12.49	
			For 2" Wall Instead Of 1", Add	59.79	
			For 3" To 4" Wall Instead Of 1", Add	94.60	
23 51 16 00-0054	EA		16" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	312.15	41.30
			For Aluminum Liner, Add	11.49	
			For 304 Stainless Steel Liner, Add	15.67	
			For 2" Wall Instead Of 1", Add	73.00	
			For 3" To 4" Wall Instead Of 1", Add	114.67	
23 51 16 00-0055	EA		18" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	389.44	43.49
			For Aluminum Liner, Add	15.44	
			For 304 Stainless Steel Liner, Add	21.06	
			For 2" Wall Instead Of 1", Add	95.10	
			For 3" To 4" Wall Instead Of 1", Add	148.08	
23 51 16 00-0056	EA		20" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	488.29	68.66
			For Aluminum Liner, Add	17.42	
			For 304 Stainless Steel Liner, Add	23.75	
			For 2" Wall Instead Of 1", Add	112.16	
			For 3" To 4" Wall Instead Of 1", Add	176.83	
23 51 16 00-0057	EA		22" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	658.92	72.91
			For Aluminum Liner, Add	26.21	
			For 304 Stainless Steel Liner, Add	35.75	
			For 2" Wall Instead Of 1", Add	161.22	
			For 3" To 4" Wall Instead Of 1", Add	250.94	
23 51 16 00-0058	EA		24" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	797.41	77.43
			For Aluminum Liner, Add	33.22	
			For 304 Stainless Steel Liner, Add	45.30	
			For 2" Wall Instead Of 1", Add	200.53	
			For 3" To 4" Wall Instead Of 1", Add	310.47	
23 51 16 00-0059	EA		26" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,391.50	80.02
			For Aluminum Liner, Add	65.54	
			For 304 Stainless Steel Liner, Add	89.37	
			For 2" Wall Instead Of 1", Add	377.47	
			For 3" To 4" Wall Instead Of 1", Add	576.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, and Stacks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0060 EA 28" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,430.60	82.59
For Aluminum Liner, Add	67.33	
For 304 Stainless Steel Liner, Add	91.82	
For 2" Wall Instead Of 1", Add	387.91	
For 3" To 4" Wall Instead Of 1", Add	592.18	
23 51 16 00-0061 EA 30" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,508.79	87.76
For Aluminum Liner, Add	70.92	
For 304 Stainless Steel Liner, Add	96.71	
For 2" Wall Instead Of 1", Add	408.78	
For 3" To 4" Wall Instead Of 1", Add	624.14	
23 51 16 00-0062 EA 32" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,678.46	90.34
For Aluminum Liner, Add	79.90	
For 304 Stainless Steel Liner, Add	108.96	
For 2" Wall Instead Of 1", Add	458.40	
For 3" To 4" Wall Instead Of 1", Add	698.88	
23 51 16 00-0063 EA 34" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,830.11	95.50
For Aluminum Liner, Add	87.53	
For 304 Stainless Steel Liner, Add	119.36	
For 2" Wall Instead Of 1", Add	501.31	
For 3" To 4" Wall Instead Of 1", Add	763.90	
23 51 16 00-0064 EA 36" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,890.27	103.24
For Aluminum Liner, Add	89.78	
For 304 Stainless Steel Liner, Add	122.42	
For 2" Wall Instead Of 1", Add	515.49	
For 3" To 4" Wall Instead Of 1", Add	786.13	
23 51 16 00-0065 EA 38" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,021.71	106.87
For Aluminum Liner, Add	96.51	
For 304 Stainless Steel Liner, Add	131.60	
For 2" Wall Instead Of 1", Add	553.12	
For 3" To 4" Wall Instead Of 1", Add	843.02	
23 51 16 00-0066 EA 40" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,148.01	108.41
For Aluminum Liner, Add	103.24	
For 304 Stainless Steel Liner, Add	140.79	
For 2" Wall Instead Of 1", Add	590.23	
For 3" To 4" Wall Instead Of 1", Add	898.89	
23 51 16 00-0067 EA 42" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,242.52	113.58
For Aluminum Liner, Add	107.73	
For 304 Stainless Steel Liner, Add	146.91	
For 2" Wall Instead Of 1", Add	616.01	
For 3" To 4" Wall Instead Of 1", Add	938.20	
23 51 16 00-0068 EA 44" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,377.83	118.74
For Aluminum Liner, Add	114.47	
For 304 Stainless Steel Liner, Add	156.09	
For 2" Wall Instead Of 1", Add	654.02	
For 3" To 4" Wall Instead Of 1", Add	995.86	
23 51 16 00-0069 EA 46" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,553.95	123.90
For Aluminum Liner, Add	123.44	
For 304 Stainless Steel Liner, Add	168.33	
For 2" Wall Instead Of 1", Add	704.28	
For 3" To 4" Wall Instead Of 1", Add	1,071.90	
23 51 16 00-0070 EA 48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,648.47	129.06
For Aluminum Liner, Add	127.93	
For 304 Stainless Steel Liner, Add	174.45	
For 2" Wall Instead Of 1", Add	730.06	
For 3" To 4" Wall Instead Of 1", Add	1,111.20	
23 51 16 00-0071 Tees <small>(23 51 16 00-0001)</small>		
23 51 16 00-0072 EA 3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	110.05	30.59
For Aluminum Liner, Add	1.84	
For 304 Stainless Steel Liner, Add	2.51	
For 2" Wall Instead Of 1", Add	17.70	
For 3" To 4" Wall Instead Of 1", Add	30.38	
23 51 16 00-0073 EA 4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	114.46	31.75
For Aluminum Liner, Add	1.93	
For 304 Stainless Steel Liner, Add	2.63	
For 2" Wall Instead Of 1", Add	18.46	
For 3" To 4" Wall Instead Of 1", Add	31.66	
23 51 16 00-0074 EA 5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	119.33	33.04
For Aluminum Liner, Add	2.02	
For 304 Stainless Steel Liner, Add	2.75	
For 2" Wall Instead Of 1", Add	19.28	
For 3" To 4" Wall Instead Of 1", Add	33.05	
23 51 16 00-0075 EA 6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	126.90	34.45
For Aluminum Liner, Add	2.24	
For 304 Stainless Steel Liner, Add	3.06	
For 2" Wall Instead Of 1", Add	20.85	
For 3" To 4" Wall Instead Of 1", Add	35.58	
23 51 16 00-0076 EA 7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	146.13	35.88
For Aluminum Liner, Add	3.10	
For 304 Stainless Steel Liner, Add	4.22	
For 2" Wall Instead Of 1", Add	25.88	
For 3" To 4" Wall Instead Of 1", Add	43.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0077 EA 8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	155.85	37.55
For Aluminum Liner, Add	3.41	
For 304 Stainless Steel Liner, Add	4.65	
For 2" Wall Instead Of 1", Add	27.99	
For 3" To 4" Wall Instead Of 1", Add	46.68	
23 51 16 00-0078 EA 10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	266.47	39.37
For Aluminum Liner, Add	9.25	
For 304 Stainless Steel Liner, Add	12.61	
For 2" Wall Instead Of 1", Add	60.27	
For 3" To 4" Wall Instead Of 1", Add	95.33	
23 51 16 00-0079 EA 12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	305.62	41.30
For Aluminum Liner, Add	11.13	
For 304 Stainless Steel Liner, Add	15.18	
For 2" Wall Instead Of 1", Add	71.04	
For 3" To 4" Wall Instead Of 1", Add	111.73	
23 51 16 00-0080 EA 14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	444.42	45.95
For Aluminum Liner, Add	18.14	
For 304 Stainless Steel Liner, Add	24.73	
For 2" Wall Instead Of 1", Add	110.39	
For 3" To 4" Wall Instead Of 1", Add	171.32	
23 51 16 00-0081 EA 16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	595.84	51.62
For Aluminum Liner, Add	25.68	
For 304 Stainless Steel Liner, Add	35.01	
For 2" Wall Instead Of 1", Add	152.95	
For 3" To 4" Wall Instead Of 1", Add	235.88	
23 51 16 00-0082 EA 18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	735.09	58.98
For Aluminum Liner, Add	32.32	
For 304 Stainless Steel Liner, Add	44.07	
For 2" Wall Instead Of 1", Add	191.04	
For 3" To 4" Wall Instead Of 1", Add	293.93	
23 51 16 00-0083 EA 20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	973.75	72.91
For Aluminum Liner, Add	43.54	
For 304 Stainless Steel Liner, Add	59.38	
For 2" Wall Instead Of 1", Add	255.71	
For 3" To 4" Wall Instead Of 1", Add	392.67	
23 51 16 00-0084 EA 22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,225.66	95.24
For Aluminum Liner, Add	54.32	
For 304 Stainless Steel Liner, Add	74.07	
For 2" Wall Instead Of 1", Add	320.08	
For 3" To 4" Wall Instead Of 1", Add	492.02	
23 51 16 00-0085 EA 24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,402.46	100.67
For Aluminum Liner, Add	63.29	
For 304 Stainless Steel Liner, Add	86.31	
For 2" Wall Instead Of 1", Add	370.40	
For 3" To 4" Wall Instead Of 1", Add	568.19	
23 51 16 00-0086 EA 26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,903.44	108.41
For Aluminum Liner, Add	89.78	
For 304 Stainless Steel Liner, Add	122.42	
For 2" Wall Instead Of 1", Add	516.81	
For 3" To 4" Wall Instead Of 1", Add	788.77	
23 51 16 00-0087 EA 28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,117.89	112.67
For Aluminum Liner, Add	101.00	
For 304 Stainless Steel Liner, Add	137.73	
For 2" Wall Instead Of 1", Add	579.06	
For 3" To 4" Wall Instead Of 1", Add	882.67	
23 51 16 00-0088 EA 30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,296.41	118.74
For Aluminum Liner, Add	109.98	
For 304 Stainless Steel Liner, Add	149.97	
For 2" Wall Instead Of 1", Add	629.56	
For 3" To 4" Wall Instead Of 1", Add	959.18	
23 51 16 00-0089 EA 32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,635.69	123.90
For Aluminum Liner, Add	127.93	
For 304 Stainless Steel Liner, Add	174.45	
For 2" Wall Instead Of 1", Add	728.78	
For 3" To 4" Wall Instead Of 1", Add	1,108.65	
23 51 16 00-0090 EA 34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,689.49	129.06
For Aluminum Liner, Add	130.18	
For 304 Stainless Steel Liner, Add	177.51	
For 2" Wall Instead Of 1", Add	742.32	
For 3" To 4" Wall Instead Of 1", Add	1,129.61	
23 51 16 00-0091 EA 36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,119.26	137.71
For Aluminum Liner, Add	152.62	
For 304 Stainless Steel Liner, Add	208.12	
For 2" Wall Instead Of 1", Add	866.91	
For 3" To 4" Wall Instead Of 1", Add	1,317.58	
23 51 16 00-0092 EA 38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,203.06	154.87
For Aluminum Liner, Add	154.87	
For 304 Stainless Steel Liner, Add	211.18	
For 2" Wall Instead Of 1", Add	883.45	
For 3" To 4" Wall Instead Of 1", Add	1,344.54	
23 51 16 00-0093 EA 40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,503.17	177.07
For Aluminum Liner, Add	168.33	
For 304 Stainless Steel Liner, Add	229.54	
For 2" Wall Instead Of 1", Add	962.43	
For 3" To 4" Wall Instead Of 1", Add	1,465.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0094 EA 42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,862.47	206.50
For Aluminum Liner, Add	184.04	
For 304 Stainless Steel Liner, Add	250.97	
For 2" Wall Instead Of 1", Add	1,055.49	
For 3" To 4" Wall Instead Of 1", Add	1,609.05	
23 51 16 00-0095 EA 44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,212.18	232.31
For Aluminum Liner, Add	199.75	
For 304 Stainless Steel Liner, Add	272.39	
For 2" Wall Instead Of 1", Add	1,147.59	
For 3" To 4" Wall Instead Of 1", Add	1,750.41	
23 51 16 00-0096 EA 46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,598.87	240.06
For Aluminum Liner, Add	219.95	
For 304 Stainless Steel Liner, Add	299.94	
For 2" Wall Instead Of 1", Add	1,259.72	
For 3" To 4" Wall Instead Of 1", Add	1,919.56	
23 51 16 00-0097 EA 48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,863.29	247.79
For Aluminum Liner, Add	233.42	
For 304 Stainless Steel Liner, Add	318.30	
For 2" Wall Instead Of 1", Add	1,335.13	
For 3" To 4" Wall Instead Of 1", Add	2,033.66	
23 51 16 00-0098 Vent Top Caps (23 51 16 00-0001)		
23 51 16 00-0099 EA 3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	57.54	17.94
For Aluminum Liner, Add	0.70	
For 304 Stainless Steel Liner, Add	0.95	
For 2" Wall Instead Of 1", Add	8.28	
For 3" To 4" Wall Instead Of 1", Add	14.67	
23 51 16 00-0100 EA 4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	60.27	18.85
For Aluminum Liner, Add	0.73	
For 304 Stainless Steel Liner, Add	1.00	
For 2" Wall Instead Of 1", Add	8.69	
For 3" To 4" Wall Instead Of 1", Add	15.38	
23 51 16 00-0101 EA 6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	74.72	20.65
For Aluminum Liner, Add	1.27	
For 304 Stainless Steel Liner, Add	1.73	
For 2" Wall Instead Of 1", Add	12.09	
For 3" To 4" Wall Instead Of 1", Add	20.72	
23 51 16 00-0102 EA 8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	80.40	22.97
For Aluminum Liner, Add	1.27	
For 304 Stainless Steel Liner, Add	1.73	
For 2" Wall Instead Of 1", Add	12.66	
For 3" To 4" Wall Instead Of 1", Add	21.86	
23 51 16 00-0103 EA 10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	94.69	24.26
For Aluminum Liner, Add	1.87	
For 304 Stainless Steel Liner, Add	2.55	
For 2" Wall Instead Of 1", Add	16.28	
For 3" To 4" Wall Instead Of 1", Add	27.45	
23 51 16 00-0104 EA 12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	109.42	25.81
For Aluminum Liner, Add	2.47	
For 304 Stainless Steel Liner, Add	3.37	
For 2" Wall Instead Of 1", Add	19.92	
For 3" To 4" Wall Instead Of 1", Add	33.11	
23 51 16 00-0105 EA 16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	231.22	29.42
For Aluminum Liner, Add	8.66	
For 304 Stainless Steel Liner, Add	11.81	
For 2" Wall Instead Of 1", Add	54.63	
For 3" To 4" Wall Instead Of 1", Add	85.62	
23 51 16 00-0106 EA 18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	415.36	36.91
For Aluminum Liner, Add	17.78	
For 304 Stainless Steel Liner, Add	24.24	
For 2" Wall Instead Of 1", Add	106.18	
For 3" To 4" Wall Instead Of 1", Add	163.87	
23 51 16 00-0107 EA 20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	747.21	44.27
For Aluminum Liner, Add	35.01	
For 304 Stainless Steel Liner, Add	47.75	
For 2" Wall Instead Of 1", Add	202.04	
For 3" To 4" Wall Instead Of 1", Add	308.59	
23 51 16 00-0108 EA 24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,232.21	61.95
For Aluminum Liner, Add	59.25	
For 304 Stainless Steel Liner, Add	80.80	
For 2" Wall Instead Of 1", Add	338.69	
For 3" To 4" Wall Instead Of 1", Add	515.77	
23 51 16 00-0109 EA 26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,795.26	65.18
For Aluminum Liner, Add	89.78	
For 304 Stainless Steel Liner, Add	122.42	
For 2" Wall Instead Of 1", Add	505.99	
For 3" To 4" Wall Instead Of 1", Add	767.13	
23 51 16 00-0110 EA 28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,008.43	68.79
For Aluminum Liner, Add	101.00	
For 304 Stainless Steel Liner, Add	137.73	
For 2" Wall Instead Of 1", Add	568.11	
For 3" To 4" Wall Instead Of 1", Add	860.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0111 EA 30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,263.48	72.91
<i>For Aluminum Liner, Add</i>	114.47	
<i>For 304 Stainless Steel Liner, Add</i>	156.09	
<i>For 2" Wall Instead Of 1", Add</i>	642.59	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	972.99	
23 51 16 00-0112 EA 32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,397.28	77.43
<i>For Aluminum Liner, Add</i>	121.20	
<i>For 304 Stainless Steel Liner, Add</i>	165.27	
<i>For 2" Wall Instead Of 1", Add</i>	680.45	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,030.36	
23 51 16 00-0113 EA 34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,532.61	82.59
<i>For Aluminum Liner, Add</i>	127.93	
<i>For 304 Stainless Steel Liner, Add</i>	174.45	
<i>For 2" Wall Instead Of 1", Add</i>	718.47	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,088.03	
23 51 16 00-0114 EA 36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,710.42	88.53
<i>For Aluminum Liner, Add</i>	136.91	
<i>For 304 Stainless Steel Liner, Add</i>	186.70	
<i>For 2" Wall Instead Of 1", Add</i>	768.90	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,164.40	
23 51 16 00-0115 Wall Thimbles <small>(23 51 16 00-0001)</small>		
23 51 16 00-0116 EA 3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	25.57	9.68
<i>For Aluminum Liner, Add</i>	0.08	
<i>For 304 Stainless Steel Liner, Add</i>	0.11	
<i>For 2" Wall Instead Of 1", Add</i>	2.85	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	5.48	
23 51 16 00-0117 EA 4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	32.58	12.39
<i>For Aluminum Liner, Add</i>	0.08	
<i>For 304 Stainless Steel Liner, Add</i>	0.11	
<i>For 2" Wall Instead Of 1", Add</i>	3.56	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	6.89	
23 51 16 00-0118 EA 5" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	43.46	16.64
<i>For Aluminum Liner, Add</i>	0.10	
<i>For 304 Stainless Steel Liner, Add</i>	0.14	
<i>For 2" Wall Instead Of 1", Add</i>	4.71	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	9.15	
23 51 16 00-0119 EA 7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	54.22	20.65
<i>For Aluminum Liner, Add</i>	0.14	
<i>For 304 Stainless Steel Liner, Add</i>	0.20	
<i>For 2" Wall Instead Of 1", Add</i>	5.94	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	11.49	
23 51 16 00-0120 EA 10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	76.38	27.87
<i>For Aluminum Liner, Add</i>	0.37	
<i>For 304 Stainless Steel Liner, Add</i>	0.50	
<i>For 2" Wall Instead Of 1", Add</i>	8.98	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	16.95	
23 51 16 00-0121 EA 12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	95.94	34.59
<i>For Aluminum Liner, Add</i>	0.52	
<i>For 304 Stainless Steel Liner, Add</i>	0.71	
<i>For 2" Wall Instead Of 1", Add</i>	11.49	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	21.56	
23 51 16 00-0122 EA 14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	119.29	41.30
<i>For Aluminum Liner, Add</i>	0.88	
<i>For 304 Stainless Steel Liner, Add</i>	1.20	
<i>For 2" Wall Instead Of 1", Add</i>	15.14	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.87	
23 51 16 00-0123 EA 18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	151.32	49.05
<i>For Aluminum Liner, Add</i>	1.58	
<i>For 304 Stainless Steel Liner, Add</i>	2.15	
<i>For 2" Wall Instead Of 1", Add</i>	20.88	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	37.44	
23 51 16 00-0124 EA 22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	193.26	54.21
<i>For Aluminum Liner, Add</i>	3.18	
<i>For 304 Stainless Steel Liner, Add</i>	4.33	
<i>For 2" Wall Instead Of 1", Add</i>	30.88	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	53.09	
23 51 16 00-0125 Adjustable Roof Flashing <small>(23 51 16 00-0001)</small>		
23 51 16 00-0126 EA 3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	66.70	22.97
<i>For Aluminum Liner, Add</i>	0.52	
<i>For 304 Stainless Steel Liner, Add</i>	0.70	
<i>For 2" Wall Instead Of 1", Add</i>	8.55	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	15.69	
23 51 16 00-0127 EA 4" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	72.86	24.26
<i>For Aluminum Liner, Add</i>	0.66	
<i>For 304 Stainless Steel Liner, Add</i>	0.91	
<i>For 2" Wall Instead Of 1", Add</i>	9.70	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.59	
23 51 16 00-0128 EA 6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	89.02	27.49
<i>For Aluminum Liner, Add</i>	1.11	
<i>For 304 Stainless Steel Liner, Add</i>	1.52	
<i>For 2" Wall Instead Of 1", Add</i>	12.95	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	22.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, and Stacks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0129	EA		8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	107.04	31.75
			<i>For Aluminum Liner, Add</i>	1.52	
			<i>For 304 Stainless Steel Liner, Add</i>	2.08	
			<i>For 2" Wall Instead Of 1", Add</i>	16.24	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	28.33	
23 51 16 00-0130	EA		10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	161.99	34.45
			<i>For Aluminum Liner, Add</i>	4.17	
			<i>For 304 Stainless Steel Liner, Add</i>	5.69	
			<i>For 2" Wall Instead Of 1", Add</i>	31.38	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	51.37	
23 51 16 00-0131	EA		12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	190.13	37.55
			<i>For Aluminum Liner, Add</i>	5.30	
			<i>For 304 Stainless Steel Liner, Add</i>	7.22	
			<i>For 2" Wall Instead Of 1", Add</i>	38.28	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	62.10	
23 51 16 00-0132	EA		14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	221.58	41.30
			<i>For Aluminum Liner, Add</i>	6.51	
			<i>For 304 Stainless Steel Liner, Add</i>	8.88	
			<i>For 2" Wall Instead Of 1", Add</i>	45.83	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	73.90	
23 51 16 00-0133	EA		16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	261.78	45.95
			<i>For Aluminum Liner, Add</i>	8.08	
			<i>For 304 Stainless Steel Liner, Add</i>	11.02	
			<i>For 2" Wall Instead Of 1", Add</i>	55.56	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	89.08	
23 51 16 00-0134	EA		18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	382.12	51.62
			<i>For Aluminum Liner, Add</i>	13.92	
			<i>For 304 Stainless Steel Liner, Add</i>	18.98	
			<i>For 2" Wall Instead Of 1", Add</i>	88.81	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	139.68	
23 51 16 00-0135	EA		20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	429.98	68.79
			<i>For Aluminum Liner, Add</i>	14.18	
			<i>For 304 Stainless Steel Liner, Add</i>	19.34	
			<i>For 2" Wall Instead Of 1", Add</i>	94.58	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	150.47	
23 51 16 00-0136	EA		22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	547.76	88.53
			<i>For Aluminum Liner, Add</i>	17.96	
			<i>For 304 Stainless Steel Liner, Add</i>	24.48	
			<i>For 2" Wall Instead Of 1", Add</i>	120.07	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	191.17	
23 51 16 00-0137	EA		24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	649.87	103.24
			<i>For Aluminum Liner, Add</i>	21.55	
			<i>For 304 Stainless Steel Liner, Add</i>	29.38	
			<i>For 2" Wall Instead Of 1", Add</i>	143.34	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	227.91	
23 51 16 00-0138			Galvanized Storm Collars <small>(23 51 16 00-0001)</small>		
23 51 16 00-0139	EA		3" Round Galvanized Storm Collar, Double Wall	26.83	9.68
			<i>For Aluminum Liner, Add</i>	0.15	
			<i>For 304 Stainless Steel Liner, Add</i>	0.20	
			<i>For 2" Wall Instead Of 1", Add</i>	3.23	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	6.04	
23 51 16 00-0140	EA		4" Round Galvanized Storm Collar, Double Wall	34.08	12.39
			<i>For Aluminum Liner, Add</i>	0.17	
			<i>For 304 Stainless Steel Liner, Add</i>	0.23	
			<i>For 2" Wall Instead Of 1", Add</i>	4.03	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.59	
23 51 16 00-0141	EA		5" Round Galvanized Storm Collar, Double Wall	40.01	14.45
			<i>For Aluminum Liner, Add</i>	0.21	
			<i>For 304 Stainless Steel Liner, Add</i>	0.29	
			<i>For 2" Wall Instead Of 1", Add</i>	4.78	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	8.97	
23 51 16 00-0142	EA		6" Round Galvanized Storm Collar, Double Wall	45.94	16.52
			<i>For Aluminum Liner, Add</i>	0.26	
			<i>For 304 Stainless Steel Liner, Add</i>	0.35	
			<i>For 2" Wall Instead Of 1", Add</i>	5.52	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.35	
23 51 16 00-0143	EA		7" Or 8" Round Galvanized Storm Collar, Double Wall	57.81	20.65
			<i>For Aluminum Liner, Add</i>	0.34	
			<i>For 304 Stainless Steel Liner, Add</i>	0.46	
			<i>For 2" Wall Instead Of 1", Add</i>	7.02	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	13.11	
23 51 16 00-0144	EA		10" Round Galvanized Storm Collar, Double Wall	79.38	27.87
			<i>For Aluminum Liner, Add</i>	0.53	
			<i>For 304 Stainless Steel Liner, Add</i>	0.73	
			<i>For 2" Wall Instead Of 1", Add</i>	9.88	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	18.30	
23 51 16 00-0145	EA		12" Round Galvanized Storm Collar, Double Wall	98.12	34.59
			<i>For Aluminum Liner, Add</i>	0.64	
			<i>For 304 Stainless Steel Liner, Add</i>	0.87	
			<i>For 2" Wall Instead Of 1", Add</i>	12.14	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	22.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0146 EA 14" Or 16" Round Galvanized Storm Collar, Double Wall..... <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	123.00 1.09 1.48 16.25 29.54	41.30
23 51 16 00-0147 EA 18" Or 20" Round Galvanized Storm Collar, Double Wall..... <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	158.36 1.97 2.68 22.99 40.61	49.05
23 51 16 00-0148 EA 22" Or 24" Round Galvanized Storm Collar, Double Wall..... <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	210.85 4.14 5.65 36.15 61.01	54.21
23 51 16 00-0149 Oval Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)		
23 51 16 00-0150 Oval Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0149)		
23 51 16 00-0151 LF 4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	42.04 6.55 11.34	12.14
23 51 16 00-0152 LF 5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	45.92 7.37 12.66	12.91
23 51 16 00-0153 LF 6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	50.56 8.28 14.14	13.81
23 51 16 00-0154 45 Degree Elbows (23 51 16 00-0149)		
23 51 16 00-0155 EA 4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	90.99 14.71 25.21	25.17
23 51 16 00-0156 EA 5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	106.22 17.15 29.41	29.42
23 51 16 00-0157 EA 6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	125.13 20.89 35.49	33.30
23 51 16 00-0158 EA 4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	92.39 15.13 25.84	25.17
23 51 16 00-0159 EA 5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	109.62 18.17 30.94	29.42
23 51 16 00-0160 EA 6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	127.33 21.55 36.48	33.30
23 51 16 00-0161 Tees (23 51 16 00-0149)		
23 51 16 00-0162 EA 4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	149.08 25.60 43.19	38.20
23 51 16 00-0163 EA 4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	151.28 26.26 44.18	38.20
23 51 16 00-0164 EA 5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	173.79 30.20 50.78	43.88
23 51 16 00-0165 EA 6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	198.03 34.83 58.38	49.18
23 51 16 00-0166 Tops/Caps And Adjustable Flashing (23 51 16 00-0149)		
23 51 16 00-0167 EA 4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	55.32 10.38 17.12	12.39
23 51 16 00-0168 EA 6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	84.19 16.93 27.48	16.64
23 51 16 00-0169 EA 4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	46.71 7.80 13.25	12.39
23 51 16 00-0170 EA 6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	76.08 14.50 23.83	16.64
23 51 16 00-0171 Storm Collars (23 51 16 00-0149)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, and Stacks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51	16 00-0172	EA	4" Oval Galvanized Storm Collar, Double Wall <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	34.08 4.03 7.59	12.39
23 51	16 00-0173	EA	5" Oval Galvanized Storm Collar, Double Wall <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	40.01 4.78 8.97	14.45
23 51	16 00-0174	EA	6" Oval Galvanized Storm Collar, Double Wall <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	45.94 5.52 10.35	16.52
23 51	16 00-0175		Round Double Wall Flue/Vent Pipe And Fittings <small>(23 51 16)</small> Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.		
23 51	16 00-0176		Round Double Wall Flue/Vent Pipe <small>(23 51 16 00-0175)</small> Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.		
23 51	16 00-0177	LF	6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	108.18 11.79 7.37 14.74	13.81
23 51	16 00-0178	LF	8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	129.73 14.40 9.00 17.99	15.88
23 51	16 00-0179	LF	10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	143.77 16.13 10.08 20.16	17.17
23 51	16 00-0180	LF	12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	161.82 18.38 11.49 22.98	18.72
23 51	16 00-0181	LF	14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	181.42 21.16 13.22 26.45	19.61
23 51	16 00-0182	LF	16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	191.54 22.37 13.98 27.97	20.65
23 51	16 00-0183	LF	18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	211.58 25.15 15.72 31.43	21.82
23 51	16 00-0184	LF	20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	266.03 28.79 17.99 35.99	34.45
23 51	16 00-0185	LF	24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	328.79 37.12 23.20 46.39	38.72
23 51	16 00-0186	LF	28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	369.86 42.67 26.67 53.33	41.30
23 51	16 00-0187	LF	32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	413.77 47.87 29.92 59.83	45.82
23 51	16 00-0188	LF	36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	459.77 53.76 33.60 67.21	49.56
23 51	16 00-0189	LF	42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	524.83 61.40 38.37 76.74	56.40
23 51	16 00-0190	LF	48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	614.20 72.15 45.09 90.19	65.31



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0191			90 Degree Elbows (23 51 16 00-0175)		
23 51 16 00-0192	EA		6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 489.67	489.67	28.52
			For 316 Stainless Steel, Add 83.68		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 41.84		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 83.68		
23 51 16 00-0193	EA		8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 541.13	541.13	31.75
			For 316 Stainless Steel, Add 92.35		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 46.18		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 92.35		
23 51 16 00-0194	EA		10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 615.11	615.11	34.45
			For 316 Stainless Steel, Add 105.80		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 52.90		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 105.80		
23 51 16 00-0195	EA		12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 694.35	694.35	37.55
			For 316 Stainless Steel, Add 120.10		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 60.05		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 120.10		
23 51 16 00-0196	EA		14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 802.93	802.93	39.37
			For 316 Stainless Steel, Add 140.92		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 70.46		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 140.92		
23 51 16 00-0197	EA		16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 883.68	883.68	41.30
			For 316 Stainless Steel, Add 156.09		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 78.05		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 156.09		
23 51 16 00-0198	EA		18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 1,019.19	1,019.19	43.49
			For 316 Stainless Steel, Add 182.11		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 91.05		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 182.11		
23 51 16 00-0199	EA		20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 1,191.02	1,191.02	68.79
			For 316 Stainless Steel, Add 203.79		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 101.89		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 203.79		
23 51 16 00-0200	EA		24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 1,461.83	1,461.83	77.43
			For 316 Stainless Steel, Add 253.65		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 126.82		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 253.65		
23 51 16 00-0201	EA		28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 1,767.41	1,767.41	82.59
			For 316 Stainless Steel, Add 312.18		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 156.09		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 312.18		
23 51 16 00-0202	EA		32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 2,324.05	2,324.05	88.41
			For 316 Stainless Steel, Add 420.58		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 210.29		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 420.58		
23 51 16 00-0203	EA		36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 2,642.85	2,642.85	103.24
			For 316 Stainless Steel, Add 476.95		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 238.47		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 476.95		
23 51 16 00-0204	EA		42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 3,858.61	3,858.61	112.67
			For 316 Stainless Steel, Add 715.42		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 357.71		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 715.42		
23 51 16 00-0205	EA		48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 4,808.19	4,808.19	123.90
			For 316 Stainless Steel, Add 899.69		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 449.85		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 899.69		
23 51 16 00-0206			45 Degree Elbows (23 51 16 00-0175)		
23 51 16 00-0207	EA		6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 331.11	331.11	27.49
			For 316 Stainless Steel, Add 52.46		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 26.23		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 52.46		
23 51 16 00-0208	EA		8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 378.53	378.53	31.75
			For 316 Stainless Steel, Add 59.83		
			For 2" Insulated Wall Instead Of 1" Thickness, Add 29.92		
			For 3" Insulated Wall Instead Of 1" Thickness, Add 59.83		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0209	EA		10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	419.96	34.45
			<i>For 316 Stainless Steel, Add</i>	66.77	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	33.39	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	66.77	
23 51 16 00-0210	EA		12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	477.56	37.55
			<i>For 316 Stainless Steel, Add</i>	76.74	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	38.37	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	76.74	
23 51 16 00-0211	EA		14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	536.27	39.37
			<i>For 316 Stainless Steel, Add</i>	87.58	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	43.79	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	87.58	
23 51 16 00-0212	EA		16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	599.68	41.30
			<i>For 316 Stainless Steel, Add</i>	99.29	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	49.65	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	99.29	
23 51 16 00-0213	EA		18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	670.15	43.49
			<i>For 316 Stainless Steel, Add</i>	112.30	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	56.15	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	112.30	
23 51 16 00-0214	EA		20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	813.81	68.79
			<i>For 316 Stainless Steel, Add</i>	128.34	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	64.17	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	128.34	
23 51 16 00-0215	EA		24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,017.41	77.43
			<i>For 316 Stainless Steel, Add</i>	164.76	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	82.38	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	164.76	
23 51 16 00-0216	EA		28" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,138.71	82.59
			<i>For 316 Stainless Steel, Add</i>	186.44	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	93.22	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	186.44	
23 51 16 00-0217	EA		32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,467.72	88.41
			<i>For 316 Stainless Steel, Add</i>	249.31	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	124.66	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	249.31	
23 51 16 00-0218	EA		36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,938.27	103.24
			<i>For 316 Stainless Steel, Add</i>	336.03	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	168.02	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	336.03	
23 51 16 00-0219	EA		42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,557.85	112.67
			<i>For 316 Stainless Steel, Add</i>	455.27	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	227.63	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	455.27	
23 51 16 00-0220	EA		48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,399.06	123.90
			<i>For 316 Stainless Steel, Add</i>	617.86	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	308.93	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	617.86	
23 51 16 00-0221			Tees <small>(23 51 16 00-0175)</small>		
23 51 16 00-0222	EA		6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	361.46	34.45
			<i>For 316 Stainless Steel, Add</i>	60.57	
			<i>For Tee Cap, Add</i>	85.21	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	27.53	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	55.07	
23 51 16 00-0223	EA		8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	410.35	37.55
			<i>For 316 Stainless Steel, Add</i>	69.63	
			<i>For Tee Cap, Add</i>	96.14	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	31.65	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	63.30	
23 51 16 00-0224	EA		10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	469.04	39.37
			<i>For 316 Stainless Steel, Add</i>	81.56	
			<i>For Tee Cap, Add</i>	108.56	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	37.07	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	74.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0225 EA 12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	536.81	41.30
For 316 Stainless Steel, Add	95.39	
For Tee Cap, Add	122.85	
For 2" Insulated Wall Instead Of 1" Thickness, Add	43.36	
For 3" Insulated Wall Instead Of 1" Thickness, Add	86.72	
23 51 16 00-0226 EA 14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	626.35	45.95
For 316 Stainless Steel, Add	112.56	
For Tee Cap, Add	142.48	
For 2" Insulated Wall Instead Of 1" Thickness, Add	51.16	
For 3" Insulated Wall Instead Of 1" Thickness, Add	102.33	
23 51 16 00-0227 EA 16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	703.47	51.62
For 316 Stainless Steel, Add	126.39	
For Tee Cap, Add	160.04	
For 2" Insulated Wall Instead Of 1" Thickness, Add	57.45	
For 3" Insulated Wall Instead Of 1" Thickness, Add	114.90	
23 51 16 00-0228 EA 18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	819.44	58.98
For 316 Stainless Steel, Add	147.85	
For Tee Cap, Add	186.00	
For 2" Insulated Wall Instead Of 1" Thickness, Add	67.21	
For 3" Insulated Wall Instead Of 1" Thickness, Add	134.41	
23 51 16 00-0229 EA 20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	940.97	72.91
For 316 Stainless Steel, Add	166.93	
For Tee Cap, Add	215.52	
For 2" Insulated Wall Instead Of 1" Thickness, Add	75.88	
For 3" Insulated Wall Instead Of 1" Thickness, Add	151.76	
23 51 16 00-0230 EA 24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,201.17	103.24
For 316 Stainless Steel, Add	207.47	
For Tee Cap, Add	278.95	
For 2" Insulated Wall Instead Of 1" Thickness, Add	94.31	
For 3" Insulated Wall Instead Of 1" Thickness, Add	188.61	
23 51 16 00-0231 EA 28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,452.20	112.67
For 316 Stainless Steel, Add	257.55	
For Tee Cap, Add	332.67	
For 2" Insulated Wall Instead Of 1" Thickness, Add	117.07	
For 3" Insulated Wall Instead Of 1" Thickness, Add	234.14	
23 51 16 00-0232 EA 32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,914.00	123.90
For 316 Stainless Steel, Add	352.94	
For Tee Cap, Add	429.26	
For 2" Insulated Wall Instead Of 1" Thickness, Add	160.43	
For 3" Insulated Wall Instead Of 1" Thickness, Add	320.85	
23 51 16 00-0233 EA 36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,132.88	137.71
For 316 Stainless Steel, Add	393.48	
For Tee Cap, Add	478.23	
For 2" Insulated Wall Instead Of 1" Thickness, Add	178.85	
For 3" Insulated Wall Instead Of 1" Thickness, Add	357.71	
23 51 16 00-0234 EA 42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	3,388.75	206.50
For 316 Stainless Steel, Add	631.95	
For Tee Cap, Add	755.19	
For 2" Insulated Wall Instead Of 1" Thickness, Add	287.25	
For 3" Insulated Wall Instead Of 1" Thickness, Add	574.50	
23 51 16 00-0235 EA 48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	4,250.82	247.79
For 316 Stainless Steel, Add	798.88	
For Tee Cap, Add	943.09	
For 2" Insulated Wall Instead Of 1" Thickness, Add	363.13	
For 3" Insulated Wall Instead Of 1" Thickness, Add	726.26	
23 51 16 00-0236 Bellows <small>(23 51 16 00-0175)</small>		
23 51 16 00-0237 EA 6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	662.80	27.49
For 2" Insulated Wall Instead Of 1" Thickness, Add	59.40	
For 3" Insulated Wall Instead Of 1" Thickness, Add	118.80	
23 51 16 00-0238 EA 8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	723.24	31.75
For 2" Insulated Wall Instead Of 1" Thickness, Add	64.39	
For 3" Insulated Wall Instead Of 1" Thickness, Add	128.78	
23 51 16 00-0239 EA 10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	790.71	34.45
For 2" Insulated Wall Instead Of 1" Thickness, Add	70.46	
For 3" Insulated Wall Instead Of 1" Thickness, Add	140.92	
23 51 16 00-0240 EA 12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	874.29	37.55
For 2" Insulated Wall Instead Of 1" Thickness, Add	78.05	
For 3" Insulated Wall Instead Of 1" Thickness, Add	156.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, and Stacks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0241	EA		14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	976.36	39.37
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	87.80	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	175.60	
23 51 16 00-0242	EA		16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,078.79	41.30
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	97.56	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	195.11	
23 51 16 00-0243	EA		18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,203.47	43.49
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	109.48	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	218.96	
23 51 16 00-0244	EA		20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,407.79	68.79
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	123.57	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	247.14	
23 51 16 00-0245	EA		24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,732.84	77.43
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	153.92	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	307.85	
23 51 16 00-0246	EA		28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,940.88	82.59
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	173.44	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	346.87	
23 51 16 00-0247	EA		32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,215.80	88.53
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	199.45	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	398.90	
23 51 16 00-0248	EA		36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,534.47	103.24
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	227.63	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	455.27	
23 51 16 00-0249	EA		42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,208.25	112.67
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	292.67	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	585.34	
23 51 16 00-0250	EA		48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,886.85	123.90
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	357.71	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	715.42	
23 51 16 00-0251			Ventilated Roof Thimbles <small>(23 51 16 00-0175)</small>		
23 51 16 00-0252	EA		6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	447.96	31.75
			<i>For 316 Stainless Steel, Add</i>	36.86	
23 51 16 00-0253	EA		8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	488.40	37.55
			<i>For 316 Stainless Steel, Add</i>	39.46	
23 51 16 00-0254	EA		10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	534.63	41.30
			<i>For 316 Stainless Steel, Add</i>	43.14	
23 51 16 00-0255	EA		12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	578.73	45.95
			<i>For 316 Stainless Steel, Add</i>	46.39	
23 51 16 00-0256	EA		14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	730.69	48.65
			<i>For 316 Stainless Steel, Add</i>	60.92	
23 51 16 00-0257	EA		16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	658.01	51.62
			<i>For 316 Stainless Steel, Add</i>	52.90	
23 51 16 00-0258	EA		18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	707.90	55.11
			<i>For 316 Stainless Steel, Add</i>	57.02	
23 51 16 00-0259	EA		20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	804.97	77.43
			<i>For 316 Stainless Steel, Add</i>	61.14	
23 51 16 00-0260	EA		24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	903.91	88.41
			<i>For 316 Stainless Steel, Add</i>	68.29	
23 51 16 00-0261	EA		28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,029.41	95.24
			<i>For 316 Stainless Steel, Add</i>	79.13	
23 51 16 00-0262	EA		32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,146.81	103.12
			<i>For 316 Stainless Steel, Add</i>	88.89	
23 51 16 00-0263	EA		36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,285.13	123.77
			<i>For 316 Stainless Steel, Add</i>	97.56	
23 51 16 00-0264	EA		42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,633.93	137.58
			<i>For 316 Stainless Steel, Add</i>	128.99	
23 51 16 00-0265	EA		48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,012.87	154.74
			<i>For 316 Stainless Steel, Add</i>	162.60	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0266				Exit Cones <small>(23 51 16 00-0175)</small>		
			EA	6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	307.26	17.94
			EA	8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	324.51	19.61
			EA	10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	348.62	20.65
			EA	12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	364.35	21.69
			EA	14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	400.49	22.33
			EA	16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	436.64	22.84
			EA	18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	527.22	23.62
			EA	20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	667.80	44.27
			EA	24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	834.53	47.63
			EA	28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	991.08	49.56
			EA	32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,213.04	51.62
			EA	36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,376.56	56.40
			EA	42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,730.13	58.98
			EA	48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,203.58	61.95
23 51 16 00-0281				Vent Top Caps <small>(23 51 16 00-0175)</small>		
			EA	6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	335.33	17.94
			EA	8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	387.38	19.61
			EA	10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	448.31	20.65
			EA	12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	513.91	21.69
			EA	14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	597.72	22.33
			EA	16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	677.36	22.97
			EA	18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	752.73	23.62
			EA	20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	912.65	44.27
			EA	24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,083.84	47.63
			EA	28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,175.28	49.56
			EA	32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,332.19	51.62
			EA	36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,549.85	56.27
			EA	42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,881.80	58.98
			EA	48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,181.81	61.95
23 51 16 00-0296				Roof Support Assemblies <small>(23 51 16 00-0175)</small>		
			EA	6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	509.57	33.04
				<i>For 316 Stainless Steel, Add</i>	85.42	
			EA	8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	564.46	39.37
				<i>For 316 Stainless Steel, Add</i>	93.22	
			EA	10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	620.23	43.49
				<i>For 316 Stainless Steel, Add</i>	102.33	
			EA	12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	663.37	48.52
				<i>For 316 Stainless Steel, Add</i>	108.40	
			EA	14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	738.24	51.62
				<i>For 316 Stainless Steel, Add</i>	121.84	
			EA	16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	783.73	55.11
				<i>For 316 Stainless Steel, Add</i>	129.21	

23 Heating, Ventilating, and Air-Conditioning (HVAC)
23 50 Central Heating Equipment
23 51 Breechings, Chimneys, and Stacks


MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0303 EA 18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	841.37 138.75	59.11
23 51 16 00-0304 EA 20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	943.60 147.42	82.59
23 51 16 00-0305 EA 24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	1,062.10 164.76	95.37
23 51 16 00-0306 EA 28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	1,222.85 192.95	103.24
23 51 16 00-0307 EA 32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	1,452.22 234.14	112.67
23 51 16 00-0308 EA 36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	1,688.46 268.82	137.71
23 51 16 00-0309 EA 42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	2,490.04 420.58	154.87
23 51 16 00-0310 EA 48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i>	3,041.69 520.30	176.04
23 51 16 00-0311 Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings ^(23 51 16) Note: With 1" insulation.		
23 51 16 00-0312 Round Stainless Steel Double Wall Flue/Vent Pipe ^(23 51 16 00-0311) Note: With 1" insulation.		
23 51 16 00-0313 LF 6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	95.17 6.07 12.14	13.81
23 51 16 00-0314 LF 7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	114.95 7.81 15.61	14.71
23 51 16 00-0315 LF 8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	130.81 9.11 18.21	15.88
23 51 16 00-0316 LF 10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	175.15 13.22 26.45	17.17
23 51 16 00-0317 LF 12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	224.74 17.78 35.55	18.85
23 51 16 00-0318 LF 14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	283.43 23.41 46.83	19.74
23 51 16 00-0319 90 Degree Elbows ^(23 51 16 00-0311)		
23 51 16 00-0320 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	204.34 13.55 27.10	27.49
23 51 16 00-0321 EA 7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	225.45 15.18 30.35	29.42
23 51 16 00-0322 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	252.83 17.34 34.69	31.75
23 51 16 00-0323 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	311.55 22.55 45.09	34.45
23 51 16 00-0324 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	369.18 27.53 55.07	37.55
23 51 16 00-0325 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	427.82 32.95 65.91	39.37
23 51 16 00-0326 45 Degree Elbows ^(23 51 16 00-0311)		
23 51 16 00-0327 EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	170.47 10.16 20.32	27.49
23 51 16 00-0328 EA 7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	187.50 11.38 22.76	29.42
23 51 16 00-0329 EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	209.50 13.01 26.02	31.75
23 51 16 00-0330 EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	255.19 16.91 33.82	34.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0331 EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	300.32 20.65 41.30	37.55
23 51 16 00-0332 EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	345.49 24.71 49.43	39.37
23 51 16 00-0333 Tees With Tee Caps <small>(23 51 16 00-0311)</small>		
23 51 16 00-0334 EA 6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	324.60 25.58 51.16	27.49
23 51 16 00-0335 EA 7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	407.56 33.39 66.77	29.42
23 51 16 00-0336 EA 8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	456.59 37.72 75.44	31.75
23 51 16 00-0337 EA 10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	617.14 53.11 106.23	34.45
23 51 16 00-0338 EA 12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	841.73 74.79 149.59	37.55
23 51 16 00-0339 EA 14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	1,073.82 97.56 195.11	39.37
23 51 16 00-0340 Joist Shields <small>(23 51 16 00-0311)</small>		
23 51 16 00-0341 EA 6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	146.84	27.49
23 51 16 00-0342 EA 7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	158.25	29.42
23 51 16 00-0343 EA 8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	183.43	31.75
23 51 16 00-0344 EA 10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	225.97	34.45
23 51 16 00-0345 EA 12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	268.35	37.55
23 51 16 00-0346 EA 14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	315.08	39.37
23 51 16 00-0347 Adjustable Roof Flashing <small>(23 51 16 00-0311)</small>		
23 51 16 00-0348 EA 6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	171.77	27.49
23 51 16 00-0349 EA 7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	190.75	29.42
23 51 16 00-0350 EA 8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	207.26	31.75
23 51 16 00-0351 EA 10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	249.79	34.45
23 51 16 00-0352 EA 12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	305.28	37.55
23 51 16 00-0353 EA 14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	362.73	39.23
23 51 16 00-0354 Vent Top Caps <small>(23 51 16 00-0311)</small>		
23 51 16 00-0355 EA 6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	155.51	27.49
23 51 16 00-0356 EA 7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	191.83	29.42
23 51 16 00-0357 EA 8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	237.62	31.75
23 51 16 00-0358 EA 10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	370.15	34.45
23 51 16 00-0359 EA 12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	499.30	37.55
23 51 16 00-0360 EA 14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	631.62	39.37
23 51 16 00-0361 Roof Support Assemblies <small>(23 51 16 00-0311)</small>		
23 51 16 00-0362 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	223.70	27.49
23 51 16 00-0363 EA 7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	248.20	29.42
23 51 16 00-0364 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	269.03	31.75
23 51 16 00-0365 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	335.34	34.45
23 51 16 00-0366 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	395.18	37.55
23 51 16 00-0367 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	479.88	39.37
23 51 16 00-0368 Polyvinyl Chloride (PVC) Flue/Vent Accessories <small>(23 51 16)</small>		
23 51 16 00-0369 Concentric Polyvinyl Chloride (PVC) Vent Termination <small>(23 51 16 00-0368)</small>		
23 51 16 00-0370 EA 2" Concentric Polyvinyl Chloride (PVC) Vent Termination	223.65	52.56
23 51 16 00-0371 EA 3" Concentric Polyvinyl Chloride (PVC) Vent Termination	240.59	52.56
23 51 16 00-0372 Polypropylene (PP) Flue/Vent Pipe And Fittings <small>(23 51 16)</small>		
23 51 16 00-0373 Polypropylene Flue/Vent Rigid Pipe Sections <small>(23 51 16 00-0372)</small>		
<i>Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.</i>		
23 51 16 00-0374 EA 2" x 12" Polypropylene Flue/Vent Rigid Pipe Section	46.63	15.97
23 51 16 00-0375 EA 2" x 24" Polypropylene Flue/Vent Rigid Pipe Section	52.27	16.80
23 51 16 00-0376 EA 2" x 36" Polypropylene Flue/Vent Rigid Pipe Section	59.58	18.68
23 51 16 00-0377 EA 2" x 72" Polypropylene Flue/Vent Rigid Pipe Section	73.32	21.97
23 51 16 00-0378 EA 3" x 12" Polypropylene Flue/Vent Rigid Pipe Section	55.56	18.30

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0379 EA 3" x 24" Polypropylene Flue/Vent Rigid Pipe Section	65.52	19.27
23 51 16 00-0380 EA 3" x 36" Polypropylene Flue/Vent Rigid Pipe Section	79.15	21.41
23 51 16 00-0381 EA 3" x 72" Polypropylene Flue/Vent Rigid Pipe Section	97.19	25.18
23 51 16 00-0382 EA 4" x 12" Polypropylene Flue/Vent Rigid Pipe Section	88.53	24.21
23 51 16 00-0383 EA 4" x 24" Polypropylene Flue/Vent Rigid Pipe Section	102.85	25.48
23 51 16 00-0384 EA 4" x 36" Polypropylene Flue/Vent Rigid Pipe Section	126.05	28.32
23 51 16 00-0385 EA 4" x 72" Polypropylene Flue/Vent Rigid Pipe Section	161.46	33.31
23 51 16 00-0386 EA 5" x 12" Polypropylene Flue/Vent Rigid Pipe Section	131.22	35.73
23 51 16 00-0387 EA 5" x 24" Polypropylene Flue/Vent Rigid Pipe Section	148.27	37.60
23 51 16 00-0388 EA 5" x 36" Polypropylene Flue/Vent Rigid Pipe Section	188.88	41.79
23 51 16 00-0389 EA 5" x 72" Polypropylene Flue/Vent Rigid Pipe Section	242.70	49.18
23 51 16 00-0390 Polypropylene Flue/Vent Elbows (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0391 EA 2" Polypropylene Flue/Vent 15 Degree Elbow	57.46	19.40
23 51 16 00-0392 EA 3" Polypropylene Flue/Vent 15 Degree Elbow	65.97	20.42
23 51 16 00-0393 EA 4" Polypropylene Flue/Vent 15 Degree Elbow	79.98	21.16
23 51 16 00-0394 EA 5" Polypropylene Flue/Vent 15 Degree Elbow	91.47	22.03
23 51 16 00-0395 EA 2" Polypropylene Flue/Vent 30 Degree Elbow	57.46	19.40
23 51 16 00-0396 EA 3" Polypropylene Flue/Vent 30 Degree Elbow	65.97	20.42
23 51 16 00-0397 EA 4" Polypropylene Flue/Vent 30 Degree Elbow	79.98	21.16
23 51 16 00-0398 EA 5" Polypropylene Flue/Vent 30 Degree Elbow	91.47	22.03
23 51 16 00-0399 EA 2" Polypropylene Flue/Vent 45 Degree Elbow	57.46	19.40
23 51 16 00-0400 EA 3" Polypropylene Flue/Vent 45 Degree Elbow	65.97	20.42
23 51 16 00-0401 EA 4" Polypropylene Flue/Vent 45 Degree Elbow	79.98	21.16
23 51 16 00-0402 EA 5" Polypropylene Flue/Vent 45 Degree Elbow	91.47	22.03
23 51 16 00-0403 EA 2" Polypropylene Flue/Vent 87 Degree Elbow	57.46	19.40
23 51 16 00-0404 EA 3" Polypropylene Flue/Vent 87 Degree Elbow	65.97	20.42
23 51 16 00-0405 EA 4" Polypropylene Flue/Vent 87 Degree Elbow	79.13	21.16
23 51 16 00-0406 EA 5" Polypropylene Flue/Vent 87 Degree Elbow	93.55	22.03
23 51 16 00-0407 Polypropylene Flue/Vent Tees (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0408 EA 2" Polypropylene Flue/Vent Tee	161.39	29.10
23 51 16 00-0409 EA 3" Polypropylene Flue/Vent Tee	199.49	30.64
23 51 16 00-0410 EA 4" Polypropylene Flue/Vent Tee	231.78	31.75
23 51 16 00-0411 EA 5" Polypropylene Flue/Vent Tee	252.65	33.04
23 51 16 00-0412 Polypropylene Flue/Vent Adaptors (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0413 EA 2" Polypropylene Flue/Vent Adaptor With Gasket.....	65.66	19.40
23 51 16 00-0414 EA 3" Polypropylene Flue/Vent Adaptor With Gasket.....	89.87	20.42
23 51 16 00-0415 EA 4" Polypropylene Flue/Vent Adaptor With Gasket.....	103.12	21.16
23 51 16 00-0416 EA 5" Polypropylene Flue/Vent Adaptor With Gasket.....	136.72	22.03
23 51 16 00-0417 Polypropylene Flue/Vent Increases (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0418 EA 2" to 3" Polypropylene Flue/Vent Centric Increaser	71.86	19.91
23 51 16 00-0419 EA 3" to 4" Polypropylene Flue/Vent Centric Increaser	78.11	20.79
23 51 16 00-0420 EA 4" to 5" Polypropylene Flue/Vent Centric Increaser	131.44	21.59
23 51 16 00-0421 EA 2" to 3" Polypropylene Flue/Vent Eccentric Increaser	92.92	19.91
23 51 16 00-0422 EA 3" to 4" Polypropylene Flue/Vent Eccentric Increaser	76.39	20.79
23 51 16 00-0423 EA 4" to 5" Polypropylene Flue/Vent Eccentric Increaser	176.43	21.59
23 51 16 00-0424 Polypropylene Flue/Vent Reducers (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0425 EA 3" to 2" Polypropylene Flue/Vent Reducer	71.86	19.91
23 51 16 00-0426 EA 4" to 3" Polypropylene Flue/Vent Reducer	78.11	20.79
23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer	159.49	21.59
23 51 16 00-0428 Polypropylene Flue/Vent Test Ports (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port	93.35	29.10
23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port	103.56	30.64
23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port	149.83	31.75
23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port	159.47	33.04
23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder	235.56	31.75
23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder	307.40	39.69
23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder	197.72	33.04
23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder	288.50	41.30
23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve	289.33	20.79



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 51 16 00-0439	EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve.....	333.54	21.59
23 51 16 00-0440	Polypropylene Flue/Vent Condensate Management (23 51 16 00-0372)		
	Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0441	EA 2" Polypropylene Flue/Vent Horizontal Drain Tee.....	121.79	29.10
23 51 16 00-0442	EA 3" Polypropylene Flue/Vent Horizontal Drain Tee.....	144.59	30.64
23 51 16 00-0443	EA 4" Polypropylene Flue/Vent Horizontal Drain Tee.....	163.69	31.75
23 51 16 00-0444	EA 5" Polypropylene Flue/Vent Horizontal Drain Tee.....	184.92	33.04
23 51 16 00-0445	EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings.....	202.17	31.75
23 51 16 00-0446	EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings.....	221.75	33.04
23 51 16 00-0447	EA 2" Polypropylene Flue/Vent Tee Cap.....	66.12	9.70
23 51 16 00-0448	EA 3" Polypropylene Flue/Vent Tee Cap.....	83.59	10.20
23 51 16 00-0449	EA 4" Polypropylene Flue/Vent Tee Cap.....	98.45	10.59
23 51 16 00-0450	EA 5" Polypropylene Flue/Vent Tee Cap.....	126.96	11.01
23 51 16 00-0451	EA 2" Polypropylene Flue/Vent Tee Cap With Drain.....	134.10	29.10
23 51 16 00-0452	EA 3" Polypropylene Flue/Vent Tee Cap With Drain.....	161.66	30.64
23 51 16 00-0453	EA 4" Polypropylene Flue/Vent Tee Cap With Drain.....	184.86	31.75
23 51 16 00-0454	EA 5" Polypropylene Flue/Vent Tee Cap With Drain.....	219.73	33.04
23 51 16 00-0455	Polypropylene Flue/Vent Terminations (23 51 16 00-0372)		
23 51 16 00-0456	EA 2" Polypropylene-UV Black Flue/Vent Chimney Cover.....	163.69	19.40
23 51 16 00-0457	EA 3" Polypropylene-UV Black Flue/Vent Chimney Cover.....	146.32	20.42
23 51 16 00-0458	EA 4" Polypropylene-UV Black Flue/Vent Chimney Cover.....	180.56	21.16
23 51 16 00-0459	EA 3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....	355.70	20.42
23 51 16 00-0460	EA 4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....	379.43	21.16
23 51 16 00-0461	EA 5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....	441.39	22.03
23 51 16 00-0462	EA 2 1/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	101.24	19.40
23 51 16 00-0463	EA 2 1/2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	106.52	19.40
23 51 16 00-0464	EA 2 3/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	111.79	19.40
23 51 16 00-0465	EA 2 7/8" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	117.07	19.40
23 51 16 00-0466	EA 3" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	109.08	20.42
23 51 16 00-0467	EA 3 1/2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	114.35	20.42
23 51 16 00-0468	EA 3 5/8" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	119.63	20.42
23 51 16 00-0469	EA 3 7/8" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	124.90	20.42
23 51 16 00-0470	EA 4 1/8" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	121.48	21.16
23 51 16 00-0471	EA 4 1/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	126.75	21.16
23 51 16 00-0472	EA 4 1/2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	132.03	21.16
23 51 16 00-0473	EA 2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination.....	106.47	19.40
23 51 16 00-0474	EA 3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination.....	133.87	20.42
23 51 16 00-0475	EA 2" Polypropylene-UV Black Flue/Vent Termination Tee.....	127.51	29.10
23 51 16 00-0476	EA 3" Polypropylene-UV Black Flue/Vent Termination Tee.....	163.51	30.64
23 51 16 00-0477	EA 4" Polypropylene-UV Black Flue/Vent Termination Tee.....	190.76	31.75
23 51 16 00-0478	EA 5" Polypropylene-UV Black Flue/Vent Termination Tee.....	209.05	33.04
23 51 16 00-0479	EA 2" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	49.07	16.80
23 51 16 00-0480	EA 2" x 39" Polypropylene-UV Black Flue/Vent End Pipe.....	57.89	18.68
23 51 16 00-0481	EA 3" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	58.50	19.27
23 51 16 00-0482	EA 3" x 39" Polypropylene-UV Black Flue/Vent End Pipe.....	71.56	21.41
23 51 16 00-0483	EA 4" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	86.25	25.48
23 51 16 00-0484	EA 5" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	120.43	37.60
23 51 16 00-0485	EA 5" x 39" Polypropylene-UV Black Flue/Vent End Pipe.....	143.80	41.79
23 51 16 00-0486	EA 2" x 24" Polypropylene-UV Black Flue/Vent Vent Length.....	53.30	16.80
23 51 16 00-0487	EA 3" x 24" Polypropylene-UV Black Flue/Vent Vent Length.....	67.26	19.27
23 51 16 00-0488	EA 4" x 24" Polypropylene-UV Black Flue/Vent Vent Length.....	106.76	25.48
23 51 16 00-0489	EA 2" Polypropylene-UV Black Flue/Vent 45 Degree Elbow.....	59.13	19.40
23 51 16 00-0490	EA 3" Polypropylene-UV Black Flue/Vent 45 Degree Elbow.....	68.08	20.42
23 51 16 00-0491	EA 4" Polypropylene-UV Black Flue/Vent 45 Degree Elbow.....	82.68	21.16
23 51 16 00-0492	EA 2" Polypropylene-UV Black Flue/Vent 87 Degree Elbow.....	58.34	19.40
23 51 16 00-0493	EA 3" Polypropylene-UV Black Flue/Vent 87 Degree Elbow.....	67.55	20.42
23 51 16 00-0494	EA 4" Polypropylene-UV Black Flue/Vent 87 Degree Elbow.....	81.75	21.16
23 51 16 00-0495	EA 2" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	36.41	9.70
23 51 16 00-0496	EA 3" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	41.83	10.20
23 51 16 00-0497	EA 4" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	46.39	10.59
23 51 16 00-0498	EA 3" Stainless Steel Bird Screen For Polypropylene Flue/Vent.....	85.05	10.20
23 51 16 00-0499	EA 5" Stainless Steel Bird Screen For Polypropylene Flue/Vent.....	97.33	11.01
23 51 16 00-0500	Polypropylene Flue/Vent Accessories (23 51 16 00-0372)		
23 51 16 00-0501	EA 2" Spacer For Polypropylene Flue/Vent.....	18.51	4.85
23 51 16 00-0502	EA 3" Spacer For Polypropylene Flue/Vent.....	17.89	5.11
23 51 16 00-0503	EA 4" Spacer For Polypropylene Flue/Vent.....	18.45	5.29
23 51 16 00-0504	EA 5" Spacer For Polypropylene Flue/Vent.....	27.57	5.51
23 51 16 00-0505	EA 2" Flue Clamp For Polypropylene Flue/Vent.....	33.91	7.28
23 51 16 00-0506	EA 3" Flue Clamp For Polypropylene Flue/Vent.....	39.36	7.66
23 51 16 00-0507	EA 4" Flue Clamp For Polypropylene Flue/Vent.....	45.16	7.94
23 51 16 00-0508	EA 2" Support Clamp For Polypropylene Flue/Vent.....	32.44	7.28
23 51 16 00-0509	EA 4" Support Clamp For Polypropylene Flue/Vent.....	32.74	7.94
23 51 16 00-0510	EA 5" Support Clamp For Polypropylene Flue/Vent.....	39.13	8.26
23 51 16 00-0511	EA 3" Plastic Support Clamp For Polypropylene Flue/Vent.....	25.90	7.66
23 51 16 00-0512	EA 2" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	53.82	19.40

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51	16 00-0513	EA	3" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	58.81	20.42
23 51	16 00-0514	EA	4" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	62.88	21.16
23 51	16 00-0515	EA	5" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	69.36	22.03
23 51	16 00-0516	EA	2" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	3.39	
23 51	16 00-0517	EA	3" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	3.79	
23 51	16 00-0518	EA	4" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	5.13	
23 51	16 00-0519	EA	5" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	8.47	
23 51	16 00-0520	EA	2" Connector Ring For Polypropylene Flue/Vent.....	15.77	4.85
23 51	16 00-0521	EA	3" Connector Ring For Polypropylene Flue/Vent.....	17.63	5.11
23 51	16 00-0522	EA	4" Connector Ring For Polypropylene Flue/Vent.....	18.88	5.29
23 51	16 00-0523	EA	5" Connector Ring For Polypropylene Flue/Vent.....	20.69	5.51
23 51	16 00-0524	EA	2 1/4" Polypropylene Flue/Vent Air Intake, White.....	71.40	9.70
23 51	16 00-0525	EA	3 1/5" Polypropylene Flue/Vent Air Intake, White.....	73.35	10.20
23 51	16 00-0526	EA	4 1/6" Polypropylene Flue/Vent Air Intake, White.....	56.07	10.59
23 51	16 00-0527	EA	2" Base Support For Polypropylene Flue/Vent.....	61.46	7.28
23 51	16 00-0528	EA	3" Base Support For Polypropylene Flue/Vent.....	63.48	7.66
23 51	16 00-0529	EA	4" Base Support For Polypropylene Flue/Vent.....	83.99	7.94
23 51	16 00-0530	EA	5" Base Support For Polypropylene Flue/Vent.....	139.59	8.26
23 51	16 00-0531		Polypropylene Flue/Vent Flex Pipe (23 51 16 00-0372)		
23 51	16 00-0532	LF	2", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	11.30	1.70
23 51	16 00-0533	LF	2", > 50', Polypropylene Flue/Vent Flex Pipe.....	9.89	1.70
23 51	16 00-0534	LF	3", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	13.84	2.01
23 51	16 00-0535	LF	3", > 50', Polypropylene Flue/Vent Flex Pipe.....	12.08	2.01
23 51	16 00-0536	LF	4", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	19.74	2.48
23 51	16 00-0537	LF	4", > 50', Polypropylene Flue/Vent Flex Pipe.....	17.03	2.48
23 51	16 00-0538		Polypropylene Flue/Vent Couplers (23 51 16 00-0372)		
			Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51	16 00-0539	EA	2" Polypropylene Flue/Vent Coupler, Single Wall to Flex.....	83.45	19.40
23 51	16 00-0540	EA	2" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	92.26	19.40
23 51	16 00-0541	EA	3" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	177.91	20.42
23 51	16 00-0542	EA	4" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	316.63	21.16
23 51	16 00-0543	EA	2" Polypropylene Flue/Vent Coupler, Flex to Flex.....	94.85	19.40
23 51	16 00-0544	EA	3" Polypropylene Flue/Vent Coupler, Flex to Flex.....	210.08	20.42
23 51	16 00-0545	EA	4" Polypropylene Flue/Vent Coupler, Flex to Flex.....	527.61	21.16
23 51	16 00-0546		Polypropylene Flue/Vent Flex End Terminations (23 51 16 00-0372)		
23 51	16 00-0547	EA	2" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	106.54	19.40
23 51	16 00-0548	EA	3" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	99.73	20.42
23 51	16 00-0549	EA	4" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	121.19	21.16
23 51	16 00-0550		Aluminum Flue/Vent Fittings (23 51 16)		
23 51	16 00-0551		Aluminum Vent Top Caps (23 51 16 00-0550)		
23 51	16 00-0552	EA	3" Aluminum Vent Cap (Star-Kap® 3-SK).....	101.43	19.23
23 51	16 00-0553	EA	4" Aluminum Vent Cap (Star-Kap® 4-SK).....	107.73	18.85
23 51	16 00-0554	EA	5" Aluminum Vent Cap (Star-Kap® 5-SK).....	116.53	19.74
23 51	16 00-0555	EA	6" Aluminum Vent Cap (Star-Kap® 6-SK).....	159.23	20.65
23 51	16 00-0556	EA	8" Aluminum Vent Cap (Star-Kap® 8-SK).....	178.02	22.97
23 51	16 00-0557	EA	10" Aluminum Vent Cap (Star-Kap® 10-SK).....	488.42	24.26
23 51	16 00-0558	EA	12" Aluminum Vent Cap (Star-Kap® 12-SK).....	501.02	25.81
23 52	Heating Boilers (23 50)				
23 52 13	Electric Boilers (23 52)				
23 52 13 00-0001	Packaged Electric Steam Boiler (23 52 13)				
			Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.		
23 52	13 00-0002	EA	12 KW, 42 MBH Electric Steam Boiler With Packaged Standard Controls.....	8,406.31	778.40
23 52	13 00-0003	EA	24 KW, 84 MBH Electric Steam Boiler With Packaged Standard Controls.....	9,082.43	908.13
23 52	13 00-0004	EA	36 KW, 126 MBH Electric Steam Boiler With Packaged Standard Controls.....	9,698.82	973.00
23 52	13 00-0005	EA	48 KW, 168 MBH Electric Steam Boiler With Packaged Standard Controls.....	10,754.96	1,037.87
23 52	13 00-0006	EA	60 KW, 210 MBH Electric Steam Boiler With Packaged Standard Controls.....	11,787.03	1,102.74
23 52	13 00-0007	EA	80 KW, 280 MBH Electric Steam Boiler With Packaged Standard Controls.....	13,717.89	1,232.47
23 52	13 00-0008	EA	100 KW, 350 MBH Electric Steam Boiler With Packaged Standard Controls.....	15,648.87	1,362.21
23 52	13 00-0009	EA	120 KW, 420 MBH Electric Steam Boiler With Packaged Standard Controls.....	16,329.48	1,427.07
23 52	13 00-0010	EA	140 KW, 490 MBH Electric Steam Boiler With Packaged Standard Controls.....	17,293.96	1,491.94
23 52	13 00-0011	EA	160 KW, 560 MBH Electric Steam Boiler With Packaged Standard Controls.....	22,360.06	1,621.67
23 52	13 00-0012	EA	180 KW, 630 MBH Electric Steam Boiler With Packaged Standard Controls.....	23,282.30	1,686.53
23 52	13 00-0013	EA	200 KW, 700 MBH Electric Steam Boiler With Packaged Standard Controls.....	23,989.64	1,682.33
23 52	13 00-0014	EA	220 KW, 770 MBH Electric Steam Boiler With Packaged Standard Controls.....	24,985.99	1,806.94
23 52	13 00-0015	EA	240 KW, 840 MBH Electric Steam Boiler With Packaged Standard Controls.....	26,936.02	1,931.56
23 52	13 00-0016	EA	260 KW, 910 MBH Electric Steam Boiler With Packaged Standard Controls.....	29,000.54	2,118.49
23 52	13 00-0017	EA	280 KW, 980 MBH Electric Steam Boiler With Packaged Standard Controls.....	30,861.31	2,180.80



Heating, Ventilating, and Air-Conditioning (HVAC)

23

Central Heating Equipment

23 50

Heating Boilers

23 52

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 13 00-0018 EA 300 KW, 1,050 MBH Electric Steam Boiler With Packaged Standard Controls.....	32,333.18	2,243.11
23 52 13 00-0019 EA 320 KW, 1,120 MBH Electric Steam Boiler With Packaged Standard Controls.....	34,487.94	2,305.42
23 52 13 00-0020 EA 360 KW, 1,260 MBH Electric Steam Boiler With Packaged Standard Controls.....	36,643.33	2,367.72
23 52 13 00-0021 EA 400 KW, 1,400 MBH Electric Steam Boiler With Packaged Standard Controls.....	39,203.61	2,492.34
23 52 13 00-0022 EA 460 KW, 1,610 MBH Electric Steam Boiler With Packaged Standard Controls.....	41,851.15	2,616.95
23 52 13 00-0023 EA 500 KW, 1,750 MBH Electric Steam Boiler With Packaged Standard Controls.....	44,436.36	2,679.26
23 52 13 00-0024 EA 600 KW, 2,100 MBH Electric Steam Boiler With Packaged Standard Controls.....	49,100.80	2,741.57
23 52 13 00-0025 EA 700 KW, 2,450 MBH Electric Steam Boiler With Packaged Standard Controls.....	52,878.94	2,866.19
23 52 13 00-0026 EA 756 KW, 2,646 MBH Electric Steam Boiler With Packaged Standard Controls.....	54,159.09	2,990.81
23 52 13 00-0027 EA 828 KW, 2,898 MBH Electric Steam Boiler With Packaged Standard Controls.....	59,401.71	3,177.73
23 52 13 00-0028 EA 936 KW, 3,276 MBH Electric Steam Boiler With Packaged Standard Controls.....	61,382.18	3,364.66
23 52 13 00-0029 EA 1,008 KW, 3,528 MBH Electric Steam Boiler With Packaged Standard Controls.....	63,487.27	3,551.58
23 52 13 00-0030 EA 1,116 KW, 3,906 MBH Electric Steam Boiler With Packaged Standard Controls.....	67,310.20	3,738.51
23 52 13 00-0031 EA 1,224 KW, 4,284 MBH Electric Steam Boiler With Packaged Standard Controls.....	69,019.81	3,863.13
23 52 13 00-0032 EA 1,368 KW, 4,788 MBH Electric Steam Boiler With Packaged Standard Controls.....	71,257.75	4,112.36
23 52 13 00-0033 EA 1,440 KW, 5,040 MBH Electric Steam Boiler With Packaged Standard Controls.....	73,693.42	4,361.59
23 52 13 00-0034 EA 1,512 KW, 5,292 MBH Electric Steam Boiler With Packaged Standard Controls.....	80,355.74	4,610.83
23 52 13 00-0035 EA 1,620 KW, 5,670 MBH Electric Steam Boiler With Packaged Standard Controls.....	84,677.14	4,860.06

23 52 13 00-0036

Packaged Electric Hot Water Boiler ^(23 52 13)

Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.). Rated by KW and MBH output.

23 52 13 00-0037 EA 9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls.....	7,408.13	713.53
23 52 13 00-0038 EA 12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls.....	7,772.71	778.40
23 52 13 00-0039 EA 18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,137.29	843.27
23 52 13 00-0040 EA 24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,507.85	908.13
23 52 13 00-0041 EA 36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,947.49	973.00
23 52 13 00-0042 EA 48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls.....	9,248.26	1,037.87
23 52 13 00-0043 EA 60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls.....	9,612.84	1,102.74
23 52 13 00-0044 EA 72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,159.72	1,167.60
23 52 13 00-0045 EA 84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,696.34	1,232.47
23 52 13 00-0046 EA 90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,988.01	1,297.34
23 52 13 00-0047 EA 105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls.....	11,817.96	1,362.21
23 52 13 00-0048 EA 120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls.....	12,619.68	1,427.07
23 52 13 00-0049 EA 135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls.....	14,086.27	1,491.94
23 52 13 00-0050 EA 150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls.....	15,089.53	1,556.81
23 52 13 00-0051 EA 165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls.....	15,898.88	1,621.67
23 52 13 00-0052 EA 180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls.....	17,166.86	1,686.53
23 52 13 00-0053 EA 195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls.....	18,234.17	1,802.33
23 52 13 00-0054 EA 225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls.....	19,561.91	1,686.94
23 52 13 00-0055 EA 240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls.....	21,023.37	1,931.56
23 52 13 00-0056 EA 270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls.....	22,475.72	2,118.49
23 52 13 00-0057 EA 300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls.....	23,937.17	2,243.11
23 52 13 00-0058 EA 330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls.....	25,330.36	2,367.72
23 52 13 00-0059 EA 360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls.....	27,346.63	2,430.03
23 52 13 00-0060 EA 390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls.....	29,124.11	2,492.34
23 52 13 00-0061 EA 420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls.....	30,828.68	2,616.95
23 52 13 00-0062 EA 450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls.....	32,607.39	2,616.95
23 52 13 00-0063 EA 504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls.....	35,677.36	2,679.26
23 52 13 00-0064 EA 612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls.....	37,300.96	2,741.57
23 52 13 00-0065 EA 684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls.....	39,409.19	2,866.19
23 52 13 00-0066 EA 720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls.....	40,946.56	2,928.50
23 52 13 00-0067 EA 750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls.....	42,490.28	2,990.81
23 52 13 00-0068 EA 810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls.....	43,670.90	3,177.73
23 52 13 00-0069 EA 900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls.....	45,777.30	3,364.66
23 52 13 00-0070 EA 1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls.....	53,099.26	3,551.58
23 52 13 00-0071 EA 1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls.....	58,203.48	3,738.51
23 52 13 00-0072 EA 1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls.....	60,394.70	3,863.13
23 52 13 00-0073 EA 1350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls.....	62,860.25	4,112.36
23 52 13 00-0074 EA 1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls.....	65,325.80	4,361.59
23 52 13 00-0075 EA 1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls.....	72,262.09	4,610.83
23 52 13 00-0076 EA 1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls.....	76,770.93	4,860.06
23 52 13 00-0077 EA 1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls.....	78,689.62	4,984.68
23 52 13 00-0078 EA 1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls.....	80,608.30	5,109.29
23 52 13 00-0079 EA 1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls.....	81,106.77	5,296.23
23 52 13 00-0080 EA 2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls.....	87,016.26	5,420.84
23 52 13 00-0081 EA 2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls.....	90,978.24	5,607.76
23 52 13 00-0082 EA 2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls.....	97,693.11	5,981.61
23 52 13 00-0083 EA 2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls.....	105,438.38	6,604.70
23 52 13 00-0084 EA 3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls.....	114,420.57	7,352.40
23 52 13 00-0085 EA 3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls.....	121,135.43	8,100.10

23 52 16 Condensing Boilers ^(23 52)

23 52 16 13 Stainless-Steel Condensing Boilers ^(23 52 16)

23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers ^(23 52 16 13)

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code).

23 52 16 13-0002 EA 75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79).....	14,019.61	518.94
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23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0003 EA 127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129)	14,847.76	691.22
23 52 16 13-0004 EA 168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179)	15,841.17	778.27
23 52 16 13-0005 EA 187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1)	16,791.92	821.60
23 52 16 13-0006 EA 281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299)	22,141.01	951.34
23 52 16 13-0007 EA 374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399)	25,617.03	1,037.74
23 52 16 13-0008 EA 589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599)	34,573.64	1,210.68
23 52 16 13-0009 EA 785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798)	48,010.30	1,383.74
Note: Includes vent manifold.		
23 52 16 13-0010 EA 980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998)	58,681.81	1,513.47
Note: Includes vent manifold.		
23 52 16 13-0011 EA 1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499)	84,652.38	1,772.81
23 52 16 13-0012 EA 1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999)	93,278.44	1,902.54
23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)		
Note: Includes Riello burners. Capacity given is IBR rating.		
23 52 16 13-0014 EA 484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145).....	41,450.83	1,124.27
23 52 16 13-0015 EA 612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185).....	43,549.60	1,210.68
23 52 16 13-0016 EA 791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240).....	48,315.22	1,383.74
23 52 16 13-0017 EA 1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310).....	52,512.76	1,556.67
23 52 16 13-0018 EA 1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400).....	58,624.22	1,686.40
23 52 16 13-0019 EA 1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510).....	66,906.27	1,772.81
23 52 16 13-0020 EA 2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640).....	79,424.38	1,902.54
23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13)		
Note: Includes Riello burners.		
23 52 16 13-0022 EA 2,650 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790).....	87,261.92	2,075.48
23 52 16 13-0023 EA 3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970).....	101,027.18	2,162.01
23 52 16 13-0024 EA 4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200).....	117,056.08	2,248.55
23 52 16 13-0025 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0026 EA 165 MBH 95.7% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211)	11,851.44	778.27
23 52 16 13-0027 EA 226 MBH 96% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN286)	15,456.33	864.80
23 52 16 13-0028 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0029 EA 324 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN400)	20,567.53	994.54
23 52 16 13-0030 EA 406 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN501)	25,247.38	1,037.74
23 52 16 13-0031 EA 493 MBH 94.6% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN601)	29,643.84	1,124.27
23 52 16 13-0032 EA 574 MBH 94.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN701)	34,091.12	1,167.47
23 52 16 13-0033 EA 654 MBH 94% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN801)	39,091.36	1,254.01
23 52 16 13-0034 Lochinvar SYNC Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0035 EA 941 MBH 94.1% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1000)	53,515.77	1,513.47
23 52 16 13-0036 EA 1,240 MBH 95.4% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1300)	60,932.36	1,643.07
23 52 16 13-0037 EA 1,443 MBH 96.2% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1500)	65,441.23	1,772.81
23 52 16 13-0038 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0039 EA 1,380 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1500)	65,005.53	1,686.40
23 52 16 13-0040 EA 1,840 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2000)	77,932.28	1,902.54
23 52 16 13-0041 EA 2,300 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2500)	101,303.42	1,989.08
23 52 16 13-0042 EA 2,760 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3000)	111,674.25	2,075.48
23 52 16 13-0043 EA 3,220 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3500)	132,878.68	2,162.01
23 52 16 13-0044 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13)		
Note: Compliant with SCAQMD. Rated by gross rated input.		
23 52 16 13-0045 EA 80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080)	7,533.74	562.13
23 52 16 13-0046 EA 105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105)	8,605.71	648.66
23 52 16 13-0047 EA 150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150)	9,685.10	778.27
23 52 16 13-0048 EA 210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210)	10,784.52	864.80
23 52 16 13-0049 EA 285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285)	13,454.13	951.34
23 52 16 13-0050 EA 399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399)	17,407.01	1,037.74
23 52 16 13-0051 EA 500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500)	20,811.03	1,124.27
23 52 16 13-0052 EA 600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600)	23,071.57	1,210.68
23 52 16 13-0053 EA 750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750)	25,046.24	1,297.21
23 52 16 13-0054 EA 850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850)	27,280.38	1,470.14



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 52 16 13-0055 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000).....	38,377.07	1,556.67
				23 52 16 13-0056 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700).....	50,808.71	1,816.14
				23 52 16 13-0057 EA 150 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV150).....	17,050.87	778.27
				23 52 16 13-0058 EA 199 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV199).....	19,629.81	1,037.87
				23 52 16 13-0059 EA 285 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV285).....	25,612.01	1,167.60
				23 52 16 13-0060 EA 399 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV399).....	32,145.60	1,427.07
				23 52 16 13-0061 EA 500 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV500).....	37,923.76	1,556.81
				23 52 16 13-0062 EA 600 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV600).....	42,852.88	1,686.53
				23 52 16 13-0063 EA 750 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV750).....	51,351.07	1,816.27
				23 52 16 13-0064 EA 850 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV850).....	56,881.57	1,946.00
				23 52 16 13-0065 EA 1,000 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1000).....	74,598.38	2,075.74
				23 52 16 13-0066 EA 1,700 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1700).....	100,250.99	2,724.40
23 52 16 13-0067				AERCO Benchmark Stainless-Steel Condensing Boilers <small>(23 52 16 13)</small>		
				23 52 16 13-0068 EA 1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN) Note: Includes gas PRV and pump delay relay.	54,363.74	1,772.81
				23 52 16 13-0069 EA 2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN) Note: Includes gas PRV and pump delay relay.	64,479.26	1,902.54
				23 52 16 13-0070 EA 3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)..... Note: Includes gas PRV and pump delay relay.	92,609.08	2,118.81
				23 52 16 13-0071 EA 3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)..... Note: Includes gas PRV and pump delay relay.	98,649.90	2,118.81
23 52 16 16				Aluminum Condensing Boilers <small>(23 52 16)</small>		
23 52 16 16-0001				Weil McLain Aluminum Condensing Boilers <small>(23 52 16 16)</small>		
				23 52 16 16-0002 EA 80 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	7,791.51	562.13
				23 52 16 16-0003 EA 105 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	8,606.82	648.66
				23 52 16 16-0004 EA 155 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	9,737.15	778.27
				23 52 16 16-0005 EA 230 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	10,923.02	864.80
				23 52 16 16-0006 EA 310 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	14,091.41	994.54
23 52 16 16-0007				Patterson Kelly Mach Series Aluminum Condensing Boilers <small>(23 52 16 16)</small>		
				Note: Rated by gross rated output.		
				23 52 16 16-0008 EA 300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C300).....	22,197.72	951.34
				23 52 16 16-0009 EA 450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C450).....	24,968.86	1,081.07
				23 52 16 16-0010 EA 750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C750).....	28,292.78	1,297.21
				23 52 16 16-0011 EA 900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C900).....	41,872.74	1,470.14
				23 52 16 16-0012 EA 1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1050).....	43,743.47	1,556.67
				23 52 16 16-0013 EA 1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1500).....	67,804.49	1,772.81
				23 52 16 16-0014 EA 2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2000).....	73,421.82	1,902.54
				23 52 16 16-0015 EA 2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2500).....	84,982.62	2,075.48
				23 52 16 16-0016 EA 3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C3000).....	105,173.56	2,118.81
				23 52 16 16-0017 EA 4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C4000).....	128,353.97	2,248.55
23 52 16 16-0018				Buderus GB142 Wall Hung Aluminum Condensing Boilers <small>(23 52 16 16)</small>		
				Note: Includes standard controls.		
				23 52 16 16-0019 EA 75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	9,245.08	518.94
				23 52 16 16-0020 EA 95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	10,734.82	605.33
				23 52 16 16-0021 EA 143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	12,350.22	735.07
				23 52 16 16-0022 EA 193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	13,506.86	821.60
				23 52 16 16-0023 EA Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46).....	429.09	129.73
				23 52 16 16-0024 EA Optional Stainless Steel Concentric Hood For GB142 (Buderus SJT3).....	570.11	129.73
				23 52 16 16-0025 EA Optional GB Floor Stand For GB142 (Buderus 7098265).....	1,248.60	129.73
23 52 16 16-0026				Buderus GB162 Wall Hung Aluminum Condensing Boilers <small>(23 52 16 16)</small>		
				Note: Includes standard controls.		
				23 52 16 16-0027 EA 290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80) Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.	12,772.41	951.34
				23 52 16 16-0028 EA 333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100) Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.	15,752.22	994.54
				23 52 16 16-0029 EA 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	30,397.48	1,167.47

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 16-0030 EA 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	28,409.13	1,167.47
23 52 16 16-0031 EA 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	36,357.10	1,254.01
23 52 16 16-0032 EA 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	34,368.75	1,254.01
23 52 16 16-0033 EA 870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	42,270.03	1,470.14
23 52 16 16-0034 EA 999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	51,079.73	1,556.67
23 52 16 16-0035 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	52,504.37	1,643.07
23 52 16 16-0036 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	53,300.71	1,643.07
23 52 16 16-0037 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	64,034.42	1,686.40
23 52 16 16-0038 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	64,830.76	1,686.40
23 52 16 16-0039 EA EMS Control Module For Condensing Boiler (Buderus RC35).....	857.34	129.73
23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers (23 52 16 16) Note: Includes standard controls.		
23 52 16 16-0041 EA 305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90)..... Note: Includes an aluminum heat exchanger.	24,884.85	951.34
23 52 16 16-0042 EA 409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120)..... Note: Includes an aluminum heat exchanger.	27,371.91	1,037.74
23 52 16 16-0043 EA 544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160)..... Note: Includes an aluminum heat exchanger.	32,498.86	1,145.81
23 52 16 16-0044 EA 676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200)..... Note: Includes an aluminum heat exchanger.	37,401.00	1,254.01
23 52 16 16-0045 EA 810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240)..... Note: Includes an aluminum heat exchanger.	44,820.40	1,383.74
23 52 16 16-0046 EA 944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280)..... Note: Includes an aluminum heat exchanger.	49,501.31	1,513.47
23 52 16 16-0047 EA Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....	742.83	64.87
23 52 16 16-0048 EA Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....	354.53	64.87
23 52 16 16-0049 EA Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550).....	511.90	64.87
23 52 16 16-0050 EA Optional Condensate Neutralization Tank For GB312 (Buderus 63035899).....	1,096.38	64.87
23 52 16 19 Copper Water-Tube Condensing Boilers (23 52 16)		
23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers (23 52 16 19)		
23 52 16 19-0002 EA 1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	51,111.37	1,643.07
23 52 16 19-0003 EA 1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	57,624.47	1,816.14
23 52 16 19-0004 EA 2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	63,046.41	1,902.54
23 52 16 19-0005 EA 2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	68,027.63	1,989.08
23 52 16 23 Cast Iron Condensing Boilers (23 52 16)		
23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers (23 52 16 23) Note: Rated by gross rated output.		
23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....	17,282.78	821.60
23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....	25,253.20	1,037.74
23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....	41,382.07	1,210.68
23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....	54,309.74	1,556.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....	72,327.95	1,816.14
23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....	78,875.06	1,902.54
23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....	100,291.28	2,075.48
23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....	109,580.83	2,118.81
 23 52 23 Cast-Iron Boilers (23 52)		
23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler (23 52 23)		
Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0003 EA 209 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 380).....	15,626.05	3,268.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 480).....	17,000.88	3,486.37
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 580).....	18,498.67	3,704.27
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 680).....	19,896.76	3,922.16
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 780).....	21,193.58	4,140.06
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 880).....	22,941.36	4,357.96
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 980).....	24,309.02	4,575.85
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1080).....	25,410.29	4,793.75
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0011 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1180).....	26,507.70	5,011.66
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0012 EA 1,018 MBH Steam, 1,172 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1280).....	27,763.38	5,229.55
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0014 EA 209 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 380).....	10,422.11	498.47
Note: Fire tested factory assembled package unit.		
23 52 23 00-0015 EA 297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 480).....	11,530.97	498.47
Note: Fire tested factory assembled package unit.		
23 52 23 00-0016 EA 386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 580).....	13,263.29	623.09
Note: Fire tested factory assembled package unit.		
23 52 23 00-0017 EA 476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 680).....	14,393.94	623.09
Note: Fire tested factory assembled package unit.		
23 52 23 00-0018 EA 565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 780).....	15,925.59	747.70
Note: Fire tested factory assembled package unit.		
23 52 23 00-0019 EA 654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 880).....	17,420.88	747.70
Note: Fire tested factory assembled package unit.		
23 52 23 00-0020 EA 743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 980).....	19,021.33	872.32
Note: Fire tested factory assembled package unit.		
23 52 23 00-0021 EA 833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1080).....	20,355.74	996.93
Note: Fire tested factory assembled package unit.		
23 52 23 00-0022 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1180).....	21,189.39	996.93
Note: Fire tested factory assembled package unit.		
23 52 23 00-0023 EA 1018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1280).....	22,676.32	1,121.55
Note: Fire tested factory assembled package unit.		
23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0025 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 380).....	16,273.93	3,268.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0026 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler.....	17,764.59	3,486.37
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0027 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler.....	19,192.42	3,704.27
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0028 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler.....	20,778.57	3,922.16
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0029 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler.....	22,099.47	4,140.06
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0030 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler.....	23,994.03	4,357.96
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0031 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler.....	25,212.62	4,575.85
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0032 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler.....	26,399.89	4,793.75
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0033 EA 922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler.....	27,498.45	5,011.66
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0034 EA 1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler.....	28,785.08	5,229.55
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0035 Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0036 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 380)..... Note: Fire tested factory assembled package cast iron unit.	11,070.00	498.47
23 52 23 00-0037 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 480)..... Note: Fire tested factory assembled package cast iron unit.	12,294.68	498.47
23 52 23 00-0038 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 580)..... Note: Fire tested factory assembled package cast iron unit.	13,957.05	623.09
23 52 23 00-0039 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 680)..... Note: Fire tested factory assembled package cast iron unit.	15,275.75	623.09
23 52 23 00-0040 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 780)..... Note: Fire tested factory assembled package cast iron unit.	16,831.48	747.70
23 52 23 00-0041 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 880)..... Note: Fire tested factory assembled package cast iron unit.	18,473.55	747.70
23 52 23 00-0042 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 980)..... Note: Fire tested factory assembled package cast iron unit.	19,924.93	872.32
23 52 23 00-0043 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1080)..... Note: Fire tested factory assembled package cast iron unit.	21,345.34	996.93
23 52 23 00-0044 EA 922 MBH Steam, 1,069 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1180)..... Note: Fire tested factory assembled package cast iron unit.	22,180.14	996.93
23 52 23 00-0045 EA 1,018 MBH Steam, 1,172 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1280)..... Note: Fire tested factory assembled package cast iron unit.	23,698.03	1,121.55
23 52 23 00-0046 Weil-McLain Model 88 Cast Iron Boiler (23 52 23) Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0047 Gas Fired Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0048 EA 629 MBH Steam, 730 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 488)..... Note: Includes field assembly of individual sections and testing.	24,910.01	4,902.70
23 52 23 00-0049 EA 845 MBH Steam, 979 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 588)..... Note: Includes field assembly of individual sections and testing.	27,377.22	5,202.31
23 52 23 00-0050 EA 1072 MBH Steam, 1229 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 688)..... Note: Includes field assembly of individual sections and testing.	30,406.41	5,501.92
23 52 23 00-0051 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 788)..... Note: Includes field assembly of individual sections and testing.	33,087.65	5,801.53
23 52 23 00-0052 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 888)..... Note: Includes field assembly of individual sections and testing.	35,432.63	6,101.14
23 52 23 00-0053 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 988)..... Note: Includes field assembly of individual sections and testing.	38,784.22	6,400.75
23 52 23 00-0054 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1088)..... Note: Includes field assembly of individual sections and testing.	41,150.15	6,700.36
23 52 23 00-0055 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1188)..... Note: Includes field assembly of individual sections and testing.	43,255.31	6,999.97
23 52 23 00-0056 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1288)..... Note: Includes field assembly of individual sections and testing.	46,030.89	7,299.58
23 52 23 00-0057 EA 2,657 MBH Steam, 2,976 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1388)..... Note: Includes field assembly of individual sections and testing.	48,283.70	7,599.19
23 52 23 00-0058 EA 2,880 MBH Steam, 3,225 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1488)..... Note: Includes field assembly of individual sections and testing.	52,209.96	7,898.80
23 52 23 00-0059 EA 3,102 MBH Steam, 3,475 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1588)..... Note: Includes field assembly of individual sections and testing.	54,358.56	8,198.41
23 52 23 00-0060 EA 3,325 MBH Steam, 3,724 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1688)..... Note: Includes field assembly of individual sections and testing.	56,631.00	8,498.02
23 52 23 00-0061 EA 3,548 MBH Steam, 3,974 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1788)..... Note: Includes field assembly of individual sections and testing.	59,151.45	8,797.62
23 52 23 00-0062 EA 3,771 MBH Steam, 4,223 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1888)..... Note: Includes field assembly of individual sections and testing.	61,221.36	9,097.23
23 52 23 00-0063 Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046)		
23 52 23 00-0064 EA 629 MBH Steam, 730 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 488)..... Note: Fire tested factory assembled package unit.	19,037.39	872.32
23 52 23 00-0065 EA 845 MBH Steam, 979 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 588)..... Note: Fire tested factory assembled package unit.	21,599.91	996.93
23 52 23 00-0066 EA 1,072 MBH Steam, 1,229 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 688)..... Note: Fire tested factory assembled package unit.	24,738.09	1,121.55
23 52 23 00-0067 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 788)..... Note: Fire tested factory assembled package unit.	27,503.57	1,246.17
23 52 23 00-0068 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 888)..... Note: Fire tested factory assembled package unit.	29,443.79	1,246.17
23 52 23 00-0069 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 988)..... Note: Fire tested factory assembled package unit.	32,893.85	1,370.79
23 52 23 00-0070 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1088)..... Note: Fire tested factory assembled package unit.	34,858.14	1,370.79
23 52 23 00-0071 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1188)..... Note: Fire tested factory assembled package unit.	37,058.33	1,495.41
23 52 23 00-0072 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1288)..... Note: Fire tested factory assembled package unit.	39,433.14	1,495.41
23 52 23 00-0073 EA 2,657 MBH Steam, 2,976 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1388)..... Note: Fire tested factory assembled package unit.	41,781.27	1,620.02
23 52 23 00-0074 EA 2,880 MBH Steam, 3,225 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1488)..... Note: Fire tested factory assembled package unit.	44,059.40	1,744.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0075 EA 3,102 MBH Steam, 3,475 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1588).....	45,806.97	1,744.64
Note: Fire tested factory assembled package unit.		
23 52 23 00-0076 EA 3,325 MBH Steam, 3,724 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1688).....	48,175.70	1,869.25
Note: Fire tested factory assembled package unit.		
23 52 23 00-0077 EA 3,548 MBH Steam, 3,974 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1788).....	50,293.65	1,869.25
Note: Fire tested factory assembled package unit.		
23 52 23 00-0078 EA 3,771 MBH Steam, 4,223 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1888).....	52,483.44	1,993.87
Note: Fire tested factory assembled package unit.		
23 52 23 00-0079 Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0080 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 488)	25,708.12	4,902.70
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0081 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 588)	28,170.74	5,202.31
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0082 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 688)	31,406.33	5,501.92
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0083 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 788)	34,188.49	5,801.53
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0084 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 888)	36,421.09	6,101.14
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0085 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 988)	39,710.75	6,400.75
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0086 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1088)	42,541.09	6,700.36
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0087 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1188)	44,646.26	6,999.97
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0088 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1288)	47,394.32	7,299.58
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0089 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1388)	50,233.09	7,599.19
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0090 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1488)	54,257.97	7,898.80
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0091 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1588)	57,095.74	8,198.41
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0092 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1688)	58,677.86	8,498.02
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0093 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1788)	61,136.39	8,797.62
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0094 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1888)	63,228.08	9,097.23
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0095 Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small>		
23 52 23 00-0096 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 488).....	19,835.49	872.32
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0097 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 588).....	22,393.42	996.93
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0098 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 688).....	25,726.54	1,121.55
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0099 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 788).....	28,604.41	1,246.17
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0100 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 888).....	30,434.54	1,246.17
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0101 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 988).....	33,820.38	1,370.79
Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.		
23 52 23 00-0102 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1088).....	36,249.09	1,370.79
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0103 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1188).....	38,449.27	1,495.41
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0104 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1288).....	40,796.57	1,495.41
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0105 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1388).....	43,736.39	1,620.02
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0106 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1488).....	46,107.40	1,744.64
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0107 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1588).....	47,397.44	1,744.64
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0108 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1688).....	50,222.56	1,869.25
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0109 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1788).....	52,278.59	1,869.25
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0110 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1888).....	54,467.23	1,993.87
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0111 Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23)</small>		
Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0112 Gas Fired Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0113 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	65,717.06	9,533.04
23 52 23 00-0114 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	71,119.35	10,077.77
23 52 23 00-0115 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	76,068.51	10,622.52
23 52 23 00-0116 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	80,917.53	11,167.27
23 52 23 00-0117 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1294) Note: Includes field assembly of individual sections and testing.	85,810.71	11,712.02
23 52 23 00-0118 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1394) Note: Includes field assembly of individual sections and testing.	92,293.95	12,256.76
23 52 23 00-0119 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1494) Note: Includes field assembly of individual sections and testing.	96,914.31	12,801.50
23 52 23 00-0120 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1594) Note: Includes field assembly of individual sections and testing.	101,390.72	13,346.25
23 52 23 00-0121 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1694) Note: Includes field assembly of individual sections and testing.	108,566.90	13,890.99
23 52 23 00-0122 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1794) Note: Includes field assembly of individual sections and testing.	113,040.80	14,435.74
23 52 23 00-0123 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1894) Note: Includes field assembly of individual sections and testing.	116,902.93	14,980.48
23 52 23 00-0124 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	123,835.06	15,525.22
23 52 23 00-0125 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	128,344.47	16,069.97
23 52 23 00-0126 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	135,432.80	16,614.72
23 52 23 00-0127 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	140,170.55	17,159.47
23 52 23 00-0128 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2394) Note: Includes field assembly of individual sections and testing.	145,338.76	17,704.20
23 52 23 00-0129 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2494) Note: Includes field assembly of individual sections and testing.	149,802.00	18,248.95
23 52 23 00-0130 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2594) Note: Includes field assembly of individual sections and testing.	154,388.44	18,793.70
23 52 23 00-0131 Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
23 52 23 00-0132 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-894) Note: Fire tested factory assembled package cast iron unit.	57,296.12	1,620.02
23 52 23 00-0133 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-994) Note: Fire tested factory assembled package cast iron unit.	62,469.67	1,744.64
23 52 23 00-0134 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1094) Note: Fire tested factory assembled package cast iron unit.	67,186.84	1,869.25
23 52 23 00-0135 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1194) Note: Fire tested factory assembled package cast iron unit.	71,807.63	1,993.87
23 52 23 00-0136 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1294) Note: Fire tested factory assembled package cast iron unit.	75,970.15	1,993.87
23 52 23 00-0137 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1394) Note: Fire tested factory assembled package cast iron unit.	80,483.33	2,118.49
23 52 23 00-0138 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1494) Note: Fire tested factory assembled package cast iron unit.	84,374.08	2,118.49
23 52 23 00-0139 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1594) Note: Fire tested factory assembled package cast iron unit.	88,619.91	2,243.11
23 52 23 00-0140 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	95,067.80	2,243.11
23 52 23 00-0141 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	99,312.47	2,367.72
23 52 23 00-0142 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	102,445.26	2,367.72
23 52 23 00-0143 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	109,149.73	2,492.34
23 52 23 00-0144 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	112,929.25	2,492.34
23 52 23 00-0145 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	119,808.05	2,616.95
23 52 23 00-0146 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	123,795.12	2,616.95
23 52 23 00-0147 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	128,731.31	2,741.57
23 52 23 00-0148 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	132,466.12	2,741.57
23 52 23 00-0149 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	136,822.01	2,866.19
23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0151 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	62,295.31	9,533.04
23 52 23 00-0152 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	67,697.59	10,077.77



Heating, Ventilating, and Air-Conditioning (HVAC)

23

Central Heating Equipment

23 50

Heating Boilers

23 52

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0153 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	74,231.50	10,622.52
23 52 23 00-0154 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	78,666.56	11,167.27
23 52 23 00-0155 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1294) Note: Includes field assembly of individual sections and testing.	83,277.65	11,712.02
23 52 23 00-0156 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1394) Note: Includes field assembly of individual sections and testing.	89,445.55	12,256.76
23 52 23 00-0157 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1494) Note: Includes field assembly of individual sections and testing.	94,279.19	12,801.50
23 52 23 00-0158 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1594) Note: Includes field assembly of individual sections and testing.	98,757.89	13,346.25
23 52 23 00-0159 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1694) Note: Includes field assembly of individual sections and testing.	106,752.82	13,890.99
23 52 23 00-0160 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1794) Note: Includes field assembly of individual sections and testing.	111,227.87	14,435.74
23 52 23 00-0161 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1894) Note: Includes field assembly of individual sections and testing.	115,701.18	14,980.48
23 52 23 00-0162 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	123,843.08	15,525.22
23 52 23 00-0163 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	128,352.50	16,069.97
23 52 23 00-0164 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	135,625.44	16,614.72
23 52 23 00-0165 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	140,362.05	17,159.47
23 52 23 00-0166 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2394) Note: Includes field assembly of individual sections and testing.	145,431.64	17,704.20
23 52 23 00-0167 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2494) Note: Includes field assembly of individual sections and testing.	149,894.88	18,248.95
23 52 23 00-0168 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2594) Note: Includes field assembly of individual sections and testing.	154,488.21	18,793.70
23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
23 52 23 00-0170 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-894) Note: Fire tested factory assembled package cast iron unit.	53,688.60	1,620.02
23 52 23 00-0171 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-994) Note: Fire tested factory assembled package cast iron unit.	58,862.15	1,744.64
23 52 23 00-0172 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094) Note: Fire tested factory assembled package cast iron unit.	65,164.06	1,869.25
23 52 23 00-0173 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194) Note: Fire tested factory assembled package cast iron unit.	69,370.89	1,993.87
23 52 23 00-0174 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294) Note: Fire tested factory assembled package cast iron unit.	73,251.33	1,993.87
23 52 23 00-0175 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394) Note: Fire tested factory assembled package cast iron unit.	77,449.16	2,118.49
23 52 23 00-0176 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494) Note: Fire tested factory assembled package cast iron unit.	81,553.20	2,118.49
23 52 23 00-0177 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594) Note: Fire tested factory assembled package cast iron unit.	85,799.03	2,243.11
23 52 23 00-0178 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	93,067.96	2,243.11
23 52 23 00-0179 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	97,311.48	2,367.72
23 52 23 00-0180 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	101,057.75	2,367.72
23 52 23 00-0181 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	108,971.99	2,492.34
23 52 23 00-0182 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	112,751.51	2,492.34
23 52 23 00-0183 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	119,791.99	2,616.95
23 52 23 00-0184 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	123,800.86	2,616.95
23 52 23 00-0185 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	128,638.43	2,741.57
23 52 23 00-0186 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	132,373.23	2,741.57
23 52 23 00-0187 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	136,736.01	2,866.19
23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0189 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	66,792.67	9,533.04
23 52 23 00-0190 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	72,196.10	10,077.77
23 52 23 00-0191 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	77,438.82	10,622.52
23 52 23 00-0192 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	82,403.65	11,167.27

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 52 Heating Boilers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0193	EA		2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1294)..... Note: Includes field assembly of individual sections and testing.	87,270.46	11,712.02
23 52 23 00-0194	EA		2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1394)..... Note: Includes field assembly of individual sections and testing.	92,832.90	12,256.76
23 52 23 00-0195	EA		2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1494)..... Note: Includes field assembly of individual sections and testing.	98,704.31	12,801.50
23 52 23 00-0196	EA		3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1594)..... Note: Includes field assembly of individual sections and testing.	103,462.80	13,346.25
23 52 23 00-0197	EA		3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1694)..... Note: Includes field assembly of individual sections and testing.	110,819.02	13,890.99
23 52 23 00-0198	EA		3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1794)..... Note: Includes field assembly of individual sections and testing.	115,292.92	14,435.74
23 52 23 00-0199	EA		3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1894)..... Note: Includes field assembly of individual sections and testing.	119,235.31	14,980.48
23 52 23 00-0200	EA		4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1994)..... Note: Includes field assembly of individual sections and testing.	126,245.42	15,525.22
23 52 23 00-0201	EA		4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2094)..... Note: Includes field assembly of individual sections and testing.	131,901.54	16,069.97
23 52 23 00-0202	EA		4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2194)..... Note: Includes field assembly of individual sections and testing.	139,604.49	16,614.72
23 52 23 00-0203	EA		4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2294)..... Note: Includes field assembly of individual sections and testing.	144,307.84	17,159.47
23 52 23 00-0204	EA		4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2394)..... Note: Includes field assembly of individual sections and testing.	149,689.34	17,704.20
23 52 23 00-0205	EA		5,239 MBH Steam, 6,117 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2494)..... Note: Includes field assembly of individual sections and testing.	154,153.72	18,248.95
23 52 23 00-0206	EA		5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2594)..... Note: Includes field assembly of individual sections and testing.	158,743.61	18,793.70
23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)					
23 52 23 00-0208	EA		1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-894)..... Note: Fire tested factory assembled package cast iron unit.	58,455.43	1,620.02
23 52 23 00-0209	EA		1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-994)..... Note: Fire tested factory assembled package cast iron unit.	63,630.13	1,744.64
23 52 23 00-0210	EA		2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094)..... Note: Fire tested factory assembled package cast iron unit.	68,644.29	1,869.25
23 52 23 00-0211	EA		2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194)..... Note: Fire tested factory assembled package cast iron unit.	73,378.61	1,993.87
23 52 23 00-0212	EA		2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294)..... Note: Fire tested factory assembled package cast iron unit.	77,514.76	1,993.87
23 52 23 00-0213	EA		2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394)..... Note: Fire tested factory assembled package cast iron unit.	81,105.99	2,118.49
23 52 23 00-0214	EA		2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494)..... Note: Fire tested factory assembled package cast iron unit.	86,247.79	2,118.49
23 52 23 00-0215	EA		3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594)..... Note: Fire tested factory assembled package cast iron unit.	90,774.56	2,243.11
23 52 23 00-0216	EA		3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694)..... Note: Fire tested factory assembled package cast iron unit.	97,404.78	2,243.11
23 52 23 00-0217	EA		3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794)..... Note: Fire tested factory assembled package cast iron unit.	101,647.15	2,367.72
23 52 23 00-0218	EA		3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894)..... Note: Fire tested factory assembled package cast iron unit.	104,861.35	2,367.72
23 52 23 00-0219	EA		4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994)..... Note: Fire tested factory assembled package cast iron unit.	111,643.80	2,492.34
23 52 23 00-0220	EA		4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094)..... Note: Fire tested factory assembled package cast iron unit.	116,571.17	2,492.34
23 52 23 00-0221	EA		4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194)..... Note: Fire tested factory assembled package cast iron unit.	124,041.66	2,616.95
23 52 23 00-0222	EA		4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294)..... Note: Fire tested factory assembled package cast iron unit.	128,017.27	2,616.95
23 52 23 00-0223	EA		4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394)..... Note: Fire tested factory assembled package cast iron unit.	133,165.60	2,741.57
23 52 23 00-0224	EA		5,239 MBH Steam, 6,117 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494)..... Note: Fire tested factory assembled package cast iron unit.	136,901.55	2,741.57
23 52 23 00-0225	EA		5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594)..... Note: Fire tested factory assembled package cast iron unit.	141,262.04	2,866.19
23 52 33 Water-Tube Boilers (23 52)					
23 52 33 13 Finned Water-Tube Boilers (23 52 33)					
23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler (23 52 33 13)					
23 52 33 13-0002	EA		200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	10,179.33	770.62
23 52 33 13-0003	EA		300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	11,204.73	856.25
23 52 33 13-0004	EA		400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	12,885.88	1,027.49
23 52 33 13-0005	EA		500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	16,381.44	1,070.30
23 52 33 13-0006	EA		750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	19,253.26	1,284.36
23 52 33 13-0007	EA		1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	23,646.28	1,541.23
23 52 33 13-0008	EA		1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	26,821.96	1,626.86
23 52 33 13-0009	EA		1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	29,695.56	1,755.30
23 52 33 13-0010	EA		1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	32,357.67	1,840.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 13-0011 EA 2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	34,692.78	1,883.73
23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler <small>(23 52 33 13)</small>		
23 52 33 13-0013 EA 1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	35,163.67	1,541.23
23 52 33 13-0014 EA 1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	43,864.38	1,755.30
23 52 33 13-0015 EA 2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	46,745.07	1,883.73
23 52 33 13-0016 EA 2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	65,973.33	2,140.60
23 52 33 13-0017 EA 3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	69,246.77	2,397.48
23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler <small>(23 52 33 13)</small>		
23 52 33 13-0019 EA 340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402).....	11,885.05	691.48
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0020 EA 425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502).....	14,298.09	864.03
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0021 EA 552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652).....	15,440.05	1,037.87
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0022 EA 637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752).....	15,839.11	1,037.87
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0023 EA 841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992).....	19,656.49	1,297.34
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0024 EA 1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262).....	22,585.18	1,297.34
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0025 EA 1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442).....	24,522.49	1,297.34
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0026 EA 1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802).....	26,571.96	1,556.81
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0027 EA 1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072).....	31,405.74	1,816.27
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	<i>418.39</i>	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	<i>370.63</i>	
23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump <small>(23 52 33 13)</small>		
23 52 33 13-0029 EA 385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B).....	11,704.86	950.42
23 52 33 13-0030 EA 420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B).....	12,613.75	856.25
23 52 33 13-0031 EA 546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B).....	13,966.52	1,027.49
23 52 33 13-0032 EA 630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B).....	14,840.96	1,166.43
23 52 33 13-0033 EA 756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B).....	16,485.94	1,284.36
23 52 33 13-0034 EA 832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B).....	17,722.11	1,382.44
23 52 33 13-0035 EA 1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....	20,228.93	1,541.23
23 52 33 13-0036 EA 1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....	23,373.75	1,626.86
23 52 33 13-0037 EA 1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....	24,824.08	1,755.30
23 52 33 13-0038 EA 1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....	29,434.29	1,798.11
23 52 33 13-0039 EA 1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....	29,564.03	1,840.92
23 52 33 13-0040 EA 1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....	34,375.79	1,883.73
23 52 33 16 Steel Water-Tube Boilers <small>(23 52 33)</small>		
23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler <small>(23 52 33 16)</small>		
<i>Note: Compliant with BAAQMD.</i>		
23 52 33 16-0002 EA 1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....	71,682.22	2,075.74
23 52 33 16-0003 EA 1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....	77,290.86	2,594.68
23 52 33 16-0004 EA 2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....	78,824.53	2,854.14
23 52 33 16-0005 EA 2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....	84,928.97	3,113.61
23 52 33 16-0006 EA 3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....	87,992.75	3,502.81
23 52 33 16-0007 EA 3,750 MBH Output/3,188 MBH Input, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....	97,148.53	3,892.01
23 52 33 16-0008 EA 4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....	101,216.37	4,021.74
23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler <small>(23 52 33 16)</small>		
<i>Note: Compliant with BAAQMD.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 16-0010 EA 1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100LS).....	83,626.30	2,335.21
23 52 33 16-0011 EA 1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150LS).....	87,958.95	2,724.40
23 52 33 16-0012 EA 2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200LS).....	90,509.13	2,983.87
23 52 33 16-0013 EA 2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250LS).....	101,182.56	3,243.34
23 52 33 16-0014 EA 3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300LS).....	105,001.61	3,502.81
23 52 33 16-0015 EA 3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350LS).....	112,380.27	3,892.01
23 52 33 16-0016 EA 4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400LS).....	118,998.29	4,151.47
23 52 33 16-0017 EA 5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500LS).....	197,451.27	4,410.94
23 52 33 16-0018 EA 6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600LS).....	213,710.20	4,670.41
23 52 33 16-0019 EA 7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700LS).....	224,891.88	4,929.87
23 52 33 16-0020 EA 8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800LS).....	230,742.19	5,189.34
23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with BAAQMD.		
23 52 33 16-0022 EA 1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....	89,972.41	2,335.21
23 52 33 16-0023 EA 1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....	95,575.70	2,724.40
23 52 33 16-0024 EA 2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....	99,140.63	2,983.87
23 52 33 16-0025 EA 2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....	110,068.19	3,243.34
23 52 33 16-0026 EA 3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS).....	113,887.24	3,502.81
23 52 33 16-0027 EA 3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS).....	119,997.02	3,892.01
23 52 33 16-0028 EA 4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS).....	126,863.84	4,151.47
23 52 33 16-0029 EA 5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS).....	204,813.90	4,410.94
23 52 33 16-0030 EA 6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS).....	222,343.47	4,670.41
23 52 33 16-0031 EA 7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS).....	229,462.65	4,929.87
23 52 33 16-0032 EA 8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS).....	239,375.46	5,189.34
23 52 33 16-0033 EA 9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS).....	266,043.02	5,448.81
23 52 33 16-0034 EA 10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS).....	383,724.25	5,708.28
23 52 33 16-0035 EA 12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS).....	403,157.13	5,967.74
23 52 36 Fire-Box Boiler (23 52)		
23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36)		
Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP). boiler sizes are based on HP rating and gross output.		
23 52 36 00-0002 EA 40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	79,473.33	2,990.81
23 52 36 00-0003 EA 46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	83,117.39	3,240.04
23 52 36 00-0004 EA 53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	87,047.36	3,489.27
23 52 36 00-0005 EA 61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	94,122.90	3,738.51
23 52 36 00-0006 EA 69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	98,338.79	3,987.74
23 52 36 00-0007 EA 80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	102,483.36	4,236.97
23 52 36 00-0008 EA 100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	113,934.04	4,486.22
23 52 36 00-0009 EA 127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	131,788.31	4,984.68
23 52 36 00-0010 EA 151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	149,942.93	5,483.15
23 52 36 00-0011 EA 183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	164,504.46	6,043.93
23 52 36 00-0012 EA 220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	179,066.15	6,604.70
23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	188,458.44	7,726.26
23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	229,520.56	8,847.81
23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	271,583.52	9,969.35
23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	314,110.26	11,215.53
23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	355,584.89	12,150.15
23 52 39 Fire-Tube Boilers (23 52)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13				Scotch Marine Boilers <small>(23 52 39)</small>		
23 52 39 13-0001				15 PSI Steam Scotch Marine Boilers <small>(23 52 39 13)</small> Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0002				15 PSI Gas Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0001)</small>		
23 52 39 13-0003	EA			30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	63,434.75	1,370.79
23 52 39 13-0004	EA			40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	68,291.97	1,495.41
23 52 39 13-0005	EA			50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	74,172.55	1,620.02
23 52 39 13-0006	EA			60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	77,594.41	1,869.25
23 52 39 13-0007	EA			70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	81,325.65	1,993.87
23 52 39 13-0008	EA			80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	85,148.25	2,118.49
23 52 39 13-0009	EA			90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	87,774.89	2,180.80
23 52 39 13-0010	EA			100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	92,627.16	2,243.11
23 52 39 13-0011	EA			125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	104,704.78	2,492.34
23 52 39 13-0012	EA			150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	118,932.58	2,741.57
23 52 39 13-0013	EA			175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	130,458.84	3,021.96
23 52 39 13-0014	EA			200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	141,982.55	3,302.35
23 52 39 13-0015	EA			250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	149,966.82	3,863.13
23 52 39 13-0016	EA			300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	182,237.21	4,423.91
23 52 39 13-0017	EA			350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	197,394.64	4,984.68
23 52 39 13-0018	EA			400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	232,237.02	5,545.46
23 52 39 13-0019	EA			500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	281,722.70	6,106.24
23 52 39 13-0020	EA			600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	329,335.10	6,667.01
23 52 39 13-0021	EA			700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	374,914.74	7,227.78
23 52 39 13-0022	EA			800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	418,684.38	7,788.56
23 52 39 13-0023	EA			900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	649,845.21	8,349.33
23 52 39 13-0024	EA			1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	706,977.18	8,910.11
23 52 39 13-0025				15 PSI Oil Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0001)</small>		
23 52 39 13-0026	EA			30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	58,847.23	1,370.79
23 52 39 13-0027	EA			40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	63,359.16	1,495.41
23 52 39 13-0028	EA			50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	68,810.80	1,620.02
23 52 39 13-0029	EA			60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	75,029.35	1,869.25
23 52 39 13-0030	EA			70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	78,300.19	1,993.87
23 52 39 13-0031	EA			80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	81,565.18	2,118.49
23 52 39 13-0032	EA			90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	84,589.30	2,180.80
23 52 39 13-0033	EA			100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	90,588.26	2,243.11
23 52 39 13-0034	EA			125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	104,802.00	2,492.34
23 52 39 13-0035	EA			150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	119,038.38	2,741.57
23 52 39 13-0036	EA			175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	130,576.09	3,021.96
23 52 39 13-0037	EA			200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	142,111.23	3,302.35
23 52 39 13-0038	EA			250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	150,101.22	3,863.13
23 52 39 13-0039	EA			300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	182,403.07	4,423.91

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	197,571.94	4,984.68
23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	232,448.63	5,545.46
23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	281,980.07	6,106.24
23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	329,638.22	6,667.01
23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	375,260.75	7,227.78
23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	419,073.29	7,788.56
23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	650,459.98	8,349.33
23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	707,649.72	8,910.11
23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	65,442.61	1,370.79
23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	70,450.97	1,495.41
23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	76,514.56	1,620.02
23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	80,505.48	1,869.25
23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	84,002.24	1,993.87
23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	87,493.13	2,118.49
23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	90,740.30	2,180.80
23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	93,988.33	2,243.11
23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	108,753.97	2,492.34
23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	123,542.25	2,741.57
23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	135,514.61	3,021.96
23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	147,481.56	3,302.35
23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	155,711.76	3,863.13
23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	189,266.11	4,423.91
23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	204,972.58	4,984.68
23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	241,210.44	5,545.46
23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	292,712.15	6,106.24
23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	342,260.49	6,667.01
23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	389,693.15	7,227.78
23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	435,235.75	7,788.56
23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	676,173.22	8,349.33
23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	735,648.75	8,910.11
23 52 39 13-0071 125 PSI Water Scotch Marine Boilers (23 52 39 13)		
Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0072 125 PSI Gas Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0073 EA 40 HP, 1,339 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	75,026.33	1,495.41
23 52 39 13-0074 EA 50 HP, 1,674 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	84,163.99	1,620.02
23 52 39 13-0075 EA 60 HP, 2,009 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	90,488.35	1,869.25
23 52 39 13-0076 EA 70 HP, 2,343 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	97,262.20	1,993.87
23 52 39 13-0077 EA 80 HP, 2,678 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	104,176.03	2,118.49
23 52 39 13-0078 EA 90 HP, 3,013 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	109,656.55	2,180.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0079 EA 100 HP, 3,348 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	118,008.97	2,243.11
23 52 39 13-0080 EA 125 HP, 4,184 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	126,652.21	2,492.34
23 52 39 13-0081 EA 150 HP, 5,021 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,089.04	2,741.57
23 52 39 13-0082 EA 175 HP, 5,858 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	146,947.30	3,021.96
23 52 39 13-0083 EA 200 HP, 6,695 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	152,237.07	3,302.35
23 52 39 13-0084 EA 250 HP, 8,369 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	184,219.11	3,863.13
23 52 39 13-0085 EA 300 HP, 10,043 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	214,447.75	4,423.91
23 52 39 13-0086 EA 350 HP, 11,716 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	231,263.74	4,984.68
23 52 39 13-0087 EA 400 HP, 13,390 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	258,016.31	5,545.46
23 52 39 13-0088 EA 500 HP, 16,738 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	312,308.98	6,106.24
23 52 39 13-0089 EA 600 HP, 20,085 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	365,306.01	6,667.01
23 52 39 13-0090 EA 700 HP, 23,433 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	416,041.51	7,227.78
23 52 39 13-0091 EA 800 HP, 26,780 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	464,746.82	7,788.56
23 52 39 13-0092 EA 900 HP, 30,128 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	723,118.84	8,349.33
23 52 39 13-0093 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	786,769.89	8,910.11
23 52 39 13-0094 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0095 EA 40 HP, 1,339 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	69,558.78	1,495.41
23 52 39 13-0096 EA 50 HP, 1,674 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	78,010.13	1,620.02
23 52 39 13-0097 EA 60 HP, 2,009 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	87,448.59	1,869.25
23 52 39 13-0098 EA 70 HP, 2,343 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	93,581.90	1,993.87
23 52 39 13-0099 EA 80 HP, 2,678 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	99,706.48	2,118.49
23 52 39 13-0100 EA 90 HP, 3,013 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	105,587.34	2,180.80
23 52 39 13-0101 EA 100 HP, 3,348 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	115,349.54	2,243.11
23 52 39 13-0102 EA 125 HP, 4,184 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	126,769.45	2,492.34
23 52 39 13-0103 EA 150 HP, 5,021 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,214.86	2,741.57
23 52 39 13-0104 EA 175 HP, 5,858 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	147,081.70	3,021.96
23 52 39 13-0105 EA 200 HP, 6,695 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	152,377.19	3,302.35
23 52 39 13-0106 EA 250 HP, 8,369 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	184,387.83	3,863.13
23 52 39 13-0107 EA 300 HP, 10,043 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	214,645.06	4,423.91
23 52 39 13-0108 EA 350 HP, 11,716 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	231,475.35	4,984.68
23 52 39 13-0109 EA 400 HP, 13,390 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	258,253.66	5,545.46
23 52 39 13-0110 EA 500 HP, 16,738 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	312,597.80	6,106.24
23 52 39 13-0111 EA 600 HP, 20,085 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	365,646.30	6,667.01
23 52 39 13-0112 EA 700 HP, 23,433 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	416,430.41	7,227.78
23 52 39 13-0113 EA 800 HP, 26,780 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	465,181.48	7,788.56
23 52 39 13-0114 EA 900 HP, 30,128 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	723,807.89	8,349.33
23 52 39 13-0115 EA 1,000 HP, 33,476 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	787,520.83	8,910.11
23 52 39 13-0116 125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0117 EA 40 HP, 1,339 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	77,416.96	1,495.41
23 52 39 13-0118 EA 50 HP, 1,674 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	86,852.02	1,620.02
23 52 39 13-0119 EA 60 HP, 2,009 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	93,934.17	1,869.25

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0120 EA 70 HP, 2,343 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	100,522.14	1,993.87
23 52 39 13-0121 EA 80 HP, 2,678 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	107,104.26	2,118.49
23 52 39 13-0122 EA 90 HP, 3,013 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	113,442.66	2,180.80
23 52 39 13-0123 EA 100 HP, 3,348 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,781.92	2,243.11
23 52 39 13-0124 EA 125 HP, 4,184 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	131,636.49	2,492.34
23 52 39 13-0125 EA 150 HP, 5,021 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	143,516.56	2,741.57
23 52 39 13-0126 EA 175 HP, 5,858 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	152,706.53	3,021.96
23 52 39 13-0127 EA 200 HP, 6,695 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	158,176.46	3,302.35
23 52 39 13-0128 EA 250 HP, 8,369 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	191,428.16	3,863.13
23 52 39 13-0129 EA 300 HP, 10,043 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	222,852.11	4,423.91
23 52 39 13-0130 EA 350 HP, 11,716 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	240,288.64	4,984.68
23 52 39 13-0131 EA 400 HP, 13,390 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	268,090.68	5,545.46
23 52 39 13-0132 EA 500 HP, 16,738 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	324,608.12	6,106.24
23 52 39 13-0133 EA 600 HP, 20,085 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	379,769.86	6,667.01
23 52 39 13-0134 EA 700 HP, 23,433 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	432,578.57	7,227.78
23 52 39 13-0135 EA 800 HP, 26,780 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	483,265.59	7,788.56
23 52 39 13-0136 EA 900 HP, 30,128 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	752,578.48	8,349.33
23 52 39 13-0137 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	818,845.42	8,910.11
23 52 39 13-0138 150 PSI Steam Scotch Marine Boilers <small>(23 52 39 13)</small> Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0139 150 PSI Gas Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0138)</small>		
23 52 39 13-0140 EA 40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	86,985.18	1,495.41
23 52 39 13-0141 EA 50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	94,478.57	1,620.02
23 52 39 13-0142 EA 60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	98,629.63	1,869.25
23 52 39 13-0143 EA 70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	103,330.27	1,993.87
23 52 39 13-0144 EA 80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	108,150.88	2,118.49
23 52 39 13-0145 EA 90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	111,492.41	2,180.80
23 52 39 13-0146 EA 100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	117,725.87	2,243.11
23 52 39 13-0147 EA 125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	133,129.20	2,492.34
23 52 39 13-0148 EA 150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	151,320.41	2,741.57
23 52 39 13-0149 EA 175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	165,969.35	3,021.96
23 52 39 13-0150 EA 200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	180,615.74	3,302.35
23 52 39 13-0151 EA 250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	190,321.50	3,863.13
23 52 39 13-0152 EA 300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	231,602.49	4,423.91
23 52 39 13-0153 EA 350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	250,608.35	4,984.68
23 52 39 13-0154 EA 400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	295,259.74	5,545.46
23 52 39 13-0155 EA 500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	358,923.32	6,106.24
23 52 39 13-0156 EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	420,124.54	6,667.01
23 52 39 13-0157 EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	478,718.22	7,227.78
23 52 39 13-0158 EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	534,944.28	7,788.56
23 52 39 13-0159 EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	834,784.91	8,349.33



	MINOR CSI UOM	DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0160	EA	1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		908,354.86	8,910.11
23 52 39 13-0161		150 PSI Oil Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0138)</small>			
23 52 39 13-0162	EA	40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		80,571.10	1,495.41
23 52 39 13-0163	EA	50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		87,509.73	1,620.02
23 52 39 13-0164	EA	60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		95,292.48	1,869.25
23 52 39 13-0165	EA	70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		99,398.32	1,993.87
23 52 39 13-0166	EA	80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		103,495.45	2,118.49
23 52 39 13-0167	EA	90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		107,348.85	2,180.80
23 52 39 13-0168	EA	100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		115,072.16	2,243.11
23 52 39 13-0169	EA	125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		133,252.16	2,492.34
23 52 39 13-0170	EA	150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		151,460.53	2,741.57
23 52 39 13-0171	EA	175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		166,123.77	3,021.96
23 52 39 13-0172	EA	200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		180,784.46	3,302.35
23 52 39 13-0173	EA	250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		190,495.93	3,863.13
23 52 39 13-0174	EA	300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		231,816.96	4,423.91
23 52 39 13-0175	EA	350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		250,839.98	4,984.68
23 52 39 13-0176	EA	400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		295,534.26	5,545.46
23 52 39 13-0177	EA	500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		359,257.90	6,106.24
23 52 39 13-0178	EA	600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		420,519.16	6,667.01
23 52 39 13-0179	EA	700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		479,167.18	7,227.78
23 52 39 13-0180	EA	800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		535,447.57	7,788.56
23 52 39 13-0181	EA	900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		835,585.35	8,349.33
23 52 39 13-0182	EA	1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		909,229.57	8,910.11
23 52 39 13-0183		150 PSI Gas/Oil Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0138)</small>			
23 52 39 13-0184	EA	40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		89,790.45	1,495.41
23 52 39 13-0185	EA	50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		97,524.05	1,620.02
23 52 39 13-0186	EA	60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		102,412.88	1,869.25
23 52 39 13-0187	EA	70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		106,810.41	1,993.87
23 52 39 13-0188	EA	80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		111,199.21	2,118.49
23 52 39 13-0189	EA	90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		115,347.16	2,180.80
23 52 39 13-0190	EA	100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		119,493.10	2,243.11
23 52 39 13-0191	EA	125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		138,390.87	2,492.34
23 52 39 13-0192	EA	150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		157,314.13	2,741.57
23 52 39 13-0193	EA	175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		172,540.72	3,021.96
23 52 39 13-0194	EA	200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		187,767.60	3,302.35
23 52 39 13-0195	EA	250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		197,790.77	3,863.13
23 52 39 13-0196	EA	300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		240,738.91	4,423.91
23 52 39 13-0197	EA	350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		260,459.68	4,984.68
23 52 39 13-0198	EA	400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		306,924.05	5,545.46
23 52 39 13-0199	EA	500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		373,212.75	6,106.24
23 52 39 13-0200	EA	600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.		436,927.55	6,667.01

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0201 EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	497,929.01	7,227.78
23 52 39 13-0202 EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	556,459.91	7,788.56
23 52 39 13-0203 EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	869,010.08	8,349.33
23 52 39 13-0204 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	945,625.02	8,910.11

23 53 Heating Boiler Feedwater Equipment (23 50)**23 53 13 Boiler Feedwater Pumps** (23 53)

See CSI section 23 53 16 00-0001 for boiler feedwater units.

23 53 16 Deaerators (23 53)**23 53 16 00-0001 Boiler Feed System** (23 53 16)**23 53 16 00-0002 Low Pressure Boiler Feed System** (23 53 16 00-0001)

Note: With deaerator includes pumps and accessories.

23 53 16 00-0003 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	6,617.33	1,621.64
23 53 16 00-0004 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	7,255.57	1,910.46
23 53 16 00-0005 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	7,741.22	1,977.38
23 53 16 00-0006 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	7,995.85	2,049.94
23 53 16 00-0007 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	8,475.72	2,190.83
23 53 16 00-0008 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	12,767.90	2,373.99
23 53 16 00-0009 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	14,307.79	2,536.02
23 53 16 00-0010 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	16,386.96	2,888.23
23 53 16 00-0011 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	17,979.49	3,099.57
23 53 16 00-0012 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	19,349.98	3,310.91

23 53 16 00-0013 High Pressure Boiler Feed System (23 53 16 00-0001)

Note: With deaerator includes pumps and accessories.

23 53 16 00-0014 EA 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	8,577.21	1,382.55
23 53 16 00-0015 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	9,059.25	1,621.64
23 53 16 00-0016 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	10,162.46	1,910.46
23 53 16 00-0017 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	10,920.30	1,977.38
23 53 16 00-0018 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	11,135.04	2,049.94
23 53 16 00-0019 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	13,251.91	2,190.83
23 53 16 00-0020 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	16,906.22	2,373.99
23 53 16 00-0021 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	17,419.83	2,536.02
23 53 16 00-0022 EA 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	19,100.30	2,715.79
23 53 16 00-0023 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	20,527.79	2,888.23
23 53 16 00-0024 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	21,960.53	3,099.57
23 53 16 00-0025 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	23,684.49	3,310.91

23 53 16 00-0026 Boiler Feedwater System (23 53 16)

Note: With deaerator includes pumps and accessories.

23 53 16 00-0027 EA 1,380 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	10,844.29	1,910.46
23 53 16 00-0028 EA 2,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	13,930.04	2,188.72
23 53 16 00-0029 EA 4,300 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	18,122.93	2,505.02
23 53 16 00-0030 EA 6,900 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	21,718.17	2,889.64
23 53 16 00-0031 EA 8,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	23,071.18	3,099.57
23 53 16 00-0032 EA 11,000 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	24,374.62	3,310.91
23 53 16 00-0033 EA 13,800 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	27,207.36	3,804.16
23 53 16 00-0034 EA 17,250 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	34,811.94	4,367.86
23 53 16 00-0035 EA 20,700 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	44,767.99	5,046.95
23 53 16 00-0036 EA 27,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	56,323.74	5,793.38
23 53 16 00-0037 EA 34,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	71,604.83	6,665.49

23 53 16 00-0038 Duplex Vacuum Condensate Pumps (23 53 16)

23 53 16 00-0039 EA 7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump	27,290.98	1,127.12
Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.		
23 53 16 00-0040 EA 9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump	27,934.44	1,197.56
Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.		
23 53 16 00-0041 EA 12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump	28,669.27	1,268.01
Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5.		
23 53 16 00-0042 EA 18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump	27,779.11	1,338.45
Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.		
23 53 16 00-0043 EA 28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump	37,448.92	1,408.90
Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402.		
23 53 16 00-0044 EA 42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump	39,417.30	1,479.34
Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 54 Furnaces (23 50)

Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.

23 54 13 Electric-Resistance Furnaces (23 54)

23 54 13 00-0001 Down Flow Multi-Speed Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0002	EA	Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,237.15	129.06	
Note: Excludes cooling equipment.					
23 54 13 00-0003	EA	>2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,628.51	161.32	
Note: Excludes cooling equipment.					
23 54 13 00-0004	EA	>3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	2,097.10	193.59	
Note: Excludes cooling equipment.					

23 54 13 00-0005 Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0006	EA	Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace	1,237.15	129.06	
Note: Excludes cooling equipment.					
23 54 13 00-0007	EA	>2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,473.86	145.19	
Note: Excludes cooling equipment.					
23 54 13 00-0008	EA	>2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,612.41	161.32	
Note: Excludes cooling equipment.					
23 54 13 00-0009	EA	>3 To 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,693.04	177.46	
Note: Excludes cooling equipment.					
23 54 13 00-0010	EA	>3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	2,097.10	193.59	
Note: Excludes cooling equipment.					

23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0012	EA	5 KW Heating Coil For Air Handler/Electric Furnace	225.52	34.26	
23 54 13 00-0013	EA	7 KW Heating Coil For Air Handler/Electric Furnace	256.91	37.68	
23 54 13 00-0014	EA	10 KW Heating Coil For Air Handler/Electric Furnace	278.67	41.11	
23 54 13 00-0015	EA	15 KW Heating Coil For Air Handler/Electric Furnace	372.84	44.53	
23 54 13 00-0016	EA	20 KW Heating Coil For Air Handler/Electric Furnace	402.62	47.96	

23 54 16 Fuel-Fired Furnaces (23 54)

23 54 16 13 Gas-Fired Furnaces (23 54 16)

23 54 16 13-0001 Natural Gas Fired Forced Air Furnaces (23 54 16 13)

Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.

23 54 16 13-0002 Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace (23 54 16 13-0001)

23 54 16 13-0003	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace	1,887.12	112.92	
Note: Blower cooling capacity up to 3 tons.					
23 54 16 13-0004	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace	2,016.00	129.06	
Note: Blower cooling capacity up to 3 tons.					
23 54 16 13-0005	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,323.52	145.19	
Note: Blower cooling capacity up to 4 tons.					
23 54 16 13-0006	EA	100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,721.31	177.46	
Note: Blower cooling capacity up to 5 tons.					
23 54 16 13-0007	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,906.52	193.59	
Note: Blower cooling capacity up to 5 tons.					

23 54 16 13-0008 Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)

23 54 16 13-0009	EA	40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,093.08	112.92	
Note: Blower cooling capacity up to 3 tons.					
23 54 16 13-0010	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,296.00	129.06	
Note: Blower cooling capacity up to 3 tons.					
23 54 16 13-0011	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,440.62	145.19	
Note: Blower cooling capacity up to 3 tons.					
23 54 16 13-0012	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,648.86	161.32	
Note: Blower cooling capacity up to 3.5 tons.					
23 54 16 13-0013	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,883.84	177.46	
Note: Blower cooling capacity up to 5 tons.					
23 54 16 13-0014	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	3,044.92	193.59	
Note: Blower cooling capacity up to 5 tons.					

23 54 16 13-0015 Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)

23 54 16 13-0016	EA	45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	1,851.63	112.92	
Note: Blower cooling capacity up to 4 tons.					
23 54 16 13-0017	EA	70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,125.36	129.06	
Note: Blower cooling capacity up to 4 tons.					
23 54 16 13-0018	EA	90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,318.79	161.32	
Note: Blower cooling capacity up to 4 tons.					
23 54 16 13-0019	EA	90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,479.87	177.46	
Note: Blower cooling capacity up to 5 tons.					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 54 16 13-0020		Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace (23 54 16 13-0001)			
23 54 16 13-0021	EA	40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	2,408.48		112.92
23 54 16 13-0022	EA	60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	2,543.82		129.06
23 54 16 13-0023	EA	80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	2,833.63		145.19
23 54 16 13-0024	EA	100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	3,107.52		177.46
23 54 16 13-0025	EA	120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	3,332.96		193.59
23 54 16 13-0026		Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace (23 54 16 13-0001)			
23 54 16 13-0027	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,690.78		112.92
23 54 16 13-0028	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,789.10		129.06
23 54 16 13-0029	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,996.85		145.19
23 54 16 13-0030	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	2,012.94		145.19
23 54 16 13-0031	EA	80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	2,198.16		161.32
23 54 16 13-0032	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	2,322.23		177.46
23 54 16 13-0033	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	2,465.60		193.59
23 54 16 13-0034		Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)			
23 54 16 13-0035	EA	40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,196.75		112.92
23 54 16 13-0036	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,312.78		129.06
23 54 16 13-0037	EA	60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,499.61		145.19
23 54 16 13-0038	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,501.22		145.19
23 54 16 13-0039	EA	80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,649.42		161.32
23 54 16 13-0040	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,701.08		177.46
23 54 16 13-0041	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,887.90		193.59
23 54 16 13-0042		Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)			
23 54 16 13-0043	EA	40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,212.85		112.92
23 54 16 13-0044	EA	60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,317.61		129.06
23 54 16 13-0045	EA	80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,572.02		145.19
23 54 16 13-0046	EA	100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,731.49		161.32
23 54 16 13-0047		75% AFUE Gas Wall/Recessed Furnace (23 54 16 13-0001)			
23 54 16 13-0048	EA	35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace.....	1,997.91		96.79
23 54 16 13-0049	EA	55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace.....	2,311.94		121.05
23 54 16 13-0050	EA	35 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,812.85		96.79
23 54 16 13-0051	EA	40 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,938.44		104.92
23 54 16 13-0052	EA	50 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,927.27		112.92
23 54 16 13-0053	EA	65 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,988.57		121.05
23 54 16 13-0054	EA	75 MBH 75% AFUE Gas Wall/Recessed Furnace.....	2,056.28		121.05
23 54 16 13-0055		Gas Fired Indoor Duct Furnace (23 54 16 13-0001) Note: Includes burner, controls and electronic ignition.			
23 54 16 13-0056		Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)			
23 54 16 13-0057	EA	100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,247.45		251.67
23 54 16 13-0058	EA	150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,514.22		309.74
23 54 16 13-0059	EA	200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,888.09		445.25
23 54 16 13-0060	EA	250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	3,257.87		503.33
23 54 16 13-0061	EA	300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	3,795.08		580.77
23 54 16 13-0062	EA	350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	4,191.89		696.92
23 54 16 13-0063	EA	400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	4,830.99		929.23



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0064				Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0065	EA			100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	2,506.21	251.67
23 54 16 13-0066	EA			150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	2,769.12	309.74
23 54 16 13-0067	EA			200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,238.25	445.25
23 54 16 13-0068	EA			250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,671.11	503.33
23 54 16 13-0069	EA			300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	4,508.28	580.77
23 54 16 13-0070	EA			350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	4,965.59	696.92
23 54 16 13-0071	EA			400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	5,562.21	929.23
23 54 16 16				Oil-Fired Furnaces (23 54 16)		
23 54 16 16-0001				Oil Fired Forced Air Furnaces (23 54 16 16) Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 16-0002				Up Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0003	EA			72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace..... Note: Blower cooling capacity up to 3 tons.	3,206.81	129.06
23 54 16 16-0004	EA			95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 4 tons.	3,435.80	177.46
23 54 16 16-0005	EA			126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 5 tons.	3,968.76	209.73
23 54 16 16-0006				Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0007	EA			95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 3 tons.	3,735.11	177.46
23 54 16 16-0008	EA			126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace..... Note: Blower cooling capacity up to 5 tons.	3,786.92	209.73
23 54 16 16-0009				Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0010	EA			95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace	3,245.91	177.46
23 54 16 16-0011	EA			127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace	3,852.90	209.73
23 54 19				Furnace Accessories (23 54)		
23 54 19 00-0001	EA			LP Gas Furnace Conversion Kit	201.46	32.26
23 54 19 00-0002	EA			1" Furnace External Filter Rack	59.60	
23 54 19 00-0003	EA			Removal And Reinstallation Of Forced Air Furnace	597.50	
				Note: Includes storage and cleaning. Excludes ductwork.		
23 55				Fuel-Fired Heaters (23 50)		
23 55 23				Gas-Fired Radiant Heaters (23 55)		
23 55 23 13				Low-Intensity Gas-Fired Radiant Heaters (23 55 23)		
23 55 23 13-0001				Infrared Heaters-Radiant Energy (23 55 23 13) Note: For spot localized or total heating, ceiling hung units, no fan required.		
23 55 23 13-0002				Gas Fired Electric Ignition Infrared Gas Heater (23 55 23 13-0001) Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.		
23 55 23 13-0003	EA			15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	908.70	140.89
23 55 23 13-0004	EA			37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,022.54	154.98
23 55 23 13-0005	EA			50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,082.38	154.98
23 55 23 13-0006	EA			75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,348.71	185.98
23 55 23 13-0007	EA			100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,358.80	185.98
23 55 23 13-0008				Rolled Steel Or Aluminum Housing Infrared Electric Heater (23 55 23 13-0001) Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element.		
23 55 23 13-0009	EA			1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,001.21	141.96
				<i>For Stainless Steel Housing, Add</i>	142.75	
23 55 23 13-0010	EA			3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,062.71	141.96
				<i>For Stainless Steel Housing, Add</i>	158.13	
23 55 23 13-0011	EA			5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,132.98	141.96
				<i>For Stainless Steel Housing, Add</i>	175.70	
23 55 23 13-0012	EA			7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,217.47	141.96
				<i>For Stainless Steel Housing, Add</i>	196.82	
23 55 23 13-0013	EA			10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,322.53	154.87
				<i>For Stainless Steel Housing, Add</i>	219.31	
23 55 23 13-0014	EA			13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,409.78	167.77
				<i>For Stainless Steel Housing, Add</i>	236.18	
23 55 23 13-0015	EA			24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	2,203.76	180.69
				<i>For Stainless Steel Housing, Add</i>	421.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 55 Fuel-Fired Heaters



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 23 13-0016 Gas Fired Tubular Infrared Heater <small>(23 55 23 13-0001)</small> Note: Per Tube Length. Includes controls and supports.		
23 55 23 13-0017 "U" Package <small>(23 55 23 13-0016)</small>		
23 55 23 13-0018 LF Up To 75 MBH Input Radiant Heater	77.09	7.04
23 55 23 13-0019 LF 76 To 105 MBH Input Radiant Heater.....	89.31	8.45
23 55 23 13-0020 LF 106 To 130 MBH Input Radiant Heater.....	108.12	9.86
23 55 23 13-0021 "S" Straight Package <small>(23 55 23 13-0016)</small>		
23 55 23 13-0022 LF Up To 75 MBH Input Radiant Heater	63.08	5.63
23 55 23 13-0023 LF 76 To 105 MBH Input Radiant Heater.....	79.49	7.04
23 55 23 13-0024 LF 106 To 130 MBH Input Radiant Heater.....	95.89	8.45
23 55 33 Fuel-Fired Unit Heaters <small>(23 55)</small>		
23 55 33 13 Oil-Fired Unit Heaters <small>(23 55 33)</small>		
23 55 33 13-0001 Oil Fired Unit Heater <small>(23 55 33 13)</small>		
23 55 33 13-0002 Horizontal Fan Propelled Oil Fired Unit Heater, 115 Volt <small>(23 55 33 13-0001)</small>		
23 55 33 13-0003 EA 97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	6,570.81	648.66
23 55 33 13-0004 EA 142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	7,062.01	713.53
23 55 33 13-0005 EA 188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	7,594.68	778.40
23 55 33 16 Gas-Fired Unit Heaters <small>(23 55 33)</small>		
23 55 33 16-0001 Gas Fired Unit Heaters <small>(23 55 33 16)</small>		
23 55 33 16-0002 Horizontal Fan Propelled Gas Fired Unit Heaters, 115 Volt <small>(23 55 33 16-0001)</small>		
23 55 33 16-0003 EA 24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	1,705.25	243.25
23 55 33 16-0004 EA 36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	1,886.29	291.90
23 55 33 16-0005 EA 48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	1,911.82	291.90
23 55 33 16-0006 EA 60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,105.18	340.55
23 55 33 16-0007 EA 72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,327.08	389.20
23 55 33 16-0008 EA 81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,494.20	413.52
23 55 33 16-0009 EA 101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,558.57	413.52
23 55 33 16-0010 EA 121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,503.41	413.52
23 55 33 16-0011 EA 141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,935.16	437.85
23 55 33 16-0012 EA 162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,186.48	437.85
23 55 33 16-0013 EA 202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,394.88	437.85
23 55 33 16-0014 EA 243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	4,029.71	486.51
23 55 33 16-0015 EA 283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	4,501.69	486.51
23 55 33 16-0016 EA 324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	4,839.98	535.15
23 55 33 16-0017 Removal And Reinstallation Of Unit Heaters <small>(23 55 33 16)</small> Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 55 33 16-0018 EA Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater.....	810.11	
23 55 33 16-0019 EA Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater	1,091.89	
23 57 Heat Exchangers for HVAC <small>(23 50)</small>		
23 57 13 Steam-To-Steam Heat Exchangers <small>(23 57)</small>		
23 57 13 00-0001 Steam Generator Heat Exchanger <small>(23 57 13)</small> Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve.		
23 57 13 00-0002 EA 75 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	19,082.33	2,254.23
23 57 13 00-0003 EA 300 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	25,367.33	2,395.13
23 57 13 00-0004 EA 525 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	33,855.87	2,858.40
23 57 16 Steam-To-Water Heat Exchangers <small>(23 57)</small>		
23 57 16 00-0001 Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI <small>(23 57 16)</small> Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories.		
23 57 16 00-0002 EA 8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	2,205.40	352.23
For Bronze Head And Tube Sheet, Add	781.09	
For Copper Nickel Tubes, Add	173.58	
For Double Wall Tube Bundles, Add	260.36	
23 57 16 00-0003 EA 10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	3,192.00	352.23
For Bronze Head And Tube Sheet, Add	1,182.80	
For Copper Nickel Tubes, Add	262.84	
For Double Wall Tube Bundles, Add	394.27	
23 57 16 00-0004 EA 40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	4,771.09	493.12
For Bronze Head And Tube Sheet, Add	1,829.99	
For Copper Nickel Tubes, Add	406.67	
For Double Wall Tube Bundles, Add	610.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 57 16 00-0005 EA 64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Bronze Head And Tube Sheet, Add</i> <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	7,608.06 2,789.62 619.92 929.87	493.12
23 57 16 00-0006 EA 96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Bronze Head And Tube Sheet, Add</i> <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	9,993.60 3,704.62 823.25 1,234.87	580.47
23 57 16 00-0007 EA 120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Bronze Head And Tube Sheet, Add</i> <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	13,061.23 4,865.10 1,081.13 1,621.70	708.62
23 57 16 00-0008 EA 168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Bronze Head And Tube Sheet, Add</i> <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	16,166.27 5,958.63 1,324.14 1,986.21	1,063.59
23 57 16 00-0009 EA 240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Bronze Head And Tube Sheet, Add</i> <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	24,286.88 9,283.86 2,063.08 3,094.62	1,063.59

23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)

23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers (23 57 19)

23 57 19 13-0001 Plate And Frame Heat Exchanger (23 57 19 13)

23 57 19 13-0002 EA 8" W x 18-7/8"H Plate And Frame Heat Exchanger.....	3,467.37	352.23
23 57 19 13-0003 EA 8" W x 24-9/16"H Plate And Frame Heat Exchanger.....	4,545.58	352.23
23 57 19 13-0004 EA 11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger.....	6,034.18	422.67
23 57 19 13-0005 EA 16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger.....	8,126.39	457.90
23 57 19 13-0006 EA 16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger.....	8,867.66	457.90
23 57 19 13-0007 EA 24" W x 57-11/16"H Plate And Frame Heat Exchanger.....	11,498.94	493.12
23 57 19 13-0008 EA 26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger.....	12,105.44	493.12
23 57 19 13-0009 EA 24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger.....	14,941.76	563.56
23 57 19 13-0010 EA 24" W x 69-11/16"H Plate And Frame Heat Exchanger.....	18,249.81	634.00
23 57 19 13-0011 EA 26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger.....	18,923.69	634.00
23 57 19 13-0012 EA 24" W x 89-13/16"H Plate And Frame Heat Exchanger.....	23,363.69	717.93
23 57 19 13-0013 EA 26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger.....	28,159.55	789.58
23 57 19 13-0014 EA 40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger.....	32,483.50	861.24

23 57 19 19 Copper Tube, Water-To-Water Heat Exchanger (23 57 19)

23 57 19 19-0001 Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)

¹⁹⁾ Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.

23 57 19 19-0002 EA 7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	2,602.15 213.25 319.88	352.23
23 57 19 19-0003 EA 16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	3,588.75 302.52 453.78	352.23
23 57 19 19-0004 EA 34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	5,316.61 461.22 691.83	493.12
23 57 19 19-0005 EA 55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	7,584.76 664.55 996.83	493.12
23 57 19 19-0006 EA 74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	9,408.01 818.29 1,227.43	563.56
23 57 19 19-0007 EA 86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	12,492.75 1,100.97 1,651.46	563.56
23 57 19 19-0008 EA 112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	15,408.25 1,368.77 2,053.16	531.80
23 57 19 19-0009 EA 126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	19,149.28 1,706.01 2,559.01	531.80
23 57 19 19-0010 EA 152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	24,480.01 2,182.10 3,273.15	531.80

23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)

23 57 19 23-0001 Heat Exchanger Refrigerant To Water (23 57 19 23)

23 57 19 23-0002 EA 10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	2,950.67 238.71 358.07	281.78
23 57 19 23-0003 EA 53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube..... <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	7,690.42 675.12 1,012.67	469.59

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 57 Heat Exchangers for HVAC



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 57 19 23-0004	EA		70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	10,349.66 912.67 1,369.00	612.59
23 57 19 23-0005	EA		87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	11,153.55 967.36 1,451.04	741.50
23 57 19 23-0006	EA		105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	13,387.97 1,167.15 1,750.73	844.62

23 60 Central Cooling Equipment ⁽²³⁾

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 61 Refrigerant Compressors ^(23 60)

23 61 16 Reciprocating Refrigerant Compressors ^(23 61)

23 61 16 00-0001 Reciprocating Open Type Refrigerant Compressors ^(23 61 16)

Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.

23 61 16 00-0002	EA	1/4 Ton Refrigerant Compressor, Reciprocating Open Type	630.22	133.56
23 61 16 00-0003	EA	1/3 Ton Refrigerant Compressor, Reciprocating Open Type	730.38	133.56
23 61 16 00-0004	EA	1/2 Ton Refrigerant Compressor, Reciprocating Open Type	980.79	166.89
23 61 16 00-0005	EA	3/4 Ton Refrigerant Compressor, Reciprocating Open Type	1,187.37	166.89
23 61 16 00-0006	EA	1 Ton Refrigerant Compressor, Reciprocating Open Type	1,312.57	166.89
23 61 16 00-0007	EA	1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type	1,333.22	173.63
23 61 16 00-0008	EA	1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	1,340.52	173.63
23 61 16 00-0009	EA	1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type	1,469.50	186.99
23 61 16 00-0010	EA	2 Ton Refrigerant Compressor, Reciprocating Open Type	1,579.69	200.35
23 61 16 00-0011	EA	2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	1,719.07	213.70
23 61 16 00-0012	EA	3 Ton Refrigerant Compressor, Reciprocating Open Type	1,934.00	213.70
23 61 16 00-0013	EA	3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	2,161.02	227.05
23 61 16 00-0014	EA	4 Ton Refrigerant Compressor, Reciprocating Open Type	2,212.80	240.41
23 61 16 00-0015	EA	4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	2,251.16	247.03
23 61 16 00-0016	EA	5 Ton Refrigerant Compressor, Reciprocating Open Type	3,767.57	1,293.18
23 61 16 00-0017	EA	7.5 Ton Refrigerant Compressor, Reciprocating Open Type	5,435.65	1,477.85
23 61 16 00-0018	EA	10 Ton Refrigerant Compressor, Reciprocating Open Type	7,103.91	1,662.66
23 61 16 00-0019	EA	12.5 Ton Refrigerant Compressor, Reciprocating Open Type	9,181.44	1,801.09
23 61 16 00-0020	EA	15 Ton Refrigerant Compressor, Reciprocating Open Type	11,259.37	1,939.77
23 61 16 00-0021	EA	20 Ton Refrigerant Compressor, Reciprocating Open Type	13,511.24	2,327.72
23 61 16 00-0022	EA	25 Ton Refrigerant Compressor, Reciprocating Open Type	16,103.53	2,501.85
23 61 16 00-0023	EA	30 Ton Refrigerant Compressor, Reciprocating Open Type	18,578.58	2,645.15
23 61 16 00-0024	EA	50 Ton Refrigerant Compressor, Reciprocating Open Type	24,095.85	2,984.30
23 61 16 00-0025	EA	60 Ton Refrigerant Compressor, Reciprocating Open Type	28,178.49	3,062.56
23 61 16 00-0026	EA	70 Ton Refrigerant Compressor, Reciprocating Open Type	34,904.18	3,140.70
23 61 16 00-0027	EA	75 Ton Refrigerant Compressor, Reciprocating Open Type	36,594.79	3,179.90
23 61 16 00-0028	EA	80 Ton Refrigerant Compressor, Reciprocating Open Type	38,215.83	3,218.96
23 61 16 00-0029	EA	90 Ton Refrigerant Compressor, Reciprocating Open Type	41,252.14	3,297.11
23 61 16 00-0030	EA	100 Ton Refrigerant Compressor, Reciprocating Open Type	44,014.44	3,375.50
23 61 16 00-0031	EA	110 Ton Refrigerant Compressor, Reciprocating Open Type	46,728.53	3,446.78
23 61 16 00-0032	EA	120 Ton Refrigerant Compressor, Reciprocating Open Type	48,930.81	3,523.92
23 61 16 00-0033	EA	130 Ton Refrigerant Compressor, Reciprocating Open Type	50,809.86	3,568.78
23 61 16 00-0034	EA	140 Ton Refrigerant Compressor, Reciprocating Open Type	52,510.76	3,679.19
23 61 16 00-0035	EA	150 Ton Refrigerant Compressor, Reciprocating Open Type	53,884.49	3,756.33
23 61 16 00-0036	EA	175 Ton Refrigerant Compressor, Reciprocating Open Type	55,296.05	3,859.26
23 61 16 00-0037	EA	185 Ton Refrigerant Compressor, Reciprocating Open Type	56,614.32	3,900.76
23 61 16 00-0038	EA	200 Ton Refrigerant Compressor, Reciprocating Open Type	57,968.49	3,965.31
23 61 16 00-0039	EA	225 Ton Refrigerant Compressor, Reciprocating Open Type	59,641.81	4,232.74
23 61 16 00-0040	EA	250 Ton Refrigerant Compressor, Reciprocating Open Type	61,251.39	4,460.91

23 61 16 00-0041 Reciprocating Hermetic Type Refrigerant Compressors ^(23 61 16)

Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.

23 61 16 00-0042 Reciprocating Hermetic Type Refrigerant Compressors <5 Tons ^(23 61 16 00-0041)

23 61 16 00-0043	EA	1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,111.38	133.56
23 61 16 00-0044	EA	1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,147.32	133.56
23 61 16 00-0045	EA	1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,250.03	166.89
23 61 16 00-0046	EA	3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,285.93	166.89
23 61 16 00-0047	EA	1 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,303.90	166.89
23 61 16 00-0048	EA	1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,345.98	173.63
23 61 16 00-0049	EA	1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,385.51	173.63
23 61 16 00-0050	EA	1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,487.67	186.99
23 61 16 00-0051	EA	2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,586.25	200.35
23 61 16 00-0052	EA	2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,720.72	213.70
23 61 16 00-0053	EA	3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,792.58	213.70
23 61 16 00-0054	EA	3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,927.05	227.05
23 61 16 00-0055	EA	4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,277.12	240.41
23 61 16 00-0056	EA	4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,486.03	247.03



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 61 16 00-0057 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16 00-0041)						
				23 61 16 00-0058 EA 5 Ton Refrigerant Compressor, Reciprocating Hermetic Type	3,201.49	665.06
				23 61 16 00-0059 EA 10 Ton Refrigerant Compressor, Reciprocating Hermetic Type	5,968.73	831.33
				23 61 16 00-0060 EA 15 Ton Refrigerant Compressor, Reciprocating Hermetic Type	9,860.15	1,012.07
				23 61 16 00-0061 EA 20 Ton Refrigerant Compressor, Reciprocating Hermetic Type	12,524.71	1,163.86
				23 61 16 00-0062 EA 25 Ton Refrigerant Compressor, Reciprocating Hermetic Type	13,834.55	1,293.18
				23 61 16 00-0063 EA 30 Ton Refrigerant Compressor, Reciprocating Hermetic Type	15,344.44	1,454.83
				23 61 16 00-0064 EA 35 Ton Refrigerant Compressor, Reciprocating Hermetic Type	19,784.72	1,662.66
				23 61 16 00-0065 EA 40 Ton Refrigerant Compressor, Reciprocating Hermetic Type	25,311.25	1,662.66
				23 61 16 00-0066 EA 50 Ton Refrigerant Compressor, Reciprocating Hermetic Type	31,229.54	1,939.77
				23 61 16 00-0067 EA 60 Ton Refrigerant Compressor, Reciprocating Hermetic Type	35,128.99	2,078.33
				23 61 16 00-0068 EA 70 Ton Refrigerant Compressor, Reciprocating Hermetic Type	37,111.55	2,178.06
				23 61 16 00-0069 EA 75 Ton Refrigerant Compressor, Reciprocating Hermetic Type	38,165.09	2,285.66
				23 61 16 00-0070 EA 80 Ton Refrigerant Compressor, Reciprocating Hermetic Type	39,232.82	2,294.52
				23 61 16 00-0071 EA 90 Ton Refrigerant Compressor, Reciprocating Hermetic Type	41,209.26	2,402.50
				23 61 16 00-0072 EA 100 Ton Refrigerant Compressor, Reciprocating Hermetic Type	43,202.75	2,501.85
23 61 19 Scroll Refrigerant Compressors (23 61)						
23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)						
				23 61 19 00-0002 EA Up To 3 Ton Scroll Refrigerant Compressor	1,268.84	213.45
				23 61 19 00-0003 EA 3.5 Ton Scroll Refrigerant Compressor	1,332.74	227.18
				23 61 19 00-0004 EA 4 Ton Scroll Refrigerant Compressor	1,370.63	240.29
				23 61 19 00-0005 EA 4.5 Ton Scroll Refrigerant Compressor	1,398.93	247.16
				23 61 19 00-0006 EA 5 Ton Scroll Refrigerant Compressor	1,737.23	312.06
				23 61 19 00-0007 EA 7.5 Ton Scroll Refrigerant Compressor	3,220.27	468.09
				23 61 19 00-0008 EA 8.75 Ton Scroll Refrigerant Compressor	3,691.84	546.11
				23 61 19 00-0009 EA 10 Ton Scroll Refrigerant Compressor	4,144.82	624.12
				23 61 19 00-0010 EA 12 Ton Scroll Refrigerant Compressor	5,005.51	748.94
				23 61 19 00-0011 EA 13.5 Ton Scroll Refrigerant Compressor	5,873.79	842.56
				23 61 19 00-0012 EA 15 Ton Scroll Refrigerant Compressor	6,853.28	936.19
				23 61 19 00-0013 EA 20 Ton Scroll Refrigerant Compressor	9,609.08	1,248.24
				23 61 19 00-0014 EA 25 Ton Scroll Refrigerant Compressor	10,939.56	1,560.30
				23 61 19 00-0015 EA 30 Ton Scroll Refrigerant Compressor	11,838.61	1,872.36
23 61 23 Rotary-Screw Refrigerant Compressors (23 61)						
23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)						
				23 61 23 00-0002 EA 75 Ton Refrigerant Compressor, Rotary Screw Type	44,739.86	3,179.90
				23 61 23 00-0003 EA 80 Ton Refrigerant Compressor, Rotary Screw Type	46,087.14	3,218.96
				23 61 23 00-0004 EA 90 Ton Refrigerant Compressor, Rotary Screw Type	49,006.07	3,297.11
				23 61 23 00-0005 EA 100 Ton Refrigerant Compressor, Rotary Screw Type	51,895.66	3,375.50
				23 61 23 00-0006 EA 110 Ton Refrigerant Compressor, Rotary Screw Type	55,503.49	3,446.78
				23 61 23 00-0007 EA 120 Ton Refrigerant Compressor, Rotary Screw Type	58,876.39	3,523.92
				23 61 23 00-0008 EA 130 Ton Refrigerant Compressor, Rotary Screw Type	62,171.33	3,568.78
				23 61 23 00-0009 EA 140 Ton Refrigerant Compressor, Rotary Screw Type	65,592.56	3,679.19
				23 61 23 00-0010 EA 150 Ton Refrigerant Compressor, Rotary Screw Type	68,968.83	3,756.33
				23 61 23 00-0011 EA 170 Ton Refrigerant Compressor, Rotary Screw Type	73,712.76	3,859.26
				23 61 23 00-0012 EA 185 Ton Refrigerant Compressor, Rotary Screw Type	77,034.61	3,900.76
				23 61 23 00-0013 EA 200 Ton Refrigerant Compressor, Rotary Screw Type	78,586.72	3,965.31
				23 61 23 00-0014 EA 215 Ton Refrigerant Compressor, Rotary Screw Type	88,185.48	4,232.74
				23 61 23 00-0015 EA 225 Ton Refrigerant Compressor, Rotary Screw Type	97,643.35	4,460.91
23 62 Packaged Compressor and Condenser Units (23 60)						
23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)						
23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)						
Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.						
				23 62 13 00-0002 EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	7,085.54	1,153.38
				23 62 13 00-0003 EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	15,267.26	1,235.76
				23 62 13 00-0004 EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	26,523.06	1,318.14
				23 62 13 00-0005 EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	31,364.39	1,400.53
				23 62 13 00-0006 EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	37,149.04	1,482.91
				23 62 13 00-0007 EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	41,171.89	1,647.68
				23 62 13 00-0008 EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	42,253.14	1,738.72
				23 62 13 00-0009 EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	45,463.59	1,973.63
				23 62 13 00-0010 EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	48,518.06	2,138.09
				23 62 13 00-0011 EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	55,574.71	2,302.56
				23 62 13 00-0012 EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	62,818.99	2,549.27
				23 62 13 00-0013 EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	66,382.53	2,648.60
				23 62 13 00-0014 EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	74,911.09	2,814.14
				23 62 13 00-0015 EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	81,858.97	2,979.68

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 62 Packaged Compressor and Condenser Units



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 62 13 00-0016

Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)

Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0017	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	6,780.91	1,153.38
23 62 13 00-0018	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	13,533.38	1,235.76
23 62 13 00-0019	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	20,913.73	1,318.14
23 62 13 00-0020	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	22,579.89	1,400.53
23 62 13 00-0021	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	24,246.07	1,482.91
23 62 13 00-0022	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	28,699.39	1,647.68
23 62 13 00-0023	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	32,340.40	1,738.72
23 62 13 00-0024	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	41,383.90	1,973.63
23 62 13 00-0025	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	46,397.27	2,138.09
23 62 13 00-0026	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	50,180.58	2,302.56
23 62 13 00-0027	EA	75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	57,723.73	2,549.27
23 62 13 00-0028	EA	80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	61,125.71	2,648.60
23 62 13 00-0029	EA	90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	67,032.44	2,814.14
23 62 13 00-0030	EA	100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	76,391.22	2,979.68

23 62 13 00-0031

Packaged Chiller With Remote Air Cooled Condenser (23 62 13)

Note: With remote air cooled condenser rated by cooling capacity, Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.

23 62 13 00-0032	EA	15 Ton Packaged Chiller With Remote Air Cooled Condensers	36,927.88	9,589.27
		<i>For Gas Fired Engine Driven, Add</i>	5,947.91	
23 62 13 00-0033	EA	20 Ton Packaged Chiller With Remote Air Cooled Condensers	41,300.13	10,107.61
		<i>For Gas Fired Engine Driven, Add</i>	6,744.65	
23 62 13 00-0034	EA	25 Ton Packaged Chiller With Remote Air Cooled Condensers	47,539.67	10,999.35
		<i>For Gas Fired Engine Driven, Add</i>	7,858.85	
23 62 13 00-0035	EA	30 Ton Packaged Chiller With Remote Air Cooled Condensers	52,819.14	11,686.87
		<i>For Gas Fired Engine Driven, Add</i>	8,811.67	
23 62 13 00-0036	EA	40 Ton Packaged Chiller With Remote Air Cooled Condensers	65,090.25	12,895.85
		<i>For Gas Fired Engine Driven, Add</i>	11,084.64	
23 62 13 00-0037	EA	50 Ton Packaged Chiller With Remote Air Cooled Condensers	71,336.86	13,356.36
		<i>For Gas Fired Engine Driven, Add</i>	12,264.91	
23 62 13 00-0038	EA	60 Ton Packaged Chiller With Remote Air Cooled Condensers	77,452.83	14,383.80
		<i>For Gas Fired Engine Driven, Add</i>	13,334.07	
23 62 13 00-0039	EA	70 Ton Packaged Chiller With Remote Air Cooled Condensers	93,140.16	15,390.16
		<i>For Gas Fired Engine Driven, Add</i>	16,291.83	
23 62 13 00-0040	EA	75 Ton Packaged Chiller With Remote Air Cooled Condensers	94,190.74	15,683.67
		<i>For Gas Fired Engine Driven, Add</i>	16,486.76	
23 62 13 00-0041	EA	80 Ton Packaged Chiller With Remote Air Cooled Condensers	96,111.86	16,365.63
		<i>For Gas Fired Engine Driven, Add</i>	16,768.75	
23 62 13 00-0042	EA	90 Ton Packaged Chiller With Remote Air Cooled Condensers	106,087.87	17,109.55
		<i>For Gas Fired Engine Driven, Add</i>	18,652.43	
23 62 13 00-0043	EA	100 Ton Packaged Chiller With Remote Air Cooled Condensers	116,841.89	17,924.32
		<i>For Gas Fired Engine Driven, Add</i>	20,681.08	
23 62 13 00-0044	EA	110 Ton Packaged Chiller With Remote Air Cooled Condensers	128,989.07	18,820.48
		<i>For Gas Fired Engine Driven, Add</i>	22,976.15	
23 62 13 00-0045	EA	120 Ton Packaged Chiller With Remote Air Cooled Condensers	139,189.62	19,811.07
		<i>For Gas Fired Engine Driven, Add</i>	24,867.75	
23 62 13 00-0046	EA	140 Ton Packaged Chiller With Remote Air Cooled Condensers	153,095.83	20,911.65
		<i>For Gas Fired Engine Driven, Add</i>	27,483.99	

23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units (23 62)

23 62 23 00-0001 Water Cooled Condensing Units (23 62 23)

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

23 62 23 00-0002	EA	5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	6,971.73	901.65
23 62 23 00-0003	EA	10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	10,552.59	1,316.79
23 62 23 00-0004	EA	15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	12,046.68	1,427.07
23 62 23 00-0005	EA	20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	14,913.36	1,712.48
23 62 23 00-0006	EA	30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	16,181.21	2,014.77
23 62 23 00-0007	EA	60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	33,542.13	2,846.81
23 62 23 00-0008	EA	80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	41,590.90	3,435.85
23 62 23 00-0009	EA	120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	57,134.37	3,759.35

23 63 Refrigerant Condensers (23 60)

23 63 13 Air-Cooled Refrigerant Condensers (23 63)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63	13 00-0001		Air Cooled Condensing Units <small>(23 63 13)</small> Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.		
23 63	13 00-0002	EA	6 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	5,188.04	901.65
			For >10 To 25, Deduct	-114.67	
			For >25 To 50, Deduct	-191.12	
			For >50, Deduct	-305.79	
			For Low Ambient Protection, 0 Degree F, Add	838.32	
			For Winter Start Control, Add	289.46	
23 63	13 00-0003	EA	7.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	6,208.58	1,070.30
			For >10 To 25, Deduct	-137.61	
			For >25 To 50, Deduct	-229.35	
			For >50, Deduct	-366.95	
			For Low Ambient Protection, 0 Degree F, Add	772.37	
			For Winter Start Control, Add	253.91	
23 63	13 00-0004	EA	10 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	8,029.68	1,316.79
			For >10 To 25, Deduct	-181.01	
			For >25 To 50, Deduct	-301.69	
			For >50, Deduct	-482.70	
			For Low Ambient Protection, 0 Degree F, Add	921.34	
			For Winter Start Control, Add	320.27	
23 63	13 00-0005	EA	12.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	9,787.28	1,369.99
			For >10 To 25, Deduct	-231.35	
			For >25 To 50, Deduct	-385.58	
			For >50, Deduct	-616.92	
			For Low Ambient Protection, 0 Degree F, Add	1,058.74	
			For Winter Start Control, Add	361.80	
23 63	13 00-0006	EA	15 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	11,551.53	1,427.07
			For >10 To 25, Deduct	-281.68	
			For >25 To 50, Deduct	-469.47	
			For >50, Deduct	-751.14	
			For Low Ambient Protection, 0 Degree F, Add	1,103.92	
			For Winter Start Control, Add	310.12	
23 63	13 00-0007	EA	20 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	14,816.17	1,712.48
			For >10 To 25, Deduct	-366.64	
			For >25 To 50, Deduct	-611.07	
			For >50, Deduct	-977.72	
			For Low Ambient Protection, 0 Degree F, Add	1,381.96	
			For Winter Start Control, Add	381.68	
23 63	13 00-0008	EA	25 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	16,795.76	1,842.22
			For >10 To 25, Deduct	-420.21	
			For >25 To 50, Deduct	-700.35	
			For >50, Deduct	-1,120.56	
			For Low Ambient Protection, 0 Degree F, Add	1,467.58	
			For Winter Start Control, Add	418.95	
23 63	13 00-0009	EA	30 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	19,204.45	2,010.87
			For >10 To 25, Deduct	-484.86	
			For >25 To 50, Deduct	-808.10	
			For >50, Deduct	-1,292.95	
			For Low Ambient Protection, 0 Degree F, Add	1,568.73	
			For Winter Start Control, Add	465.87	
23 63	13 00-0010	EA	40 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	26,042.06	2,264.51
			For >10 To 25, Deduct	-676.49	
			For >25 To 50, Deduct	-1,127.49	
			For >50, Deduct	-1,803.98	
			For Low Ambient Protection, 0 Degree F, Add	2,000.57	
			For Winter Start Control, Add	574.73	
23 63	13 00-0011	EA	50 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	31,673.22	2,846.81
			For >10 To 25, Deduct	-818.49	
			For >25 To 50, Deduct	-1,364.14	
			For >50, Deduct	-2,182.63	
			For Low Ambient Protection, 0 Degree F, Add	2,188.91	
			For Winter Start Control, Add	575.45	
23 63	13 00-0012	EA	60 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	36,376.58	3,142.00
			For >10 To 25, Deduct	-949.77	
			For >25 To 50, Deduct	-1,582.94	
			For >50, Deduct	-2,532.71	
			For Low Ambient Protection, 0 Degree F, Add	2,445.78	
			For Winter Start Control, Add	630.06	
23 63	13 00-0013	EA	80 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	46,857.94	3,435.85
			For >10 To 25, Deduct	-1,246.78	
			For >25 To 50, Deduct	-2,077.96	
			For >50, Deduct	-3,324.74	
			For Low Ambient Protection, 0 Degree F, Add	2,987.05	
			For Winter Start Control, Add	737.67	
23 63	13 00-0014	EA	100 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	64,326.64	3,093.61
			For >10 To 25, Deduct	-1,740.87	
			For >25 To 50, Deduct	-2,901.45	
			For >50, Deduct	-4,642.32	
			For Low Ambient Protection, 0 Degree F, Add	3,315.29	
			For Winter Start Control, Add	919.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 63 Refrigerant Condensers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0015 EA 120 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	78,854.95	3,198.48
For >10 To 25, Deduct	-2,170.31	
For >25 To 50, Deduct	-3,617.19	
For >50, Deduct	-5,787.50	
For Low Ambient Protection, 0 Degree F, Add	3,798.10	
23 63 13 00-0016 Air Cooled Condensing Units <small>(23 63 13)</small>		
Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 14 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Excludes piping and power wiring.		
23 63 13 00-0017 EA 1.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,055.20	419.92
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-42.76	
For >25 To 50, Deduct	-71.27	
For >50, Deduct	-114.03	
For 15 SEER, Add	342.08	
For 16 SEER, Add	584.39	
For 18 SEER, Add	1,225.78	
23 63 13 00-0018 EA 2 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,215.99	466.80
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-45.48	
For >25 To 50, Deduct	-75.81	
For >50, Deduct	-121.29	
For 15 SEER, Add	363.87	
For 16 SEER, Add	621.62	
For 18 SEER, Add	1,303.88	
23 63 13 00-0019 EA 2.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,358.34	513.49
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-47.65	
For >25 To 50, Deduct	-79.42	
For >50, Deduct	-127.08	
For 15 SEER, Add	381.24	
For 16 SEER, Add	651.28	
For 18 SEER, Add	1,366.10	
23 63 13 00-0020 EA 3 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,697.68	559.88
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-55.74	
For >25 To 50, Deduct	-92.89	
For >50, Deduct	-148.63	
For 15 SEER, Add	445.88	
For 16 SEER, Add	761.72	
For 18 SEER, Add	1,597.75	
23 63 13 00-0021 EA 3.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,861.55	606.84
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-58.55	
For >25 To 50, Deduct	-97.59	
For >50, Deduct	-156.14	
For 15 SEER, Add	468.42	
For 16 SEER, Add	800.21	
For 18 SEER, Add	1,678.50	
23 63 13 00-0022 EA 4 Ton, 14 SEER, Air Cooled Condensing Unit.....	3,180.90	653.53
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-66.03	
For >25 To 50, Deduct	-110.06	
For >50, Deduct	-176.09	
For 15 SEER, Add	528.26	
For 16 SEER, Add	902.45	
For 18 SEER, Add	1,892.95	
23 63 13 00-0023 EA 5 Ton, 14 SEER, Air Cooled Condensing Unit.....	3,576.36	699.85
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-75.80	
For >25 To 50, Deduct	-126.33	
For >50, Deduct	-202.13	
For 15 SEER, Add	606.38	
For 16 SEER, Add	1,035.90	
For 18 SEER, Add	2,172.86	
23 63 13 00-0024 Removal And Reinstallation Of AC Condensing Unit <small>(23 63 13)</small>		
Note: Includes storage and cleaning.		
23 63 13 00-0025 EA Removal And Reinstallation Of Up To 5 Tons Air Cooled Condensing Unit.....	430.20	
23 63 13 00-0026 EA Removal And Reinstallation Of 7.5 To 15 Tons Air Cooled Condensing Unit.....	1,613.25	
23 63 13 00-0027 EA Removal And Reinstallation Of 20 To 40 Tons Air Cooled Condensing Unit.....	2,725.49	

23 64 Packaged Water Chillers (23 60)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 64 13 Absorption Water Chillers (23 64)**23 64 13 16 Indirect-Fired Absorption Water Chillers** (23 64 13)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 64 13 16-0001 Packaged, Steam Driven, Water Cooled Absorption Chillers ^(23 64 13 16)					
Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.					
23 64 13 16-0002	EA		50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	144,511.21	7,654.52
			<i>For Two Stage Unit, Add</i>	96,282.29	
23 64 13 16-0003	EA		100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	183,625.01	9,125.13
			<i>For Two Stage Unit, Add</i>	122,674.32	
23 64 13 16-0004	EA		150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	233,005.24	9,368.41
			<i>For Two Stage Unit, Add</i>	157,084.12	
23 64 13 16-0005	EA		200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	258,286.50	9,546.62
			<i>For Two Stage Unit, Add</i>	174,666.50	
23 64 13 16-0006	EA		250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	288,998.21	9,785.90
			<i>For Two Stage Unit, Add</i>	196,010.92	
23 64 13 16-0007	EA		300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	326,584.95	10,363.27
			<i>For Two Stage Unit, Add</i>	221,950.68	
23 64 13 16-0008	EA		350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	350,315.96	10,613.71
			<i>For Two Stage Unit, Add</i>	238,401.44	
23 64 13 16-0009	EA		400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	417,666.26	11,047.62
			<i>For Two Stage Unit, Add</i>	285,267.87	
23 64 13 16-0010	EA		500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	468,173.14	11,369.42
			<i>For Two Stage Unit, Add</i>	320,415.93	
23 64 13 16-0011	EA		650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	575,658.56	16,041.83
			<i>For Two Stage Unit, Add</i>	392,653.55	
23 64 13 16-0012	EA		750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	626,564.96	18,687.05
			<i>For Two Stage Unit, Add</i>	426,588.40	
23 64 13 16-0013	EA		850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	671,223.75	19,517.50
			<i>For Two Stage Unit, Add</i>	457,315.91	
23 64 13 16-0014	EA		950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	717,573.07	19,534.11
			<i>For Two Stage Unit, Add</i>	489,883.63	
23 64 13 16-0015	EA		1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	821,961.50	20,211.08
			<i>For Two Stage Unit, Add</i>	562,525.23	
23 64 13 16-0016	EA		1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	899,596.08	20,829.78
			<i>For Two Stage Unit, Add</i>	616,476.13	
23 64 13 16-0017	EA		1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	1,057,269.24	25,676.92
			<i>For Two Stage Unit, Add</i>	723,766.07	
23 64 13 16-0018	EA		1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	1,236,395.73	27,037.35
			<i>For Two Stage Unit, Add</i>	848,289.86	

23 64 16 Centrifugal Water Chillers ^(23 64)

23 64 16 16 Water-Cooled Centrifugal Water Chillers ^(23 64 16)

23 64 16 16-0001 Packaged Water-Cooled Centrifugal Water Chillers ^(23 64 16 16)					
Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.					
23 64 16 16-0002	EA		180 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	146,829.40	7,155.10
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	5,413.43	
23 64 16 16-0003	EA		200 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	160,390.94	7,336.32
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	5,944.10	
23 64 16 16-0004	EA		225 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	176,772.76	7,522.80
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	6,587.54	
23 64 16 16-0005	EA		250 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	192,790.12	7,824.41
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	7,208.86	
23 64 16 16-0006	EA		275 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	208,479.76	8,266.21
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	7,808.05	
23 64 16 16-0007	EA		300 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	223,596.79	8,695.98
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	8,385.13	
23 64 16 16-0008	EA		325 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	238,234.83	9,172.79
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	8,940.01	
23 64 16 16-0009	EA		350 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	252,282.17	9,625.13
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	9,472.84	
23 64 16 16-0010	EA		375 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	265,710.81	10,037.59
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	9,983.48	
23 64 16 16-0011	EA		400 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	278,446.97	10,363.27
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Voltage Motor Rating, Add</i>	10,472.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 64 Packaged Water Chillers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0012 EA 425 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	290,931.51 10,938.40	10,876.69
23 64 16 16-0013 EA 450 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	302,712.52 11,382.67	11,296.31
23 64 16 16-0014 EA 475 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	313,931.67 11,804.82	11,710.52
23 64 16 16-0015 EA 500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	324,447.81 12,204.85	12,031.31
23 64 16 16-0016 EA 550 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	343,473.86 12,938.48	12,457.95
23 64 16 16-0017 EA 600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	360,037.42 13,583.62	12,728.83
23 64 16 16-0018 EA 650 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	374,962.78 14,140.21	13,358.00
23 64 16 16-0019 EA 700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	387,691.09 14,608.31	13,996.69
23 64 16 16-0020 EA 750 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	398,313.48 14,988.05	14,699.35
23 64 16 16-0021 EA 800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	423,032.66 15,931.25	15,408.53
23 64 16 16-0022 EA 850 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	447,577.88 16,867.64	16,115.45
23 64 16 16-0023 EA 900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	472,058.82 17,797.10	16,890.21
23 64 16 16-0024 EA 950 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	496,490.40 18,719.55	17,743.23
23 64 16 16-0025 EA 1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	519,711.23 19,635.00	18,145.04
23 64 16 16-0026 EA 1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	564,116.25 21,233.75	20,936.66
23 64 16 16-0027 EA 1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	606,878.29 22,766.26	23,736.23
23 64 16 16-0028 EA 1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	647,135.92 24,232.40	26,004.02
23 64 16 16-0029 EA 1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	684,349.23 25,632.18	27,400.33
23 64 16 16-0030 EA 1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	719,826.21 26,965.40	28,750.96
23 64 16 16-0031 EA 1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	752,838.22 28,232.90	29,584.38
23 64 16 16-0032 EA 1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	786,141.92 29,433.85	31,648.35
23 64 16 16-0033 EA 1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	816,959.76 30,568.42	33,192.16
23 64 16 16-0034 EA 1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	846,848.14 31,636.63	35,195.16
23 64 16 16-0035 EA 2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	873,895.08 32,638.61	36,452.16
23 64 16 16-0036 EA 2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	930,317.41 34,853.37	38,515.50
23 64 16 16-0037 EA 2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	981,222.43 36,653.64	40,826.39

23 64 23 Scroll Water Chillers (23 64)

23 64 23 13 Air-Cooled Scroll Water Chillers (23 64 23)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 64 23 13-0001 Packaged Air Cooled Scroll Water Chillers (23 64 23 13)

Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type. Includes scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.

23 64 23 13-0002	EA	10 Ton Packaged Air Cooled Scroll Water Chiller	23,296.28	2,046.40
23 64 23 13-0003	EA	15 Ton Packaged Air Cooled Scroll Water Chiller	33,809.71	2,072.63
23 64 23 13-0004	EA	18 Ton Packaged Air Cooled Scroll Water Chiller	36,878.07	2,216.93
23 64 23 13-0005	EA	22 Ton Packaged Air Cooled Scroll Water Chiller	40,537.82	2,374.35
23 64 23 13-0006	EA	25 Ton Packaged Air Cooled Scroll Water Chiller	41,256.91	2,531.76
23 64 23 13-0007	EA	30 Ton Packaged Air Cooled Scroll Water Chiller	43,559.58	2,715.41
23 64 23 13-0008	EA	40 Ton Packaged Air Cooled Scroll Water Chiller	49,722.81	2,938.41
23 64 23 13-0009	EA	45 Ton Packaged Air Cooled Scroll Water Chiller	53,408.92	3,187.65
23 64 23 13-0010	EA	50 Ton Packaged Air Cooled Scroll Water Chiller	56,358.81	3,279.48
23 64 23 13-0011	EA	55 Ton Packaged Air Cooled Scroll Water Chiller	58,861.07	3,423.78
23 64 23 13-0012	EA	60 Ton Packaged Air Cooled Scroll Water Chiller	60,839.67	3,541.84
23 64 23 13-0013	EA	70 Ton Packaged Air Cooled Scroll Water Chiller	70,140.51	3,987.85
23 64 23 13-0014	EA	80 Ton Packaged Air Cooled Scroll Water Chiller	75,542.17	4,368.27
23 64 23 13-0015	EA	90 Ton Packaged Air Cooled Scroll Water Chiller	76,880.99	4,381.39
23 64 23 13-0016	EA	100 Ton Packaged Air Cooled Scroll Water Chiller	81,221.20	4,394.51
23 64 23 13-0017	EA	110 Ton Packaged Air Cooled Scroll Water Chiller	85,442.75	4,407.63
23 64 23 13-0018	EA	120 Ton Packaged Air Cooled Scroll Water Chiller	89,716.73	4,420.74
23 64 23 13-0019	EA	130 Ton Packaged Air Cooled Scroll Water Chiller	94,214.13	4,433.86

23 64 23 16 Water-Cooled Scroll Water Chillers (23 64 23)

23 64 23 16-0001 Packaged Water Cooled Scroll Water Chillers (23 64 23 16)

Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

23 64 23 16-0002	EA	20 Ton Packaged Water Cooled Scroll Water Chiller	43,819.17	2,402.12
23 64 23 16-0003	EA	25 Ton Packaged Water Cooled Scroll Water Chiller	50,491.28	2,474.68
23 64 23 16-0004	EA	30 Ton Packaged Water Cooled Scroll Water Chiller	56,021.12	2,716.69
23 64 23 16-0005	EA	40 Ton Packaged Water Cooled Scroll Water Chiller	68,684.27	3,339.09
23 64 23 16-0006	EA	50 Ton Packaged Water Cooled Scroll Water Chiller	75,992.96	3,659.31
23 64 23 16-0007	EA	60 Ton Packaged Water Cooled Scroll Water Chiller	79,794.07	4,043.07

23 64 26 Rotary-Screw Water Chillers (23 64)

23 64 26 13 Air-Cooled, Rotary-Screw Water Chillers (23 64 26)

23 64 26 13-0001 Packaged Air Cooled Rotary-Screw Water Chillers (23 64 26 13)

Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 voltage motor rating, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.

23 64 26 13-0002	EA	70 Ton Packaged Air Cooled Rotary-Screw Water Chiller	99,450.08	5,024.16
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,378.81	
		<i>For 208/230 Voltage Motor Rating, Add</i>	3,676.82	
23 64 26 13-0003	EA	80 Ton Packaged Air Cooled Rotary-Screw Water Chiller	106,899.22	5,457.06
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,480.90	
		<i>For 208/230 Voltage Motor Rating, Add</i>	3,949.07	
23 64 26 13-0004	EA	90 Ton Packaged Air Cooled Rotary-Screw Water Chiller	112,438.10	5,693.18
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,558.48	
		<i>For 208/230 Voltage Motor Rating, Add</i>	4,155.93	
23 64 26 13-0005	EA	100 Ton Packaged Air Cooled Rotary-Screw Water Chiller	116,658.71	6,126.07
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,612.14	
		<i>For 208/230 Voltage Motor Rating, Add</i>	4,299.05	
23 64 26 13-0006	EA	110 Ton Packaged Air Cooled Rotary-Screw Water Chiller	125,155.52	6,427.79
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,732.90	
		<i>For 208/230 Voltage Motor Rating, Add</i>	4,621.08	
23 64 26 13-0007	EA	120 Ton Packaged Air Cooled Rotary-Screw Water Chiller	132,921.27	6,558.96
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,846.24	
		<i>For 208/230 Voltage Motor Rating, Add</i>	4,923.31	
23 64 26 13-0008	EA	130 Ton Packaged Air Cooled Rotary-Screw Water Chiller	140,269.11	6,781.96
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-1,951.54	
		<i>For 208/230 Voltage Motor Rating, Add</i>	5,204.11	
23 64 26 13-0009	EA	140 Ton Packaged Air Cooled Rotary-Screw Water Chiller	144,734.59	6,926.27
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-2,015.18	
		<i>For 208/230 Voltage Motor Rating, Add</i>	5,373.81	
23 64 26 13-0010	EA	160 Ton Packaged Air Cooled Rotary-Screw Water Chiller	152,760.23	7,070.56
		<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-2,132.22	
		<i>For 208/230 Voltage Motor Rating, Add</i>	5,685.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 26 13-0011 EA 170 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	159,427.15 -2,227.30 5,939.47	7,293.56
23 64 26 13-0012 EA 180 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	168,083.38 -2,350.65 6,268.41	7,582.16
23 64 26 13-0013 EA 200 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	175,638.81 -2,460.64 6,561.70	7,739.58
23 64 26 13-0014 EA 215 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	188,151.88 -2,645.19 7,053.83	7,870.75
23 64 26 13-0015 EA 225 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	196,458.95 -2,768.22 7,381.92	7,949.46
23 64 26 13-0016 EA 240 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	204,766.03 -2,891.25 7,710.00	8,015.05
23 64 26 13-0017 EA 260 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	229,608.53 -3,260.35 8,694.26	8,172.47
23 64 26 13-0018 EA 280 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	242,134.73 -3,444.89 9,186.38	8,329.88
23 64 26 13-0019 EA 300 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	258,748.87 -3,690.96 9,842.55	8,461.06
23 64 26 13-0020 EA 325 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	283,565.14 -4,060.05 10,826.81	8,605.36
23 64 26 13-0021 EA 350 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	308,938.59 -4,438.10 11,834.93	8,710.30

23 64 26 16 Water-Cooled, Rotary-Screw Water Chillers (23 64 26)**23 64 26 16-0001 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26 16)**

Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.

23 64 26 16-0002 EA 70 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	85,611.79	5,643.32
23 64 26 16-0003 EA 80 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	92,979.37	5,862.78
23 64 26 16-0004 EA 90 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	99,375.16	6,019.54
23 64 26 16-0005 EA 100 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	104,922.72	6,273.50
23 64 26 16-0006 EA 110 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	110,448.69	6,445.93
23 64 26 16-0007 EA 125 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	117,182.79	6,626.89
23 64 26 16-0008 EA 130 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	120,192.80	6,812.12
23 64 26 16-0009 EA 150 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	130,202.64	6,996.46
23 64 26 16-0010 EA 175 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	139,933.65	7,169.65
23 64 26 16-0011 EA 190 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	144,715.77	7,528.19
23 64 26 16-0012 EA 200 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	175,870.80	7,891.24
23 64 26 16-0013 EA 210 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	178,243.65	8,060.17
23 64 26 16-0014 EA 235 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	193,816.85	8,236.50
23 64 26 16-0015 EA 255 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	205,944.12	8,613.47
23 64 26 16-0016 EA 275 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	217,419.04	8,962.10
23 64 26 16-0017 EA 300 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	230,785.82	9,317.12
23 64 26 16-0018 EA 350 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	253,347.25	10,142.94
23 64 26 16-0019 EA 400 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	271,767.97	11,156.22
23 64 26 16-0020 EA 450 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	286,067.06	12,272.34

23 65 Cooling Towers (23 60)**23 65 13 Forced-Draft Cooling Towers (23 65)****23 65 13 16 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13)****23 65 13 16-0001 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13 16)****23 65 13 16-0002 Blow-Thru Centrifugal Fan Type Galvanized Cooling Towers (23 65 13 16-0001)**

Note: Including 2-speed motor internal piping, vibration switch, basin, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.

23 65 13 16-0003 EA 50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	18,723.29 9,274.16	2,177.57
23 65 13 16-0004 EA 75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	25,683.91 13,025.51	2,662.94
23 65 13 16-0005 EA 100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	32,297.73 16,151.63	3,345.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 13 16-0006 EA 125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	37,203.06 18,717.03	3,738.61
23 65 13 16-0007 EA 150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	42,495.95 21,436.26	4,210.85
23 65 13 16-0008 EA 175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	47,775.15 24,115.79	4,722.45
23 65 13 16-0009 EA 200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	53,603.04 27,093.05	5,260.28
23 65 13 16-0010 EA 225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	58,648.38 29,474.86	5,929.30
23 65 13 16-0011 EA 250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	63,945.26 32,015.45	6,585.20
23 65 13 16-0012 EA 275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	70,240.23 34,635.44	7,792.04
23 65 13 16-0013 EA 300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	76,401.19 37,513.46	8,631.59
23 65 13 16-0014 EA 325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	80,522.56 39,498.29	9,182.55
23 65 13 16-0015 EA 350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	85,340.92 41,830.48	9,720.38
23 65 13 16-0016 EA 375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	89,988.74 44,162.67	10,192.63
23 65 13 16-0017 EA 400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	95,285.05 46,891.82	10,664.87
23 65 13 16-0018 EA 425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	100,930.41 49,720.22	11,242.06
23 65 13 16-0019 EA 450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	107,306.96 52,995.20	11,819.24
23 65 13 16-0020 EA 475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	113,482.77 56,220.56	12,317.73
23 65 13 16-0021 EA 500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	119,671.69 59,445.93	12,816.21
23 65 13 16-0022 EA 550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	131,275.57 65,896.66	13,354.04
23 65 13 16-0023 EA 600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	143,871.87 72,942.83	13,878.76
23 65 13 16-0024 EA 650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	148,938.91 75,920.09	14,167.36
23 65 13 16-0025 EA 700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	154,998.35 79,492.80	14,351.01
23 65 13 16-0026 EA 750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	162,272.66 83,164.75	15,085.62
23 65 13 16-0027 EA 800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	170,704.78 87,531.40	15,820.21
23 65 13 16-0028 EA 850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	179,241.85 91,898.05	16,620.41
23 65 13 16-0029 EA 900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	189,102.14 97,058.63	17,420.61
23 65 13 16-0030 EA 950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	199,311.49 102,318.45	18,338.86
23 65 13 16-0031 EA 1,000 Ton Centrifugal Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	210,830.92 108,372.21	19,257.12

23 65 14 Induced-Draft Cooling Towers (23 65)

23 65 14 13 Open-Circuit, Induced-Draft Counterflow Cooling Towers (23 65 14)

23 65 14 13-0001 Galvanized Induced Draft Axial Single Flow Propeller Type Cooling Towers

(23 65 14 13)

Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.

23 65 14 13-0002 EA 10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	9,671.77 1,120.19 2,240.39	1,469.21
23 65 14 13-0003 EA 20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	11,418.49 1,354.65 2,709.31	1,587.27
23 65 14 13-0004 EA 30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	13,617.48 1,641.21 3,282.43	1,784.04
23 65 14 13-0005 EA 40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	15,108.67 1,823.57 3,647.14	1,967.69
23 65 14 13-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	17,854.93 2,188.29 4,376.57	2,177.57
23 65 14 13-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	20,717.19 2,580.24 5,160.48	2,348.11
23 65 14 13-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	23,773.50 2,969.82 5,939.63	2,662.94

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 13-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	29,692.63 3,647.14 7,294.28	3,345.07
23 65 14 13-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	32,406.37 3,959.75 7,919.51	3,738.61
23 65 14 13-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	49,008.14 6,335.89 12,671.79	4,210.85
23 65 14 13-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	59,354.94 7,636.05 15,272.10	5,260.28
23 65 14 13-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	77,383.35 9,525.69 19,051.38	8,631.59
23 65 14 13-0014 Galvanized Induced Draft Double Flow Propeller Type Packaged Cooling Towers <small>(23 65 14 13)</small> Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.		
23 65 14 13-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	29,692.63 3,647.14 7,294.28	3,345.07
23 65 14 13-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	39,477.34 4,906.27 9,812.55	4,210.85
23 65 14 13-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	50,129.57 6,252.24 12,504.49	5,260.28
23 65 14 13-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	59,595.15 7,351.35 14,702.69	6,585.20
23 65 14 13-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	71,083.47 8,580.71 17,161.41	8,631.59
23 65 14 13-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	79,262.35 9,545.84 19,091.67	9,720.38
23 65 14 13-0021 EA 400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	88,338.11 10,680.92 21,361.83	10,664.87
23 65 14 13-0022 EA 450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	100,029.22 12,157.14 24,314.28	11,819.24
23 65 14 13-0023 EA 500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	112,642.05 13,807.04 27,614.07	12,816.21
23 65 14 13-0024 EA 550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	120,524.36 14,861.48 29,722.97	13,511.46
23 65 14 13-0025 EA 600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	129,030.24 16,009.46 32,018.93	13,878.76
23 65 14 13-0026 EA 700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	145,818.47 18,496.22 36,992.44	14,351.01
23 65 14 13-0027 EA 800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	159,953.56 20,270.17 40,540.34	15,820.21
23 65 14 13-0028 EA 900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	176,696.89 22,403.87 44,807.74	17,420.61
23 65 14 14 Open-Circuit, Induced-Draft Crossflow Cooling Towers <small>(23 65 14)</small>		
23 65 14 14-0001 Galvanized Induced Draft Crossflow Film Filled Propeller Type Cooling Towers <small>(23 65 14 14)</small> Note: Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.		
23 65 14 14-0002 EA 10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	8,286.54 912.41 1,824.82	1,469.21
23 65 14 14-0003 EA 15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	8,913.21 1,002.48 2,004.95	1,495.44
23 65 14 14-0004 EA 20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	9,697.44 1,088.63 2,177.25	1,626.63
23 65 14 14-0005 EA 25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	11,277.45 1,307.92 2,615.84	1,705.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0006 EA 30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	12,726.92 1,507.63 3,015.26	1,784.04
23 65 14 14-0007 EA 35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	14,150.42 1,699.51 3,399.02	1,875.87
23 65 14 14-0008 EA 40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	15,456.38 1,875.73 3,751.46	1,967.69
23 65 14 14-0009 EA 45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	16,905.98 2,071.52 4,143.05	2,072.63
23 65 14 14-0010 EA 50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	18,329.61 2,259.49 4,518.98	2,177.57
23 65 14 14-0011 EA 60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	21,111.15 2,639.33 5,278.67	2,348.11
23 65 14 14-0012 EA 70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	24,127.77 3,050.50 6,101.01	2,531.76
23 65 14 14-0013 EA 75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	25,538.41 3,234.55 6,469.10	2,662.94
23 65 14 14-0014 EA 80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	27,106.47 3,418.60 6,837.20	2,885.95
23 65 14 14-0015 EA 90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	28,282.94 3,543.91 7,087.82	3,108.95
23 65 14 14-0016 EA 100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	30,492.47 3,767.12 7,534.24	3,345.07
23 65 14 14-0017 EA 125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	31,826.99 3,872.85 7,745.69	3,738.61
23 65 14 14-0018 EA 150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	36,921.45 4,522.89 9,045.78	4,210.85
23 65 14 14-0019 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	40,815.29 4,984.97 9,969.94	4,722.45
23 65 14 14-0020 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	43,064.70 5,192.51 10,385.03	5,260.28
23 65 14 14-0021 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	49,727.09 6,030.52 12,061.04	5,929.30
23 65 14 14-0022 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	54,548.93 6,594.41 13,188.83	6,585.20
23 65 14 14-0023 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	58,591.85 6,911.60 13,823.21	7,792.04
23 65 14 14-0024 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	63,297.70 7,412.84 14,825.68	8,631.59
23 65 14 14-0025 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	72,299.90 8,501.47 17,002.94	9,720.38
23 65 14 14-0026 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	79,682.35 9,382.55 18,765.10	10,664.87
23 65 14 14-0027 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	88,084.61 10,365.45 20,730.89	11,819.24
23 65 14 14-0028 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	95,963.60 11,305.27 22,610.54	12,816.21
23 65 14 14-0029 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	109,416.70 13,067.43 26,134.87	13,878.76
23 65 14 14-0030 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	122,183.63 14,950.99 29,901.98	14,351.01
23 65 14 14-0031 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	136,501.22 16,752.32 33,504.63	15,820.21
23 65 14 14-0032 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	150,454.36 18,467.49 36,934.98	17,420.61
23 65 14 14-0033 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	164,213.44 20,100.43 40,200.86	19,257.12

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0034 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	179,427.46 22,164.12 44,328.24	20,188.49
23 65 14 14-0035 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	194,092.90 24,157.33 48,314.65	21,054.28
23 65 14 14-0036 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	206,611.73 25,610.13 51,220.27	22,864.54
23 65 14 14-0037 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	218,792.25 26,980.71 53,961.41	24,805.99
23 65 14 14-0038 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	230,595.09 28,269.05 56,538.09	26,852.38
23 65 14 14-0039 EA 1,600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	241,469.51 29,467.32 58,934.63	28,702.02
23 65 14 14-0040 EA 1,700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	252,202.48 30,579.44 61,158.88	30,814.00
23 65 14 14-0041 EA 1,800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	262,911.90 31,609.33 63,218.65	33,253.95
23 65 14 14-0042 EA 1,900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	273,007.87 32,549.15 65,098.30	35,693.87
23 65 14 14-0043 EA 2,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	283,946.07 33,406.74 66,813.47	39,025.83
23 65 14 14-0044 Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers ^{(23 65}		
^{14 14)} Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.		
23 65 14 14-0045 EA 100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	79,769.03 3,719.53	3,345.07
23 65 14 14-0046 EA 125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	90,392.75 4,219.24	3,712.37
23 65 14 14-0047 EA 150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	98,834.13 4,603.26	4,210.85
23 65 14 14-0048 EA 200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	110,074.97 5,081.35	5,260.28
23 65 14 14-0049 EA 250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	124,906.34 5,716.01	6,585.20
23 65 14 14-0050 EA 300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	143,789.81 6,495.55	8,631.59
23 65 14 14-0051 EA 350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	156,767.11 7,057.18	9,720.38
23 65 14 14-0052 EA 400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	169,508.27 7,618.81	10,664.87
23 65 14 14-0053 EA 500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	195,829.98 8,761.74	12,816.21
23 65 14 14-0054 EA 600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	220,981.69 9,934.06	13,878.76
23 65 14 14-0055 EA 750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	273,074.47 12,407.52	15,085.62
23 65 14 14-0056 EA 1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	353,972.46 16,188.09	19,257.12
23 65 14 16 Closed-Circuit, Induced-Draft Counterflow Cooling Towers ^(23 65 14)		
23 65 14 16-0001 Stainless Steel Packaged Propeller Type Cooling Towers ^(23 65 14 16)		
Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.		
23 65 14 16-0002 Draw-Thru Stainless Steel Propeller Type Cooling Towers ^(23 65 14 16-0001)		
Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.		
23 65 14 16-0003 EA 50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	33,747.06	2,177.57
23 65 14 16-0004 EA 75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	47,814.60	2,662.94
23 65 14 16-0005 EA 100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	56,509.28	3,345.07
23 65 14 16-0006 EA 125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	64,040.53	3,738.61
23 65 14 16-0007 EA 150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	70,293.04	4,210.85
23 65 14 16-0008 EA 200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	84,365.39	5,260.28
23 65 14 16-0009 EA 250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	99,434.35	6,585.20
23 65 14 16-0010 EA 300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	118,173.71	8,631.59
23 65 14 16-0011 EA 350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	129,468.45	9,720.38
23 65 14 16-0012 EA 400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	146,653.58	10,664.87
23 65 14 16-0013 EA 500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	170,167.14	12,816.21
23 65 14 16-0014 EA 600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	191,887.86	13,878.76
23 65 14 16-0015 EA 750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	236,734.96	15,085.62
23 65 14 16-0016 EA 1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	301,191.28	19,047.22



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 16-0017 Belt Driven Stainless Steel Propeller Type Cooling Towers ^(23 65 14 16-0001)						
Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.						
	23 65 14 16-0018	EA		100 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	58,811.11	3,345.07
	23 65 14 16-0019	EA		125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	63,682.21	3,738.61
	23 65 14 16-0020	EA		150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	68,688.38	4,210.85
	23 65 14 16-0021	EA		200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	81,331.34	5,260.28
	23 65 14 16-0022	EA		250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	89,934.93	6,585.20
23 65 14 16-0023 Fiberglass Packaged Draw-Thru Propeller Type Cooling Towers ^(23 65 14 16)						
Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.						
	23 65 14 16-0024	EA		5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	4,371.09	1,364.27
	23 65 14 16-0025	EA		8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	4,600.35	1,429.85
	23 65 14 16-0026	EA		10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	5,261.96	1,469.21
	23 65 14 16-0027	EA		15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	5,872.47	1,495.44
	23 65 14 16-0028	EA		20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	7,549.28	1,626.63
	23 65 14 16-0029	EA		25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	7,978.13	1,705.33
	23 65 14 16-0030	EA		30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	8,953.96	1,784.04
	23 65 14 16-0031	EA		40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	10,286.11	1,967.69
	23 65 14 16-0032	EA		50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	11,471.15	2,177.57
	23 65 14 16-0033	EA		60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	12,814.36	2,348.11
	23 65 14 16-0034	EA		70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	14,705.94	2,531.76
	23 65 14 16-0035	EA		80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	16,063.57	2,885.95
	23 65 14 16-0036	EA		100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	19,488.68	3,345.07
	23 65 14 16-0037	EA		125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	23,909.37	3,738.61
	23 65 14 16-0038	EA		150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	26,858.15	4,210.85
	23 65 14 16-0039	EA		175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	32,432.73	4,722.45
	23 65 14 16-0040	EA		200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	36,170.19	5,260.28
	23 65 14 16-0041	EA		225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	40,030.52	5,929.30
	23 65 14 16-0042	EA		250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	43,728.55	6,585.20
	23 65 14 16-0043	EA		300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	52,727.20	8,631.59
	23 65 14 16-0044	EA		350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	59,879.59	9,720.38
	23 65 14 16-0045	EA		400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	66,485.07	10,664.87
	23 65 14 16-0046	EA		500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	80,763.60	12,553.86
	23 65 14 16-0047	EA		600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	91,916.88	13,878.76
	23 65 14 16-0048	EA		700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	95,586.44	10,664.87
	23 65 14 16-0049	EA		800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	110,795.36	15,820.21
	23 65 14 16-0050	EA		1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	124,616.13	13,183.51
23 65 43 Cooling Tower Basins and Accessories ^(23 65)						
23 65 43 00-0001 Fiberglass Cooling Tower Remote Sump Basins ^(23 65 43)						
Note: Includes one inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.						
	23 65 43 00-0002	EA		30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	1,361.67	
				<i>For Anti-Flotation Flanges, Add</i>	115.00	
				<i>For Perforated Basins, Add</i>	80.00	
	23 65 43 00-0003	EA		30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	1,544.21	
				<i>For Anti-Flotation Flanges, Add</i>	115.00	
				<i>For Perforated Basins, Add</i>	80.00	
	23 65 43 00-0004	EA		36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	1,501.94	
				<i>For Anti-Flotation Flanges, Add</i>	253.00	
				<i>For Perforated Basins, Add</i>	80.00	
	23 65 43 00-0005	EA		36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	1,768.73	
				<i>For Anti-Flotation Flanges, Add</i>	253.00	
				<i>For Perforated Basins, Add</i>	80.00	
	23 65 43 00-0006	EA		42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	1,927.91	
				<i>For Anti-Flotation Flanges, Add</i>	276.00	
				<i>For Perforated Basins, Add</i>	100.00	
	23 65 43 00-0007	EA		42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	2,136.11	
				<i>For Anti-Flotation Flanges, Add</i>	276.00	
				<i>For Perforated Basins, Add</i>	100.00	
	23 65 43 00-0008	EA		42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	2,344.30	
				<i>For Anti-Flotation Flanges, Add</i>	276.00	
				<i>For Perforated Basins, Add</i>	100.00	
	23 65 43 00-0009	EA		48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	2,346.39	
				<i>For Anti-Flotation Flanges, Add</i>	294.00	
				<i>For Perforated Basins, Add</i>	140.00	
	23 65 43 00-0010	EA		48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	2,584.94	
				<i>For Anti-Flotation Flanges, Add</i>	294.00	
				<i>For Perforated Basins, Add</i>	140.00	
	23 65 43 00-0011	EA		48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	2,956.98	
				<i>For Anti-Flotation Flanges, Add</i>	294.00	
				<i>For Perforated Basins, Add</i>	140.00	
	23 65 43 00-0012	EA		48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin	3,331.35	
				<i>For Anti-Flotation Flanges, Add</i>	294.00	
				<i>For Perforated Basins, Add</i>	140.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 65 Cooling Towers



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 65 43 00-0013	EA	48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	3,565.23	
		<i>For Anti-Flotation Flanges, Add</i>	294.00	
		<i>For Perforated Basins, Add</i>	140.00	

23 70 Central HVAC Equipment ⁽²³⁾

Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 71 Thermal Storage ^(23 70)

23 71 13 Thermal Heat Storage ^(23 71)

23 71 13 23 Pressurized-Water Thermal Storage Tanks ^(23 71 13)

23 71 13 23-0001 Nickelshield Storage Tanks ^(23 71 13 23)

23 71 13 23-0002	EA	325 Gallon Nickelshield Storage Tank.....	24,201.75	249.40
23 71 13 23-0003	EA	490 Gallon Nickelshield Storage Tank.....	33,765.25	330.66
23 71 13 23-0004	EA	605 Gallon Nickelshield Storage Tank.....	38,666.26	399.94
23 71 13 23-0005	EA	740 Gallon Nickelshield Storage Tank.....	45,793.81	499.92
23 71 13 23-0006	EA	940 Gallon Nickelshield Storage Tank.....	53,316.96	664.57
23 71 13 23-0007	EA	1,505 Gallon Nickelshield Storage Tank.....	68,953.98	999.97
23 71 13 23-0008	EA	1,615 Gallon Nickelshield Storage Tank.....	77,865.51	1,126.29
23 71 13 23-0009	EA	2,275 Gallon Nickelshield Storage Tank.....	106,906.62	1,496.02
23 71 13 23-0010	EA	3,815 Gallon Nickelshield Storage Tank.....	138,236.63	1,739.18

23 72 Air-To-Air Energy Recovery Equipment ^(23 70)

23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment ^(23 72)

23 72 13 00-0001 Enthalpy Recovery Wheel ^(23 72 13)

23 72 13 00-0002	EA	Up To 1,000 CFM Enthalpy Recovery Wheel.....	9,124.98	939.03
23 72 13 00-0003	EA	>1,000 To 2,000 CFM Enthalpy Recovery Wheel.....	10,184.04	1,127.12
23 72 13 00-0004	EA	>2,000 To 4,000 CFM Enthalpy Recovery Wheel.....	12,742.28	1,408.90
23 72 13 00-0005	EA	>4,000 To 6,000 CFM Enthalpy Recovery Wheel.....	14,876.93	1,609.66
23 72 13 00-0006	EA	>6,000 To 8,000 CFM Enthalpy Recovery Wheel.....	16,402.87	1,690.68
23 72 13 00-0007	EA	>8,000 To 10,000 CFM Enthalpy Recovery Wheel.....	19,823.27	1,878.76
23 72 13 00-0008	EA	>10,000 To 15,000 CFM Enthalpy Recovery Wheel.....	25,998.69	1,972.45
23 72 13 00-0009	EA	>15,000 To 20,000 CFM Enthalpy Recovery Wheel.....	32,163.97	2,113.34
23 72 13 00-0010	EA	>20,000 To 25,000 CFM Enthalpy Recovery Wheel.....	38,858.40	2,414.85
23 72 13 00-0011	EA	>25,000 To 30,000 CFM Enthalpy Recovery Wheel.....	43,798.65	3,099.57
23 72 13 00-0012	EA	>30,000 To 40,000 CFM Enthalpy Recovery Wheel.....	58,294.74	3,522.24
23 72 13 00-0013	EA	>40,000 To 50,000 CFM Enthalpy Recovery Wheel.....	69,358.81	4,226.69

23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment ^(23 72)

23 72 16 00-0001 Glycol Heat Pipe Type, 50 Percent Efficient ^(23 72 16)

23 72 16 00-0002	EA	100 MBH, 1,700 CFM Glycol Heat Recovery Unit.....	15,819.08	704.44
23 72 16 00-0003	EA	160 MBH, 2,700 CFM Glycol Heat Recovery Unit.....	24,765.28	939.31
23 72 16 00-0004	EA	620 MBH, 4,000 CFM Glycol Heat Recovery Unit.....	36,724.10	1,408.90

23 73 Indoor Central-Station Air-Handling Units ^(23 70)

23 73 13 Modular Indoor Central-Station Air-Handling Units ^(23 73)

Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.

23 73 13 00-0001 Single Zone Units ^(23 73 13)

Note: Horizontal/vertical draw-thru fan, motor and cabinet.

23 73 13 00-0002	EA	300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan.....	2,416.94	662.80
		<i>For Flat Filter Box And Throwaway Filters, Add</i>	194.35	
		<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	360.30	
		<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	535.71	
		<i>For Manual Roll Filter, Add</i>	903.23	
		<i>For Automatic Roll Filter, Add</i>	976.74	
		<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	462.21	
		<i>For Electric Heating Coil, Add</i>	756.23	
		<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	756.23	
		<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	682.72	
		<i>For Steam Heating Coil, Aluminum Fins, Add</i>	609.22	
		<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	488.37	
		<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	903.23	
		<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	829.73	
		<i>For Hot Water Heating Coil, Copper Fins, Add</i>	609.22	
		<i>For Variable Air Volume, Add</i>	205.81	
		<i>For Economizer, Panel, Controls And Damper(s), Add</i>	1,302.80	
		<i>For 2 Coils, Independent Circuits, Add</i>	271.10	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0003 EA 500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,736.25	795.36
For Flat Filter Box And Throwaway Filters, Add	316.86	
For Medium Capacity Filter Box And Throwaway Filters, Add	599.66	
For Combination Filter Mixing Box And Throwaway Filters, Add	893.81	
For Manual Roll Filter, Add	1,544.04	
For Automatic Roll Filter, Add	1,674.09	
For Hot Water Heating Coil, Aluminum Fins, Add	763.76	
For Electric Heating Coil, Add	1,283.95	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,283.95	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,153.90	
For Steam Heating Coil, Aluminum Fins, Add	1,023.86	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	837.05	
For Chilled Water Cooling Coil, Copper Fins, Add	1,544.04	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,414.00	
For Hot Water Heating Coil, Copper Fins, Add	1,023.86	
For Variable Air Volume, Add	364.13	
For Economizer, Panel, Controls And Damper(s), Add	1,434.72	
For 2 Coils, Independent Circuits, Add	425.64	
23 73 13 00-0004 EA 800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,209.25	854.18
For Flat Filter Box And Throwaway Filters, Add	359.92	
For Medium Capacity Filter Box And Throwaway Filters, Add	683.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,018.74	
For Manual Roll Filter, Add	1,766.01	
For Automatic Roll Filter, Add	1,915.47	
For Hot Water Heating Coil, Aluminum Fins, Add	869.29	
For Electric Heating Coil, Add	1,467.10	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,467.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,317.65	
For Steam Heating Coil, Aluminum Fins, Add	1,168.20	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	957.73	
For Chilled Water Cooling Coil, Copper Fins, Add	1,766.01	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,616.56	
For Hot Water Heating Coil, Copper Fins, Add	1,168.20	
For Variable Air Volume, Add	418.47	
For Economizer, Panel, Controls And Damper(s), Add	1,494.12	
For 2 Coils, Independent Circuits, Add	480.71	
23 73 13 00-0005 EA 1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,734.52	917.86
For Flat Filter Box And Throwaway Filters, Add	407.88	
For Medium Capacity Filter Box And Throwaway Filters, Add	776.42	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,158.07	
For Manual Roll Filter, Add	2,013.84	
For Automatic Roll Filter, Add	2,184.99	
For Hot Water Heating Coil, Aluminum Fins, Add	986.91	
For Electric Heating Coil, Add	1,671.53	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,671.53	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,500.38	
For Steam Heating Coil, Aluminum Fins, Add	1,329.22	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,092.50	
For Chilled Water Cooling Coil, Copper Fins, Add	2,013.84	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,842.68	
For Hot Water Heating Coil, Copper Fins, Add	1,329.22	
For Variable Air Volume, Add	479.23	
For Economizer, Panel, Controls And Damper(s), Add	1,558.01	
For 2 Coils, Independent Circuits, Add	541.91	
23 73 13 00-0006 EA 1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,351.66	987.45
For Flat Filter Box And Throwaway Filters, Add	464.72	
For Medium Capacity Filter Box And Throwaway Filters, Add	887.16	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,323.70	
For Manual Roll Filter, Add	2,309.36	
For Automatic Roll Filter, Add	2,506.49	
For Hot Water Heating Coil, Aluminum Fins, Add	1,126.56	
For Electric Heating Coil, Add	1,915.09	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,915.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,717.96	
For Steam Heating Coil, Aluminum Fins, Add	1,520.83	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,253.25	
For Chilled Water Cooling Coil, Copper Fins, Add	2,309.36	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,112.23	
For Hot Water Heating Coil, Copper Fins, Add	1,520.83	
For Variable Air Volume, Add	551.97	
For Economizer, Panel, Controls And Damper(s), Add	1,626.31	
For 2 Coils, Independent Circuits, Add	614.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0007	EA		1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,069.86	1,061.18
			For Flat Filter Box And Throwaway Filters, Add	531.19	
			For Medium Capacity Filter Box And Throwaway Filters, Add	1,016.90	
			For Combination Filter Mixing Box And Throwaway Filters, Add	1,517.77	
			For Manual Roll Filter, Add	2,656.25	
			For Automatic Roll Filter, Add	2,883.95	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,290.07	
			For Electric Heating Coil, Add	2,200.86	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	2,200.86	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,973.16	
			For Steam Heating Coil, Aluminum Fins, Add	1,745.47	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,441.97	
			For Chilled Water Cooling Coil, Copper Fins, Add	2,656.25	
			For Direct Expansion Cooling Coil, Copper Fins, Add	2,428.55	
			For Hot Water Heating Coil, Copper Fins, Add	1,745.47	
			For Variable Air Volume, Add	637.55	
			For Economizer, Panel, Controls And Damper(s), Add	1,701.16	
			For 2 Coils, Independent Circuits, Add	698.06	
23 73 13 00-0008	EA		1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,638.70	1,140.84
			For Flat Filter Box And Throwaway Filters, Add	582.55	
			For Medium Capacity Filter Box And Throwaway Filters, Add	1,116.32	
			For Combination Filter Mixing Box And Throwaway Filters, Add	1,666.34	
			For Manual Roll Filter, Add	2,919.43	
			For Automatic Roll Filter, Add	3,170.05	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,415.72	
			For Electric Heating Coil, Add	2,418.20	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	2,418.20	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,167.58	
			For Steam Heating Coil, Aluminum Fins, Add	1,916.96	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,585.03	
			For Chilled Water Cooling Coil, Copper Fins, Add	2,919.43	
			For Direct Expansion Cooling Coil, Copper Fins, Add	2,668.81	
			For Hot Water Heating Coil, Copper Fins, Add	1,916.96	
			For Variable Air Volume, Add	701.73	
			For Economizer, Panel, Controls And Damper(s), Add	1,778.44	
			For 2 Coils, Independent Circuits, Add	764.12	
23 73 13 00-0009	EA		1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	7,257.41	1,229.49
			For Flat Filter Box And Throwaway Filters, Add	637.94	
			For Medium Capacity Filter Box And Throwaway Filters, Add	1,223.20	
			For Combination Filter Mixing Box And Throwaway Filters, Add	1,826.02	
			For Manual Roll Filter, Add	3,201.36	
			For Automatic Roll Filter, Add	3,476.43	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,550.95	
			For Electric Heating Coil, Add	2,651.22	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	2,651.22	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,376.15	
			For Steam Heating Coil, Aluminum Fins, Add	2,101.08	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,738.21	
			For Chilled Water Cooling Coil, Copper Fins, Add	3,201.36	
			For Direct Expansion Cooling Coil, Copper Fins, Add	2,926.29	
			For Hot Water Heating Coil, Copper Fins, Add	2,101.08	
			For Variable Air Volume, Add	770.19	
			For Economizer, Panel, Controls And Damper(s), Add	1,715.82	
			For 2 Coils, Independent Circuits, Add	835.77	
23 73 13 00-0010	EA		2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	7,934.67	1,318.14
			For Flat Filter Box And Throwaway Filters, Add	699.31	
			For Medium Capacity Filter Box And Throwaway Filters, Add	1,342.12	
			For Combination Filter Mixing Box And Throwaway Filters, Add	2,003.77	
			For Manual Roll Filter, Add	3,516.65	
			For Automatic Roll Filter, Add	3,819.22	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,701.19	
			For Electric Heating Coil, Add	2,911.50	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	2,911.50	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,608.92	
			For Steam Heating Coil, Aluminum Fins, Add	2,306.34	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,909.61	
			For Chilled Water Cooling Coil, Copper Fins, Add	3,516.65	
			For Direct Expansion Cooling Coil, Copper Fins, Add	3,214.07	
			For Hot Water Heating Coil, Copper Fins, Add	2,306.34	
			For Variable Air Volume, Add	847.21	
			For Economizer, Panel, Controls And Damper(s), Add	1,785.74	
			For 2 Coils, Independent Circuits, Add	914.50	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0011 EA 2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	8,564.58	1,416.85
For Flat Filter Box And Throwaway Filters, Add	755.26	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,449.79	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,164.56	
For Manual Roll Filter, Add	3,799.69	
For Automatic Roll Filter, Add	4,126.72	
For Hot Water Heating Coil, Aluminum Fins, Add	1,837.54	
For Electric Heating Coil, Add	3,145.64	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,145.64	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,818.61	
For Steam Heating Coil, Aluminum Fins, Add	2,491.59	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,063.36	
For Chilled Water Cooling Coil, Copper Fins, Add	3,799.69	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,472.67	
For Hot Water Heating Coil, Copper Fins, Add	2,491.59	
For Variable Air Volume, Add	915.67	
For Economizer, Panel, Controls And Damper(s), Add	1,863.23	
For 2 Coils, Independent Circuits, Add	987.27	
23 73 13 00-0012 EA 2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	9,237.78	1,524.56
For Flat Filter Box And Throwaway Filters, Add	814.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,564.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,335.80	
For Manual Roll Filter, Add	4,100.82	
For Automatic Roll Filter, Add	4,453.83	
For Hot Water Heating Coil, Aluminum Fins, Add	1,982.79	
For Electric Heating Coil, Add	3,394.81	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,394.81	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,041.81	
For Steam Heating Coil, Aluminum Fins, Add	2,688.80	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,226.91	
For Chilled Water Cooling Coil, Copper Fins, Add	4,100.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,747.82	
For Hot Water Heating Coil, Copper Fins, Add	2,688.80	
For Variable Air Volume, Add	988.41	
For Economizer, Panel, Controls And Damper(s), Add	1,947.72	
For 2 Coils, Independent Circuits, Add	1,064.98	
23 73 13 00-0013 EA 3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	10,742.41	1,764.70
For Flat Filter Box And Throwaway Filters, Add	948.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,820.76	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,718.54	
For Manual Roll Filter, Add	4,773.92	
For Automatic Roll Filter, Add	5,184.99	
For Hot Water Heating Coil, Aluminum Fins, Add	2,307.47	
For Electric Heating Coil, Add	3,951.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,951.77	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,540.69	
For Steam Heating Coil, Aluminum Fins, Add	3,129.62	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,592.50	
For Chilled Water Cooling Coil, Copper Fins, Add	4,773.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,362.84	
For Hot Water Heating Coil, Copper Fins, Add	3,129.62	
For Variable Air Volume, Add	1,151.01	
For Economizer, Panel, Controls And Damper(s), Add	2,136.50	
For 2 Coils, Independent Circuits, Add	1,238.67	
23 73 13 00-0014 EA 3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,267.63	1,896.43
For Flat Filter Box And Throwaway Filters, Add	991.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,901.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,838.30	
For Manual Roll Filter, Add	4,977.72	
For Automatic Roll Filter, Add	5,405.61	
For Hot Water Heating Coil, Aluminum Fins, Add	2,410.42	
For Electric Heating Coil, Add	4,121.95	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,121.95	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,694.07	
For Steam Heating Coil, Aluminum Fins, Add	3,266.19	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,702.80	
For Chilled Water Cooling Coil, Copper Fins, Add	4,977.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,549.84	
For Hot Water Heating Coil, Copper Fins, Add	3,266.19	
For Variable Air Volume, Add	1,198.08	
For Economizer, Panel, Controls And Damper(s), Add	2,240.47	
For 2 Coils, Independent Circuits, Add	1,297.92	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73	13 00-0015	EA	3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	11,805.50	2,038.11
23 73	13 00-0016	EA	4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	12,989.82	2,352.93
23 73	13 00-0017	EA	4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	12,989.82	2,352.93
23 73	13 00-0018	EA	5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	14,283.61	2,702.56



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0019 EA 5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	15,039.55 1,294.47 2,463.26 3,673.94 6,386.42 6,928.92 3,131.44 5,301.43 5,301.43 4,758.93 4,216.44 3,464.46 6,386.42 5,843.93 4,216.44 1,518.99 2,615.85 1,720.95	2,932.06
23 73 13 00-0020 EA 6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	15,778.08 1,352.80 2,570.58 3,833.37 6,652.83 7,216.72 3,269.48 5,525.05 5,525.05 4,961.15 4,397.26 3,608.36 6,652.83 6,088.94 4,397.26 1,578.89 2,740.10 1,803.36	3,149.95
23 73 13 00-0021 EA 6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	16,521.85 1,411.38 2,678.27 3,993.33 6,919.75 7,505.04 3,408.04 5,749.18 5,749.18 5,163.90 4,578.61 3,752.52 6,919.75 6,334.47 4,578.61 1,638.80 2,866.46 1,886.30	3,371.98
23 73 13 00-0022 EA 7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	17,380.12 1,478.74 2,801.92 4,176.95 7,225.63 7,835.37 3,567.22 6,006.16 6,006.16 5,396.43 4,786.69 3,917.68 7,225.63 6,615.90 4,786.69 1,707.26 3,014.16 1,981.91	3,629.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0023 EA 7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	18,253.47	3,888.97
For Flat Filter Box And Throwaway Filters, Add	1,546.86	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,926.63	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,362.09	
For Manual Roll Filter, Add	7,533.03	
For Automatic Roll Filter, Add	8,167.21	
For Hot Water Heating Coil, Aluminum Fins, Add	3,727.91	
For Electric Heating Coil, Add	6,264.65	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,264.65	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,630.47	
For Steam Heating Coil, Aluminum Fins, Add	4,996.28	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,083.61	
For Chilled Water Cooling Coil, Copper Fins, Add	7,533.03	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,898.84	
For Hot Water Heating Coil, Copper Fins, Add	4,996.28	
For Variable Air Volume, Add	1,775.72	
For Economizer, Panel, Controls And Damper(s), Add	2,850.92	
For 2 Coils, Independent Circuits, Add	2,079.02	
23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	19,157.92	4,187.94
For Flat Filter Box And Throwaway Filters, Add	1,616.53	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,053.51	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,550.34	
For Manual Roll Filter, Add	7,843.53	
For Automatic Roll Filter, Add	8,502.16	
For Hot Water Heating Coil, Aluminum Fins, Add	3,891.70	
For Electric Heating Coil, Add	6,526.25	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,526.25	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,867.61	
For Steam Heating Coil, Aluminum Fins, Add	5,208.98	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,251.08	
For Chilled Water Cooling Coil, Copper Fins, Add	7,843.53	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,184.89	
For Hot Water Heating Coil, Copper Fins, Add	5,208.98	
For Variable Air Volume, Add	1,844.18	
For Economizer, Panel, Controls And Damper(s), Add	2,975.55	
For 2 Coils, Independent Circuits, Add	2,179.25	
23 73 13 00-0025 EA 9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	20,190.46	4,536.85
For Flat Filter Box And Throwaway Filters, Add	1,695.67	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,197.31	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,763.62	
For Manual Roll Filter, Add	8,194.34	
For Automatic Roll Filter, Add	8,880.48	
For Hot Water Heating Coil, Aluminum Fins, Add	4,077.48	
For Electric Heating Coil, Add	6,822.05	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,822.05	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,135.91	
For Steam Heating Coil, Aluminum Fins, Add	5,449.76	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,440.24	
For Chilled Water Cooling Coil, Copper Fins, Add	8,194.34	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,508.19	
For Hot Water Heating Coil, Copper Fins, Add	5,449.76	
For Variable Air Volume, Add	1,921.20	
For Economizer, Panel, Controls And Damper(s), Add	3,120.28	
For 2 Coils, Independent Circuits, Add	2,293.50	
23 73 13 00-0026 EA 10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	21,194.47	4,843.87
For Flat Filter Box And Throwaway Filters, Add	1,773.37	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,339.10	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,974.05	
For Manual Roll Filter, Add	8,542.30	
For Automatic Roll Filter, Add	9,255.95	
For Hot Water Heating Coil, Aluminum Fins, Add	4,260.40	
For Electric Heating Coil, Add	7,115.00	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,115.00	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,401.35	
For Steam Heating Coil, Aluminum Fins, Add	5,687.70	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,627.98	
For Chilled Water Cooling Coil, Copper Fins, Add	8,542.30	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,828.65	
For Hot Water Heating Coil, Copper Fins, Add	5,687.70	
For Variable Air Volume, Add	1,998.22	
For Economizer, Panel, Controls And Damper(s), Add	3,256.44	
For 2 Coils, Independent Circuits, Add	2,404.91	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0027 EA 11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	21,225.47 1,788.68 3,377.03 5,032.16 8,669.18 9,396.59 4,304.76 7,214.38 7,214.38 6,486.97 5,759.57 4,698.29 8,669.18 7,941.78 5,759.57 2,036.73 3,183.22 2,413.51	4,690.12
23 73 13 00-0028 EA 12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	22,255.29 1,853.92 3,484.88 5,190.16 8,895.95 9,637.10 4,449.00 7,413.63 7,413.63 6,672.47 5,931.32 4,818.55 8,895.95 8,154.79 5,931.32 2,075.24 3,409.64 2,521.99	5,203.56
23 73 13 00-0029 EA 13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	23,407.49 1,955.85 3,680.76 5,482.65 9,410.02 10,195.49 4,697.17 7,839.07 7,839.07 7,053.59 6,268.12 5,097.74 9,410.02 8,624.54 6,268.12 2,199.33 2,939.60 2,654.94	5,412.57
23 73 13 00-0030 EA 15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	24,633.63 2,061.47 3,881.81 5,782.53 9,931.48 10,761.27 4,952.73 8,271.90 8,271.90 7,442.11 6,612.32 5,380.63 9,931.48 9,101.69 6,612.32 2,323.41 3,007.56 2,795.28	5,622.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0031	EA		16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	25,913.38 2,175.89 4,102.51 6,112.22 10,513.32 11,393.54 5,232.00 8,752.88 8,752.88 7,872.66 6,992.44 5,696.77 10,513.32 9,633.10 6,992.44 2,464.62 3,061.80 2,943.43	5,838.43
23 73 13 00-0032	EA		17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	27,259.17 2,293.61 4,327.83 6,448.51 11,101.76 12,032.41 5,517.86 9,240.46 9,240.46 8,309.81 7,379.16 6,016.20 11,101.76 10,171.11 7,379.16 2,605.82 3,129.24 3,098.18	6,054.90
23 73 13 00-0033	EA		20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	30,306.33 2,566.69 4,855.02 8,287.50 11,862.17 12,493.00 5,133.38 5,553.93 9,338.88 8,287.50 7,236.13 5,720.81 11,441.63 10,390.25 8,287.50 2,943.85 3,358.80 3,451.18	6,491.29
23 73 13 00-0034	EA		22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	33,563.90 2,854.88 5,408.85 9,239.81 13,240.53 13,946.54 5,709.76 6,180.43 10,416.49 9,239.81 8,063.12 6,384.93 12,769.85 11,593.17 9,239.81 3,294.71 3,490.29 3,827.06	6,995.83



Heating, Ventilating, and Air-Conditioning (HVAC)		23
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0035 EA 25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	37,092.46 3,173.43 6,025.36 10,303.26 14,787.18 15,578.46 6,346.85 6,874.37 11,622.06 10,303.26 8,984.45 7,129.83 14,259.66 12,940.86 10,303.26 3,692.65 3,610.37 4,236.77	7,495.89
23 73 13 00-0036 EA 27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	45,270.04 3,950.59 7,555.33 12,962.45 18,698.55 19,710.80 7,901.18 8,576.02 14,649.54 12,962.45 11,275.36 9,011.86 18,023.71 16,336.62 12,962.45 4,723.85 3,752.45 5,201.84	8,072.88
23 73 13 00-0037 EA 30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	50,443.23 4,429.31 8,489.60 14,580.04 21,064.33 22,208.61 8,858.61 9,621.47 16,487.18 14,580.04 12,672.90 10,150.74 20,301.47 18,394.33 14,580.04 5,340.00 3,610.05 5,807.18	8,616.62
23 73 13 00-0038 EA 32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	55,212.13 4,858.77 9,320.07 16,012.03 23,145.79 24,404.68 9,717.54 10,556.81 18,110.19 16,012.03 13,913.87 11,153.26 22,306.52 20,208.36 16,012.03 5,874.86 3,752.33 6,360.48	9,278.82

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0039	EA		35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	60,545.22 5,334.78 10,237.72 17,592.13 25,437.70 26,822.21 10,669.56 11,592.57 19,899.65 17,592.13 15,284.61 12,257.35 24,514.69 22,207.17 17,592.13 6,461.06 3,924.22 6,977.53	10,557.80
23 73 13 00-0040	EA		37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	65,109.50 5,747.90 11,037.98 18,973.09 27,447.35 28,942.81 11,495.81 12,492.78 21,465.52 18,973.09 16,480.66 13,225.19 26,450.38 23,957.95 18,973.09 6,978.80 4,054.14 7,507.92	10,687.74
23 73 13 00-0041	EA		40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	70,209.70 6,201.57 11,911.51 20,476.42 29,626.12 31,240.77 12,403.15 13,479.58 23,167.50 20,476.42 17,785.33 14,274.84 28,549.68 25,858.59 20,476.42 7,535.05 3,878.49 8,097.41	11,433.27
23 73 13 00-0042	EA		45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	75,767.19 6,694.92 12,860.76 22,109.52 31,991.82 33,735.75 13,389.84 14,552.46 25,016.08 22,109.52 19,202.96 15,414.60 30,829.20 27,922.64 22,109.52 8,138.37 4,034.50 8,739.34	12,344.74



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0043 EA 47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	78,944.35 6,972.97 13,393.07 23,023.22 33,310.79 35,126.24 13,945.95 15,156.25 26,048.97 23,023.22 19,997.46 16,050.24 32,100.48 29,074.73 23,023.22 8,472.12 4,133.65 9,104.74	12,924.57
23 73 13 00-0044 EA 50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	81,935.34 7,235.61 13,896.46 23,887.73 34,559.79 36,443.09 14,471.21 15,726.75 27,026.57 23,887.73 20,748.89 16,652.13 33,304.25 30,165.41 23,887.73 8,788.75 4,224.82 9,449.07	13,421.66
23 73 13 00-0045 EA 55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	88,304.58 7,806.22 14,997.89 25,785.39 37,314.74 39,349.34 15,612.43 16,968.83 29,176.38 25,785.39 22,394.40 17,979.18 35,958.35 32,567.36 25,785.39 9,494.76 4,390.61 10,186.85	14,333.02
23 73 13 00-0046 EA 60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	96,492.10 8,553.31 16,449.09 28,292.76 40,970.37 43,207.60 17,106.63 18,598.11 32,021.47 28,292.76 24,564.05 19,739.44 39,478.89 35,750.18 28,292.76 10,440.39 4,091.79 11,140.69	15,327.22

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0047	EA		65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	105,702.98	16,569.96
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	9,386.73	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	18,063.32	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	31,078.20	
			<i>For Manual Roll Filter, Add</i>	45,023.57	
			<i>For Automatic Roll Filter, Add</i>	47,484.52	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	18,773.46	
			<i>For Electric Heating Coil, Add</i>	20,414.09	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	35,179.78	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	31,078.20	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	26,976.62	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	21,691.47	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	43,382.94	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	39,281.36	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	31,078.20	
			<i>For Variable Air Volume, Add</i>	11,484.43	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,267.14	
			<i>For 2 Coils, Independent Circuits, Add</i>	12,210.93	
23 73 13 00-0048	EA		70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	115,982.82	17,978.40
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	10,311.80	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	19,851.70	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	34,161.56	
			<i>For Manual Roll Filter, Add</i>	49,504.59	
			<i>For Automatic Roll Filter, Add</i>	52,212.18	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	20,623.59	
			<i>For Electric Heating Coil, Add</i>	22,428.66	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	38,674.22	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	34,161.56	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	29,648.90	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	23,849.76	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	47,699.53	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	43,186.87	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	34,161.56	
			<i>For Variable Air Volume, Add</i>	12,635.44	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,472.97	
			<i>For 2 Coils, Independent Circuits, Add</i>	13,403.34	
23 73 13 00-0049			Multi-Zone Units <small>(23 73 13)</small>		
			Note: Horizontal/vertical blow-thru fan, motor and cabinet.		
23 73 13 00-0050	EA		1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	7,019.78	1,491.06
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,130.77	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	595.49	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	1,127.10	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,435.49	
			<i>For Manual Roll Filter, Add</i>	2,902.53	
			<i>For Automatic Roll Filter, Add</i>	2,902.53	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	701.98	
			<i>For Electric Heating Coil, Add</i>	799.78	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	2,413.52	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	2,413.52	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	2,902.53	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	2,902.53	
			<i>For 2 Coils, Independent Circuits, Add</i>	799.78	
23 73 13 00-0051	EA		1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	8,750.78	1,868.03
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,508.09	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	741.64	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	1,403.23	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,787.39	
			<i>For Manual Roll Filter, Add</i>	3,612.01	
			<i>For Automatic Roll Filter, Add</i>	3,612.01	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	875.08	
			<i>For Electric Heating Coil, Add</i>	996.72	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	3,003.81	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	3,003.81	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	3,612.01	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	3,612.01	
			<i>For 2 Coils, Independent Circuits, Add</i>	996.72	
23 73 13 00-0052	EA		1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	10,725.30	1,988.16
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,628.00	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	930.53	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	1,775.86	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	2,255.33	
			<i>For Manual Roll Filter, Add</i>	4,620.92	
			<i>For Automatic Roll Filter, Add</i>	4,620.92	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	1,072.53	
			<i>For Electric Heating Coil, Add</i>	1,230.24	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	3,832.39	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	3,832.39	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	4,620.92	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	4,620.92	
			<i>For 2 Coils, Independent Circuits, Add</i>	1,230.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0053 EA 2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	11,170.45	2,129.00
For Economizer, Panel, Controls And Damper(s), Add	2,768.45	
For Flat Filter Box And Throwaway Filters, Add	965.01	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,838.81	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,336.52	
For Manual Roll Filter, Add	4,775.46	
For Automatic Roll Filter, Add	4,775.46	
For Hot Water Heating Coil, Aluminum Fins, Add	1,117.05	
For Electric Heating Coil, Add	1,279.64	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,962.48	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,962.48	
For Chilled Water Cooling Coil, Copper Fins, Add	4,775.46	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,775.46	
For 2 Coils, Independent Circuits, Add	1,279.64	
23 73 13 00-0054 EA 2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	13,010.18	2,282.27
For Economizer, Panel, Controls And Damper(s), Add	2,922.36	
For Flat Filter Box And Throwaway Filters, Add	1,137.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,178.17	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,763.47	
For Manual Roll Filter, Add	5,688.37	
For Automatic Roll Filter, Add	5,688.37	
For Hot Water Heating Coil, Aluminum Fins, Add	1,301.02	
For Electric Heating Coil, Add	1,496.01	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,713.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,713.40	
For Chilled Water Cooling Coil, Copper Fins, Add	5,688.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,688.37	
For 2 Coils, Independent Circuits, Add	1,496.01	
23 73 13 00-0055 EA 3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	13,730.02	2,444.07
For Economizer, Panel, Controls And Damper(s), Add	3,083.95	
For Flat Filter Box And Throwaway Filters, Add	1,198.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,292.13	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,908.80	
For Manual Roll Filter, Add	5,980.40	
For Automatic Roll Filter, Add	5,980.40	
For Hot Water Heating Coil, Aluminum Fins, Add	1,373.00	
For Electric Heating Coil, Add	1,577.78	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,956.54	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,956.54	
For Chilled Water Cooling Coil, Copper Fins, Add	5,980.40	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,980.40	
For 2 Coils, Independent Circuits, Add	1,577.78	
23 73 13 00-0056 EA 3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	14,486.01	2,609.65
For Economizer, Panel, Controls And Damper(s), Add	3,249.44	
For Flat Filter Box And Throwaway Filters, Add	1,262.21	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,412.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,062.34	
For Manual Roll Filter, Add	6,289.81	
For Automatic Roll Filter, Add	6,289.81	
For Hot Water Heating Coil, Aluminum Fins, Add	1,448.60	
For Electric Heating Coil, Add	1,663.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,213.99	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,213.99	
For Chilled Water Cooling Coil, Copper Fins, Add	6,289.81	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,289.81	
For 2 Coils, Independent Circuits, Add	1,663.77	
23 73 13 00-0057 EA 4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	16,125.39	2,800.33
For Economizer, Panel, Controls And Damper(s), Add	2,945.49	
For Flat Filter Box And Throwaway Filters, Add	1,412.95	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,706.14	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,432.58	
For Manual Roll Filter, Add	7,072.65	
For Automatic Roll Filter, Add	7,072.65	
For Hot Water Heating Coil, Aluminum Fins, Add	1,612.54	
For Electric Heating Coil, Add	1,855.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,859.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,859.30	
For Chilled Water Cooling Coil, Copper Fins, Add	7,072.65	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,072.65	
For 2 Coils, Independent Circuits, Add	1,855.21	
23 73 13 00-0058 EA 4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	17,609.96	2,998.92
For Economizer, Panel, Controls And Damper(s), Add	3,106.43	
For Flat Filter Box And Throwaway Filters, Add	1,546.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,965.02	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,759.83	
For Manual Roll Filter, Add	7,757.49	
For Automatic Roll Filter, Add	7,757.49	
For Hot Water Heating Coil, Aluminum Fins, Add	1,761.00	
For Electric Heating Coil, Add	2,027.51	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,424.94	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,424.94	
For Chilled Water Cooling Coil, Copper Fins, Add	7,757.49	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,757.49	
For 2 Coils, Independent Circuits, Add	2,027.51	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0059 EA 5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	18,624.43	3,202.97
For Economizer, Panel, Controls And Damper(s), Add	3,260.95	
For Flat Filter Box And Throwaway Filters, Add	1,634.18	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,131.39	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,971.30	
For Manual Roll Filter, Add	8,189.02	
For Automatic Roll Filter, Add	8,189.02	
For Hot Water Heating Coil, Aluminum Fins, Add	1,862.44	
For Electric Heating Coil, Add	2,143.62	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,783.12	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,783.12	
For Chilled Water Cooling Coil, Copper Fins, Add	8,189.02	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,189.02	
For 2 Coils, Independent Circuits, Add	2,143.62	
23 73 13 00-0060 EA 5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	20,508.57	3,421.94
For Economizer, Panel, Controls And Damper(s), Add	3,439.93	
For Flat Filter Box And Throwaway Filters, Add	1,806.32	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,465.91	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,393.53	
For Manual Roll Filter, Add	9,078.86	
For Automatic Roll Filter, Add	9,078.86	
For Hot Water Heating Coil, Aluminum Fins, Add	2,050.86	
For Electric Heating Coil, Add	2,363.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,517.08	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,517.08	
For Chilled Water Cooling Coil, Copper Fins, Add	9,078.86	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,078.86	
For 2 Coils, Independent Circuits, Add	2,363.21	
23 73 13 00-0061 EA 6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	21,827.05	3,662.20
For Economizer, Panel, Controls And Damper(s), Add	3,627.18	
For Flat Filter Box And Throwaway Filters, Add	1,921.14	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,685.35	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,672.08	
For Manual Roll Filter, Add	9,650.82	
For Automatic Roll Filter, Add	9,650.82	
For Hot Water Heating Coil, Aluminum Fins, Add	2,182.71	
For Electric Heating Coil, Add	2,514.62	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,991.24	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,991.24	
For Chilled Water Cooling Coil, Copper Fins, Add	9,650.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,650.82	
For 2 Coils, Independent Circuits, Add	2,514.62	
23 73 13 00-0062 EA 6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	23,922.82	3,976.79
For Economizer, Panel, Controls And Damper(s), Add	3,872.12	
For Flat Filter Box And Throwaway Filters, Add	2,108.45	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,046.61	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,129.22	
For Manual Roll Filter, Add	10,603.09	
For Automatic Roll Filter, Add	10,603.09	
For Hot Water Heating Coil, Aluminum Fins, Add	2,392.28	
For Electric Heating Coil, Add	2,757.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,778.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,778.46	
For Chilled Water Cooling Coil, Copper Fins, Add	10,603.09	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,603.09	
For 2 Coils, Independent Circuits, Add	2,757.21	
23 73 13 00-0063 EA 7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	25,707.64	4,283.45
For Economizer, Panel, Controls And Damper(s), Add	4,114.15	
For Flat Filter Box And Throwaway Filters, Add	2,264.93	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,346.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,509.42	
For Manual Roll Filter, Add	11,386.72	
For Automatic Roll Filter, Add	11,386.72	
For Hot Water Heating Coil, Aluminum Fins, Add	2,570.76	
For Electric Heating Coil, Add	2,962.58	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,427.62	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,427.62	
For Chilled Water Cooling Coil, Copper Fins, Add	11,386.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,386.72	
For 2 Coils, Independent Circuits, Add	2,962.58	
23 73 13 00-0064 EA 7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	27,019.10	4,631.30
For Economizer, Panel, Controls And Damper(s), Add	3,581.16	
For Flat Filter Box And Throwaway Filters, Add	2,371.77	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,545.44	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,764.34	
For Manual Roll Filter, Add	11,889.20	
For Automatic Roll Filter, Add	11,889.20	
For Hot Water Heating Coil, Aluminum Fins, Add	2,701.91	
For Electric Heating Coil, Add	3,110.23	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,847.58	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,847.58	
For Chilled Water Cooling Coil, Copper Fins, Add	11,889.20	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,889.20	
For 2 Coils, Independent Circuits, Add	3,110.23	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0065 EA 8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	29,940.83	4,995.61
For Economizer, Panel, Controls And Damper(s), Add	3,796.28	
For Flat Filter Box And Throwaway Filters, Add	2,637.05	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,059.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,414.10	
For Manual Roll Filter, Add	13,254.15	
For Automatic Roll Filter, Add	13,254.15	
For Hot Water Heating Coil, Aluminum Fins, Add	2,994.08	
For Electric Heating Coil, Add	3,450.09	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,974.13	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,974.13	
For Chilled Water Cooling Coil, Copper Fins, Add	13,254.15	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,254.15	
For 2 Coils, Independent Circuits, Add	3,450.09	
23 73 13 00-0066 EA 8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	31,567.86	5,385.00
For Economizer, Panel, Controls And Damper(s), Add	4,019.20	
For Flat Filter Box And Throwaway Filters, Add	2,771.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,312.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,737.26	
For Manual Roll Filter, Add	13,898.22	
For Automatic Roll Filter, Add	13,898.22	
For Hot Water Heating Coil, Aluminum Fins, Add	3,156.79	
For Electric Heating Coil, Add	3,634.18	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,511.23	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,511.23	
For Chilled Water Cooling Coil, Copper Fins, Add	13,898.22	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,898.22	
For 2 Coils, Independent Circuits, Add	3,634.18	
23 73 13 00-0067 EA 9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	33,367.57	5,832.63
For Economizer, Panel, Controls And Damper(s), Add	4,262.30	
For Flat Filter Box And Throwaway Filters, Add	2,921.47	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,593.77	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,096.03	
For Manual Roll Filter, Add	14,614.58	
For Automatic Roll Filter, Add	14,614.58	
For Hot Water Heating Coil, Aluminum Fins, Add	3,336.76	
For Electric Heating Coil, Add	3,837.99	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,108.39	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,108.39	
For Chilled Water Cooling Coil, Copper Fins, Add	14,614.58	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,614.58	
For 2 Coils, Independent Circuits, Add	3,837.99	
23 73 13 00-0068 EA 10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	35,315.43	6,296.23
For Economizer, Panel, Controls And Damper(s), Add	3,880.16	
For Flat Filter Box And Throwaway Filters, Add	3,081.52	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,893.02	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,478.78	
For Manual Roll Filter, Add	15,373.25	
For Automatic Roll Filter, Add	15,373.25	
For Hot Water Heating Coil, Aluminum Fins, Add	3,531.54	
For Electric Heating Coil, Add	4,057.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,741.76	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,741.76	
For Chilled Water Cooling Coil, Copper Fins, Add	15,373.25	
For Direct Expansion Cooling Coil, Copper Fins, Add	15,373.25	
For 2 Coils, Independent Circuits, Add	4,057.84	
23 73 13 00-0069 EA 11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	36,332.41	6,536.85
For Economizer, Panel, Controls And Damper(s), Add	3,988.12	
For Flat Filter Box And Throwaway Filters, Add	3,165.22	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,049.63	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,679.04	
For Manual Roll Filter, Add	15,770.65	
For Automatic Roll Filter, Add	15,770.65	
For Hot Water Heating Coil, Aluminum Fins, Add	3,633.24	
For Electric Heating Coil, Add	4,172.68	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,073.45	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,073.45	
For Chilled Water Cooling Coil, Copper Fins, Add	15,770.65	
For Direct Expansion Cooling Coil, Copper Fins, Add	15,770.65	
For 2 Coils, Independent Circuits, Add	4,172.68	
23 73 13 00-0070 EA 12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	37,295.30	6,770.13
For Economizer, Panel, Controls And Damper(s), Add	4,079.85	
For Flat Filter Box And Throwaway Filters, Add	3,246.22	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,202.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,873.90	
For Manual Roll Filter, Add	16,162.64	
For Automatic Roll Filter, Add	16,162.64	
For Hot Water Heating Coil, Aluminum Fins, Add	3,729.53	
For Electric Heating Coil, Add	4,282.11	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,399.73	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,399.73	
For Chilled Water Cooling Coil, Copper Fins, Add	16,162.64	
For Direct Expansion Cooling Coil, Copper Fins, Add	16,162.64	
For 2 Coils, Independent Circuits, Add	4,282.11	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0071 EA 13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	41,995.20	7,042.24
For Economizer, Panel, Controls And Damper(s), Add	3,417.45	
For Flat Filter Box And Throwaway Filters, Add	3,695.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,087.70	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,985.72	
For Manual Roll Filter, Add	18,558.11	
For Automatic Roll Filter, Add	18,558.11	
For Hot Water Heating Coil, Aluminum Fins, Add	4,199.52	
For Electric Heating Coil, Add	4,837.68	
For Chilled Water Cooling Coil, Aluminum Fins, Add	15,367.31	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,367.31	
For Chilled Water Cooling Coil, Copper Fins, Add	18,558.11	
For Direct Expansion Cooling Coil, Copper Fins, Add	18,558.11	
For 2 Coils, Independent Circuits, Add	4,837.68	
23 73 13 00-0072 EA 15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	46,650.58	7,321.20
For Economizer, Panel, Controls And Damper(s), Add	3,566.16	
For Flat Filter Box And Throwaway Filters, Add	4,141.87	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,969.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,093.08	
For Manual Roll Filter, Add	20,949.13	
For Automatic Roll Filter, Add	20,949.13	
For Hot Water Heating Coil, Aluminum Fins, Add	4,665.06	
For Electric Heating Coil, Add	5,388.79	
For Chilled Water Cooling Coil, Aluminum Fins, Add	17,330.45	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,330.45	
For Chilled Water Cooling Coil, Copper Fins, Add	20,949.13	
For Direct Expansion Cooling Coil, Copper Fins, Add	20,949.13	
For 2 Coils, Independent Circuits, Add	5,388.79	
23 73 13 00-0073 EA 16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	53,406.62	7,597.33
For Economizer, Panel, Controls And Damper(s), Add	3,633.29	
For Flat Filter Box And Throwaway Filters, Add	4,798.29	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,271.17	
For Combination Filter Mixing Box And Throwaway Filters, Add	11,724.55	
For Manual Roll Filter, Add	24,492.32	
For Automatic Roll Filter, Add	24,492.32	
For Hot Water Heating Coil, Aluminum Fins, Add	5,340.66	
For Electric Heating Coil, Add	6,191.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	20,236.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	20,236.40	
For Chilled Water Cooling Coil, Copper Fins, Add	24,492.32	
For Direct Expansion Cooling Coil, Copper Fins, Add	24,492.32	
For 2 Coils, Independent Circuits, Add	6,191.85	
23 73 13 00-0074 EA 17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	60,168.08	7,870.73
For Economizer, Panel, Controls And Damper(s), Add	3,701.37	
For Flat Filter Box And Throwaway Filters, Add	5,454.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	10,572.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	13,356.56	
For Manual Roll Filter, Add	28,036.06	
For Automatic Roll Filter, Add	28,036.06	
For Hot Water Heating Coil, Aluminum Fins, Add	6,016.81	
For Electric Heating Coil, Add	6,995.44	
For Chilled Water Cooling Coil, Aluminum Fins, Add	23,142.89	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	23,142.89	
For Chilled Water Cooling Coil, Copper Fins, Add	28,036.06	
For Direct Expansion Cooling Coil, Copper Fins, Add	28,036.06	
For 2 Coils, Independent Circuits, Add	6,995.44	
23 73 13 00-0075 EA 20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	67,476.62	8,533.53
For Economizer, Panel, Controls And Damper(s), Add	3,867.87	
For Flat Filter Box And Throwaway Filters, Add	6,138.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,146.47	
For Combination Filter Mixing Box And Throwaway Filters, Add	15,040.99	
For Manual Roll Filter, Add	23,334.31	
For Automatic Roll Filter, Add	28,863.19	
For Hot Water Heating Coil, Aluminum Fins, Add	6,747.66	
For Electric Heating Coil, Add	7,853.44	
For Chilled Water Cooling Coil, Aluminum Fins, Add	23,334.31	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	23,334.31	
For Steam Heating Coil, Aluminum Fins, Add	12,276.54	
For Chilled Water Cooling Coil, Copper Fins, Add	28,863.19	
For Direct Expansion Cooling Coil, Copper Fins, Add	28,863.19	
For 2 Coils, Independent Circuits, Add	7,853.44	
23 73 13 00-0076 EA 22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	72,781.53	9,279.17
For Economizer, Panel, Controls And Damper(s), Add	3,742.50	
For Flat Filter Box And Throwaway Filters, Add	6,618.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,862.57	
For Combination Filter Mixing Box And Throwaway Filters, Add	16,217.89	
For Manual Roll Filter, Add	25,157.62	
For Automatic Roll Filter, Add	31,117.45	
For Hot Water Heating Coil, Aluminum Fins, Add	7,278.15	
For Electric Heating Coil, Add	8,470.12	
For Chilled Water Cooling Coil, Aluminum Fins, Add	25,157.62	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	25,157.62	
For Steam Heating Coil, Aluminum Fins, Add	13,237.98	
For Chilled Water Cooling Coil, Copper Fins, Add	31,117.45	
For Direct Expansion Cooling Coil, Copper Fins, Add	31,117.45	
For 2 Coils, Independent Circuits, Add	8,470.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0077 EA 25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	86,568.78	10,024.47
For Economizer, Panel, Controls And Damper(s), Add	3,912.61	
For Flat Filter Box And Throwaway Filters, Add	7,941.01	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,839.93	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,494.59	
For Manual Roll Filter, Add	30,332.30	
For Automatic Roll Filter, Add	37,557.43	
For Hot Water Heating Coil, Aluminum Fins, Add	8,656.88	
For Electric Heating Coil, Add	10,101.91	
For Chilled Water Cooling Coil, Aluminum Fins, Add	30,332.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	30,332.30	
For Steam Heating Coil, Aluminum Fins, Add	15,882.02	
For Chilled Water Cooling Coil, Copper Fins, Add	37,557.43	
For Direct Expansion Cooling Coil, Copper Fins, Add	37,557.43	
For 2 Coils, Independent Circuits, Add	10,101.91	
23 73 13 00-0078 EA 27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	97,728.29	10,853.32
For Economizer, Panel, Controls And Damper(s), Add	4,087.41	
For Flat Filter Box And Throwaway Filters, Add	8,998.69	
For Medium Capacity Filter Box And Throwaway Filters, Add	13,420.62	
For Combination Filter Mixing Box And Throwaway Filters, Add	22,109.66	
For Manual Roll Filter, Add	34,446.49	
For Automatic Roll Filter, Add	42,671.05	
For Hot Water Heating Coil, Aluminum Fins, Add	9,772.83	
For Electric Heating Coil, Add	11,417.74	
For Chilled Water Cooling Coil, Aluminum Fins, Add	34,446.49	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	34,446.49	
For Steam Heating Coil, Aluminum Fins, Add	17,997.38	
For Chilled Water Cooling Coil, Copper Fins, Add	42,671.05	
For Direct Expansion Cooling Coil, Copper Fins, Add	42,671.05	
For 2 Coils, Independent Circuits, Add	11,417.74	
23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	105,910.09	11,682.18
For Economizer, Panel, Controls And Damper(s), Add	4,269.42	
For Flat Filter Box And Throwaway Filters, Add	9,756.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	14,550.82	
For Combination Filter Mixing Box And Throwaway Filters, Add	23,973.10	
For Manual Roll Filter, Add	37,355.20	
For Automatic Roll Filter, Add	46,276.59	
For Hot Water Heating Coil, Aluminum Fins, Add	10,591.01	
For Electric Heating Coil, Add	12,375.29	
For Chilled Water Cooling Coil, Aluminum Fins, Add	37,355.20	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	37,355.20	
For Steam Heating Coil, Aluminum Fins, Add	19,512.41	
For Chilled Water Cooling Coil, Copper Fins, Add	46,276.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	46,276.59	
For 2 Coils, Independent Circuits, Add	12,375.29	
23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	118,534.10	13,669.86
For Economizer, Panel, Controls And Damper(s), Add	4,268.67	
For Flat Filter Box And Throwaway Filters, Add	10,877.94	
For Medium Capacity Filter Box And Throwaway Filters, Add	16,219.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,707.12	
For Manual Roll Filter, Add	41,560.84	
For Automatic Roll Filter, Add	51,463.31	
For Hot Water Heating Coil, Aluminum Fins, Add	11,853.41	
For Electric Heating Coil, Add	13,833.91	
For Chilled Water Cooling Coil, Aluminum Fins, Add	41,560.84	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	41,560.84	
For Steam Heating Coil, Aluminum Fins, Add	21,755.89	
For Chilled Water Cooling Coil, Copper Fins, Add	51,463.31	
For Direct Expansion Cooling Coil, Copper Fins, Add	51,463.31	
For 2 Coils, Independent Circuits, Add	13,833.91	
23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	119,263.77	14,167.31
For Economizer, Panel, Controls And Damper(s), Add	4,359.88	
For Flat Filter Box And Throwaway Filters, Add	10,914.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	16,270.44	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,780.09	
For Manual Roll Filter, Add	41,633.80	
For Automatic Roll Filter, Add	51,536.28	
For Hot Water Heating Coil, Aluminum Fins, Add	11,926.38	
For Electric Heating Coil, Add	13,906.87	
For Chilled Water Cooling Coil, Aluminum Fins, Add	41,633.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	41,633.80	
For Steam Heating Coil, Aluminum Fins, Add	21,828.85	
For Chilled Water Cooling Coil, Copper Fins, Add	51,536.28	
For Direct Expansion Cooling Coil, Copper Fins, Add	51,536.28	
For 2 Coils, Independent Circuits, Add	13,906.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	124,700.18	14,663.94
For Economizer, Panel, Controls And Damper(s), Add	4,451.09	
For Flat Filter Box And Throwaway Filters, Add	11,421.58	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,027.53	
For Combination Filter Mixing Box And Throwaway Filters, Add	28,029.74	
For Manual Roll Filter, Add	43,589.46	
For Automatic Roll Filter, Add	53,962.61	
For Hot Water Heating Coil, Aluminum Fins, Add	12,470.02	
For Electric Heating Coil, Add	14,544.65	
For Chilled Water Cooling Coil, Aluminum Fins, Add	43,589.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	43,589.46	
For Steam Heating Coil, Aluminum Fins, Add	22,843.17	
For Chilled Water Cooling Coil, Copper Fins, Add	53,962.61	
For Direct Expansion Cooling Coil, Copper Fins, Add	53,962.61	
For 2 Coils, Independent Circuits, Add	14,544.65	
23 73 13 00-0083 EA 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	130,574.79	15,741.46
For Economizer, Panel, Controls And Damper(s), Add	4,639.10	
For Flat Filter Box And Throwaway Filters, Add	11,933.84	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,788.40	
For Combination Filter Mixing Box And Throwaway Filters, Add	29,272.78	
For Manual Roll Filter, Add	45,488.09	
For Automatic Roll Filter, Add	56,298.29	
For Hot Water Heating Coil, Aluminum Fins, Add	13,057.48	
For Electric Heating Coil, Add	15,219.52	
For Chilled Water Cooling Coil, Aluminum Fins, Add	45,488.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	45,488.09	
For Steam Heating Coil, Aluminum Fins, Add	23,867.68	
For Chilled Water Cooling Coil, Copper Fins, Add	56,298.29	
For Direct Expansion Cooling Coil, Copper Fins, Add	56,298.29	
For 2 Coils, Independent Circuits, Add	15,219.52	
23 73 13 00-0084 EA 45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	140,593.10	16,569.96
For Economizer, Panel, Controls And Damper(s), Add	4,775.83	
For Flat Filter Box And Throwaway Filters, Add	12,880.98	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,203.63	
For Combination Filter Mixing Box And Throwaway Filters, Add	31,613.28	
For Manual Roll Filter, Add	49,167.25	
For Automatic Roll Filter, Add	60,869.90	
For Hot Water Heating Coil, Aluminum Fins, Add	14,059.31	
For Electric Heating Coil, Add	16,399.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	49,167.25	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	49,167.25	
For Steam Heating Coil, Aluminum Fins, Add	25,761.96	
For Chilled Water Cooling Coil, Copper Fins, Add	60,869.90	
For Direct Expansion Cooling Coil, Copper Fins, Add	60,869.90	
For 2 Coils, Independent Circuits, Add	16,399.84	
23 73 13 00-0085 EA 50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	151,078.18	17,481.31
For Economizer, Panel, Controls And Damper(s), Add	4,400.50	
For Flat Filter Box And Throwaway Filters, Add	13,857.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	20,661.33	
For Combination Filter Mixing Box And Throwaway Filters, Add	34,018.79	
For Manual Roll Filter, Add	52,929.77	
For Automatic Roll Filter, Add	65,537.09	
For Hot Water Heating Coil, Aluminum Fins, Add	15,107.82	
For Electric Heating Coil, Add	17,629.28	
For Chilled Water Cooling Coil, Aluminum Fins, Add	52,929.77	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	52,929.77	
For Steam Heating Coil, Aluminum Fins, Add	27,715.14	
For Chilled Water Cooling Coil, Copper Fins, Add	65,537.09	
For Direct Expansion Cooling Coil, Copper Fins, Add	65,537.09	
For 2 Coils, Independent Circuits, Add	17,629.28	
23 73 13 00-0086 EA 55,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	162,656.87	18,558.36
For Economizer, Panel, Controls And Damper(s), Add	4,549.78	
For Flat Filter Box And Throwaway Filters, Add	14,940.80	
For Medium Capacity Filter Box And Throwaway Filters, Add	22,278.70	
For Combination Filter Mixing Box And Throwaway Filters, Add	36,689.54	
For Manual Roll Filter, Add	57,113.40	
For Automatic Roll Filter, Add	70,729.30	
For Hot Water Heating Coil, Aluminum Fins, Add	16,265.69	
For Electric Heating Coil, Add	18,988.87	
For Chilled Water Cooling Coil, Aluminum Fins, Add	57,113.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	57,113.40	
For Steam Heating Coil, Aluminum Fins, Add	29,881.59	
For Chilled Water Cooling Coil, Copper Fins, Add	70,729.30	
For Direct Expansion Cooling Coil, Copper Fins, Add	70,729.30	
For 2 Coils, Independent Circuits, Add	18,988.87	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 73 13 00-0087	EA	60,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	174,243.87		19,055.45
		<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,617.38		
		<i>For Flat Filter Box And Throwaway Filters, Add</i>	16,065.70		
		<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	23,962.68		
		<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	39,484.90		
		<i>For Manual Roll Filter, Add</i>	61,545.41		
		<i>For Automatic Roll Filter, Add</i>	76,252.42		
		<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	17,424.39		
		<i>For Electric Heating Coil, Add</i>	20,365.79		
		<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	61,545.41		
		<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	61,545.41		
		<i>For Steam Heating Coil, Aluminum Fins, Add</i>	32,131.40		
		<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	76,252.42		
		<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	76,252.42		
		<i>For 2 Coils, Independent Circuits, Add</i>	20,365.79		

23 73 13 00-0088 Return/Supply Air Fan ^(23 73 13)

Note: Includes vibration mounts.

23 73 13 00-0089	EA	300 CFM Return Air Fan	3,039.58		662.68
23 73 13 00-0090	EA	500 CFM Return Air Fan	3,924.52		795.24
23 73 13 00-0091	EA	750 CFM Return Air Fan	4,098.66		828.38
23 73 13 00-0092	EA	1,000 CFM Return Air Fan	4,660.55		878.09
23 73 13 00-0093	EA	1,250 CFM Return Air Fan	4,806.30		919.51
23 73 13 00-0094	EA	1,500 CFM Return Air Fan	4,923.07		960.94
23 73 13 00-0095	EA	1,750 CFM Return Air Fan	5,167.44		1,010.65
23 73 13 00-0096	EA	2,000 CFM Return Air Fan	5,729.29		1,060.36
23 73 13 00-0097	EA	2,250 CFM Return Air Fan	6,002.40		1,110.07
23 73 13 00-0098	EA	2,500 CFM Return Air Fan	6,160.05		1,159.78
23 73 13 00-0099	EA	3,000 CFM Return Air Fan	6,539.31		1,284.05
23 73 13 00-0100	EA	3,500 CFM Return Air Fan	6,720.83		1,350.34
23 73 13 00-0101	EA	4,000 CFM Return Air Fan	6,890.25		1,408.32
23 73 13 00-0102	EA	4,500 CFM Return Air Fan	7,100.62		1,474.73
23 73 13 00-0103	EA	5,000 CFM Return Air Fan	7,293.59		1,549.29
23 73 13 00-0104	EA	5,500 CFM Return Air Fan	7,669.24		1,731.56
23 73 13 00-0105	EA	6,000 CFM Return Air Fan	8,736.98		2,054.67
23 73 13 00-0106	EA	6,500 CFM Return Air Fan	8,958.26		2,087.82
23 73 13 00-0107	EA	7,000 CFM Return Air Fan	9,056.18		2,096.10
23 73 13 00-0108	EA	8,000 CFM Return Air Fan	9,508.41		2,129.24
23 73 13 00-0109	EA	9,000 CFM Return Air Fan	9,713.20		2,154.09
23 73 13 00-0110	EA	10,000 CFM Return Air Fan	10,210.92		2,237.30
23 73 13 00-0111	EA	12,500 CFM Return Air Fan	10,845.35		2,278.25
23 73 13 00-0112	EA	15,000 CFM Return Air Fan	12,180.90		2,342.99
23 73 13 00-0113	EA	17,500 CFM Return Air Fan	13,255.37		2,468.80
23 73 13 00-0114	EA	20,000 CFM Return Air Fan	15,660.46		2,576.28
23 73 13 00-0115	EA	22,500 CFM Return Air Fan	16,403.20		2,666.11
23 73 13 00-0116	EA	25,000 CFM Return Air Fan	17,132.90		2,742.33
23 73 13 00-0117	EA	27,500 CFM Return Air Fan	18,191.98		3,015.73
23 73 13 00-0118	EA	30,000 CFM Return Air Fan	19,437.91		3,181.20
23 73 13 00-0119	EA	35,000 CFM Return Air Fan	21,851.37		3,313.63
23 73 13 00-0120	EA	40,000 CFM Return Air Fan	25,673.67		3,645.04
23 73 13 00-0121	EA	45,000 CFM Return Air Fan	31,492.44		4,142.14
23 73 13 00-0122	EA	50,000 CFM Return Air Fan	38,115.16		4,291.62
23 73 13 00-0123	EA	55,000 CFM Return Air Fan	39,874.23		4,415.54
23 73 13 00-0124	EA	60,000 CFM Return Air Fan	40,797.21		4,531.53
23 73 13 00-0125	EA	65,000 CFM Return Air Fan	42,777.43		4,730.25
23 73 13 00-0126	EA	70,000 CFM Return Air Fan	44,929.57		4,963.18
23 73 13 00-0127	EA	75,000 CFM Return Air Fan	48,288.14		5,206.64
23 73 13 00-0128	EA	80,000 CFM Return Air Fan	50,443.30		5,482.65
23 73 13 00-0129	EA	90,000 CFM Return Air Fan	52,123.00		5,794.87
23 73 13 00-0130	EA	100,000 CFM Return Air Fan	55,993.97		6,060.11
23 73 13 00-0131	EA	115,000 CFM Return Air Fan	60,189.83		6,349.96
23 73 13 00-0132	EA	130,000 CFM Return Air Fan	64,744.91		6,669.88
23 73 13 00-0133	EA	150,000 CFM Return Air Fan	70,762.70		7,025.19

23 73 13 00-0134 Removal And Reinstallation Of Air Handling Unit ^(23 73 13)

Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

23 73 13 00-0135	EA	Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit	3,034.79		
23 73 13 00-0136	EA	Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit	4,116.76		
23 73 13 00-0137	EA	Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit	5,121.21		
23 73 13 00-0138	EA	Removal And Reinstallation Of >22,000 CFM Air Handling Unit	9,343.96		

23 74 Packaged Outdoor HVAC Equipment ^(23 70)

23 74 16 Packaged Rooftop Air-Conditioning Units ^(23 74)

23 74 16 13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units ^(23 74 16)

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0001 Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Air-Conditioning Units <small>(23 74 16 13)</small>		
Note: Electric heating capacity is approximately 1/2 the cooling capacity. Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0002 EA 2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	5,356.38	2,164.45
For Unit Without Heat, Deduct	-412.12	
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0003 EA 3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	6,722.26	2,262.85
For Unit Without Heat, Deduct	-486.97	
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0004 EA 4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	7,735.53	2,361.23
For Unit Without Heat, Deduct	-544.19	
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0005 EA 5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	9,079.09	2,508.80
For Unit Without Heat, Deduct	-621.21	
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0006 EA 6 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	9,856.84	2,656.38
For Unit Without Heat, Deduct	-669.93	
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0007 EA 7.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	10,990.67	2,853.15
For Unit Without Heat, Deduct	-739.74	
For Unit Without Factory Installed Economizer, Deduct	-904.88	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0008 EA 8.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	11,768.41	3,000.73
For Unit Without Heat, Deduct	-788.47	
For Unit Without Factory Installed Economizer, Deduct	-904.88	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0009 EA 10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	12,902.24	3,197.49
For Unit Without Heat, Deduct	-858.28	
For Unit Without Factory Installed Economizer, Deduct	-925.36	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0010 EA 12.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	15,444.21	3,455.26
For Unit Without Heat, Deduct	-1,002.59	
For Unit Without Factory Installed Economizer, Deduct	-999.40	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0011 EA 15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	17,986.18	3,714.02
For Unit Without Heat, Deduct	-1,146.91	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0012 EA 17.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	20,452.36	3,972.11
For Unit Without Heat, Deduct	-1,287.44	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0013 EA 20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	22,918.55	4,230.53
For Unit Without Heat, Deduct	-1,427.96	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0014 EA 22.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	25,664.81	4,660.79
For Unit Without Heat, Deduct	-1,593.97	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0015 EA 25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	28,411.09	5,091.39
For Unit Without Heat, Deduct	-1,759.98	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0016 EA 27.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	31,273.46	5,571.18
For Unit Without Heat, Deduct	-1,935.07	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,259.08	
23 74 16 13-0017 EA 30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	34,135.84	6,050.64
For Unit Without Heat, Deduct	-2,110.17	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,259.08	
23 74 16 13-0018 EA 35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	39,774.63	7,059.08
For Unit Without Heat, Deduct	-2,459.34	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,259.08	
23 74 16 13-0019 EA 40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	45,413.42	8,067.52
For Unit Without Heat, Deduct	-2,808.51	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,843.86	
23 74 16 13-0020 EA 45 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	50,024.08	9,100.56
For Unit Without Heat, Deduct	-3,107.91	
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,843.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0021 EA 50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	54,634.74	10,133.60
<i>For Unit Without Heat, Deduct</i>	-3,407.31	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,843.86	
23 74 16 13-0022 EA 55 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	60,139.70	11,117.44
<i>For Unit Without Heat, Deduct</i>	-3,748.15	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,266.52	
23 74 16 13-0023 EA 60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	65,644.65	12,101.29
<i>For Unit Without Heat, Deduct</i>	-4,088.99	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,266.52	
23 74 16 13-0024 EA 65 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	70,998.05	13,085.13
<i>For Unit Without Heat, Deduct</i>	-4,422.25	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,426.22	
23 74 16 13-0025 EA 70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	76,351.43	14,068.97
<i>For Unit Without Heat, Deduct</i>	-4,755.50	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,426.22	
23 74 16 13-0026 EA 75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	81,836.00	15,151.21
<i>For Unit Without Heat, Deduct</i>	-5,101.88	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,696.33	
23 74 16 13-0027 Electric Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning Units (23 74 16 13)		
Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment, 26 28 16 16-0001 for Disconnects.		
23 74 16 13-0028 EA 2 Ton Electric Cooling, 50 MBH Gas Heating, Self Contained Package Rooftop Unit.....	5,334.63	1,967.69
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-866.54	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0029 EA 3 Ton Electric Cooling, 60 To 80 MBH Gas Heating, Self Contained Package Rooftop Unit.....	6,088.22	2,262.85
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-866.54	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0030 EA 4 Ton Electric Cooling, 80 To 110 MBH Gas Heating, Self Contained Package Rooftop Unit.....	7,447.50	2,607.18
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-866.54	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0031 EA 5 Ton Electric Cooling, 100 To 120 MBH Gas Heating, Self Contained Package Rooftop Unit.....	8,477.63	2,803.96
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-866.54	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0032 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit.....	9,461.15	3,025.32
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-866.54	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0033 EA 7.5 Ton Electric Cooling, 150 To 180 MBH Gas Heating, Self Contained Package Rooftop Unit.....	10,293.31	3,172.89
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-904.88	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0034 EA 8.5 Ton Electric Cooling, 170 To 190 MBH Gas Heating, Self Contained Package Rooftop Unit.....	12,183.28	2,631.78
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-904.88	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0035 EA 10 Ton Electric Cooling, 200 To 240 MBH Gas Heating, Self Contained Package Rooftop Unit.....	14,968.27	3,541.84
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-925.36	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0036 EA 12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit.....	16,341.39	3,836.99
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-999.40	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0037 EA 15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit.....	19,594.22	4,132.15
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0038 EA 17.5 Ton Electric Cooling, 330 MBH Gas Heating, Self Contained Package Rooftop Unit.....	20,729.07	4,427.30
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0039 EA 20 Ton Electric Cooling, 350 MBH Gas Heating, Self Contained Package Rooftop Unit.....	31,077.20	4,722.45
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0040 EA 22.5 Ton Electric Cooling, 380 MBH Gas Heating, Self Contained Package Rooftop Unit.....	37,769.40	5,214.37
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0041 EA 25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit.....	44,461.60	5,640.71
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0042 EA 27.5 Ton Electric Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit.....	45,911.74	6,198.22
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0043 EA 30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit.....	47,361.89	6,690.14
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0044 EA 35 Ton Electric Cooling, 550 MBH Gas Heating, Self Contained Package Rooftop Unit.....	53,159.40	7,821.57
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0045 EA 40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit.....	58,956.91	8,952.98
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,843.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0046	EA		45 Ton Electric Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	63,695.42 -1,889.16 -1,843.86	10,084.40
23 74 16 13-0047	EA		50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	68,433.93 -1,889.16 -1,843.86	11,215.83
23 74 16 13-0048	EA		55 Ton Electric Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	74,972.74 -1,889.16 -2,266.52	12,347.24
23 74 16 13-0049	EA		60 Ton Electric Cooling, 850 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	81,511.55 -1,889.16 -2,266.52	13,478.66
23 74 16 13-0050	EA		65 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	87,163.71 -1,889.16 -2,426.22	14,044.37
23 74 16 13-0051	EA		70 Ton Electric Cooling, 950 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	92,783.07 -1,889.16 -2,426.22	14,585.50
23 74 16 13-0052	EA		75 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	98,435.22 -1,889.16 -2,696.33	15,151.21
23 74 16 13-0053	EA		80 Ton Electric Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	104,120.17 -1,889.16 -2,696.33	15,741.51
23 74 16 13-0054	EA		90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	140,622.20 -1,889.16 -2,696.33	18,496.27
23 74 16 13-0055	EA		100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	162,415.05 -1,889.16 -2,696.33	22,530.04

23 74 16 13-0056 **AAON Rooftop Units** (23 74 16 13)
 Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment, 26 28 16 16-0001 for disconnects.

23 74 16 13-0057 **AAON RQ Rooftop Units** (23 74 16 13-0056)
 Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.

23 74 16 13-0058	EA		2 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-002) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	11,376.70 1,108.35 1,202.49 946.71 1,083.48 5,523.98 1,289.52	1,967.69
23 74 16 13-0059	EA		3 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-003) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	12,462.95 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	2,262.85
23 74 16 13-0060	EA		4 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-004) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	13,080.16 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	2,607.18
23 74 16 13-0061	EA		5 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-005) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	13,482.84 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	2,803.96
23 74 16 13-0062	EA		6 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-006) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	14,728.27 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	3,418.93

23 74 16 13-0063 **AAON RNA Rooftop Units** (23 74 16 13-0056)
 Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Packaged Outdoor HVAC Equipment	23 74

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0064 EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-006)	17,500.92	3,025.99
For Factory Installed And Wired Dry Bulb Economizer, Add	1,156.31	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,776.20	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,184.73	
For Factory Installed Non-Fused Disconnect, Add	1,094.14	
For Factory Installed Exhaust Fan, Add	2,950.27	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,005.33	
23 74 16 13-0065 EA 7 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-007)	18,655.05	3,172.97
For Factory Installed And Wired Dry Bulb Economizer, Add	1,156.31	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,776.20	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,184.73	
For Factory Installed Non-Fused Disconnect, Add	1,094.14	
For Factory Installed Exhaust Fan, Add	2,950.27	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,005.33	
23 74 16 13-0066 EA 8 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-008)	21,306.27	3,418.93
For Factory Installed And Wired Dry Bulb Economizer, Add	1,156.31	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,776.20	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,184.73	
For Factory Installed Non-Fused Disconnect, Add	1,094.14	
For Factory Installed Exhaust Fan, Add	2,950.27	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,005.33	
23 74 16 13-0067 EA 10 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-010)	21,564.38	3,541.84
For Factory Installed And Wired Dry Bulb Economizer, Add	1,156.31	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,776.20	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,184.73	
For Factory Installed Non-Fused Disconnect, Add	1,094.14	
For Factory Installed Exhaust Fan, Add	2,950.27	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,005.33	
23 74 16 13-0068 AAON RNB Rooftop Units <small>(23 74 16 13-0066)</small>		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.		
23 74 16 13-0069 EA 9 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-009)	25,249.99	3,541.84
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0070 EA 11 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-011)	25,379.91	3,443.46
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0071 EA 13 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-013)	27,712.81	3,836.99
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0072 EA 15 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-015)	28,518.41	4,132.15
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0073 AAON RNC Rooftop Units <small>(23 74 16 13-0066)</small>		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0074 EA 16 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-016)	36,141.87	4,132.15
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0075 EA 18 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-018)	39,025.65	4,427.30
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0076 EA 20 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-020)	41,367.67	4,722.45
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0077 EA 25 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-025)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	45,054.25 2,515.10 1,776.20 1,056.84 5,159.86 460.04	5,706.30
23 74 16 13-0078 EA 30 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-030)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	51,206.18 2,515.10 1,776.20 1,056.84 5,159.86 460.04	6,690.14
23 74 16 13-0079 AAON RND Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0080 EA 26 Ton, Air Cooled Packaged Rooftop Units (AAON RND-026)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	66,949.47 2,220.25 2,404.97 3,374.78	5,706.30
23 74 16 13-0081 EA 31 Ton, Air Cooled Packaged Rooftop Units (AAON RND-031)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	76,380.27 2,220.25 2,404.97 3,374.78	6,690.14
23 74 16 13-0082 EA 40 Ton, Air Cooled Packaged Rooftop Units (AAON RND-040)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	90,532.38 2,220.25 2,404.97 3,374.78	8,952.98
23 74 16 13-0083 EA 50 Ton, Air Cooled Packaged Rooftop Units (AAON RND-050)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	106,533.53 2,220.25 2,404.97 3,374.78	11,215.83
23 74 16 13-0084 EA 60 Ton, Air Cooled Packaged Rooftop Units (AAON RND-060)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	117,605.71 2,220.25 2,404.97 3,374.78	13,478.66
23 74 16 13-0085 EA 70 Ton, Air Cooled Packaged Rooftop Units (AAON RND-070)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	123,960.70 2,220.25 2,404.97 3,374.78	14,585.56
23 74 16 13-0086 AAON RNE Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0087 EA 55 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-055)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	113,901.77 2,507.99 3,602.13 4,795.74	12,347.24
23 74 16 13-0088 EA 65 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-065)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	125,693.92 2,507.99 3,602.13 4,795.74	14,044.44
23 74 16 13-0089 EA 75 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-075)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	133,757.62 2,507.99 3,602.13 4,795.74	15,151.21
23 74 16 13-0090 EA 95 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-090)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	162,992.16 2,507.99 3,602.13 4,795.74	20,513.15
23 74 16 13-0091 EA 105 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-105)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	177,158.59 2,507.99 3,602.13 4,795.74	23,415.50
23 74 16 13-0092 EA 120 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-120)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	205,802.44 2,507.99 3,602.13 4,795.74	25,776.71
23 74 16 13-0093 EA 130 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-130)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	211,324.04 2,507.99 3,602.13 4,795.74	27,350.87
23 74 16 13-0094 EA 140 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-140)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	222,471.78 2,507.99 3,602.13 4,795.74	30,597.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0095 Heat Pump, Packaged Rooftop Heat Pump Units <small>(23 74 16 13)</small> See CSI section 01 22 23 00-0792 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0096 Packaged Rooftop Heat Pump Units <small>(23 74 16 13-0095)</small> Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.		
23 74 16 13-0097 EA 2 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	6,491.84 2,048.04 206.53 -720.49	1,770.92
23 74 16 13-0098 EA 2.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	6,850.50 2,174.72 215.61 -720.49	1,903.80
23 74 16 13-0099 EA 3 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	7,254.54 2,310.92 226.96 -720.49	2,036.56
23 74 16 13-0100 EA 3.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	7,787.21 2,288.09 243.26 -720.49	2,191.48
23 74 16 13-0101 EA 4 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	8,320.10 2,446.86 259.57 -720.49	2,346.53
23 74 16 13-0102 EA 5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	8,920.84 2,626.91 222.24 -720.49	2,523.63
23 74 16 13-0103 EA 6 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	9,991.43 2,896.57 190.83 -720.49	2,722.76
23 74 16 13-0104 EA 7.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	12,598.21 2,958.62 263.72 -864.62	2,855.64
23 74 16 13-0105 EA 8.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	14,046.05 3,145.09 298.30 -864.62	3,076.94
23 74 16 13-0106 EA 10 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	15,055.44 3,205.62 216.10 -864.62	3,187.65
23 74 16 13-0107 EA 12.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	17,370.70 3,578.83 255.33 -864.62	3,453.30
23 74 16 13-0108 EA 15 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	19,685.95 3,952.02 294.55 -864.62	3,718.93
23 74 16 13-0109 EA 17.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	21,977.95 4,322.90 333.30 -864.62	3,984.57
23 74 16 13-0110 EA 20 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add For Unit Without Roof Curb, Deduct	24,269.95 4,693.78 372.06 -864.62	4,250.20
23 74 16 13-0111 Heating Only Packaged Rooftop Units <small>(23 74 16 13-0095)</small> Note: Includes throwaway filters, filter rack, manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0112 EA 24 MBH Electric Heating Only, Self Contained Package Rooftop Unit For Gas Heat, Add For Unit Without Roof Curb, Deduct	6,212.00 387.62 -720.49	1,770.92
23 74 16 13-0113 EA 32 MBH Electric Heating Only, Self Contained Package Rooftop Unit For Gas Heat, Add For Unit Without Roof Curb, Deduct	7,277.99 455.15 -720.49	2,036.56
23 74 16 13-0114 EA 45 MBH Electric Heating Only, Self Contained Package Rooftop Unit For Gas Heat, Add For Unit Without Roof Curb, Deduct	9,756.61 620.39 -720.49	2,346.53
23 74 16 13-0115 EA 60 MBH Electric Heating Only, Self Contained Package Rooftop Unit For Gas Heat, Add For Unit Without Roof Curb, Deduct	10,949.59 699.18 -720.49	2,523.63

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0116	EA		95 MBH Electric Heating Only, Self Contained Package Rooftop Unit	12,815.94	2,855.64
			<i>For Gas Heat, Add</i>	820.97	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0117	EA		112 MBH Electric Heating Only, Self Contained Package Rooftop Unit	14,371.35	3,076.94
			<i>For Gas Heat, Add</i>	923.94	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0118	EA		140 MBH Electric Heating Only, Self Contained Package Rooftop Unit	16,796.71	3,187.65
			<i>For Gas Heat, Add</i>	1,090.77	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0119	EA		170 MBH Electric Heating Only, Self Contained Package Rooftop Unit	21,621.90	3,718.93
			<i>For Gas Heat, Add</i>	1,414.36	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0120	EA		200 MBH Electric Heating Only, Self Contained Package Rooftop Unit	28,125.66	3,984.57
			<i>For Gas Heat, Add</i>	1,862.54	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0121	EA		230 MBH Electric Heating Only, Self Contained Package Rooftop Unit	32,645.68	4,250.20
			<i>For Gas Heat, Add</i>	2,171.86	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0122	EA		270 MBH Electric Heating Only, Self Contained Package Rooftop Unit	42,062.41	4,692.93
			<i>For Gas Heat, Add</i>	2,819.22	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0123	EA		330 MBH Electric Heating Only, Self Contained Package Rooftop Unit	52,468.54	5,971.94
			<i>For Gas Heat, Add</i>	3,524.04	
			<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0124	EA		360 MBH Electric Heating Only, Self Contained Package Rooftop Unit	64,167.73	6,021.12
			<i>For Gas Heat, Add</i>	4,331.18	
			<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0125	EA		450 MBH Electric Heating Only, Self Contained Package Rooftop Unit	78,022.94	7,039.47
			<i>For Gas Heat, Add</i>	5,273.89	
			<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0126	EA		540 MBH Electric Heating Only, Self Contained Package Rooftop Unit	101,170.77	9,076.03
			<i>For Gas Heat, Add</i>	6,839.93	
			<i>For Unit Without Roof Curb, Deduct</i>	-1,843.86	

23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)**23 74 23 13 Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units (23 74 23)****23 74 23 13-0001 Make-Up Air Units (23 74 23 13)**

Note: Units are shipped fully factory assembled in one piece, prewired, prepiped, charged with refrigerant. Includes throwaway filters and start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0792 for crane lifting equipment.

23 74 23 13-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 13-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0793 for crane lifting equipment.

23 74 23 13-0003	EA		100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark	6,700.81	590.31
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	1,715.09	
			<i>For Equipment Base Roof Curb, Add</i>	808.09	
23 74 23 13-0004	EA		300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark	8,613.80	669.01
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	2,246.35	
			<i>For Equipment Base Roof Curb, Add</i>	1,042.95	
23 74 23 13-0005	EA		500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark	11,903.30	787.08
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	3,177.45	
			<i>For Equipment Base Roof Curb, Add</i>	1,448.56	
23 74 23 13-0006	EA		670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark	12,029.84	839.55
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	3,185.90	
			<i>For Equipment Base Roof Curb, Add</i>	1,461.42	
23 74 23 13-0007	EA		800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark	16,325.68	944.49
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	4,425.46	
			<i>For Equipment Base Roof Curb, Add</i>	1,993.49	
23 74 23 13-0008	EA		1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark	24,618.55	1,180.61
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	6,795.26	
			<i>For Equipment Base Roof Curb, Add</i>	3,018.29	

23 74 23 13-0009 Electric Make-Up Air Units (23 74 23 13-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0793 for crane lifting equipment.

23 74 23 13-0010	EA		33 KW, 1/2 HP, 1,200 CFM Make-up Air Unit, Electric	13,498.07	590.31
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	3,754.27	
			<i>For Equipment Base Roof Curb, Add</i>	1,657.74	
23 74 23 13-0011	EA		100 KW, 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric	19,222.06	669.01
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	5,428.83	
			<i>For Equipment Base Roof Curb, Add</i>	2,368.98	
23 74 23 13-0012	EA		150 KW, 2 HP, 4,000 CFM Make-up Air Unit, Electric	23,792.01	787.08
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	6,744.07	
			<i>For Equipment Base Roof Curb, Add</i>	2,934.65	
23 74 23 13-0013	EA		250 KW, 5 HP, 7,500 CFM Make-up Air Unit, Electric	30,744.90	944.49
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	8,751.22	
			<i>For Equipment Base Roof Curb, Add</i>	3,795.89	
23 74 23 13-0014	EA		400 KW, 10 HP, 10,000 CFM Make-up Air Unit, Electric	49,549.65	1,180.61
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	14,274.59	
			<i>For Equipment Base Roof Curb, Add</i>	6,134.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 76 Evaporative Air-Cooling Equipment ^(23 70)

23 76 13 Direct Evaporative Air Coolers ^(23 76)

23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit ^(23 76 13)

Note: Includes motor, belt and pads.

23 76 13 00-0002	EA	3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,491.94	387.18
23 76 13 00-0003	EA	4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,760.54	451.71
23 76 13 00-0004	EA	4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,257.60	516.24
23 76 13 00-0005	EA	5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,463.31	580.77
23 76 13 00-0006	EA	6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,822.38	645.30
23 76 13 00-0007	EA	7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit	3,043.43	709.83

23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers ^(23 76 13)

Note: Excludes motor starter, piping, power wiring and equipment rigging.

23 76 13 00-0009	EA	7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit	2,760.23	392.70
23 76 13 00-0010	EA	8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit	2,848.61	405.42
23 76 13 00-0011	EA	9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,424.60	563.04
23 76 13 00-0012	EA	11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	7,111.36	664.63
23 76 13 00-0013	EA	13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	7,798.66	973.00
23 76 13 00-0014	EA	16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,903.59	1,037.87
23 76 13 00-0015	EA	15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,264.54	1,167.60
23 76 13 00-0016	EA	19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	9,832.73	1,459.51
23 76 13 00-0017	EA	17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	10,048.62	1,907.86
23 76 13 00-0018	EA	22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	11,113.92	1,946.00
23 76 13 00-0019	EA	24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit	11,750.29	2,162.27
23 76 13 00-0020	EA	30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	15,956.85	3,378.52
23 76 13 00-0021	EA	35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	17,783.93	3,525.38
23 76 13 00-0022	EA	40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit	19,637.75	3,685.60

23 80 Decentralized Unitary HVAC Equipment ⁽²³⁾

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 81 Decentralized Unitary HVAC Equipment ^(23 80)

23 81 13 Packaged Terminal Air-Conditioners ^(23 81)

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

23 81 13 11 Packaged Terminal Air-Conditioners, Through-Wall Units ^(23 81 13)

23 81 13 11-0001 Packaged Terminal Air-Conditioners ^(23 81 13 11)

23 81 13 11-0002 Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners ^(23 81 13 11-0001)

23 81 13 11-0003	EA	7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,773.24	241.99
		For >35 To 70, Deduct	-38.68	
		For >70 To 100, Deduct	-64.46	
		For >100, Deduct	-90.25	
23 81 13 11-0004	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,910.77	300.10
		For >35 To 70, Deduct	-39.34	
		For >70 To 100, Deduct	-65.56	
		For >100, Deduct	-91.79	
23 81 13 11-0005	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,024.31	319.82
		For >35 To 70, Deduct	-41.52	
		For >70 To 100, Deduct	-69.20	
		For >100, Deduct	-96.87	
23 81 13 11-0006	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,186.07	343.77
		For >35 To 70, Deduct	-44.96	
		For >70 To 100, Deduct	-74.94	
		For >100, Deduct	-104.92	

23 81 13 11-0007 Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners ^(23 81 13 11-0001)

23 81 13 11-0008	EA	7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,910.34	266.29
		For >35 To 70, Deduct	-41.36	
		For >70 To 100, Deduct	-68.93	
		For >100, Deduct	-96.51	
23 81 13 11-0009	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,027.36	300.10
		For >35 To 70, Deduct	-42.83	
		For >70 To 100, Deduct	-71.39	
		For >100, Deduct	-99.95	
23 81 13 11-0010	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,108.80	319.82
		For >35 To 70, Deduct	-44.05	
		For >70 To 100, Deduct	-73.42	
		For >100, Deduct	-102.79	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 13 11-0011 EA 14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner <i>For >35 To 70, Deduct</i> <i>For >70 To 100, Deduct</i> <i>For >100, Deduct</i>	2,297.60 -48.31 -80.52 -112.72	343.77
23 81 13 11-0012 Packaged Terminal Air-Conditioners, Through-Wall Unit Sleeve <small>(23 81 13 11)</small> Note: Includes wall case, exterior grille, weather panel and steel closure panels. Includes bolts, nuts, washers, caulking and lintel supports. Not for use with new A/C units where wall sleeve is provided. Excludes cutting opening for unit or patching masonry or concrete.		
23 81 13 11-0013 EA Up To 10,000 BTU Unit, Thru Wall A/C Sleeve	104.26	
23 81 13 11-0014 EA >10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve	117.33	
23 81 13 11-0015 EA >20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve	130.40	
23 81 13 11-0016 Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units <small>(23 81 13 11)</small> Note: Includes storage and cleaning.		
23 81 13 11-0017 EA Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units	258.12	
23 81 13 13 Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units <small>(23 81 13)</small>		
23 81 13 13-0001 Single Package Vertical Wall Cooling Unit <small>(23 81 13 13)</small> Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0793 for crane lifting equipment.		
23 81 13 13-0002 EA 1/2 Ton Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	4,207.08	293.94
23 81 13 13-0003 EA 1 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	6,411.26	307.93
23 81 13 13-0004 EA 1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	8,339.90	321.94
23 81 13 13-0005 EA 2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	9,579.88	349.93
23 81 13 13-0006 EA 2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	11,997.55	405.91
23 81 13 13-0007 EA 3 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	12,910.15	503.89
23 81 13 13-0008 EA 3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	14,298.03	559.88
23 81 13 13-0009 EA 4 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	15,748.22	629.87
23 81 13 13-0010 EA 5 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	17,745.01	755.84
23 81 13 13-0011 EA 7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	22,921.26	937.81
23 81 13 13-0012 EA 10 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	27,414.72	1,259.75
23 81 13 13-0013 EA 15 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	38,317.49	1,539.68
23 81 13 13-0014 EA 20 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	44,172.64	1,833.62
23 81 13 13-0015 EA 25 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	52,721.64	2,057.58
23 81 16 Room Air-Conditioners <small>(23 81)</small> Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.		
23 81 16 00-0001 Window Unit, Room Air-Conditioners <small>(23 81 16)</small>		
23 81 16 00-0002 Cooling Only, Window Unit, Room Air-Conditioners <small>(23 81 16 00-0001)</small>		
23 81 16 00-0003 Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) <small>(23 81 16 00-0002)</small>		
23 81 16 00-0004 EA 5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1) <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	549.89 -13.94 -19.52 -27.89 -33.46	135.51
23 81 16 00-0005 EA 6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1) <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	577.91 -15.34 -21.48 -30.69 -36.83	135.51
23 81 16 00-0006 EA 8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833U1) <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	647.98 -18.85 -26.39 -37.70 -45.23	135.51
23 81 16 00-0007 EA 10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033U1) <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	710.95 -22.00 -30.79 -43.99 -52.79	135.51
23 81 16 00-0008 EA 12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1) <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	872.19 -30.06 -42.08 -60.12 -72.14	135.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0009 EA 15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1)	1,012.32	135.51
<i>For >10 To 50, Deduct</i>	-37.06	
<i>For >50 To 75, Deduct</i>	-51.89	
<i>For >75 To 100, Deduct</i>	-74.13	
<i>For >100, Deduct</i>	-88.95	
23 81 16 00-0010 EA 8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1)	956.27	135.51
<i>For >10 To 50, Deduct</i>	-34.26	
<i>For >50 To 75, Deduct</i>	-47.97	
<i>For >75 To 100, Deduct</i>	-68.52	
<i>For >100, Deduct</i>	-82.23	
23 81 16 00-0011 EA 10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1)	1,026.33	135.51
<i>For >10 To 50, Deduct</i>	-37.77	
<i>For >50 To 75, Deduct</i>	-52.87	
<i>For >75 To 100, Deduct</i>	-75.53	
<i>For >100, Deduct</i>	-90.64	
23 81 16 00-0012 EA 12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1)	1,082.38	135.51
<i>For >10 To 50, Deduct</i>	-40.57	
<i>For >50 To 75, Deduct</i>	-56.79	
<i>For >75 To 100, Deduct</i>	-81.14	
<i>For >100, Deduct</i>	-97.36	
23 81 16 00-0013 EA 18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2)	1,138.43	135.51
<i>For >10 To 50, Deduct</i>	-43.37	
<i>For >50 To 75, Deduct</i>	-60.72	
<i>For >75 To 100, Deduct</i>	-86.74	
<i>For >100, Deduct</i>	-104.09	
23 81 16 00-0014 EA 22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2)	1,250.54	135.51
<i>For >10 To 50, Deduct</i>	-48.98	
<i>For >50 To 75, Deduct</i>	-68.57	
<i>For >75 To 100, Deduct</i>	-97.95	
<i>For >100, Deduct</i>	-117.54	
23 81 16 00-0015 EA 25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2)	1,264.55	135.51
<i>For >10 To 50, Deduct</i>	-49.68	
<i>For >50 To 75, Deduct</i>	-69.55	
<i>For >75 To 100, Deduct</i>	-99.35	
<i>For >100, Deduct</i>	-119.22	
23 81 16 00-0016 EA 28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2)	1,616.41	135.51
<i>For >10 To 50, Deduct</i>	-67.27	
<i>For >50 To 75, Deduct</i>	-94.18	
<i>For >75 To 100, Deduct</i>	-134.54	
<i>For >100, Deduct</i>	-161.45	
23 81 16 00-0017 Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) <small>(23 81 16 00-0002)</small>		
23 81 16 00-0018 EA 8,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10C)	1,710.22	135.51
23 81 16 00-0019 EA 10,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10C)	1,870.29	135.51
23 81 16 00-0020 EA 11,900 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C)	1,943.05	135.51
23 81 16 00-0021 EA 12,000 BTU, 12.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C)	1,972.16	135.51
23 81 16 00-0022 EA 20,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30C)	2,234.09	135.51
23 81 16 00-0023 EA 24,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C)	2,888.93	135.51
23 81 16 00-0024 EA 28,000 BTU, 10.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30C)	3,107.21	135.51
23 81 16 00-0025 EA 36,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B)	3,398.25	135.51
23 81 16 00-0026 Heating And Cooling, Window Unit, Room Air-Conditioners <small>(23 81 16 00-0001)</small>		
23 81 16 00-0027 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) <small>(23 81 16 00-0026)</small>		
23 81 16 00-0028 EA 8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH0822R1)	1,082.38	135.51
<i>For >10 To 50, Deduct</i>	-40.57	
<i>For >50 To 75, Deduct</i>	-56.79	
<i>For >75 To 100, Deduct</i>	-81.14	
<i>For >100, Deduct</i>	-97.36	
23 81 16 00-0029 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222R2)	1,236.53	135.51
<i>For >10 To 50, Deduct</i>	-48.28	
<i>For >50 To 75, Deduct</i>	-67.59	
<i>For >75 To 100, Deduct</i>	-96.55	
<i>For >100, Deduct</i>	-115.86	
23 81 16 00-0030 EA 18,500 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822R2)	1,320.60	135.51
<i>For >10 To 50, Deduct</i>	-52.48	
<i>For >50 To 75, Deduct</i>	-73.47	
<i>For >75 To 100, Deduct</i>	-104.96	
<i>For >100, Deduct</i>	-125.95	
23 81 16 00-0031 EA 25,000 BTU, 9.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522R2)	1,628.89	135.51
<i>For >10 To 50, Deduct</i>	-67.89	
<i>For >50 To 75, Deduct</i>	-95.05	
<i>For >75 To 100, Deduct</i>	-135.79	
<i>For >100, Deduct</i>	-162.94	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0032			Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) (23 81 16 00-0026)		
23 81 16 00-0033	EA		12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B).....	2,044.92	135.51
23 81 16 00-0034			Accessories (23 81 16 00-0001)		
23 81 16 00-0035	SET		Aluminum Air Conditioner Unit Frame And Bracket Assembly.....	538.29	77.49
23 81 16 00-0036			Removal And Reinstallation Of Room Air-Conditioners (23 81 16)		
			Note: Includes storage and cleaning.		
23 81 16 00-0037	EA		Removal And Reinstallation Of Room Air-Conditioning Unit In Window Lower Sash	161.32	
23 81 16 00-0038	EA		Removal And Reinstallation Of Room Air-Conditioning Unit In Window Upper Sash	344.85	
23 81 16 00-0039			Through-The-Wall, Room Air-Conditioners (23 81 16)		
			Note: Base unit excludes wall sleeve.		
23 81 16 00-0040			Cooling Only, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81 16 00-0041			Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0040)		
23 81 16 00-0042	EA		8,000 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10A).....	1,283.53	96.79
			For >10 To 50, Deduct	-54.50	
			For >50 To 75, Deduct	-76.30	
			For >75 To 100, Deduct	-108.99	
			For >100, Deduct	-130.79	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 16 00-0043	EA		9,800 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10B).....	1,385.40	96.79
			For >10 To 50, Deduct	-59.59	
			For >50 To 75, Deduct	-83.43	
			For >75 To 100, Deduct	-119.18	
			For >100, Deduct	-143.02	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 16 00-0044	EA		12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A).....	1,574.57	96.79
			For >10 To 50, Deduct	-69.05	
			For >50 To 75, Deduct	-96.67	
			For >75 To 100, Deduct	-138.10	
			For >100, Deduct	-165.72	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 16 00-0045	EA		10,000 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D30A).....	1,385.40	96.79
			For >10 To 50, Deduct	-59.59	
			For >50 To 75, Deduct	-83.43	
			For >75 To 100, Deduct	-119.18	
			For >100, Deduct	-143.02	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 16 00-0046	EA		12,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D30A).....	1,574.57	96.79
			For >10 To 50, Deduct	-69.05	
			For >50 To 75, Deduct	-96.67	
			For >75 To 100, Deduct	-138.10	
			For >100, Deduct	-165.72	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 16 00-0047			Heating And Cooling, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81 16 00-0048			Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0047)		
23 81 16 00-0049	EA		10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33).....	1,618.23	96.79
			For >10 To 50, Deduct	-71.23	
			For >50 To 75, Deduct	-99.72	
			For >75 To 100, Deduct	-142.46	
			For >100, Deduct	-170.96	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 16 00-0050	EA		12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33).....	1,734.65	96.79
			For >10 To 50, Deduct	-77.05	
			For >50 To 75, Deduct	-107.87	
			For >75 To 100, Deduct	-154.11	
			For >100, Deduct	-184.93	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	
23 81 23			Computer-Room Air-Conditioners (23 81)		
			Note: Includes equipment rigging. Indoor units include filters.		
23 81 23 12			Large-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units (23 81 23)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 12-0001 Floor Mounted Air Cooled Direct Expansion Type <small>(23 81 23 12)</small>		
Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. Excludes precharged copper pipe.		
23 81 23 12-0002 EA 3 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	35,595.68	2,754.65
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		3,932.40
23 81 23 12-0003 EA 5 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	39,284.38	3,012.89
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		4,342.50
23 81 23 12-0004 EA 6 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	54,220.50	3,443.31
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		6,137.39
23 81 23 12-0005 EA 8 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	59,327.00	3,658.52
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		6,735.69
23 81 23 12-0006 EA 10 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	64,433.51	3,873.73
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		7,333.99
23 81 23 12-0007 EA 16 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	72,267.06	4,648.47
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		8,156.62
23 81 23 12-0008 EA 20 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	81,620.31	5,164.97
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		9,242.27
23 81 23 12-0009 EA 22 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	85,387.07	5,335.32
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		9,676.40
23 81 23 12-0010 EA 24 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	92,910.12	5,509.29
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		10,579.63
23 81 23 12-0011 EA 30 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	100,527.19	6,197.96
Note: Includes interior unit and remote condenser. Excludes piping.		
<i>For Liebert Unit, Add</i>		
		11,413.58
23 81 23 12-0012 Floor Mounted Chilled Water Type <small>(23 81 23 12)</small>		
Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for chilled water source.		
23 81 23 12-0013 EA 3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	24,018.59	1,887.50
<i>For Liebert Unit, Add</i>		
		2,687.74
23 81 23 12-0014 EA 5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	25,820.78	2,090.76
<i>For Liebert Unit, Add</i>		
		2,879.14
23 81 23 12-0015 EA 12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	32,030.90	3,184.54
<i>For Liebert Unit, Add</i>		
		3,473.11
23 81 23 12-0016 EA 16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	33,472.09	3,226.50
<i>For Liebert Unit, Add</i>		
		3,646.32
23 81 23 12-0017 EA 20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	34,761.62	3,355.55
<i>For Liebert Unit, Add</i>		
		3,783.79
23 81 23 12-0018 EA 22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	35,614.54	3,678.20
<i>For Liebert Unit, Add</i>		
		3,838.78
23 81 23 12-0019 EA 31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source	37,793.60	4,000.85
<i>For Liebert Unit, Add</i>		
		4,058.74
23 81 23 12-0020 Floor Mounted Water Source <small>(23 81 23 12)</small>		
Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes water source.		
23 81 23 12-0021 EA 3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	18,673.91	1,721.65
<i>For Liebert Unit, Add</i>		
		2,012.62
23 81 23 12-0022 EA 5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	20,537.15	1,807.74
<i>For Liebert Unit, Add</i>		
		2,229.36
23 81 23 12-0023 EA 6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	26,548.21	1,893.83
<i>For Liebert Unit, Add</i>		
		2,964.74
23 81 23 12-0024 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	28,616.21	2,065.99
<i>For Liebert Unit, Add</i>		
		3,189.23
23 81 23 12-0025 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	31,599.52	2,238.15
<i>For Liebert Unit, Add</i>		
		3,529.83
23 81 23 12-0026 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	32,854.70	2,410.32
<i>For Liebert Unit, Add</i>		
		3,653.68
23 81 23 12-0027 EA 15 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	34,309.02	2,582.48
<i>For Liebert Unit, Add</i>		
		3,808.50
23 81 23 12-0028 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	35,295.25	2,754.65
<i>For Liebert Unit, Add</i>		
		3,901.39
23 81 23 12-0029 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit	40,393.29	3,271.14
<i>For Liebert Unit, Add</i>		
		4,438.08
23 81 23 12-0030 Floor Mounted Glycol System Type <small>(23 81 23 12)</small>		
Note: Includes drycoolers, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for water source.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81	23 12-0031	EA	3 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	34,512.15 3,999.44	1,887.50
23 81	23 12-0032	EA	5 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	37,163.91 4,297.03	2,090.76
23 81	23 12-0033	EA	6 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	57,123.36 6,750.02	2,342.43
23 81	23 12-0034	EA	9 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	58,986.43 6,940.96	2,594.10
23 81	23 12-0035	EA	10 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	63,147.70 7,419.17	2,845.76
23 81	23 12-0036	EA	16 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	75,539.25 8,901.97	3,226.50
23 81	23 12-0037	EA	20 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	82,780.45 9,786.15	3,355.55
23 81	23 12-0038	EA	22 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	85,890.73 10,123.30	3,678.20
23 81	23 12-0039	EA	30 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	104,502.85 12,397.39	4,000.85
23 81 23 12-0040 Removal And Reinstallation Of Computer Room Unit ^(23 81 23 12)					
Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.					
23 81	23 12-0041	EA	Removal And Reinstallation Up To 6 Ton, Floor Mounted Chilled Water Computer Room Unit	2,581.20	
23 81	23 12-0042	EA	Removal And Reinstallation Up To 6 Ton Direct Expansion Computer Room Unit	2,151.00	
23 81 23 13 Computer-Room Air-Conditioners, Ceiling Mounted Units ^(23 81 23)					
23 81 23 13-0001 Ceiling Mounted Packaged Computer Room Air Conditioner ^(23 81 23 13)					
Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air cooled condenser complete with fan speed control.					
23 81	23 13-0002	EA	1 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	14,044.75 1,602.24	818.24
23 81	23 13-0003	EA	1.5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	15,550.67 1,759.67	982.66
23 81	23 13-0004	EA	2 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	17,790.89 1,993.40	1,229.81
23 81	23 13-0005	EA	3 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	21,837.80 2,460.85	1,434.76
23 81	23 13-0006	EA	5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	29,504.07 3,395.76	1,559.42
23 81 26 Split-System Air-Conditioners ^(23 81)					
23 81 26 13 Small-Capacity Split-System Air-Conditioners ^(23 81 26)					
23 81 26 13-0001 Split System A/C Unit ^(23 81 26 13)					
See CSI section 23 23 16 00-0001 for piping, 23 54 00 00-0000 for furnaces.					
23 81 26 13-0002 Ductless Split System Air Conditioners ^(23 81 26 13-0001)					
Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0024 for ductless heat pumps.					
23 81 26 13-0003 Wall Mounted Ductless Split System Air Conditioners ^(23 81 26 13-0002)					
23 81	26 13-0004	EA	9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,238.82	425.89
23 81	26 13-0005	EA	11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,429.02	464.61
23 81	26 13-0006	EA	17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,013.10	516.24
23 81	26 13-0007	EA	24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,348.69	567.87
23 81	26 13-0008	EA	25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,048.22	619.49
23 81	26 13-0009	EA	29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,844.84	645.30
23 81	26 13-0010	EA	31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,404.38	687.88
23 81 26 13-0011 Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners ^(23 81 26 13-0002)					
Note: Use this section only when matching indoor and outdoor capacity units are not used.					
23 81	26 13-0012	EA	7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	973.87	206.50
23 81	26 13-0013	EA	9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	1,030.99	219.40
23 81	26 13-0014	EA	11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	1,088.96	232.31
23 81	26 13-0015	EA	17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	1,224.92	245.22
23 81	26 13-0016	EA	24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	1,309.46	258.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 13-0017 EA 19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners.....	2,597.08	309.74
Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0018 EA 25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners.....	2,871.56	335.56
Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0019 EA 30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners.....	4,465.71	361.37
Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0020 Suspended Ceiling Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
Note: Excludes hangers.		
23 81 26 13-0021 EA 24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners.....	5,385.27	619.49
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0022 EA 31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners.....	6,563.69	739.52
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0023 EA 39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners.....	7,953.33	774.35
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0024 Recessed Ceiling Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
Note: Excludes hangers.		
23 81 26 13-0025 EA 11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners.....	3,360.15	516.24
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0026 EA 17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners.....	3,906.55	567.87
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0027 EA 24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners.....	5,385.78	671.11
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0028 EA 32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners.....	6,220.91	739.52
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0029 EA 39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners.....	7,781.94	774.35
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0030 Ductless Split System Accessories <small>(23 81 26 13-0002)</small>		
23 81 26 13-0031 LF 3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	12.84	1.85
23 81 26 13-0032 LF 4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	16.29	2.03
23 81 26 13-0033 LF 6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	20.11	2.24
23 81 26 13-0034 EA 3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	21.78	3.47
23 81 26 13-0035 EA 4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	36.02	3.81
23 81 26 13-0036 EA 6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	40.93	4.19
23 81 26 13-0037 EA 3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	52.99	6.94
23 81 26 13-0038 EA 4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	85.21	7.63
23 81 26 13-0039 EA 6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	95.04	8.40
23 81 26 13-0040 EA 3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	69.46	7.40
23 81 26 13-0041 EA 4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	81.11	8.14
23 81 26 13-0042 EA 6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	123.09	8.95
23 81 26 13-0043 EA 3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	52.99	6.94
23 81 26 13-0044 EA 4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	85.21	7.63
23 81 26 13-0045 EA 6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	95.04	8.40
23 81 26 13-0046 EA 3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	70.78	11.57
23 81 26 13-0047 EA 4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	100.63	12.72
23 81 26 13-0048 EA 6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	119.54	13.99
23 81 26 13-0049 EA 2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	37.10	2.31
23 81 26 13-0050 EA 3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	43.58	6.94
23 81 26 13-0051 EA 4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	68.28	7.63
23 81 26 13-0052 EA 3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	39.82	6.94
23 81 26 13-0053 EA 4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	53.22	7.63
23 81 26 13-0054 EA 6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	57.40	8.40
23 81 26 13-0055 EA 4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	176.68	9.25
23 81 26 13-0056 EA 6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers.....	200.18	10.18
23 81 26 13-0057 EA 14" Condensing Unit Mounting Blocks With End Caps.....	131.44	34.69
23 81 26 13-0058 EA 17" Condensing Unit Mounting Blocks With End Caps.....	144.09	37.00
23 81 26 13-0059 EA 36" Condensing Unit Mounting Blocks With End Caps.....	188.74	39.31
23 81 26 13-0060 EA End Cap, Set of 4.....	18.80	
23 81 26 13-0061 EA 18" Condensing Unit Type 2 Wall Bracket, 165 LB Capacity.....	276.21	69.38
23 81 26 13-0062 EA 21" Condensing Unit Type 2 Wall Bracket, 220 LB Capacity.....	293.43	74.00
23 81 26 13-0063 LF 5/8" ID Condensate Drain Line.....	2.65	0.18
23 81 26 13-0064 LF 3/4" ID Condensate Drain Line.....	2.74	0.18
23 81 26 13-0065 Cased A/C Evaporator Coils <small>(23 81 26 13-0001)</small>		
23 81 26 13-0066 Vertical Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0067 EA 1-1/2 Ton Vertical Cased A/C Evaporator Coil.....	608.89	140.89
23 81 26 13-0068 EA 2 Ton Vertical Cased A/C Evaporator Coil.....	639.18	151.45
23 81 26 13-0069 EA 2-1/2 Ton Vertical Cased A/C Evaporator Coil.....	744.05	162.02
23 81 26 13-0070 EA 3 Ton Vertical Cased A/C Evaporator Coil.....	837.17	172.59
23 81 26 13-0071 EA 3-1/2 Ton Vertical Cased A/C Evaporator Coil.....	950.70	179.63
23 81 26 13-0072 EA 4 Ton Vertical Cased A/C Evaporator Coil.....	1,048.52	186.68
23 81 26 13-0073 EA 4-1/2 Ton Vertical Cased A/C Evaporator Coil.....	1,126.43	200.77
23 81 26 13-0074 EA 5 Ton Vertical Cased A/C Evaporator Coil.....	1,142.35	211.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 13-0075			"A" Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)		
23 81 26 13-0076	EA		2 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	720.62	144.41
23 81 26 13-0077	EA		2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	816.57	152.52
23 81 26 13-0078	EA		3 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	923.23	162.02
23 81 26 13-0079	EA		3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	957.26	167.87
23 81 26 13-0080	EA		4 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	1,002.54	176.11
23 81 26 13-0081	EA		4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	1,021.04	185.27
23 81 26 13-0082	EA		5 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	1,039.17	194.42
23 81 26 13-0083			Slab Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)		
23 81 26 13-0084	EA		2 Ton Slab Style Horizontal Cased A/C Evaporator Coil.....	646.00	144.41
23 81 26 13-0085	EA		3 Ton Slab Style Horizontal Cased A/C Evaporator Coil.....	764.90	162.02
23 81 26 13-0086	EA		4 Ton Slab Style Horizontal Cased A/C Evaporator Coil.....	874.31	176.11
23 81 26 13-0087	EA		5 Ton Slab Style Horizontal Cased A/C Evaporator Coil.....	1,037.86	194.42
23 81 26 16			Large-Capacity Split-System Air-Conditioners (23 81 26)		
23 81 26 16-0001			Split System Air Conditioners, Variable Refrigerant Flow (Mitsubishi City Multi) (23 81 26 16)		
23 81 26 16-0002			Outdoor Units (23 81 26 16-0001)		
23 81 26 16-0003	EA		6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A).....	14,461.69	677.56
23 81 26 16-0004	EA		8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A).....	15,714.92	806.62
23 81 26 16-0005	EA		10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A).....	17,721.60	967.95
23 81 26 16-0006	EA		12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A).....	21,724.04	1,000.21
23 81 26 16-0007	EA		12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A).....	28,754.35	1,032.48
23 81 26 16-0008	EA		14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YKMU-A).....	29,814.00	1,064.74
23 81 26 16-0009	EA		16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A).....	30,873.64	1,097.00
23 81 26 16-0010	EA		18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A).....	32,686.73	1,161.53
23 81 26 16-0011	EA		20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A).....	34,499.83	1,226.07
23 81 26 16-0012	EA		22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A).....	38,566.82	1,290.60
23 81 26 16-0013	EA		24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A).....	42,633.79	1,355.13
23 81 26 16-0014			Indoor Units (23 81 26 16-0001)		
23 81 26 16-0015	EA		6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2).....	1,567.65	209.73
23 81 26 16-0016	EA		8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NHMU-E2).....	1,650.95	225.86
23 81 26 16-0017	EA		12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NHMU-E2).....	1,725.73	241.99
23 81 26 16-0018	EA		15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NHMU-E2).....	1,813.29	258.12
23 81 26 16-0019	EA		18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NHMU-E2).....	1,978.13	306.52
23 81 26 16-0020	EA		24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NKMU-E2).....	2,223.70	371.05
23 81 26 16-0021	EA		30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NKMU-E2).....	2,409.86	403.31
23 81 26 16-0022	EA		6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E3).....	2,234.72	230.70
23 81 26 16-0023	EA		8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E3).....	2,316.99	248.44
23 81 26 16-0024	EA		12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E3).....	2,446.06	266.19
23 81 26 16-0025	EA		15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E3).....	2,651.65	283.93
23 81 26 16-0026	EA		18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E3).....	2,817.66	337.17
23 81 26 16-0027	EA		24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E3).....	3,112.71	408.15
23 81 26 16-0028	EA		27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E3).....	3,271.54	425.89
23 81 26 16-0029	EA		30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E3).....	3,447.36	443.64
23 81 26 16-0030	EA		36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E3).....	3,821.01	488.01
23 81 26 16-0031	EA		48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E3).....	4,233.31	536.80
23 81 26 16-0032	EA		54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E3).....	4,587.32	590.49
23 81 26 16-0033	EA		72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E).....	5,764.31	649.54
23 81 26 16-0034	EA		96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E).....	6,532.13	714.49
23 81 26 16-0035	EA		12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP12NEMU-E).....	2,542.17	266.19
23 81 26 16-0036	EA		15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP15NEMU-E).....	2,682.27	283.93
23 81 26 16-0037	EA		18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP18NEMU-E).....	2,850.83	337.17
23 81 26 16-0038	EA		24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP24NEMU-E).....	3,211.37	408.15
23 81 26 16-0039	EA		30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP30NEMU-E).....	3,461.82	443.64
23 81 26 16-0040	EA		36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP36NEMU-E).....	4,208.00	488.01
23 81 26 16-0041	EA		6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5).....	2,281.50	230.70
23 81 26 16-0042	EA		8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5).....	2,402.04	248.44
23 81 26 16-0043	EA		12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5).....	2,582.14	266.19
23 81 26 16-0044	EA		15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5).....	2,719.69	283.93
23 81 26 16-0045	EA		8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4).....	2,129.87	248.44
23 81 26 16-0046	EA		12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4).....	2,241.93	266.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0112	EA		24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ24PVJU)	4,874.58	408.15
23 81 26 16-0113	EA		30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ30PVJU)	5,564.60	443.64
23 81 26 16-0114	EA		36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ36PVJU)	5,952.38	488.01
23 81 26 16-0115	EA		48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ48PVJU)	6,170.58	536.80
23 81 26 16-0116	EA		7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ07M7VJU)	3,953.80	248.44
23 81 26 16-0117	EA		9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ09M7VJU)	4,048.39	255.54
23 81 26 16-0118	EA		12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ12M7VJU)	4,302.85	266.19
23 81 26 16-0119	EA		18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ18M7VJU)	4,613.63	337.17
23 81 26 16-0120			Branch Selector Boxes <small>(23 81 26 16-0074)</small>		
23 81 26 16-0121	EA		144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin BSV4Q36PVJU).....	11,829.46	290.39
23 81 26 16-0122	EA		216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin BSV6Q36PVJU).....	17,476.96	387.18
23 81 26 16-0123	EA		36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin BSVQ36PVJU)	2,364.44	129.06
23 81 26 16-0124	EA		60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ60PVJU)	3,196.14	193.59
23 81 26 16-0125	EA		96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ96PVJU)	3,989.47	290.39
23 81 26 16-0126			Controllers <small>(23 81 26 16-0074)</small>		
23 81 26 16-0127	EA		Up To 16 Units, Navigation Controller (Daikin BRC1E71)	780.68	25.81
23 81 26 16-0128	EA		Individual Zone Controller (Daikin BRC2A71).....	581.30	25.81
23 81 26 16-0129	EA		Up To 16 Groups, Unified ON/OFF Controller (Daikin DCS301C71).....	1,068.49	25.81
23 81 26 16-0130	EA		Up To 64 Units, Multizone Controller (Daikin DCS302C71).....	1,472.07	25.81
23 81 26 16-0131	EA		I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin DCM601A71).....	13,870.19	309.74
23 81 26 16-0132	EA		I-Touch Manager D3net Plus Adapter (Daikin DCM601A72).....	2,509.14	25.81
23 81 26 16-0133	EA		24 Volt AC, Wired Thermostat For Split A/C Systems (Daikin DACA-TS1-1)	560.83	45.55
23 81 26 16-0134			Energy Recovery Units <small>(23 81 26 16-0074)</small>		
23 81 26 16-0135	EA		300 CFM Energy Recovery Unit (Daikin VAM300GVJU).....	4,115.63	161.32
23 81 26 16-0136	EA		470 CFM Energy Recovery Unit (Daikin VAM470GVJU).....	5,321.58	167.77
23 81 26 16-0137	EA		600 CFM Energy Recovery Unit (Daikin VAM600GVJU).....	6,357.09	174.24
23 81 26 16-0138	EA		1,200 CFM Energy Recovery Unit (Daikin VAM1200GVJU).....	11,806.31	193.59
23 81 43			Air-Source Unitary Heat Pumps <small>(23 81)</small>		
23 81 43 00-0001			Single Package Thru-Wall Heat Pumps <small>(23 81 43)</small>		
Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel. See CSI section 01 22 23 00-0793 for crane lifting equipment.					
23 81 43 00-0002	EA		1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	1,998.14	209.95
			For Unit Economizer, Add	263.50	
			For >35 To 70, Deduct	-47.77	
			For >70 To 100, Deduct	-79.61	
			For >100, Deduct	-111.46	
			For Low Ambient Protection, 0 Degree F, Add	244.78	
23 81 43 00-0003	EA		1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	2,203.06	223.96
			For Unit Economizer, Add	291.07	
			For >35 To 70, Deduct	-53.07	
			For >70 To 100, Deduct	-88.46	
			For >100, Deduct	-123.84	
			For Low Ambient Protection, 0 Degree F, Add	267.70	
23 81 43 00-0004	EA		1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	3,689.14	223.96
			For Unit Economizer, Add	499.12	
			For >35 To 70, Deduct	-97.66	
			For >70 To 100, Deduct	-162.76	
			For >100, Deduct	-227.87	
			For Low Ambient Protection, 0 Degree F, Add	401.45	
23 81 43 00-0005	EA		2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,035.58	223.96
			For Unit Economizer, Add	546.51	
			For >35 To 70, Deduct	-107.21	
			For >70 To 100, Deduct	-178.68	
			For >100, Deduct	-250.16	
			For Low Ambient Protection, 0 Degree F, Add	222.69	
23 81 43 00-0006	EA		2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,558.94	237.95
			For Unit Economizer, Add	618.66	
			For >35 To 70, Deduct	-122.07	
			For >70 To 100, Deduct	-203.45	
			For >100, Deduct	-284.83	
			For Low Ambient Protection, 0 Degree F, Add	244.55	
23 81 43 00-0007	EA		3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,771.24	251.95
			For Unit Economizer, Add	648.38	
			For >35 To 70, Deduct	-128.44	
			For >70 To 100, Deduct	-214.07	
			For >100, Deduct	-299.69	
			For Low Ambient Protection, 0 Degree F, Add	679.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0008 EA 3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,365.36	251.95
<i>For Unit Economizer, Add</i>	730.43	
<i>For >35 To 70, Deduct</i>	-145.42	
<i>For >70 To 100, Deduct</i>	-242.37	
<i>For >100, Deduct</i>	-339.32	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	759.64	
23 81 43 00-0009 EA 4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,910.10	265.94
<i>For Unit Economizer, Add</i>	806.14	
<i>For >35 To 70, Deduct</i>	-161.35	
<i>For >70 To 100, Deduct</i>	-268.91	
<i>For >100, Deduct</i>	-376.47	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	832.14	
23 81 43 00-0010 EA 5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	6,807.89	307.93
<i>For Unit Economizer, Add</i>	928.47	
<i>For >35 To 70, Deduct</i>	-185.76	
<i>For >70 To 100, Deduct</i>	-309.60	
<i>For >100, Deduct</i>	-433.44	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	958.93	
23 81 43 00-0011 EA 7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	12,382.84	363.92
<i>For Unit Economizer, Add</i>	1,703.92	
<i>For >35 To 70, Deduct</i>	-349.23	
<i>For >70 To 100, Deduct</i>	-582.05	
<i>For >100, Deduct</i>	-814.87	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,698.79	
23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	15,940.18	461.90
<i>For Unit Economizer, Add</i>	2,194.11	
<i>For >35 To 70, Deduct</i>	-450.07	
<i>For >70 To 100, Deduct</i>	-750.12	
<i>For >100, Deduct</i>	-1,050.17	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	384.48	
23 81 43 00-0013 EA 12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	19,434.92	517.90
<i>For Unit Economizer, Add</i>	2,679.46	
<i>For >35 To 70, Deduct</i>	-551.97	
<i>For >70 To 100, Deduct</i>	-919.96	
<i>For >100, Deduct</i>	-1,287.94	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	442.94	
23 81 43 00-0014 EA 15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	23,948.39	587.88
<i>For Unit Economizer, Add</i>	3,306.30	
<i>For >35 To 70, Deduct</i>	-683.60	
<i>For >70 To 100, Deduct</i>	-1,139.33	
<i>For >100, Deduct</i>	-1,595.06	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	518.31	
23 81 43 00-0015 EA 20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	31,830.62	629.87
<i>For Unit Economizer, Add</i>	4,405.90	
<i>For >35 To 70, Deduct</i>	-917.13	
<i>For >70 To 100, Deduct</i>	-1,528.54	
<i>For >100, Deduct</i>	-2,139.96	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	620.65	
23 81 43 00-0016 EA 25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	38,311.52	685.86
<i>For Unit Economizer, Add</i>	5,308.74	
<i>For >35 To 70, Deduct</i>	-1,108.19	
<i>For >70 To 100, Deduct</i>	-1,846.99	
<i>For >100, Deduct</i>	-2,585.79	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	712.33	
23 81 43 00-0017 Single Package Vertical Wall Heat Pumps <small>(23 81 43)</small>		
<small>Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0793 for crane lifting equipment.</small>		
23 81 43 00-0018 EA 1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	3,061.58	279.95
23 81 43 00-0019 EA 1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	3,691.28	307.93
23 81 43 00-0020 EA 1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	4,735.50	321.94
23 81 43 00-0021 EA 2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	5,419.94	349.93
23 81 43 00-0022 EA 2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	6,762.08	405.91
23 81 43 00-0023 EA 3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	7,234.46	461.90
23 81 43 00-0024 EA 3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	7,868.55	517.90
23 81 43 00-0025 EA 4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	8,849.66	573.89
23 81 43 00-0026 EA 5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	9,996.24	685.86
23 81 43 00-0027 Heat Pump, Room Air-Conditioners <small>(23 81 43)</small>		
<small>Note: Includes throwaway filters and supplemental heat.</small>		
23 81 43 00-0028 Heat Pump, Window Unit, Room Air-Conditioners <small>(23 81 43 00-0027)</small>		
23 81 43 00-0029 Heat Pump, Window Unit, Room Air-Conditioners (Friedrich) <small>(23 81 43 00-0028)</small>		
23 81 43 00-0030 EA 10,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10C)	2,088.57	135.51
<i>For >10 To 50, Deduct</i>	-90.88	
<i>For >50 To 75, Deduct</i>	-127.23	
<i>For >75 To 100, Deduct</i>	-181.75	
<i>For >100, Deduct</i>	-218.10	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0031	EA		12,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33C).....	2,350.51	135.51
			<i>For >10 To 50, Deduct</i>	-103.97	
			<i>For >50 To 75, Deduct</i>	-145.56	
			<i>For >75 To 100, Deduct</i>	-207.95	
			<i>For >100, Deduct</i>	-249.54	
23 81 43 00-0032	EA		17,500 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich KHM18A34A).....	2,743.41	135.51
			<i>For >10 To 50, Deduct</i>	-123.62	
			<i>For >50 To 75, Deduct</i>	-173.07	
			<i>For >75 To 100, Deduct</i>	-247.24	
			<i>For >100, Deduct</i>	-296.69	
23 81 43 00-0033	EA		24,000 BTU, 10.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35D).....	3,179.97	135.51
			<i>For >10 To 50, Deduct</i>	-145.45	
			<i>For >50 To 75, Deduct</i>	-203.63	
			<i>For >75 To 100, Deduct</i>	-290.89	
			<i>For >100, Deduct</i>	-349.07	
23 81 43 00-0034			Heat Pump, Through-The-Wall, Room Air-Conditioners (23 81 43 00-0027) Note: Base unit excludes wall sleeve.		
23 81 43 00-0035			Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 43 00-0034)		
23 81 43 00-0036	EA		9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D).....	2,083.89	96.79
			<i>For >10 To 50, Deduct</i>	-94.52	
			<i>For >50 To 75, Deduct</i>	-132.32	
			<i>For >75 To 100, Deduct</i>	-189.03	
			<i>For >100, Deduct</i>	-226.84	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 43 00-0037	EA		11,300 BTU, 9.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12D33A).....	2,083.89	96.79
			<i>For >10 To 50, Deduct</i>	-94.52	
			<i>For >50 To 75, Deduct</i>	-132.32	
			<i>For >75 To 100, Deduct</i>	-189.03	
			<i>For >100, Deduct</i>	-226.84	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 46			Water-Source Unitary Heat Pumps (23 81)		
23 81 46 00-0001			Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pumps (23 81 46) Note: R410a. Includes rubber isolator hanger brackets. McQuay CCW Series.		
23 81 46 00-0002	EA		7 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	2,958.20	281.78
23 81 46 00-0003	EA		9 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	3,046.17	281.78
23 81 46 00-0004	EA		12 MBH, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	3,511.07	309.96
23 81 46 00-0005	EA		19 MBH, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	3,706.23	338.13
23 81 46 00-0006	EA		24 MBH, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	3,977.60	366.31
23 81 46 00-0007	EA		30 MBH, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	4,659.51	394.49
23 81 46 00-0008	EA		36 MBH, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	4,774.51	422.67
23 81 46 00-0009	EA		42 MBH, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,202.28	450.84
23 81 46 00-0010	EA		48 MBH, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,551.85	479.02
23 81 46 00-0011	EA		60 MBH, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,657.08	507.20
23 81 49			Split System Heat Pumps (23 81)		
23 81 49 00-0001			Air Cooled, Outdoor Section (23 81 49)		
23 81 49 00-0002	EA		1.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	3,449.76	415.71
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	636.85	
			<i>For Winterstart Control, Add</i>	175.78	
			<i>For 15 SEER, Add</i>	507.58	
			<i>For 16 SEER, Add</i>	817.77	
			<i>For 18 SEER, Add</i>	1,240.75	
23 81 49 00-0003	EA		2 Ton, 14 SEER, Outdoor Heat Pump Unit.....	3,574.70	461.90
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	663.69	
			<i>For Winterstart Control, Add</i>	184.98	
			<i>For 15 SEER, Add</i>	517.47	
			<i>For 16 SEER, Add</i>	833.71	
			<i>For 18 SEER, Add</i>	1,264.93	
23 81 49 00-0004	EA		2.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	3,921.67	536.09
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	731.63	
			<i>For Winterstart Control, Add</i>	205.58	
			<i>For 15 SEER, Add</i>	559.77	
			<i>For 16 SEER, Add</i>	901.85	
			<i>For 18 SEER, Add</i>	1,368.33	
23 81 49 00-0005	EA		3 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,296.97	615.87
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	636.95	
			<i>For Winterstart Control, Add</i>	227.87	
			<i>For 15 SEER, Add</i>	605.48	
			<i>For 16 SEER, Add</i>	975.50	
			<i>For 18 SEER, Add</i>	1,480.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0006 EA 3.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,435.12	639.67
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	658.18	
<i>For Winterstart Control, Add</i>	235.54	
<i>For 15 SEER, Add</i>	623.90	
<i>For 16 SEER, Add</i>	1,005.17	
<i>For 18 SEER, Add</i>	1,525.09	
23 81 49 00-0007 EA 4 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,917.66	734.85
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	726.59	
<i>For Winterstart Control, Add</i>	259.69	
<i>For 15 SEER, Add</i>	696.22	
<i>For 16 SEER, Add</i>	1,121.69	
<i>For 18 SEER, Add</i>	1,701.87	
23 81 49 00-0008 EA 5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,585.48	808.33
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	510.23	
<i>For Winterstart Control, Add</i>	159.78	
<i>For 15 SEER, Add</i>	797.53	
<i>For 16 SEER, Add</i>	1,284.91	
<i>For 18 SEER, Add</i>	1,949.52	
23 81 49 00-0009 EA 7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit.....	6,766.45	903.42
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	596.44	
<i>For Winterstart Control, Add</i>	183.82	
23 81 49 00-0010 EA 10 Ton, 11.1 EER, Outdoor Heat Pump Unit.....	9,303.14	1,084.10
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	468.40	
<i>For Winterstart Control, Add</i>	232.64	
23 81 49 00-0011 EA 15 Ton, 10.9 EER, Outdoor Heat Pump Unit.....	12,178.93	1,264.79
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	531.23	
<i>For Winterstart Control, Add</i>	284.02	
23 81 49 00-0012 EA 20 Ton, 10.3 EER, Outdoor Heat Pump Unit.....	21,567.79	1,355.13
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	564.48	
<i>For Winterstart Control, Add</i>	389.87	
23 81 49 00-0013 Indoor Section, Horizontal Upflow <small>(23 81 49)</small>		
Note: Electric heat. Includes throwaway filters.		
23 81 49 00-0014 EA 2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,183.70	138.09
<i>For Additional 5 KW Electric Heat, Add</i>	104.49	
23 81 49 00-0015 EA 2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,314.36	172.03
<i>For Additional 5 KW Electric Heat, Add</i>	114.23	
23 81 49 00-0016 EA 3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,386.52	207.78
<i>For Additional 5 KW Electric Heat, Add</i>	117.84	
23 81 49 00-0017 EA 3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,850.34	243.28
<i>For Additional 5 KW Electric Heat, Add</i>	160.68	
23 81 49 00-0018 EA 4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....	1,912.52	274.25
<i>For Additional 5 KW Electric Heat, Add</i>	163.79	
23 81 49 00-0019 EA 5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....	2,126.51	314.90
<i>For Additional 5 KW Electric Heat, Add</i>	181.17	
23 81 49 00-0020 EA 7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....	4,460.21	516.24
<i>For Additional 5 KW Electric Heat, Add</i>	394.40	
23 81 49 00-0021 EA 10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 kW Electric Heat.....	6,486.00	580.77
<i>For Additional 5 KW Electric Heat, Add</i>	590.53	
23 81 49 00-0022 EA 15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat.....	9,014.82	645.30
<i>For Additional 5 KW Electric Heat, Add</i>	836.95	
23 81 49 00-0023 EA 20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat.....	10,266.41	774.35
<i>For Additional 5 KW Electric Heat, Add</i>	949.19	
23 81 49 00-0024 Ductless Split System Heat Pumps <small>(23 81 49)</small>		
Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 13-0030 for accessories.		
23 81 49 00-0025 Wall Mounted Ductless Split System Heat Pumps <small>(23 81 49 00-0024)</small>		
23 81 49 00-0026 EA 9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps.....	2,410.21	425.89
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0027 EA 11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps.....	2,663.81	464.61
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0028 EA 17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps.....	3,232.47	516.24
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0029 EA 24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps.....	3,712.88	567.87
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0030 EA 25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps.....	5,184.75	619.49
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0031 EA 29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps.....	5,975.09	645.30
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0032 EA 31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps.....	6,545.77	687.88
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0033 Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps <small>(23 81 49 00-0024)</small>		
Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 49 00-0034 EA 7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,011.58	206.50
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0035 EA 9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,069.56	219.40
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0036 EA 11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,128.38	232.31
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0037 EA 17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,277.19	245.22
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0038 EA 24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,360.88	258.12
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0039 EA 19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	2,914.15	309.74
Note: Includes outdoor unit and refrigerant charge.		
23 81 49 00-0040 EA 23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	3,441.42	335.56
Note: Includes outdoor unit and refrigerant charge.		
23 81 49 00-0041 EA 30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	5,500.03	361.37
Note: Includes outdoor unit and refrigerant charge.		
23 81 49 00-0042 Suspended Ceiling Mounted Ductless Split System Heat Pumps <small>(23 81 49 00-0024)</small>		
Note: Excludes hangers.		
23 81 49 00-0043 EA 24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps.....	5,522.38	619.49
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0044 EA 31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps.....	6,705.08	739.52
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0045 EA 39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps.....	8,039.02	774.35
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0046 Recessed Ceiling Mounted Ductless Split System Heat Pumps <small>(23 81 49 00-0024)</small>		
Note: Excludes hangers.		
23 81 49 00-0047 EA 11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....	3,702.92	516.24
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0048 EA 17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....	4,195.33	567.87
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0049 EA 24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....	5,522.89	671.11
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0050 EA 32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....	6,362.31	739.52
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0051 EA 39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....	7,867.64	774.35
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 82 Convection Heating and Cooling Units <small>(23 80)</small>		
23 82 16 Air Coils <small>(23 82)</small>		
23 82 16 11 Hydronic Air Coils <small>(23 82 16)</small>		
23 82 16 11-0001 Chilled Water Cooling Coils <small>(23 82 16 11)</small>		
Note: Flanged construction, 16 gauge galvanized steel casing.		
23 82 16 11-0002 2 Row Chilled Water Cooling Coils <small>(23 82 16 11-0001)</small>		
23 82 16 11-0003 EA 12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,718.90	70.45
23 82 16 11-0004 EA 12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,843.23	95.80
23 82 16 11-0005 EA 24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,837.64	150.75
23 82 16 11-0006 EA 24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,653.57	215.56
23 82 16 11-0007 EA 30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,957.54	264.88
23 82 16 11-0008 EA 30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,559.87	321.23
23 82 16 11-0009 EA 30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,971.66	371.94
23 82 16 11-0010 EA 30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,476.66	657.11
23 82 16 11-0011 EA 34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,953.41	249.80
23 82 16 11-0012 EA 34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,115.28	425.34
23 82 16 11-0013 EA 34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,728.35	528.34
23 82 16 11-0014 EA 34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,321.88	638.09
23 82 16 11-0015 EA 34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,921.35	743.05



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0016				4 Row Chilled Water Cooling Coils <small>(23 82 16 11-0001)</small>		
	EA			12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	2,138.87	146.52
	EA			12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,434.64	211.34
	EA			24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,702.71	352.23
	EA			24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,780.03	522.70
	EA			30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,693.86	641.05
	EA			30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,962.67	783.34
	EA			30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,890.88	939.73
	EA			30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,746.80	1,093.87
	EA			34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,434.28	472.12
	EA			34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,964.13	710.09
	EA			34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,740.22	880.56
	EA			34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,681.27	1,060.90
	EA			34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,546.18	1,240.25
23 82 16 11-0030				6 Row Chilled Water Cooling Coils <small>(23 82 16 11-0001)</small>		
	EA			12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,015.78	185.98
	EA			12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,566.59	276.14
	EA			24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,876.02	470.57
	EA			24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,637.40	704.44
	EA			30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,711.95	880.56
	EA			30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,918.02	1,083.44
	EA			30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,542.35	1,280.68
	EA			30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,057.71	1,492.44
	EA			34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,816.29	645.13
	EA			34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,758.48	967.63
	EA			34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,889.87	1,211.65
	EA			34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	10,984.06	1,455.54
	EA			34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,082.99	1,693.35
23 82 16 11-0044				8 Row Chilled Water Cooling Coils <small>(23 82 16 11-0001)</small>		
	EA			12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,768.91	224.01
	EA			12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,624.03	343.77
	EA			24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,914.96	612.87
	EA			24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,198.43	939.73
	EA			30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,052.08	1,175.02
	EA			30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,844.22	1,408.90
	EA			30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	14,756.61	1,565.29
	EA			30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,713.02	1,815.65
	EA			34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,789.32	786.16
	EA			34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	10,040.01	1,181.93
	EA			34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,352.48	1,472.29

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0056 EA 34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,604.50	1,761.12
23 82 16 11-0057 EA 34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	13,927.14	2,071.92
23 82 16 11-0058 Hot Water Heating Coils <small>(23 82 16 11)</small> Note: Flanged construction.		
23 82 16 11-0059 1 Row Hot Water Heating Coils <small>(23 82 16 11-0058)</small>		
23 82 16 11-0060 EA 12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction.....	1,400.52	190.20
For 10 Fins Per Inch, Add	20.39	
For 12 Fins Per Inch, Add	50.99	
For 230 PSIG Heavy Duty, Add	318.18	
23 82 16 11-0061 EA 12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,061.77	243.74
For 10 Fins Per Inch, Add	31.52	
For 12 Fins Per Inch, Add	78.80	
For 230 PSIG Heavy Duty, Add	460.94	
23 82 16 11-0062 EA 24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,524.95	335.32
For 10 Fins Per Inch, Add	37.08	
For 12 Fins Per Inch, Add	92.70	
For 230 PSIG Heavy Duty, Add	572.08	
23 82 16 11-0063 EA 24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,025.07	470.57
For 10 Fins Per Inch, Add	41.72	
For 12 Fins Per Inch, Add	104.29	
For 230 PSIG Heavy Duty, Add	698.94	
23 82 16 11-0064 EA 30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,444.69	563.56
For 10 Fins Per Inch, Add	46.35	
For 12 Fins Per Inch, Add	115.88	
For 230 PSIG Heavy Duty, Add	801.65	
23 82 16 11-0065 EA 30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,050.93	704.44
For 10 Fins Per Inch, Add	52.84	
For 12 Fins Per Inch, Add	132.10	
For 230 PSIG Heavy Duty, Add	951.08	
23 82 16 11-0066 EA 30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,531.92	781.94
For 10 Fins Per Inch, Add	59.33	
For 12 Fins Per Inch, Add	148.32	
For 230 PSIG Heavy Duty, Add	1,062.93	
23 82 16 11-0067 EA 30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	5,585.15	909.16
For 10 Fins Per Inch, Add	75.20	
For 12 Fins Per Inch, Add	188.01	
For 230 PSIG Heavy Duty, Add	1,299.53	
23 82 16 11-0068 EA 34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,411.42	393.93
For 10 Fins Per Inch, Add	32.47	
For 12 Fins Per Inch, Add	81.17	
For 230 PSIG Heavy Duty, Add	561.08	
23 82 16 11-0069 EA 34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,617.11	591.03
For 10 Fins Per Inch, Add	48.70	
For 12 Fins Per Inch, Add	121.76	
For 230 PSIG Heavy Duty, Add	841.62	
23 82 16 11-0070 EA 34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	5,440.69	893.94
For 10 Fins Per Inch, Add	73.06	
For 12 Fins Per Inch, Add	182.64	
For 230 PSIG Heavy Duty, Add	1,266.93	
23 82 16 11-0071 EA 34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	6,333.41	1,035.96
For 10 Fins Per Inch, Add	85.23	
For 12 Fins Per Inch, Add	213.08	
For 230 PSIG Heavy Duty, Add	1,473.87	
23 82 16 11-0072 SF >15 SF Hot Water Heating Coil, 1 Row, Flanged Construction.....	290.88	52.13
For 10 Fins Per Inch, Add	3.73	
For 12 Fins Per Inch, Add	9.33	
For 230 PSIG Heavy Duty, Add	68.60	
23 82 16 11-0073 2 Row Hot Water Heating Coils <small>(23 82 16 11-0058)</small>		
23 82 16 11-0074 EA 12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,230.99	235.28
For 10 Fins Per Inch, Add	35.23	
For 12 Fins Per Inch, Add	88.07	
For 230 PSIG Heavy Duty, Add	493.16	
23 82 16 11-0075 EA 12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,433.88	312.77
For 10 Fins Per Inch, Add	36.15	
For 12 Fins Per Inch, Add	90.39	
For 230 PSIG Heavy Duty, Add	549.39	
23 82 16 11-0076 EA 24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,303.18	470.57
For 10 Fins Per Inch, Add	47.28	
For 12 Fins Per Inch, Add	118.20	
For 230 PSIG Heavy Duty, Add	754.56	
23 82 16 11-0077 EA 24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,030.19	670.63
For 10 Fins Per Inch, Add	53.77	
For 12 Fins Per Inch, Add	134.42	
For 230 PSIG Heavy Duty, Add	940.22	
23 82 16 11-0078 EA 30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,670.37	828.43
For 10 Fins Per Inch, Add	60.26	
For 12 Fins Per Inch, Add	150.64	
For 230 PSIG Heavy Duty, Add	1,099.83	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Decentralized Unitary HVAC Equipment	23 80
Convection Heating and Cooling Units	23 82

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0079 EA 30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,025.55	1,005.95
<i>For 10 Fins Per Inch, Add</i>	60.26	
<i>For 12 Fins Per Inch, Add</i>	150.64	
<i>For 230 PSIG Heavy Duty, Add</i>	1,206.38	
23 82 16 11-0080 EA 30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,685.46	1,175.02
<i>For 10 Fins Per Inch, Add</i>	66.75	
<i>For 12 Fins Per Inch, Add</i>	166.87	
<i>For 230 PSIG Heavy Duty, Add</i>	1,371.91	
23 82 16 11-0081 EA 30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	6,960.62	1,365.22
<i>For 10 Fins Per Inch, Add</i>	84.60	
<i>For 12 Fins Per Inch, Add</i>	211.51	
<i>For 230 PSIG Heavy Duty, Add</i>	1,665.17	
23 82 16 11-0082 EA 34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,004.35	589.06
<i>For 10 Fins Per Inch, Add</i>	36.53	
<i>For 12 Fins Per Inch, Add</i>	91.32	
<i>For 230 PSIG Heavy Duty, Add</i>	718.67	
23 82 16 11-0083 EA 34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,509.50	884.93
<i>For 10 Fins Per Inch, Add</i>	54.79	
<i>For 12 Fins Per Inch, Add</i>	136.98	
<i>For 230 PSIG Heavy Duty, Add</i>	1,078.90	
23 82 16 11-0084 EA 34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	6,777.67	1,334.22
<i>For 10 Fins Per Inch, Add</i>	82.19	
<i>For 12 Fins Per Inch, Add</i>	205.47	
<i>For 230 PSIG Heavy Duty, Add</i>	1,622.37	
23 82 16 11-0085 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	7,911.25	1,558.52
<i>For 10 Fins Per Inch, Add</i>	95.88	
<i>For 12 Fins Per Inch, Add</i>	239.71	
<i>For 230 PSIG Heavy Duty, Add</i>	1,893.95	
23 82 16 11-0086 Hot Water Preheat Coils For Multi-Zone Air Handling Units (23 82 16 11)		
Note: 2 Row coils. Coils are sized by air handling unit capacity.		
23 82 16 11-0087 EA 3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,807.48	178.93
23 82 16 11-0088 EA 4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,289.53	177.52
23 82 16 11-0089 EA 5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,795.69	190.20
23 82 16 11-0090 EA 6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,241.81	207.10
23 82 16 11-0091 EA 7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,260.94	216.97
23 82 16 11-0092 EA 9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,930.84	228.24
23 82 16 11-0093 EA 11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,081.38	256.42
23 82 16 11-0094 EA 13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,514.92	287.41
23 82 16 11-0095 EA 16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,090.65	343.77
23 82 16 11-0096 EA 19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,543.05	360.68
23 82 16 11-0097 EA 22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	7,065.34	381.81
23 82 16 11-0098 EA 27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	9,016.05	522.70
23 82 16 11-0099 EA 34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	11,320.52	641.05
23 82 16 11-0100 EA 40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	13,152.35	670.63
23 82 16 11-0101 EA 47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	15,447.66	781.94
23 82 16 12 Steam Air Coils (23 82 16)		
23 82 16 12-0001 Steam Heating Coils (23 82 16 12)		
Note: Flanged construction.		
23 82 16 12-0002 EA 12" x 12" Steam Heating Coils, 1 Row Flanged Construction.....	2,101.19	132.44
<i>For 2 Row Coil, Add</i>	683.03	
<i>For 4 Row Coil, Add</i>	1,794.19	
23 82 16 12-0003 EA 12" x 24" Steam Heating Coils, 1 Row Flanged Construction.....	2,335.06	183.16
<i>For 2 Row Coil, Add</i>	773.71	
<i>For 4 Row Coil, Add</i>	2,025.41	
23 82 16 12-0004 EA 24" x 30" Steam Heating Coils, 1 Row Flanged Construction.....	3,083.87	328.27
<i>For 2 Row Coil, Add</i>	1,056.22	
<i>For 4 Row Coil, Add</i>	2,748.88	
23 82 16 12-0005 EA 24" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	3,892.92	470.57
<i>For 2 Row Coil, Add</i>	1,355.73	
<i>For 4 Row Coil, Add</i>	3,518.22	
23 82 16 12-0006 EA 30" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	4,343.33	563.56
<i>For 2 Row Coil, Add</i>	1,528.42	
<i>For 4 Row Coil, Add</i>	3,959.33	
23 82 16 12-0007 EA 30" x 60" Steam Heating Coils, 1 Row Flanged Construction.....	4,887.66	704.44
<i>For 2 Row Coil, Add</i>	1,748.08	
<i>For 4 Row Coil, Add</i>	4,515.96	
23 82 16 12-0008 EA 30" x 72" Steam Heating Coils, 1 Row Flanged Construction.....	5,372.39	781.94
<i>For 2 Row Coil, Add</i>	1,924.81	
<i>For 4 Row Coil, Add</i>	4,971.05	
23 82 16 12-0009 EA 30" x 84" Steam Heating Coils, 1 Row Flanged Construction.....	6,650.44	912.54
<i>For 2 Row Coil, Add</i>	2,360.13	
<i>For 4 Row Coil, Add</i>	6,105.10	
23 82 16 12-0010 EA 34" x 32" Steam Heating Coils, 1 Row Flanged Construction.....	2,871.36	393.93
<i>For 2 Row Coil, Add</i>	1,019.00	
<i>For 4 Row Coil, Add</i>	2,635.92	
23 82 16 12-0011 EA 34" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	4,307.04	591.03
<i>For 2 Row Coil, Add</i>	1,528.50	
<i>For 4 Row Coil, Add</i>	3,953.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 12-0012	EA		34" x 72" Steam Heating Coils, 1 Row Flanged Construction.....	6,457.56	884.93
			<i>For 2 Row Coil, Add</i>	2,291.26	
			<i>For 4 Row Coil, Add</i>	5,927.14	
23 82 16 12-0013	EA		34" x 84" Steam Heating Coils, 1 Row Flanged Construction.....	7,540.77	1,035.96
			<i>For 2 Row Coil, Add</i>	2,676.61	
			<i>For 4 Row Coil, Add</i>	6,923.53	
23 82 16 13 Refrigerant Air Coils (23 82 16)					
23 82 16 13-0001	Direct Expansion Cooling Coils (23 82 16 13)				
	Note: Flanged construction 16 gauge galvanized steel casing.				
23 82 16 13-0002	2 Row Direct Expansion Cooling Coils (23 82 16 13-0001)				
23 82 16 13-0003	EA		12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,651.69	105.67
			<i>For 10 Fins Per Inch, Add</i>	28.80	
			<i>For 12 Fins Per Inch, Add</i>	71.99	
23 82 16 13-0004	EA		12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,170.15	145.11
			<i>For 10 Fins Per Inch, Add</i>	57.59	
			<i>For 12 Fins Per Inch, Add</i>	143.98	
23 82 16 13-0005	EA		24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,374.83	228.24
			<i>For 10 Fins Per Inch, Add</i>	78.41	
			<i>For 12 Fins Per Inch, Add</i>	196.02	
23 82 16 13-0006	EA		24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,288.42	328.27
			<i>For 10 Fins Per Inch, Add</i>	92.66	
			<i>For 12 Fins Per Inch, Add</i>	231.66	
23 82 16 13-0007	EA		30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,150.99	401.54
			<i>For 10 Fins Per Inch, Add</i>	106.92	
			<i>For 12 Fins Per Inch, Add</i>	267.30	
23 82 16 13-0008	EA		30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,887.79	486.07
			<i>For 10 Fins Per Inch, Add</i>	118.32	
			<i>For 12 Fins Per Inch, Add</i>	295.81	
23 82 16 13-0009	EA		30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,898.61	563.56
			<i>For 10 Fins Per Inch, Add</i>	135.43	
			<i>For 12 Fins Per Inch, Add</i>	338.57	
23 82 16 13-0010	EA		30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,897.45	657.11
			<i>For 10 Fins Per Inch, Add</i>	171.66	
			<i>For 12 Fins Per Inch, Add</i>	429.16	
23 82 16 13-0011	EA		34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,799.47	249.80
			<i>For 10 Fins Per Inch, Add</i>	66.00	
			<i>For 12 Fins Per Inch, Add</i>	164.99	
23 82 16 13-0012	EA		34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,925.18	425.34
			<i>For 10 Fins Per Inch, Add</i>	81.49	
			<i>For 12 Fins Per Inch, Add</i>	203.72	
23 82 16 13-0013	EA		34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,096.98	638.09
			<i>For 10 Fins Per Inch, Add</i>	96.42	
			<i>For 12 Fins Per Inch, Add</i>	241.04	
23 82 16 13-0014	EA		34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,678.93	743.05
			<i>For 10 Fins Per Inch, Add</i>	103.86	
			<i>For 12 Fins Per Inch, Add</i>	259.64	
23 82 16 13-0015	4 Row Direct Expansion Cooling Coils (23 82 16 13-0001)				
23 82 16 13-0016	EA		12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,738.38	146.52
			<i>For 10 Fins Per Inch, Add</i>	48.90	
			<i>For 12 Fins Per Inch, Add</i>	122.24	
23 82 16 13-0017	EA		12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,913.22	211.34
			<i>For 10 Fins Per Inch, Add</i>	69.85	
			<i>For 12 Fins Per Inch, Add</i>	174.63	
23 82 16 13-0018	EA		24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,337.56	352.23
			<i>For 10 Fins Per Inch, Add</i>	92.66	
			<i>For 12 Fins Per Inch, Add</i>	231.66	
23 82 16 13-0019	EA		24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,532.09	522.70
			<i>For 10 Fins Per Inch, Add</i>	109.77	
			<i>For 12 Fins Per Inch, Add</i>	274.42	
23 82 16 13-0020	EA		30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,553.36	641.05
			<i>For 10 Fins Per Inch, Add</i>	125.45	
			<i>For 12 Fins Per Inch, Add</i>	313.63	
23 82 16 13-0021	EA		30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,978.44	783.34
			<i>For 10 Fins Per Inch, Add</i>	148.26	
			<i>For 12 Fins Per Inch, Add</i>	370.65	
23 82 16 13-0022	EA		30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	10,004.32	939.73
			<i>For 10 Fins Per Inch, Add</i>	162.52	
			<i>For 12 Fins Per Inch, Add</i>	406.29	
23 82 16 13-0023	EA		30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,788.27	1,093.87
			<i>For 10 Fins Per Inch, Add</i>	152.01	
			<i>For 12 Fins Per Inch, Add</i>	380.03	
23 82 16 13-0024	EA		34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,147.22	472.12
			<i>For 10 Fins Per Inch, Add</i>	104.06	
			<i>For 12 Fins Per Inch, Add</i>	260.15	
23 82 16 13-0025	EA		34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,844.40	710.09
			<i>For 10 Fins Per Inch, Add</i>	128.48	
			<i>For 12 Fins Per Inch, Add</i>	321.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0026 EA 34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,859.29	1,248.99
<i>For 10 Fins Per Inch, Add</i>	187.23	
<i>For 12 Fins Per Inch, Add</i>	468.06	
23 82 16 13-0027 EA 34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	13,580.42	1,455.54
<i>For 10 Fins Per Inch, Add</i>	213.39	
<i>For 12 Fins Per Inch, Add</i>	533.47	
23 82 16 13-0028 6 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0029 EA 12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,507.04	184.57
<i>For 10 Fins Per Inch, Add</i>	62.73	
<i>For 12 Fins Per Inch, Add</i>	156.81	
23 82 16 13-0030 EA 12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,045.17	276.14
<i>For 10 Fins Per Inch, Add</i>	69.85	
<i>For 12 Fins Per Inch, Add</i>	174.63	
23 82 16 13-0031 EA 24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,857.50	470.57
<i>For 10 Fins Per Inch, Add</i>	98.36	
<i>For 12 Fins Per Inch, Add</i>	245.91	
23 82 16 13-0032 EA 24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,467.60	704.44
<i>For 10 Fins Per Inch, Add</i>	121.17	
<i>For 12 Fins Per Inch, Add</i>	302.94	
23 82 16 13-0033 EA 30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,815.63	880.56
<i>For 10 Fins Per Inch, Add</i>	161.09	
<i>For 12 Fins Per Inch, Add</i>	402.73	
23 82 16 13-0034 EA 30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,148.66	1,083.44
<i>For 10 Fins Per Inch, Add</i>	179.62	
<i>For 12 Fins Per Inch, Add</i>	449.06	
23 82 16 13-0035 EA 30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,968.34	1,280.68
<i>For 10 Fins Per Inch, Add</i>	208.13	
<i>For 12 Fins Per Inch, Add</i>	520.34	
23 82 16 13-0036 EA 30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,339.52	1,492.44
<i>For 10 Fins Per Inch, Add</i>	187.09	
<i>For 12 Fins Per Inch, Add</i>	467.73	
23 82 16 13-0037 EA 34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,693.74	645.13
<i>For 10 Fins Per Inch, Add</i>	128.07	
<i>For 12 Fins Per Inch, Add</i>	320.18	
23 82 16 13-0038 EA 34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,841.88	967.63
<i>For 10 Fins Per Inch, Add</i>	158.13	
<i>For 12 Fins Per Inch, Add</i>	395.33	
23 82 16 13-0039 EA 34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,242.08	1,443.55
<i>For 10 Fins Per Inch, Add</i>	187.10	
<i>For 12 Fins Per Inch, Add</i>	467.75	
23 82 16 13-0040 EA 34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	13,463.80	1,693.35
<i>For 10 Fins Per Inch, Add</i>	201.54	
<i>For 12 Fins Per Inch, Add</i>	503.85	
23 82 16 13-0041 8 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0042 EA 12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,367.61	222.61
<i>For 10 Fins Per Inch, Add</i>	78.41	
<i>For 12 Fins Per Inch, Add</i>	196.02	
23 82 16 13-0043 EA 12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,249.11	343.77
<i>For 10 Fins Per Inch, Add</i>	91.24	
<i>For 12 Fins Per Inch, Add</i>	228.09	
23 82 16 13-0044 EA 24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,818.41	612.87
<i>For 10 Fins Per Inch, Add</i>	131.87	
<i>For 12 Fins Per Inch, Add</i>	329.66	
23 82 16 13-0045 EA 24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	10,360.71	939.73
<i>For 10 Fins Per Inch, Add</i>	169.64	
<i>For 12 Fins Per Inch, Add</i>	424.11	
23 82 16 13-0046 EA 30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,434.11	1,175.02
<i>For 10 Fins Per Inch, Add</i>	201.72	
<i>For 12 Fins Per Inch, Add</i>	504.30	
23 82 16 13-0047 EA 30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,436.25	1,408.90
<i>For 10 Fins Per Inch, Add</i>	232.37	
<i>For 12 Fins Per Inch, Add</i>	580.92	
23 82 16 13-0048 EA 30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	16,602.58	1,565.29
<i>For 10 Fins Per Inch, Add</i>	269.43	
<i>For 12 Fins Per Inch, Add</i>	673.59	
23 82 16 13-0049 EA 30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,155.06	1,815.65
<i>For 10 Fins Per Inch, Add</i>	210.48	
<i>For 12 Fins Per Inch, Add</i>	526.19	
23 82 16 13-0050 EA 34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,776.46	786.16
<i>For 10 Fins Per Inch, Add</i>	144.08	
<i>For 12 Fins Per Inch, Add</i>	360.20	
23 82 16 13-0051 EA 34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,258.84	1,181.93
<i>For 10 Fins Per Inch, Add</i>	177.90	
<i>For 12 Fins Per Inch, Add</i>	444.75	
23 82 16 13-0052 EA 34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,082.18	1,778.87
<i>For 10 Fins Per Inch, Add</i>	210.49	
<i>For 12 Fins Per Inch, Add</i>	526.22	
23 82 16 13-0053 EA 34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	15,480.56	2,071.92
<i>For 10 Fins Per Inch, Add</i>	226.74	
<i>For 12 Fins Per Inch, Add</i>	566.84	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 82 16 14 Electric-Resistance Air Coils (23 82 16)

23 82 16 14-0001	Standard Electric Slip-In Blast Coil Heater (23 82 16 14)		
23 82 16 14-0002	Electric Slip-In Blast Coil Heater With Open Coil Element (23 82 16 14-0001)		
23 82 16 14-0003	EA 1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	487.12	99.38
23 82 16 14-0004	EA 1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	503.66	107.12
23 82 16 14-0005	EA 2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	523.21	117.44
23 82 16 14-0006	EA 3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	529.79	121.32
23 82 16 14-0007	EA 4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	546.68	129.06
23 82 16 14-0008	EA 5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	566.11	139.39
23 82 16 14-0009	EA 6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	649.60	156.16
23 82 16 14-0010	EA 7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	665.34	163.90
23 82 16 14-0011	EA 8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	678.25	169.07
23 82 16 14-0012	EA 9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	697.11	179.40
23 82 16 14-0013	EA 10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	759.41	189.72
23 82 16 14-0014	EA 12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	796.15	207.78
23 82 16 14-0015	EA 15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	832.67	225.86
23 82 16 14-0016	EA 20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	869.79	243.92
23 82 16 14-0017	EA 30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	1,152.24	340.72
23 82 16 14-0018	EA 40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	1,959.58	362.66
23 82 16 14-0019	EA 50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,160.67	415.57
23 82 16 14-0020	EA 60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,540.83	460.74
23 82 16 14-0021	EA 70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,673.07	500.75
23 82 16 14-0022	EA 80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,929.09	549.79
23 82 16 14-0023	EA 90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	3,563.62	587.22
23 82 16 14-0024	EA 100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	3,909.27	631.10
23 82 16 14-0025	EA 125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	4,713.04	681.43
23 82 16 14-0026	EA 150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	5,297.48	740.80

23 82 16 14-0027 Electric Slip-In Blast Coil Heater With Finned Tubular Element (23 82 16 14-0001)

23 82 16 14-0028	EA 1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	834.93	141.96
23 82 16 14-0029	EA 2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	863.64	154.87
23 82 16 14-0030	EA 3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	872.94	154.87
23 82 16 14-0031	EA 4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	944.73	170.36
23 82 16 14-0032	EA 5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	983.78	170.36
23 82 16 14-0033	EA 6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,004.57	170.36
23 82 16 14-0034	EA 8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,058.92	189.72
23 82 16 14-0035	EA 9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,110.70	212.95
23 82 16 14-0036	EA 10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,131.48	212.95
23 82 16 14-0037	EA 15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,275.36	243.92
23 82 16 14-0038	EA 20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,607.52	243.92
23 82 16 14-0039	EA 25 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,709.46	264.57
23 82 16 14-0040	EA 30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	2,001.71	283.93
23 82 16 14-0041	EA 40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	2,359.16	283.93
23 82 16 14-0042	EA 45 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	2,570.43	296.84
23 82 16 14-0043	EA 50 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	2,694.36	296.84

23 82 19 Fan Coil Units (23 82)

23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units (23 82 19)

Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds. Excludes supports.

23 82 19 00-0002 Horizontal Fan Coil Units With Electric Heating Coil (23 82 19 00-0001)

23 82 19 00-0003	EA 200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,104.79	228.24
	For 2-Way Valve Instead Of 3-Way, Deduct	-57.72	
23 82 19 00-0004	EA 300 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,321.87	266.29
	For 2-Way Valve Instead Of 3-Way, Deduct	-61.58	
23 82 19 00-0005	EA 400 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,572.71	300.10
	For 2-Way Valve Instead Of 3-Way, Deduct	-64.98	
23 82 19 00-0006	EA 600 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,983.34	343.77
	For 2-Way Valve Instead Of 3-Way, Deduct	-69.36	
23 82 19 00-0007	EA 800 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	3,341.46	360.68
	For 2-Way Valve Instead Of 3-Way, Deduct	-119.19	
23 82 19 00-0008	EA 1,000 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	4,528.54	381.81
	For 2-Way Valve Instead Of 3-Way, Deduct	-122.12	
23 82 19 00-0009	EA 1,200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	5,492.65	414.22
	For 2-Way Valve Instead Of 3-Way, Deduct	-127.16	

23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0001)

23 82 19 00-0011	EA 200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,180.98	228.24
	For 2-Way Valve Instead Of 3-Way, Deduct	-57.72	
23 82 19 00-0012	EA 300 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,435.74	266.29
	For 2-Way Valve Instead Of 3-Way, Deduct	-61.58	
23 82 19 00-0013	EA 400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,700.92	300.10
	For 2-Way Valve Instead Of 3-Way, Deduct	-64.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 19 00-0014 EA 600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,198.59	343.77
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	
23 82 19 00-0015 EA 800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,592.59	362.09
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0016 EA 1,000 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,887.31	381.81
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0017 EA 1,200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	6,174.29	414.22
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0018 Floor Mounted Vertical Fan Coil Units <small>(23 82 19)</small>		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.		
23 82 19 00-0019 Vertical Fan Coil Units With Electric Heating Coil <small>(23 82 19 00-0018)</small>		
23 82 19 00-0020 EA 200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,033.04	226.83
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-259.51	
<i>For Thru-Wall Sleeve, Add</i>	145.90	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.72	
23 82 19 00-0021 EA 300 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,325.46	266.29
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-295.65	
<i>For Thru-Wall Sleeve, Add</i>	161.33	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-61.58	
23 82 19 00-0022 EA 400 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,752.09	300.10
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-352.86	
<i>For Thru-Wall Sleeve, Add</i>	174.91	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.98	
23 82 19 00-0023 EA 600 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,162.72	343.77
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-405.68	
<i>For Thru-Wall Sleeve, Add</i>	192.45	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	
23 82 19 00-0024 EA 800 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,556.72	362.09
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-461.26	
<i>For Thru-Wall Sleeve, Add</i>	199.50	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0025 EA 1,000 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,528.54	381.81
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-603.13	
<i>For Thru-Wall Sleeve, Add</i>	207.31	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0026 EA 1,200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,313.27	414.22
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-714.11	
<i>For Thru-Wall Sleeve, Add</i>	220.75	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0027 Vertical Fan Coil Units With Hot Water Heating Coil <small>(23 82 19 00-0018)</small>		
23 82 19 00-0028 EA 200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,248.29	226.83
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-291.79	
<i>For Thru-Wall Sleeve, Add</i>	145.90	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.72	
23 82 19 00-0029 EA 300 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,540.72	266.29
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-327.94	
<i>For Thru-Wall Sleeve, Add</i>	161.33	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-61.58	
23 82 19 00-0030 EA 400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,110.85	300.10
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-406.67	
<i>For Thru-Wall Sleeve, Add</i>	174.91	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.98	
23 82 19 00-0031 EA 600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,557.35	343.77
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-464.88	
<i>For Thru-Wall Sleeve, Add</i>	192.45	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	
23 82 19 00-0032 EA 800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,951.35	362.09
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-520.45	
<i>For Thru-Wall Sleeve, Add</i>	199.50	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0033 EA 1,000 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,707.92	381.81
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-630.03	
<i>For Thru-Wall Sleeve, Add</i>	207.31	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0034 EA 1,200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,492.65	414.22
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-741.02	
<i>For Thru-Wall Sleeve, Add</i>	220.75	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0035 Removal And Reinstallation Of Fan Coil Units <small>(23 82 19)</small>		
Note: Includes storage and cleaning. Excludes supports.		
23 82 19 00-0036 EA Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical.....		599.02
23 82 29 Radiators <small>(23 82)</small>		
23 82 29 00-0001 Demolish Cast Iron Radiators <small>(23 82 29)</small>		
23 82 29 00-0002 LF Demolish Cast Iron Radiator.....		42.25

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 29 00-0003	EA		Cap Radiator.....	57.08	
23 82 29 00-0004			Cast Iron Radiator <small>(23 82 29)</small>		
23 82 29 00-0005	EA		19" High Cast Iron Radiator Section, Free Standing.....	62.71	
			<i>For Wall Support Bracket, Add</i>	31.53	
23 82 29 00-0006	EA		25" High Cast Iron Radiator Section, Free Standing.....	88.63	
			<i>For Wall Support Bracket, Add</i>	33.36	
23 82 29 00-0007	EA		30" High Cast Iron Radiator Section, Free Standing.....	103.02	
23 82 29 00-0008	EA		36" High Cast Iron Radiator Section, Free Standing.....	129.56	
23 82 29 00-0009	EA		20" High Cast Iron Radiator Section, Recessed With Grille.....	87.14	
23 82 29 00-0010			Radiator Covers <small>(23 82 29)</small>		
			Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides.		
23 82 29 00-0011	SF		14 Gauge Stainless Steel Radiator Cover	110.58	7.01
23 82 29 00-0012	SF		Primed And Painted, Galvanized Steel Radiator Cover.....	70.35	7.01
23 82 29 00-0013			Radiator Shields <small>(23 82 29)</small>		
23 82 29 00-0014	SF		Stainless Steel Radiator Shield.....	57.60	7.01
23 82 29 00-0015	SF		Primed And Painted, Galvanized Steel Radiator Shield.....	47.20	7.01
23 82 29 00-0016			Removal And Reinstallation Of Radiator <small>(23 82 29)</small>		
			Note: Includes storage and cleaning.		
23 82 29 00-0017	LF		Removal And Reinstallation Of Cast Iron Radiator	105.67	
23 82 29 00-0018	LF		Removal And Reinstallation Of Electric Radiator	70.45	
23 82 33			Convectors <small>(23 82)</small>		
23 82 33 00-0001			Multi-Fin Convectors For Two-Pipe System <small>(23 82 33)</small>		
			Note: Complete with 6-1/4" deep cabinet enclosure.		
23 82 33 00-0002			20" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small>		
23 82 33 00-0003	EA		20" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	522.60	154.98
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	76.45	
			<i>For Snap-On Inlet Grille, Add</i>	56.96	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	100.72	
23 82 33 00-0004	EA		20" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	607.89	169.07
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	82.85	
			<i>For Snap-On Inlet Grille, Add</i>	61.23	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	123.11	
23 82 33 00-0005	EA		20" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	702.55	200.06
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	96.86	
			<i>For Snap-On Inlet Grille, Add</i>	70.57	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	139.89	
23 82 33 00-0006	EA		20" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	837.24	232.46
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	111.66	
			<i>For Snap-On Inlet Grille, Add</i>	80.44	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	169.77	
23 82 33 00-0007	EA		20" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	999.41	278.96
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	132.78	
			<i>For Snap-On Inlet Grille, Add</i>	94.52	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	201.89	
23 82 33 00-0008	EA		20" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,120.27	306.86
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	145.44	
			<i>For Snap-On Inlet Grille, Add</i>	102.96	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	229.41	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Decentralized Unitary HVAC Equipment	23 80
Convection Heating and Cooling Units	23 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0009 EA 20" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,310.61	371.94
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	175.01	
<i>For Snap-On Inlet Grille, Add</i>	122.67	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	261.53	
23 82 33 00-0010 EA 20" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,424.50	395.19
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	185.58	
<i>For Snap-On Inlet Grille, Add</i>	129.72	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	289.06	
23 82 33 00-0011 EA 20" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,560.43	441.69
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	206.70	
<i>For Snap-On Inlet Grille, Add</i>	143.80	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	312.00	
23 82 33 00-0012 EA 20" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,722.71	488.19
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	227.85	
<i>For Snap-On Inlet Grille, Add</i>	157.90	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	344.12	
23 82 33 00-0013 EA 20" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,858.65	534.67
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	248.97	
<i>For Snap-On Inlet Grille, Add</i>	171.98	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	367.06	
23 82 33 00-0014 26" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small>		
23 82 33 00-0015 EA 26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	625.51	203.86
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	97.73	
<i>For Snap-On Inlet Grille, Add</i>	71.15	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	111.92	
23 82 33 00-0016 EA 26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	732.96	236.84
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	112.52	
<i>For Snap-On Inlet Grille, Add</i>	81.01	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	132.27	
23 82 33 00-0017 EA 26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	881.93	278.12
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	131.05	
<i>For Snap-On Inlet Grille, Add</i>	93.37	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	162.79	
23 82 33 00-0018 EA 26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,024.70	310.10
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	145.40	
<i>For Snap-On Inlet Grille, Add</i>	102.94	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	196.01	
23 82 33 00-0019 EA 26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,188.56	348.71
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	162.78	
<i>For Snap-On Inlet Grille, Add</i>	114.52	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	233.09	
23 82 33 00-0020 EA 26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,323.06	377.73
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	175.88	
<i>For Snap-On Inlet Grille, Add</i>	123.26	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	264.87	
23 82 33 00-0021 EA 26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,509.02	430.42
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	199.89	
<i>For Snap-On Inlet Grille, Add</i>	139.26	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	301.96	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0022	EA		26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,638.80	456.77
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	211.58	
			<i>For Snap-On Inlet Grille, Add</i>	147.05	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	333.74	
23 82 33 00-0023	EA		26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,775.46	498.04
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	229.87	
			<i>For Snap-On Inlet Grille, Add</i>	159.25	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	360.23	
23 82 33 00-0024	EA		26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,943.02	538.48
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	248.36	
			<i>For Snap-On Inlet Grille, Add</i>	171.57	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	397.31	
23 82 33 00-0025	EA		26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,074.15	575.54
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	264.99	
			<i>For Snap-On Inlet Grille, Add</i>	182.66	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	423.80	
23 82 33 00-0026			32" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)		
23 82 33 00-0027	EA		32" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	727.24	247.97
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	118.65	
			<i>For Snap-On Inlet Grille, Add</i>	85.10	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	123.11	
23 82 33 00-0028	EA		32" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	870.17	300.10
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	142.35	
			<i>For Snap-On Inlet Grille, Add</i>	100.90	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	145.49	
23 82 33 00-0029	EA		32" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,042.87	350.82
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	165.38	
			<i>For Snap-On Inlet Grille, Add</i>	116.25	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	179.06	
23 82 33 00-0030	EA		32" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,193.62	381.25
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	179.28	
			<i>For Snap-On Inlet Grille, Add</i>	125.52	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	215.60	
23 82 33 00-0031	EA		32" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,356.18	411.96
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	193.09	
			<i>For Snap-On Inlet Grille, Add</i>	134.72	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	256.40	
23 82 33 00-0032	EA		32" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,501.44	441.69
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	206.70	
			<i>For Snap-On Inlet Grille, Add</i>	143.80	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	291.36	
23 82 33 00-0033	EA		32" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,674.63	478.88
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	223.69	
			<i>For Snap-On Inlet Grille, Add</i>	155.13	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	332.15	
23 82 33 00-0034	EA		32" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,821.31	509.59
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	237.73	
			<i>For Snap-On Inlet Grille, Add</i>	164.48	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	367.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0035 EA 32" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,955.28	543.98
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	252.95	
<i>For Snap-On Inlet Grille, Add</i>	174.63	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	396.25	
23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,122.46	576.52
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	268.14	
<i>For Snap-On Inlet Grille, Add</i>	184.76	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	437.03	
23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,247.26	604.42
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	280.60	
<i>For Snap-On Inlet Grille, Add</i>	193.07	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	466.17	
23 82 33 00-0038 Electric Convectors, Floor Standing Units (23 82 33)		
23 82 33 00-0039 4" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units	565.49	138.57
23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units	619.24	138.57
23 82 33 00-0042 6" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0043 EA 38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units	644.04	138.57
23 82 33 00-0044 EA 50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units	726.72	138.57
23 82 33 00-0045 EA 62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units	799.07	138.57
23 82 33 00-0046 EA 74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units	912.76	138.57
23 82 36 Finned-Tube Radiation Heaters (23 82)		
23 82 36 00-0001 Electric Baseboard Heating (23 82 36)		
Note: Includes 24 gauge steel enclosure and heating element		
23 82 36 00-0002 Electric Wall Heating 10" Enclosure (23 82 36 00-0001)		
23 82 36 00-0003 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element <250 Watts/FT	153.88	76.99
23 82 36 00-0004 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element >= 250 Watts/FT	156.36	76.99
23 82 36 00-0005 Electric Wall Heating 16" Enclosure (23 82 36 00-0001)		
23 82 36 00-0006 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element <350 Watts/FT	178.69	76.99
23 82 36 00-0007 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element >= 350 Watts/FT	184.89	76.99
23 82 36 00-0008 Finned Tube Baseboard Units (23 82 36)		
Note: Complete with steel enclosure. Single heating element.		
23 82 36 00-0009 3/4" IPS Steel Tube With Steel Fins (23 82 36 00-0008)		
23 82 36 00-0010 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	377.74	54.95
<i>For 90 Degree Corner, Add</i>	63.17	
<i>For Valve Enclosure, Add</i>	63.17	
<i>For Filler Piece, Add</i>	56.17	
<i>For End Cap, Add</i>	42.56	
<i>For Copper Tube With Aluminum Fins, Add</i>	6.16	
23 82 36 00-0011 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	488.07	83.12
<i>For 90 Degree Corner, Add</i>	74.04	
<i>For Valve Enclosure, Add</i>	74.04	
<i>For Filler Piece, Add</i>	67.04	
<i>For End Cap, Add</i>	49.63	
<i>For Copper Tube With Aluminum Fins, Add</i>	9.23	
23 82 36 00-0012 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	576.05	109.89
<i>For 90 Degree Corner, Add</i>	80.45	
<i>For Valve Enclosure, Add</i>	80.45	
<i>For Filler Piece, Add</i>	73.45	
<i>For End Cap, Add</i>	53.79	
<i>For Copper Tube With Aluminum Fins, Add</i>	12.31	
23 82 36 00-0013 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	717.88	153.86
<i>For 90 Degree Corner, Add</i>	97.91	
<i>For Valve Enclosure, Add</i>	97.91	
<i>For Filler Piece, Add</i>	90.91	
<i>For End Cap, Add</i>	65.14	
<i>For Copper Tube With Aluminum Fins, Add</i>	15.31	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0014	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	859.63	184.85
			<i>For 90 Degree Corner, Add</i>	115.66	
			<i>For Valve Enclosure, Add</i>	115.66	
			<i>For Filler Piece, Add</i>	108.66	
			<i>For End Cap, Add</i>	76.68	
			<i>For Copper Tube With Aluminum Fins, Add</i>	18.22	
23 82 36 00-0015	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	961.14	197.24
			<i>For 90 Degree Corner, Add</i>	122.71	
			<i>For Valve Enclosure, Add</i>	122.71	
			<i>For Filler Piece, Add</i>	115.71	
			<i>For End Cap, Add</i>	81.26	
			<i>For Copper Tube With Aluminum Fins, Add</i>	21.87	
23 82 36 00-0016	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,060.09	217.96
			<i>For 90 Degree Corner, Add</i>	134.55	
			<i>For Valve Enclosure, Add</i>	134.55	
			<i>For Filler Piece, Add</i>	127.55	
			<i>For End Cap, Add</i>	88.96	
			<i>For Copper Tube With Aluminum Fins, Add</i>	24.05	
23 82 36 00-0017	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,208.04	246.56
			<i>For 90 Degree Corner, Add</i>	150.89	
			<i>For Valve Enclosure, Add</i>	150.89	
			<i>For Filler Piece, Add</i>	143.89	
			<i>For End Cap, Add</i>	99.58	
			<i>For Copper Tube With Aluminum Fins, Add</i>	27.70	
23 82 36 00-0018	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,331.58	271.21
			<i>For 90 Degree Corner, Add</i>	164.99	
			<i>For Valve Enclosure, Add</i>	164.99	
			<i>For Filler Piece, Add</i>	157.99	
			<i>For End Cap, Add</i>	108.75	
			<i>For Copper Tube With Aluminum Fins, Add</i>	30.61	
23 82 36 00-0019			1" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small>		
23 82 36 00-0020	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	425.71	54.95
			<i>For 90 Degree Corner, Add</i>	63.17	
			<i>For Valve Enclosure, Add</i>	63.17	
			<i>For Filler Piece, Add</i>	56.17	
			<i>For End Cap, Add</i>	42.56	
			<i>For Copper Tube With Aluminum Fins, Add</i>	8.79	
23 82 36 00-0021	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	560.03	83.12
			<i>For 90 Degree Corner, Add</i>	74.04	
			<i>For Valve Enclosure, Add</i>	74.04	
			<i>For Filler Piece, Add</i>	67.04	
			<i>For End Cap, Add</i>	49.63	
			<i>For Copper Tube With Aluminum Fins, Add</i>	13.19	
23 82 36 00-0022	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	671.99	109.89
			<i>For 90 Degree Corner, Add</i>	80.45	
			<i>For Valve Enclosure, Add</i>	80.45	
			<i>For Filler Piece, Add</i>	73.45	
			<i>For End Cap, Add</i>	53.79	
			<i>For Copper Tube With Aluminum Fins, Add</i>	17.59	
23 82 36 00-0023	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	837.32	153.86
			<i>For 90 Degree Corner, Add</i>	97.95	
			<i>For Valve Enclosure, Add</i>	97.95	
			<i>For Filler Piece, Add</i>	90.95	
			<i>For End Cap, Add</i>	65.16	
			<i>For Copper Tube With Aluminum Fins, Add</i>	21.87	
23 82 36 00-0024	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,001.39	184.85
			<i>For 90 Degree Corner, Add</i>	115.61	
			<i>For Valve Enclosure, Add</i>	115.61	
			<i>For Filler Piece, Add</i>	108.61	
			<i>For End Cap, Add</i>	76.65	
			<i>For Copper Tube With Aluminum Fins, Add</i>	26.03	
23 82 36 00-0025	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,131.54	197.24
			<i>For 90 Degree Corner, Add</i>	122.71	
			<i>For Valve Enclosure, Add</i>	122.71	
			<i>For Filler Piece, Add</i>	115.71	
			<i>For End Cap, Add</i>	81.26	
			<i>For Copper Tube With Aluminum Fins, Add</i>	31.24	
23 82 36 00-0026	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,247.08	217.96
			<i>For 90 Degree Corner, Add</i>	134.46	
			<i>For Valve Enclosure, Add</i>	134.46	
			<i>For Filler Piece, Add</i>	127.46	
			<i>For End Cap, Add</i>	88.90	
			<i>For Copper Tube With Aluminum Fins, Add</i>	34.36	
23 82 36 00-0027	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,423.89	246.56
			<i>For 90 Degree Corner, Add</i>	150.89	
			<i>For Valve Enclosure, Add</i>	150.89	
			<i>For Filler Piece, Add</i>	143.89	
			<i>For End Cap, Add</i>	99.58	
			<i>For Copper Tube With Aluminum Fins, Add</i>	39.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0028 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,569.30	271.21
<i>For 90 Degree Corner, Add</i>	164.82	
<i>For Valve Enclosure, Add</i>	164.82	
<i>For Filler Piece, Add</i>	157.82	
<i>For End Cap, Add</i>	108.64	
<i>For Copper Tube With Aluminum Fins, Add</i>	43.73	
23 82 36 00-0029 1-1/4" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small>		
23 82 36 00-0030 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	473.67	54.95
<i>For 90 Degree Corner, Add</i>	63.17	
<i>For Valve Enclosure, Add</i>	63.17	
<i>For Filler Piece, Add</i>	56.17	
<i>For End Cap, Add</i>	42.56	
<i>For Copper Tube With Aluminum Fins, Add</i>	11.43	
23 82 36 00-0031 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	631.97	83.12
<i>For 90 Degree Corner, Add</i>	74.04	
<i>For Valve Enclosure, Add</i>	74.04	
<i>For Filler Piece, Add</i>	67.04	
<i>For End Cap, Add</i>	49.63	
<i>For Copper Tube With Aluminum Fins, Add</i>	17.15	
23 82 36 00-0032 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	767.91	109.89
<i>For 90 Degree Corner, Add</i>	80.45	
<i>For Valve Enclosure, Add</i>	80.45	
<i>For Filler Piece, Add</i>	73.45	
<i>For End Cap, Add</i>	53.79	
<i>For Copper Tube With Aluminum Fins, Add</i>	22.86	
23 82 36 00-0033 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	956.60	153.86
<i>For 90 Degree Corner, Add</i>	97.95	
<i>For Valve Enclosure, Add</i>	97.95	
<i>For Filler Piece, Add</i>	90.95	
<i>For End Cap, Add</i>	65.16	
<i>For Copper Tube With Aluminum Fins, Add</i>	28.43	
23 82 36 00-0034 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,143.39	184.85
<i>For 90 Degree Corner, Add</i>	115.61	
<i>For Valve Enclosure, Add</i>	115.61	
<i>For Filler Piece, Add</i>	108.61	
<i>For End Cap, Add</i>	76.65	
<i>For Copper Tube With Aluminum Fins, Add</i>	33.84	
23 82 36 00-0035 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,301.94	197.24
<i>For 90 Degree Corner, Add</i>	122.71	
<i>For Valve Enclosure, Add</i>	122.71	
<i>For Filler Piece, Add</i>	115.71	
<i>For End Cap, Add</i>	81.26	
<i>For Copper Tube With Aluminum Fins, Add</i>	40.61	
23 82 36 00-0036 EA 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,434.52	217.96
<i>For 90 Degree Corner, Add</i>	134.46	
<i>For Valve Enclosure, Add</i>	134.46	
<i>For Filler Piece, Add</i>	127.46	
<i>For End Cap, Add</i>	88.90	
<i>For Copper Tube With Aluminum Fins, Add</i>	44.67	
23 82 36 00-0037 EA 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,639.72	246.56
<i>For 90 Degree Corner, Add</i>	150.89	
<i>For Valve Enclosure, Add</i>	150.89	
<i>For Filler Piece, Add</i>	143.89	
<i>For End Cap, Add</i>	99.58	
<i>For Copper Tube With Aluminum Fins, Add</i>	51.44	
23 82 36 00-0038 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,807.85	271.21
<i>For 90 Degree Corner, Add</i>	164.82	
<i>For Valve Enclosure, Add</i>	164.82	
<i>For Filler Piece, Add</i>	157.82	
<i>For End Cap, Add</i>	108.64	
<i>For Copper Tube With Aluminum Fins, Add</i>	56.86	

23 82 39 Unit Heaters (23 82)

23 82 39 13 Cabinet Unit Heaters (23 82 39)

23 82 39 13-0001 Electric Cabinet Unit Heaters (23 82 39 13)

Note: Can be mounted on the ceiling, floor or wall. Includes built-in thermostat. 208, 240/208, 277, or 480 Volt.

23 82 39 13-0002 Electric Cabinet Unit Heaters, 35" Cabinet Length (23 82 39 13-0001)

23 82 39 13-0003 EA 2 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,609.35	174.97
<i>Note: Wall or floor mounted.</i>		
23 82 39 13-0004 EA 3 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,629.18	174.97
<i>Note: Wall or floor mounted.</i>		
23 82 39 13-0005 EA 4 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,649.01	174.97
<i>Note: Wall or floor mounted.</i>		
23 82 39 13-0006 EA 5 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,668.83	174.97
<i>Note: Wall or floor mounted.</i>		
23 82 39 13-0007 EA 6 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,688.66	174.97
<i>Note: Wall or floor mounted.</i>		
23 82 39 13-0008 EA 7 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,708.49	174.97
<i>Note: Wall or floor mounted.</i>		
23 82 39 13-0009 EA 8 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,729.11	174.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 13-0010 EA For Ceiling Installation of 35" Cabinet Unit Heater, Add.....	233.75	116.18
23 82 39 13-0011 Electric Cabinet Unit Heaters, 45" Cabinet Length <small>(23 82 39 13-0001)</small>		
23 82 39 13-0012 EA 4 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	2,786.40	209.95
23 82 39 13-0013 EA 6 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	2,826.06	209.95
23 82 39 13-0014 EA 8 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	2,865.71	209.95
23 82 39 13-0015 EA 10 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	2,905.37	209.95
23 82 39 13-0016 EA 12 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	2,945.01	209.95
23 82 39 13-0017 EA 14 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	2,984.68	209.95
23 82 39 13-0018 EA 16 KW, 500 CFM, 45" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,024.32	209.95
23 82 39 13-0019 EA For Ceiling Installation of 45" Cabinet Unit Heater, Add.....	279.95	139.97
23 82 39 13-0020 Electric Cabinet Unit Heaters, 58" Cabinet Length <small>(23 82 39 13-0001)</small>		
23 82 39 13-0021 EA 6 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,507.68	279.95
23 82 39 13-0022 EA 8 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,547.33	279.95
23 82 39 13-0023 EA 10 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,586.99	279.95
23 82 39 13-0024 EA 12 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,626.63	279.95
23 82 39 13-0025 EA 14 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,666.29	279.95
23 82 39 13-0026 EA 16 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,705.94	279.95
23 82 39 13-0027 EA For Ceiling Installation of 58" Cabinet Unit Heater, Add.....	349.93	174.97
23 82 39 13-0028 Electric Cabinet Unit Heaters, 68" Cabinet Length <small>(23 82 39 13-0001)</small>		
23 82 39 13-0029 EA 6 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,149.67	349.93
23 82 39 13-0030 EA 9 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,209.14	349.93
23 82 39 13-0031 EA 12 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,268.62	349.93
23 82 39 13-0032 EA 15 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,328.09	349.93
23 82 39 13-0033 EA 18 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,387.58	349.93
23 82 39 13-0034 EA 21 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,447.06	349.93
23 82 39 13-0035 EA 24 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,506.53	349.93
23 82 39 13-0036 EA For Ceiling Installation of 68" Cabinet Unit Heater, Add.....	467.51	233.75
23 82 39 13-0037 Electric Cabinet Unit Heaters, 78" Cabinet Length <small>(23 82 39 13-0001)</small>		
23 82 39 13-0038 EA 8 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,870.95	419.92
23 82 39 13-0039 EA 12 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,950.26	419.92
23 82 39 13-0040 EA 16 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,029.56	419.92
23 82 39 13-0041 EA 20 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,108.87	419.92
23 82 39 13-0042 EA 24 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,188.17	419.92
23 82 39 13-0043 EA 28 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,267.48	419.92
23 82 39 13-0044 EA 32 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,346.79	419.92
23 82 39 13-0045 EA For Ceiling Installation of 78" Cabinet Unit Heater, Add.....	559.88	279.95
23 82 39 13-0046 Removal and Reinstallation of Cabinet Unit Heaters <small>(23 82 39 13)</small>		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 13-0047 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Floor or Wall.....	387.45	
23 82 39 13-0048 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Floor or Wall.....	669.24	
23 82 39 13-0049 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Ceiling.....	798.85	
23 82 39 13-0050 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Ceiling.....	1,080.62	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 82 39 16 Propeller Unit Heaters (23 82 39)

23 82 39 16-0001	Hydronic Unit Heaters Using Steam Or Hot Water (23 82 39 16)	Note: For use with either steam or heating hot water. Heating output capacities for both are listed.		
23 82 39 16-0002	Horizontal Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)			
23 82 39 16-0003	EA 18 MBH Steam, 13 MBH Hot Water, 395 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	842.13	140.89	
23 82 39 16-0004	EA 24 MBH Steam, 17.4 MBH Hot Water, 450 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	843.66	140.89	
23 82 39 16-0005	EA 36 MBH Steam, 26.1 MBH Hot Water, 550 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	931.51	140.89	
23 82 39 16-0006	EA 48 MBH Steam, 34.8 MBH Hot Water, 750 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,163.85	211.34	
23 82 39 16-0007	EA 60 MBH Steam, 43.6 MBH Hot Water, 900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,208.80	211.34	
23 82 39 16-0008	EA 72 MBH Steam, 52.3 MBH Hot Water, 1,100 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,275.73	211.34	
23 82 39 16-0009	EA 84 MBH Steam, 61 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,548.38	281.78	
23 82 39 16-0010	EA 96 MBH Steam, 69.7 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,683.23	281.78	
23 82 39 16-0011	EA 108 MBH Steam, 78.4 MBH Hot Water, 2,800 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,769.04	281.78	
23 82 39 16-0012	EA 120 MBH Steam, 87.1 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,838.51	281.78	
23 82 39 16-0013	EA 132 MBH Steam, 95.8 MBH Hot Water, 2,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,095.85	352.23	
23 82 39 16-0014	EA 144 MBH Steam, 104 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,119.36	352.23	
23 82 39 16-0015	EA 156 MBH Steam, 113 MBH Hot Water, 2,600 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,141.83	352.23	
23 82 39 16-0016	EA 180 MBH Steam, 118 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,310.24	422.67	
23 82 39 16-0017	EA 204 MBH Steam, 148 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,485.95	422.67	
23 82 39 16-0018	EA 240 MBH Steam, 174 MBH Hot Water, 3,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,842.59	493.12	
23 82 39 16-0019	EA 280 MBH Steam, 209.1 MBH Hot Water, 4,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,479.03	493.12	
23 82 39 16-0020	EA 300 MBH Steam, 230 MBH Hot Water, 5,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,724.01	563.56	
23 82 39 16-0021	EA 360 MBH Steam, 261.3 MBH Hot Water, 5,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	4,377.83	563.56	
23 82 39 16-0022	EA Fan Guard For Fan Propelled Steam Unit Heater, Horizontal.....	226.23	35.22	

Note: Required only for unit heaters located within 7' of a working surface.

23 82 39 16-0023 Vertical Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)

23 82 39 16-0024	EA 41.3 MBH Steam, 22.7 MBH Hot Water, 595 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,224.14	140.89	
23 82 39 16-0025	EA 65.5 MBH Steam, 39.6 MBH Hot Water, 989 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,272.66	211.34	
23 82 39 16-0026	EA 80.6 MBH Steam, 48.4 MBH Hot Water, 1,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,361.03	211.34	
23 82 39 16-0027	EA 101.8 MBH Steam, 68.3 MBH Hot Water, 1,490 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,686.30	281.78	
23 82 39 16-0028	EA 124.4 MBH Steam, 83.7 MBH Hot Water, 1,790 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,773.13	281.78	
23 82 39 16-0029	EA 152 MBH Steam, 105.2 MBH Hot Water, 2,220 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,152.91	422.67	
23 82 39 16-0030	EA 173 MBH Steam, 118.6 MBH Hot Water, 2,620 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,285.72	422.67	
23 82 39 16-0031	EA 210.2 MBH Steam, 139.7 MBH Hot Water, 3,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,397.08	422.67	
23 82 39 16-0032	EA 249.8 MBH Steam, 180.1 MBH Hot Water, 4,180 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,690.36	493.12	
23 82 39 16-0033	EA 283.8 MBH Steam, 205.4 MBH Hot Water, 4,430 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,822.16	493.12	
23 82 39 16-0034	EA 333.4 MBH Steam, 242.9 MBH Hot Water, 5,210 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,088.78	493.12	
23 82 39 16-0035	EA 386 MBH Steam, 280.8 MBH Hot Water, 6,140 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,613.59	634.00	
23 82 39 16-0036	EA 496 MBH Steam, 368.1 MBH Hot Water, 8,020 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,500.33	634.00	
23 82 39 16-0037	EA 585 MBH Steam, 431.1 MBH Hot Water, 9,450 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,772.08	634.00	
23 82 39 16-0038	EA 705 MBH Steam, 519.4 MBH Hot Water, 11,000 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	5,421.72	704.44	
23 82 39 16-0039	EA Fan Guard For Fan Propelled Steam Unit Heater, Vertical.....	301.83	35.22	

Note: Required only for unit heaters located within 7' of a working surface.

23 82 39 16-0040 Removal and Reinstallation of Propeller Unit Heaters (23 82 39 16)

Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.				
23 82 39 16-0041	EA Removal And Reinstallation Of Up To 120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical		845.33	
23 82 39 16-0042	EA Removal And Reinstallation Of >120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical		1,127.12	

23 82 39 19 Wall and Ceiling Unit Heaters (23 82 39)

23 82 39 19-0001	Electric Unit Heaters (23 82 39 19)	Note: May be mounted both vertically and horizontally.		
23 82 39 19-0002	EA 3 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	809.21	139.97	
23 82 39 19-0003	EA 5 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	809.21	139.97	
23 82 39 19-0004	EA 7.5 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,078.44	174.97	
23 82 39 19-0005	EA 10 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,241.99	209.95	
23 82 39 19-0006	EA 15 KW, 910 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,797.78	279.95	
23 82 39 19-0007	EA 20 KW, 1,320 CFM Electric Unit Heater, 208, 240/208, 277, or 480 Volt	2,587.09	349.93	
23 82 39 19-0008	EA 30 KW, 2,100 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	3,536.34	419.92	
23 82 39 19-0009	EA 50 KW, 3,000 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	5,101.44	489.90	
23 82 39 19-0010	EA 3 KW, 350 CFM Electric Unit Heater - 480 Volt	981.27	139.97	
23 82 39 19-0011	EA 5 KW, 350 CFM Electric Unit Heater - 480 Volt	947.68	139.97	
23 82 39 19-0012	EA 7.5 KW, 650 CFM Electric Unit Heater - 480 Volt	1,127.61	174.97	
23 82 39 19-0013	EA 10 KW, 650 CFM Electric Unit Heater - 480 Volt	1,305.96	209.95	
23 82 39 19-0014	EA 15 KW, 910 CFM Electric Unit Heater - 480 Volt	1,925.73	279.95	

23 82 39 19-0015 Electric Ceiling and Wall Heaters (23 82 39 19)

Note: The "/" between wattages indicates two or three speed operation. 120, 240/208 or 277 Volt.				
23 82 39 19-0016	EA 1,000, 1,500 Or 2,000 Watt Recessed Electric Wall Heater		395.25	87.48
23 82 39 19-0017	EA 1,500/750 Or 2,000/1,000 Watt Recessed Electric Wall Heater	460.39	97.98	
23 82 39 19-0018	EA 3,000, 3,600, 4,000 Or 4,800 Watt Recessed Electric Wall Heater	694.02	97.98	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 19-0019 EA 1,000, 1,500 Or 2,000 Watt Surface Mounted Electric Wall Heater	443.23	87.48
23 82 39 19-0020 EA 1,500/750 Or 2,000/1,000 Watt Surface Mounted Electric Wall Heater	536.12	97.98
23 82 39 19-0021 EA 3,000, 3,600, 4,000 Or 4,800 Watt Surface Mounted Electric Wall Heater	782.97	97.98
23 82 39 19-0022 EA 1,000, 1,500 Or 2,000/1,500 Watt Recessed Electric Ceiling Heater.....	583.12	115.47
23 82 39 19-0023 EA 3,000, 4,000 Or 4,000/3,000 Watt Recessed Electric Ceiling Heater.....	1,043.27	122.47
23 82 39 19-0024 EA 4,800/3,600 Watt Recessed Electric Ceiling Heater	1,166.74	122.47
23 82 39 19-0025 EA 4,000/3,000/2,000 Watt Recessed Or Surface Mounted Electric Ceiling Heater	1,348.35	129.48
23 82 39 19-0026 EA 5,000/3,800/2,500 Watt Recessed Or Surface Mounted Electric Ceiling Heater	1,456.76	129.48
23 82 39 19-0027 EA 1,000, 1,500 Or 2,000/1,500 Watt Surface Mounted Electric Ceiling Heater	647.25	115.47
23 82 39 19-0028 EA 3,000, 4,000 Or 4,000/3,000 Watt Surface Mounted Electric Ceiling Heater	1,144.29	122.47
23 82 39 19-0029 EA 4,800/3,600 Watt Surface Mounted Electric Ceiling Heater	1,267.76	122.47
23 82 39 19-0030 EA Selectable Wattage (500 Or 750 Or 1000 Or 1,250 Or 1,500 Or 1,750 Or 2,250 Watt), 240 Volt, Surface Mounted, Electric Wall Heater (Markel Series 305 - Model H30522T2DWB)	580.04	87.48
23 82 39 19-0031 Removal And Reinstallation Of Electric Unit Heaters <small>(23 82 39 19)</small>		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 19-0032 EA Removal And Reinstallation Of Up To 15KW Electric Unit Heater	507.24	
23 82 39 19-0033 EA Removal And Reinstallation Of >15 KW Electric Unit Heater.....	1,042.70	
23 83 Radiant Heating Units <small>(23 80)</small>		
23 83 13 Radiant-Heating Electric Cables <small>(23 83)</small>		
23 83 13 13 Radiant-Heating Electric Cables <small>(23 83 13)</small>		
23 83 13 13-0001 Self Regulating Heating Cable <small>(23 83 13 13)</small>		
23 83 13 13-0002 LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable.....	8.77	0.96
Note: Tinned copper braid, at 50 Degrees F.		
23 83 13 13-0003 LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable.....	9.33	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0004 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable.....	9.73	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0005 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable.....	8.77	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0006 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable.....	10.30	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0007 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable.....	10.87	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0008 LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions	10.86	0.96
Note: Tinned copper braid, at 50 Degrees F.		
23 83 13 13-0009 LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions	11.12	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0010 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions	11.38	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0011 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions	10.86	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0012 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions	11.12	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0013 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions	11.38	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0014 LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....	13.48	0.96
Note: Tinned copper braid, at 50 Degrees F.		
23 83 13 13-0015 LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....	14.01	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0016 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....	14.27	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0017 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....	13.48	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0018 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....	14.01	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0019 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....	14.27	0.96
Note: Tinned copper braid, at 50 degrees F.		
23 83 13 13-0020 EA Power Connection Kit With Pre-set Thermostat For Self Regulating Low Temperature Heating Cable.....	303.81	75.37
23 83 13 13-0021 EA Splice And Tee Kit For Self Regulating Low Temperature Heating Cable	303.81	75.37
23 83 13 13-0022 EA End Seal Kit For Self Regulating Low Temperature Heating Cable	180.49	13.71
23 83 13 13-0023 EA Ambient Air Sensing Thermostat For Self Regulating Low Temperature Heating Cable	487.84	34.26
23 83 13 13-0024 EA Mechanical Or Electrical Line Sensing Thermostat For Self Regulating Low Temperature Heating Cable	535.47	34.26



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 84 Humidity Control Equipment (23 80)

23 84 13 Humidifiers (23 84)

23 84 13 16 Wetted-Element Humidifiers (23 84 13)

23 84 13 16-0001 Electric Steam Humidifiers, Self-Steam Producing (23 84 13 16)

Note: Electronic modulating duct or air handling unit installation 208V-108V with 12"-72" manifolds included.

23 84 13 16-0002	EA	1-96 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	10,724.62	580.47
23 84 13 16-0003	EA	20-168 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	13,526.55	581.87

23 84 13 23 Direct-Steam-Injection Humidifiers (23 84 13)

23 84 13 23-0001 Steam Type Pneumatically Controlled (23 84 13 23)

Note: For duct or air handling installation standard unit with integral operator distribution manifold strainer trap and pneumatic modulating valve. Excludes humidistat and piping.

23 84 13 23-0002	EA	3-191 LB/Hour Steam Humidifier, 24" Manifold, Pneumatic Controls	1,860.21	371.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>576.85</i>	
23 84 13 23-0003	EA	3-191 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls	1,860.21	371.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>576.85</i>	
23 84 13 23-0004	EA	65-334 LB/Hour Steam Humidifier, 36" Manifold, Pneumatic Controls	2,597.41	371.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>798.01</i>	
23 84 13 23-0005	EA	65-334 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls	2,738.29	464.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>844.97</i>	
23 84 13 23-0006	EA	100-690 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls	3,809.56	371.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>1,161.65</i>	
23 84 13 23-0007	EA	100-690 LB/Hour Steam Humidifier, 84" Manifold, Pneumatic Controls	3,950.44	464.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>1,208.61</i>	
23 84 13 23-0008	EA	220-2,000 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls	5,844.42	464.94
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>1,776.81</i>	
23 84 13 23-0009	EA	220-2,000 LB/Hour Steam Humidifier, 144" Manifold, Pneumatic Controls	6,020.54	581.87
		<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
		<i>For Each Additional Manifold, Add</i>	<i>1,835.51</i>	

23 84 13 29 Self-Contained Steam Humidifiers (23 84 13)

23 84 13 29-0001 Residential Humidifiers (23 84 13 29)

Note: Includes solenoid valve and flow through water supply.

23 84 13 29-0002	EA	Duct Or Furnace Mounted Humidifier, Residential Type.....	573.16	70.45
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23 84 16 Mechanical Dehumidification Units (23 84)

23 84 16 16 Indoor, Mechanical Dehumidification Units (23 84 16)

23 84 16 16-0001 Mechanical Dehumidification Units (23 84 16 16)

Note: Sized by moisture removal per 24 hours.

23 84 16 16-0002	EA	65 Pint Per Day, 160 CFM, 8" Duct Connection, Refrigerant Dehumidifier.....	1,918.67	69.98
23 84 16 16-0003	EA	90 Pint Per Day, 235 CFM, 10"6" Duct Connection, Refrigerant Dehumidifier	2,409.12	81.64
23 84 16 16-0004	EA	120 Pint Per Day, 350 CFM, 10"6" Duct Connection, Refrigerant Dehumidifier	3,217.04	93.32

23 84 16 33 Portable Dehumidifiers (23 84 16)

23 84 16 33-0001 Self Contained Free Standing Unit (23 84 16 33)

Note: Sized by moisture removal per 24 hours.

23 84 16 33-0002	EA	30 Pint/24 Hour Dehumidifier	486.37	151.37
23 84 16 33-0003	EA	50 Pint/24 Hour Dehumidifier	572.48	151.37
23 84 16 33-0004	EA	70 Pint/24 Hour Dehumidifier	624.14	151.37

END OF SECTION 23

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 84 Humidity Control Equipment

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	461.81	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	94.44	
	For >20 To 50, Add	75.55	
	For >50 To 100, Add	37.78	
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	597.21	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	128.29	
	For >20 To 50, Add	102.63	
	For >50 To 100, Add	51.32	
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	895.09	
	Note: 4mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	202.76	
	For >20 To 50, Add	162.21	
	For >50 To 100, Add	81.11	
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	457.95	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	93.48	
	For >20 To 50, Add	74.78	
	For >50 To 100, Add	37.39	
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	460.33	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	94.07	
	For >20 To 50, Add	75.26	
	For >50 To 100, Add	37.63	
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	586.18	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	125.54	
	For >20 To 50, Add	100.43	
	For >50 To 100, Add	50.21	
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	870.60	
	Note: 4mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	196.64	
	For >20 To 50, Add	157.31	
	For >50 To 100, Add	78.66	
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	364.32	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	70.07	
	For >20 To 50, Add	56.06	
	For >50 To 100, Add	28.03	
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	510.55	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	106.63	
	For >20 To 50, Add	85.30	
	For >50 To 100, Add	42.65	
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	723.80	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	159.94	
	For >20 To 50, Add	127.95	
	For >50 To 100, Add	63.98	
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	660.53	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	144.12	
	For >20 To 50, Add	115.30	
	For >50 To 100, Add	57.65	
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	905.19	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	205.29	
	For >20 To 50, Add	164.23	
	For >50 To 100, Add	82.12	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,652.44	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	392.10	
For >20 To 50, Add	313.68	
For >50 To 100, Add	156.84	
26 01 10 91-0015 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	757.77	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	168.43	
For >20 To 50, Add	134.75	
For >50 To 100, Add	67.37	
26 01 10 91-0016 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,112.02	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	257.00	
For >20 To 50, Add	205.60	
For >50 To 100, Add	102.80	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001 Lock Out/Tag Out Devices <small>(26 01 20 91)</small>		
Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002 EA Lock Out/Tag Out Local Disconnect	49.33	
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003 EA Lock Out/Tag Out Breaker Or Motor Starter	49.33	
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004 EA Lock Out/Tag Out Padlock Device	13.71	
26 01 20 91-0005 EA Lock Out/Tag Out Tags	3.89	
26 01 20 91-0006 Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01 20 91-0007 EA Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	28.51	
26 01 20 91-0008 EA Lighting, Existing Circuit Tracing Per Circuit	28.51	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)

26 01 30 91-0001 Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01 30 91-0002 Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01 30 91-0003 EA APCD Permit To Construct And Operate Emergency Generator	3,932.86	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001 Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small>		
Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0001 for disposal of hazardous lamps.		
26 01 50 51-0002 Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0003 EA 300 Watt, T3, Tungsten Halogen Lamp	45.09	
26 01 50 51-0004 EA 500 Watt, T3, Tungsten Halogen Lamp	56.67	
26 01 50 51-0005 EA 1,000 Watt, T3, Tungsten Halogen Lamp	82.57	
26 01 50 51-0006 EA 60 Watt, PAR38, Halogen Lamp	25.25	
26 01 50 51-0007 EA 75 Watt, PAR38, Halogen Lamp	25.25	
26 01 50 51-0008 EA 90 Watt, PAR38, Halogen Lamp	24.22	
26 01 50 51-0009 EA 100 Watt, PAR38, Halogen Lamp	24.22	
26 01 50 51-0010 EA 60 Watt, PAR38, Halogen IR Reflective Lamp	27.01	
26 01 50 51-0011 EA 67 Watt, PAR38, Halogen IR Reflective Lamp	28.74	
26 01 50 51-0012 EA 70 Watt, PAR38, Halogen IR Reflective Lamp	28.30	
26 01 50 51-0013 EA 90 Watt, PAR38, Halogen IR Reflective Lamp	29.62	
26 01 50 51-0014 EA 100 Watt, PAR38, Halogen IR Reflective Lamp	29.90	
26 01 50 51-0015 EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	27.41	
26 01 50 51-0016 EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	27.41	
26 01 50 51-0017 EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	30.16	
26 01 50 51-0018 EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	30.16	
26 01 50 51-0019 Incandescent Lamps <small>(26 01 50 51-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp	7.50	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp	8.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp	10.28	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp	12.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	9.63	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp	14.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp	17.01	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp	15.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp	25.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp	50.93	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.17	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp	58.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.17	
26 01 50 51-0031 Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	121.54	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	33.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-9.07	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	37.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0035 Fluorescent Lamps (26 01 50 51-0001)		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	13.44	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	15.57	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	17.82	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	15.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	21.49	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	19.25	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	19.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp	28.78	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	22.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	18.80	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	14.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	16.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	16.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	16.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	23.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	20.14	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	25.05	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	18.99	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	16.15	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	15.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	17.07	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	27.04	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	26.20	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	14.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	14.40	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp .....14.77 <i>For Multiple Lamps In Fixture, Deduct</i> .....-3.62		
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp .....15.31 <i>For Multiple Lamps In Fixture, Deduct</i> .....-3.62		
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp .....17.19 <i>For Multiple Lamps In Fixture, Deduct</i> .....-3.62		
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp .....18.82 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.08		
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp .....18.33 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.08		
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp .....19.74 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.08		
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp .....17.49		
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....11.06 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.27		
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....12.04 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.27		
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....22.80 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.27		
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....30.26		
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....30.26		
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....53.35		
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....20.51		
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....9.80		
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....8.96		
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....8.96		
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....26.76		
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....28.87		
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....51.72		
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....61.24		
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....63.18		
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....25.92		
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....26.85		
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....30.34		
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp .....46.63		
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp .....44.89		
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp .....50.39		
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp .....49.14		
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp .....48.78		
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp .....49.03		
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp .....57.81		
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....66.22		
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....65.87		
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp .....39.53 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp .....39.53 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp .....40.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp .....41.71 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp .....40.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp .....40.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp .....38.15 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.49		
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp .....81.56		
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp .....91.16		
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp .....101.02		
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp .....103.24		
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp .....105.46		
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp .....114.35		
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp .....154.33		
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....13.10		
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0116 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	16.00	
26 01 50 51-0117 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	16.00	
26 01 50 51-0118 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	23.78	
26 01 50 51-0119 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	17.96	
26 01 50 51-0120 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	28.65	
26 01 50 51-0121 LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0122 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	22.27	
26 01 50 51-0123 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	20.62	
26 01 50 51-0124 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	24.99	
26 01 50 51-0125 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	22.08	
26 01 50 51-0126 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	26.94	
26 01 50 51-0127 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	22.08	
26 01 50 51-0128 LED Lamps, Medium Base, PAR <small>(26 01 50 51-0112)</small>		
26 01 50 51-0129 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	23.83	
26 01 50 51-0130 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0131 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0132 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	28.90	
26 01 50 51-0133 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	27.92	
26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	27.92	
26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	47.58	
26 01 50 51-0136 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0137 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	28.90	
26 01 50 51-0138 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0139 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0140 LED Lamps, GU Base, MR16 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0141 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	18.68	
26 01 50 51-0142 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	22.27	
26 01 50 51-0143 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	23.83	
26 01 50 51-0144 LED Lamps, PL Series <small>(26 01 50 51-0112)</small>		
26 01 50 51-0145 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	20.26	
26 01 50 51-0146 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR)	26.74	
26 01 50 51-0147 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR)	22.61	
26 01 50 51-0148 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR)	25.19	
26 01 50 51-0149 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR)	25.19	
26 01 50 51-0150 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR)	29.83	
26 01 50 51-0151 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR)	25.19	
26 01 50 51-0152 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR)	25.19	
26 01 50 51-0153 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR)	25.19	
26 01 50 51-0154 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR)	25.19	
26 01 50 51-0155 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR)	28.28	
26 01 50 51-0156 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR)	28.28	
26 01 50 51-0157 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR)	28.28	
26 01 50 51-0158 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR)	28.28	
26 01 50 51-0159 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR)	26.74	
26 01 50 51-0160 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR)	26.74	
26 01 50 51-0161 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR)	26.74	
26 01 50 51-0162 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR)	27.77	
26 01 50 51-0163 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR)	27.77	
26 01 50 51-0164 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	27.99	
26 01 50 51-0165 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	27.99	
26 01 50 51-0166 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	27.99	
26 01 50 51-0167 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	27.99	
26 01 50 51-0168 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	28.80	
26 01 50 51-0169 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	28.80	
26 01 50 51-0170 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	28.80	
26 01 50 51-0171 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	28.80	
26 01 50 51-0172 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	28.80	
26 01 50 51-0173 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	28.80	
26 01 50 51-0174 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	28.80	
26 01 50 51-0175 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	28.80	
26 01 50 51-0176 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	36.85	
26 01 50 51-0177 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	36.85	
26 01 50 51-0178 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	36.85	
26 01 50 51-0179 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	34.99	
26 01 50 51-0180 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	34.99	
26 01 50 51-0181 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	34.99	
26 01 50 51-0182 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	23.49	
26 01 50 51-0183 HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0184 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	70.54	
26 01 50 51-0185 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	70.54	



MINOR	CSI UOM DESCRIPTION		TOTAL DIRECT	DEMOLITION
			UNIT COST	UNIT COST
26 01 50 51-0186	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	89.60	
26 01 50 51-0187	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	89.60	
26 01 50 51-0188	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	61.08	
26 01 50 51-0189	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	61.08	
26 01 50 51-0190	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	61.08	
26 01 50 51-0191	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	61.08	
26 01 50 51-0192	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	63.14	
26 01 50 51-0193	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	63.14	
26 01 50 51-0194	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	63.14	
26 01 50 51-0195	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	63.14	
26 01 50 51-0196	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	71.38	
26 01 50 51-0197	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	71.38	
26 01 50 51-0198	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	71.38	
26 01 50 51-0199	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	71.38	
26 01 50 51-0200	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	81.69	
26 01 50 51-0201	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	81.69	
26 01 50 51-0202	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	81.69	
26 01 50 51-0203	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	81.69	
26 01 50 51-0204	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	104.36	
26 01 50 51-0205	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	104.36	
26 01 50 51-0206	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	104.36	
26 01 50 51-0207	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	104.36	
26 01 50 51-0208	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	123.94	
26 01 50 51-0209	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	123.94	
26 01 50 51-0210	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	123.94	
26 01 50 51-0211	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	123.94	
26 01 50 51-0212	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	137.34	
26 01 50 51-0213	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	137.34	
26 01 50 51-0214	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	137.34	
26 01 50 51-0215	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	137.34	
26 01 50 51-0216	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	185.77	
26 01 50 51-0217	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	185.77	
26 01 50 51-0218	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	185.77	
26 01 50 51-0219	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	185.77	
26 01 50 51-0220	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	191.95	
26 01 50 51-0221	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	191.95	
26 01 50 51-0222	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	191.95	
26 01 50 51-0223	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	191.95	
26 01 50 51-0224	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	228.02	
26 01 50 51-0225	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	228.02	
26 01 50 51-0226	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	228.02	
26 01 50 51-0227	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	228.02	
26 01 50 51-0228	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	271.30	
26 01 50 51-0229	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	271.30	
26 01 50 51-0230	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	271.30	
26 01 50 51-0231	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	271.30	
26 01 50 51-0232	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	87.51	
26 01 50 51-0233	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	94.72	
26 01 50 51-0234	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	94.72	
26 01 50 51-0235	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	87.51	
26 01 50 51-0236	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	110.18	
26 01 50 51-0237	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	100.90	
26 01 50 51-0238	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	121.51	
26 01 50 51-0239	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	120.30	
26 01 50 51-0240	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	123.06	
26 01 50 51-0241	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	123.06	
26 01 50 51-0242	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	74.14	
26 01 50 51-0243	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	74.14	
26 01 50 51-0244	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	83.67	
26 01 50 51-0245	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	83.67	
26 01 50 51-0246	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	90.01	
26 01 50 51-0247	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	90.01	
26 01 50 51-0248	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	99.53	
26 01 50 51-0249	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	99.53	
26 01 50 51-0250	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	100.03	
26 01 50 51-0251	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	108.48	
26 01 50 51-0252	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	135.17	
26 01 50 51-0253	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	148.97	
26 01 50 51-0254	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	57.98	
26 01 50 51-0255	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	65.40	
26 01 50 51-0256	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	69.11	
26 01 50 51-0257	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	76.01	
26 01 50 51-0258	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	91.60	
26 01 50 51-0259	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	107.46	
26 01 50 51-0260	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	147.09	
26 01 50 51-0261	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	155.01	
26 01 50 51-0262	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	167.70	
26 01 50 51-0263	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	175.62	
26 01 50 51-0264	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	253.31	
26 01 50 51-0265	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	69.89	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0266		HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0112)		
26 01 50 51-0267	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	241.87	
26 01 50 51-0268	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	241.87	
26 01 50 51-0269	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	241.87	
26 01 50 51-0270	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	70.54	
26 01 50 51-0271	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	70.54	
26 01 50 51-0272	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	70.54	
26 01 50 51-0273	EA	45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	89.60	
26 01 50 51-0274	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	89.60	
26 01 50 51-0275	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	89.60	
26 01 50 51-0276	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	166.88	
26 01 50 51-0277	EA	80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	185.77	
26 01 50 51-0278	EA	80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	185.77	
26 01 50 51-0279	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	185.77	
26 01 50 51-0280	EA	80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	185.77	
26 01 50 51-0281	EA	100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	191.95	
26 01 50 51-0282	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	191.95	
26 01 50 51-0283	EA	100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	191.95	
26 01 50 51-0284	EA	100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	191.95	
26 01 50 51-0285	EA	120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	228.02	
26 01 50 51-0286	EA	120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	228.02	
26 01 50 51-0287	EA	120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	228.02	
26 01 50 51-0288	EA	120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	228.02	
26 01 50 51-0289	EA	150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	271.30	
26 01 50 51-0290	EA	150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	271.30	
26 01 50 51-0291	EA	150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	271.30	
26 01 50 51-0292	EA	150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	271.30	
26 01 50 51-0293	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5)	94.72	
26 01 50 51-0294	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5)	94.72	
26 01 50 51-0295	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5)	110.18	
26 01 50 51-0296	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5)	108.75	
26 01 50 51-0297	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5)	121.51	
26 01 50 51-0298	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5)	120.30	
26 01 50 51-0299	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5)	123.06	
26 01 50 51-0300	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5)	119.47	
26 01 50 51-0301	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5)	259.60	
26 01 50 51-0302	EA	20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7)	94.69	
26 01 50 51-0303	EA	20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7)	94.69	
26 01 50 51-0304	EA	30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7)	107.51	
26 01 50 51-0305	EA	30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7)	107.51	
26 01 50 51-0306	EA	40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7)	115.22	
26 01 50 51-0307	EA	40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7)	115.22	
26 01 50 51-0308	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7)	74.02	
26 01 50 51-0309	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7)	74.02	
26 01 50 51-0310	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7)	83.67	
26 01 50 51-0311	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7)	83.67	
26 01 50 51-0312	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7)	90.01	
26 01 50 51-0313	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7)	90.01	
26 01 50 51-0314	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7)	99.53	
26 01 50 51-0315	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7)	99.53	
26 01 50 51-0316	EA	65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	179.79	
26 01 50 51-0317	EA	80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	208.02	
26 01 50 51-0318	EA	100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	248.21	
26 01 50 51-0319	EA	120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	484.88	
26 01 50 51-0320	EA	150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	457.85	
26 01 50 51-0321	EA	200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	484.88	
26 01 50 51-0322	EA	250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	486.98	
26 01 50 51-0323	EA	24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	73.54	
26 01 50 51-0324	EA	24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	73.54	
26 01 50 51-0325	EA	24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	73.54	
26 01 50 51-0326	EA	100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	217.61	
26 01 50 51-0327	EA	115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	334.28	
26 01 50 51-0328	EA	40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	181.84	
26 01 50 51-0329	EA	100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	213.84	
26 01 50 51-0330	EA	45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	95.48	
26 01 50 51-0331	EA	40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	235.76	
26 01 50 51-0332		LED Lamps, 2G11 Base (26 01 50 51-0112)		
26 01 50 51-0333	EA	19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR)	40.95	
26 01 50 51-0334		LED Lamps, GX23 Or G23 Base (26 01 50 51-0112)		
26 01 50 51-0335	EA	5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	21.32	
26 01 50 51-0336		LED Lamps, G24 Base (26 01 50 51-0112)		
26 01 50 51-0337	EA	5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R)	27.01	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0338			LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0112)</small>		
26 01 50 51-0339	EA	2'	1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	36.97	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0340	EA	2'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	47.19	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0341	EA	3'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	39.80	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.85	
26 01 50 51-0342	EA	4'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	43.46	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0343	EA	4'	2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	47.29	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0344	EA	4'	2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	31.00	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0345	EA	2'	1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	29.62	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0346	EA	2'	1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	27.25	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0347	EA	3'	1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	27.87	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.85	
26 01 50 51-0348	EA	4'	1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	28.05	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0349	EA	4'	2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	28.96	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0350			Filament LED Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0351	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	22.66		
26 01 50 51-0352	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	22.66		
26 01 50 51-0353	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	21.63		
26 01 50 51-0354	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	21.63		
26 01 50 51-0355	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	23.28		
26 01 50 51-0356	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	23.28		
26 01 50 51-0357	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	19.57		
26 01 50 51-0358	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	19.57		
26 01 50 51-0359	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	20.18		
26 01 50 51-0360	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	24.72		
26 01 50 51-0361	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	20.74		
26 01 50 51-0362			Other Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0363	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	21.46		
26 01 50 51-0364	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	21.46		
26 01 50 51-0365	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	21.46		
26 01 50 51-0366	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	22.49		
26 01 50 51-0367	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	22.49		
26 01 50 51-0368	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	22.49		
26 01 50 51-0369			LED Lamps, Light Engines, Round, LER Series <small>(26 01 50 51-0112)</small>		
26 01 50 51-0370	EA	5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730).....	50.62		
26 01 50 51-0371	EA	9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U).....	31.68		
26 01 50 51-0372			Recycle Hazardous Lamps <small>(26 01 50 51)</small>		
			Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift.		
26 01 50 51-0373	EA		Recycle 2' Length Linear Fluorescent Lamps.....	0.38	
26 01 50 51-0374	EA		Recycle 3' Length Linear Fluorescent Lamps.....	0.56	
26 01 50 51-0375	EA		Recycle 4' Length Linear Fluorescent Lamps.....	0.75	
26 01 50 51-0376	EA		Recycle 6' Length Linear Fluorescent Lamps.....	1.13	
26 01 50 51-0377	EA		Recycle 8' Length Linear Fluorescent Lamps.....	1.51	
26 01 50 51-0378	EA		Recycle Compact Fluorescent Lamps.....	0.68	
26 01 50 51-0379	EA		Recycle U-Shaped Or Circular Fluorescent Lamps.....	0.68	
26 01 50 51-0380	EA		Recycle High Intensity Discharge (HID) Lamps.....	2.35	
26 01 50 52			Ballasts Replacement <small>(26 01 50)</small>		
26 01 50 52-0001			Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0002	EA		Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	27.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.24	
26 01 50 52-0003	EA		Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	34.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.30	
26 01 50 52-0004	EA		Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	39.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0005 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	42.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.77	
26 01 50 52-0006 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	48.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	50.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0008 High Intensity Discharge (HID) Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0008)</small>		
26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	130.91	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	133.59	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	133.59	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	125.96	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	125.96	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	177.08	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	177.08	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	222.09	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	245.06	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	120.32	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	126.31	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	123.73	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	141.73	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	139.16	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	155.87	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	155.87	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	183.65	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	183.65	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	281.15	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	281.15	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type	18.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.12	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type	30.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.18	
26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	160.42	34.33
<i>For Pulse Start Ballast, Add</i>	11.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	167.85	34.33
<i>For Pulse Start Ballast, Add</i>	11.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	154.79	34.33
<i>For Pulse Start Ballast, Add</i>	10.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.25 12.82 14.42	34.33
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	236.38 18.83 14.42	34.33
26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.58 14.42	34.33
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	200.16 14.42	34.33
26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	299.62 14.42	34.33
26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	449.96 14.39	34.26
26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	499.34 14.39	34.26
26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	482.26 14.39	34.26
26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	363.95 14.42	34.33
26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	410.19 14.42	34.33
26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	534.89 14.42	34.33
26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	532.20 14.42	34.33
26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	738.28 15.25	37.08
26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	738.28 15.25	37.08
26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	513.85 14.42	34.33
26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	600.76 14.42	34.33
26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	660.52 14.42	34.33
26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	629.90 14.42	34.33
26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	803.55 14.42	34.33
26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	803.55 14.42	34.33
26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	406.32 14.42	34.33
26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	437.18 14.42	34.33
26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	434.14 14.42	34.33
26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	454.82 14.42	34.33
26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	711.32 15.25	37.08
26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	869.20 15.25	37.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0076 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 664.12 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	664.12	34.33
26 01 50 52-0077 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 606.55 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	606.55	34.33
26 01 50 52-0078 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0079 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 518.30 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	518.30	34.33
26 01 50 52-0080 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 557.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	557.23	34.33
26 01 50 52-0081 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 821.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	821.52	34.33
26 01 50 52-0082 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 709.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	709.86	34.33
26 01 50 52-0083 Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0008)</small>		
26 01 50 52-0084 Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0083)</small>		
26 01 50 52-0085 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 175.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	175.22	34.33
26 01 50 52-0086 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 175.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	175.22	34.33
26 01 50 52-0087 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 194.73 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	194.73	34.33
26 01 50 52-0088 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	468.13	34.33
26 01 50 52-0089 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	468.13	34.33
26 01 50 52-0090 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	468.13	34.33
26 01 50 52-0091 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	468.13	34.33
26 01 50 52-0092 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42	468.13	34.33
26 01 50 53 Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001 Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver 94.46	94.46	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures 210.74	210.74	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole 236.28	236.28	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures 100.41	100.41	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser 34.62	34.62	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser 35.78	35.78	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser 40.80	40.80	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder 15.53 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11	15.53	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder 15.71 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11	15.71	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder 17.24 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11	17.24	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type 19.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11	19.60	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type 21.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11	21.13	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in 17.01 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11	17.01	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes 60.77	60.77	
26 01 50 81 Luminaire Replacement <small>(26 01 50)</small>		
26 01 50 81-0001 Retrofit Lighting Fixtures <small>(26 01 50 81)</small>		
26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) <small>(26 01 50 81-0002)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0004 EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927) 121.33	121.33	
26 01 50 81-0005 EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930) 121.33	121.33	
26 01 50 81-0006 EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940) 121.33	121.33	
26 01 50 81-0007 EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827) 100.31	100.31	
26 01 50 81-0008 EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830) 100.31	100.31	

26 Electrical
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Table with 4 columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST.

Table listing items 26 01 50 81-0009 through 26 01 50 81-0012 with descriptions and costs.

26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.

Table listing items 26 01 50 81-0014 through 26 01 50 81-0041 with descriptions and costs.

26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.

Table listing items 26 01 50 81-0043 through 26 01 50 81-0061 with descriptions and costs.



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 01 50 81-0062	EA		1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40) 150.35 Note: Fits 1' x 2' Troffer/Strip	150.35	
	26 01 50 81-0063	EA		1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50) 150.35 Note: Fits 1' x 2' Troffer/Strip	150.35	
	26 01 50 81-0064	EA		2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35) 150.35 Note: Fits 2' x 2' Troffer/Strip	150.35	
	26 01 50 81-0065	EA		2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40) 150.35 Note: Fits 2' x 2' Troffer/Strip	150.35	
	26 01 50 81-0066	EA		2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50) 150.35 Note: Fits 2' x 2' Troffer/Strip	150.35	
	26 01 50 81-0067	EA		3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35) 155.88 Note: Fits 2' x 2' Troffer/Strip	155.88	
	26 01 50 81-0068	EA		3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) 155.88 Note: Fits 2' x 2' Troffer/Strip	155.88	
	26 01 50 81-0069	EA		3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) 155.88 Note: Fits 2' x 2' Troffer/Strip	155.88	
	26 01 50 81-0070	EA		3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) 162.52 Note: Fits 2' x 2' Troffer/Strip	162.52	
	26 01 50 81-0071	EA		3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) 162.52 Note: Fits 2' x 2' Troffer/Strip	162.52	
	26 01 50 81-0072	EA		3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) 162.52 Note: Fits 2' x 2' Troffer/Strip	162.52	
	26 01 50 81-0073			LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) <small>(26 01 50 81-0002)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
	26 01 50 81-0074	EA		34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN)..... 333.47	333.47	
	26 01 50 81-0075	EA		34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN)..... 333.47	333.47	
	26 01 50 81-0076	EA		26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN)..... 301.39	301.39	
	26 01 50 81-0077	EA		26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN)..... 301.39	301.39	
	26 01 50 81-0078	EA		25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) 152.35 Note: No sensor, ZigBee ready driver	152.35	
	26 01 50 81-0079	EA		25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) 152.35 Note: No sensor, ZigBee ready driver	152.35	
	26 01 50 81-0080	EA		31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) 173.37 Note: No sensor, ZigBee ready driver	173.37	
	26 01 50 81-0081	EA		31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) 173.37 Note: No sensor, ZigBee ready driver	173.37	
	26 01 50 81-0082	EA		25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV) 188.85 Note: Factory installed sensor and ZigBee dongle	188.85	
	26 01 50 81-0083	EA		25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV) 188.85 Note: Factory installed sensor and ZigBee dongle	188.85	
	26 01 50 81-0084	EA		31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV) 194.38 Note: Factory installed sensor and ZigBee dongle	194.38	
	26 01 50 81-0085	EA		31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV) 194.38 Note: Factory installed sensor and ZigBee dongle	194.38	
	26 01 50 81-0086	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120) 120.28 Note: No sensor, ZigBee ready driver	120.28	
	26 01 50 81-0087	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120) 120.28 Note: No sensor, ZigBee ready driver	120.28	
	26 01 50 81-0088	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880) 133.55 Note: No sensor, ZigBee ready driver	133.55	
	26 01 50 81-0089	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880) 133.55 Note: No sensor, ZigBee ready driver	133.55	
	26 01 50 81-0090	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L) 123.60 Note: No sensor, ZigBee ready driver	123.60	
	26 01 50 81-0091	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L) 123.60 Note: No sensor, ZigBee ready driver	123.60	
	26 01 50 81-0092	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L) 136.87 Note: No sensor, ZigBee ready driver	136.87	
	26 01 50 81-0093	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L) 136.87 Note: No sensor, ZigBee ready driver	136.87	
	26 01 50 81-0094	EA		6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450) 122.49 Note: No sensor, ZigBee ready driver	122.49	
	26 01 50 81-0095	EA		6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450) 122.49 Note: No sensor, ZigBee ready driver	122.49	
	26 01 50 81-0096	EA		8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000) 132.44 Note: No sensor, ZigBee ready driver	132.44	
	26 01 50 81-0097	EA		8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000) 132.44 Note: No sensor, ZigBee ready driver	132.44	
	26 01 50 81-0098			LED Lighting Retrofit Accessories (LG) <small>(26 01 50 81-0002)</small> See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
	26 01 50 81-0099	EA		Dongle (LG LGE-DONGLE)..... 21.91	21.91	
	26 01 50 81-0100	EA		1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B)..... 118.92	118.92	15.63
	26 01 50 81-0101	EA		2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B)..... 125.17	125.17	18.75
	26 01 50 81-0102	EA		1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B) 150.24	150.24	15.63

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B)	156.49	18.75
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	79.81	12.50
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP)	31.46	12.50
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE)	33.29	12.50
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A).....	78.99	18.75
Note: includes dongle		
26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures <small>(26 01 50 81-0001)</small>		
Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal, 26 01 50 51-0372 for hazardous lamp recycling.		
26 01 50 81-0109 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....	95.64	
<i>For Specular Ballast Cover, Add</i>		9.54
26 01 50 81-0111 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps	100.95	
<i>For Specular Ballast Cover, Add</i>		10.60
26 01 50 81-0112 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps	134.18	
<i>For Specular Ballast Cover, Add</i>		17.24
26 01 50 81-0113 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps	150.98	
<i>For Specular Ballast Cover, Add</i>		20.60
26 01 50 81-0114 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp.....	100.53	
<i>For Specular Reflector, Add</i>		10.51
26 01 50 81-0116 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	106.42	
<i>For Specular Reflector, Add</i>		11.69
26 01 50 81-0117 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	141.02	
<i>For Specular Reflector, Add</i>		18.61
26 01 50 81-0118 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps	172.80	
<i>For Specular Reflector, Add</i>		24.97
26 01 50 81-0119 Retrofit Existing (T12) Troffer Style Fluorescent Fixtures <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps	126.94	
<i>For Specular Reflector, Add</i>		13.06
26 01 50 81-0121 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	132.24	
<i>For Specular Reflector, Add</i>		14.12
26 01 50 81-0122 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps	134.72	
<i>For Specular Reflector, Add</i>		14.61
26 01 50 81-0123 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps	148.15	
<i>For Specular Reflector, Add</i>		17.30
26 01 50 81-0124 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps	173.86	
<i>For Specular Reflector, Add</i>		22.44
26 01 50 81-0125 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	138.11	
<i>For Specular Reflector, Add</i>		15.29
26 01 50 81-0126 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps	149.33	
<i>For Specular Reflector, Add</i>		17.53
26 01 50 81-0127 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps	158.82	
<i>For Specular Reflector, Add</i>		19.43
26 01 50 81-0128 Retrofit Existing Recessed Lay-In/Troffer Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0129 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) <small>(26 01 50 81-0128)</small>		
Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0130 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0131 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0132 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0133 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	173.59	
26 01 50 81-0134 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	160.55	
26 01 50 81-0135 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	160.55	
26 01 50 81-0136 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	160.55	
26 01 50 81-0137 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	173.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0138 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0139 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0140 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0141 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	174.11	
26 01 50 81-0142 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0143 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0144 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0145 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	174.11	
26 01 50 81-0146 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		
26 01 50 81-0147 EA 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	221.23	
26 01 50 81-0148 EA 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	230.10	
26 01 50 81-0149 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		
26 01 50 81-0150 EA 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	300.23	
26 01 50 81-0151 EA 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	307.04	
26 01 50 81-0152 EA 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	300.23	
26 01 50 81-0153 EA 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	307.04	
26 01 50 81-0154 EA 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	341.12	
26 01 50 81-0155 EA 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	351.35	
26 01 50 81-0156 EA 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	375.20	
26 01 50 81-0157 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		
26 01 50 81-0158 EA 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	279.37	
26 01 50 81-0159 EA 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	288.88	
26 01 50 81-0160 EA 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	291.72	
26 01 50 81-0161 EA 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	301.23	
26 01 50 81-0162 EA 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST).....	215.19	
26 01 50 81-0163 EA 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST).....	219.71	
26 01 50 81-0164 EA 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST).....	226.94	
26 01 50 81-0165 EA 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST).....	231.45	
26 01 50 81-0166 EA 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST).....	282.03	
26 01 50 81-0167 EA 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST).....	332.60	
26 01 50 81-0168 Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0169 EA 1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	240.09	
26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	186.98	
26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	245.11	
26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	191.81	
26 01 50 81-0173 EA 3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	255.25	
26 01 50 81-0174 EA 3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	205.85	
26 01 50 81-0175 EA 1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	282.82	
26 01 50 81-0176 EA 1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	229.51	
26 01 50 81-0177 EA 2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	287.62	
26 01 50 81-0178 EA 2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	234.19	
26 01 50 81-0179 EA 3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	297.80	
26 01 50 81-0180 EA 3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	248.28	
26 01 50 81-0181 LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0182 EA 3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT)	539.44	
26 01 50 81-0183 EA 4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT)	597.50	
26 01 50 81-0184 Retrofit Existing HID Fixtures (26 01 50 81-0001)		
26 01 50 81-0185 EA Tear Drop LED Retrofit Kit (Holophane LTDR2 P35S 40K AS BK TDRD 3 P)	1,216.61	
26 01 50 81-0186 LED Lighting Retrofits For Existing Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0187 LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0186)		
26 01 50 81-0188 EA 2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT)	130.29	
For >25 To 50, Deduct	-6.51	
For >50 To 100, Deduct	-11.31	
For >100, Deduct	-19.20	
26 01 50 81-0189 EA 2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT)	189.11	
For >25 To 50, Deduct	-9.46	
For >50 To 100, Deduct	-15.72	
For >100, Deduct	-25.08	
26 01 50 81-0190 EA 3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT)	141.70	
For >25 To 50, Deduct	-7.09	
For >50 To 100, Deduct	-12.25	
For >100, Deduct	-20.68	
26 01 50 81-0191 EA 3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT)	130.22	
For >25 To 50, Deduct	-6.51	
For >50 To 100, Deduct	-11.39	
For >100, Deduct	-19.53	
26 01 50 81-0192 EA 4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT)	170.47	
For >25 To 50, Deduct	-8.52	
For >50 To 100, Deduct	-14.50	
For >100, Deduct	-23.90	
26 01 50 81-0193 EA 4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT)	221.45	
For >25 To 50, Deduct	-11.07	
For >50 To 100, Deduct	-18.32	
For >100, Deduct	-29.00	
26 01 50 81-0194 EA 4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT)	140.73	
For >25 To 50, Deduct	-7.04	
For >50 To 100, Deduct	-12.27	
For >100, Deduct	-20.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0195 EA 4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	140.73	
<i>For >25 To 50, Deduct</i>	-7.04	
<i>For >50 To 100, Deduct</i>	-12.27	
<i>For >100, Deduct</i>	-20.92	
26 01 50 81-0196 EA 4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	180.67	
<i>For >25 To 50, Deduct</i>	-9.03	
<i>For >50 To 100, Deduct</i>	-15.26	
<i>For >100, Deduct</i>	-24.92	
26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	153.47	
<i>For >25 To 50, Deduct</i>	-7.67	
<i>For >50 To 100, Deduct</i>	-13.22	
<i>For >100, Deduct</i>	-22.20	
26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	153.47	
<i>For >25 To 50, Deduct</i>	-7.67	
<i>For >50 To 100, Deduct</i>	-13.22	
<i>For >100, Deduct</i>	-22.20	
26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0200 EA 1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	309.44	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-15.47	
<i>For >50 To 100, Deduct</i>	-24.92	
<i>For >100, Deduct</i>	-37.80	
26 01 50 81-0201 EA 1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	333.55	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-16.68	
<i>For >50 To 100, Deduct</i>	-26.73	
<i>For >100, Deduct</i>	-40.21	
26 01 50 81-0202 EA 2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	351.58	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-17.58	
<i>For >50 To 100, Deduct</i>	-28.08	
<i>For >100, Deduct</i>	-42.01	
26 01 50 81-0203 EA 2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	379.74	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-18.99	
<i>For >50 To 100, Deduct</i>	-30.19	
<i>For >100, Deduct</i>	-44.83	
26 01 50 81-0204 EA 2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	407.33	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-20.37	
<i>For >50 To 100, Deduct</i>	-32.61	
<i>For >100, Deduct</i>	-48.96	
26 01 50 81-0205 EA 2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	440.03	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-22.00	
<i>For >50 To 100, Deduct</i>	-35.06	
<i>For >100, Deduct</i>	-52.23	
26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) <small>(26 01 50 81-0186)</small>		
Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0207 EA 2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....	103.86	
Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-5.19	
<i>For >50 To 100, Deduct</i>	-9.33	
<i>For >100, Deduct</i>	-16.55	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0208	EA	2'	Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....	103.86	
			Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-5.19	
			For >50 To 100, Deduct	-9.33	
			For >100, Deduct	-16.55	
26 01 50 81-0209	EA	4'	Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	133.32	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.71	
			For >100, Deduct	-20.18	
26 01 50 81-0210	EA	4'	Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	133.32	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.71	
			For >100, Deduct	-20.18	
26 01 50 81-0211	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0212	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0213	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0214	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0215	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0216	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0217	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0218	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0219	EA	4'	Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	143.72	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.49	
			For >100, Deduct	-21.22	
26 01 50 81-0220	EA	4'	Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	165.97	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.30	
			For >50 To 100, Deduct	-14.16	
			For >100, Deduct	-23.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0221 EA 4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F)	178.96	
Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.95	
For >50 To 100, Deduct	-15.13	
For >100, Deduct	-24.75	
26 01 50 81-0222 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50)	165.97	
Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.30	
For >50 To 100, Deduct	-14.16	
For >100, Deduct	-23.45	
26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F)	178.96	
Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.95	
For >50 To 100, Deduct	-15.13	
For >100, Deduct	-24.75	
26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800)	163.14	
Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
For >25 To 50, Deduct	-8.16	
For >50 To 100, Deduct	-12.58	
For >100, Deduct	-17.69	
26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W)	149.99	
Note: 90-minute emergency battery with power output of 20 Watts		
For >25 To 50, Deduct	-7.50	
For >50 To 100, Deduct	-11.59	
For >100, Deduct	-16.37	
26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50)	173.37	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.67	
For >50 To 100, Deduct	-15.23	
For >100, Deduct	-26.24	
26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F)	179.86	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.99	
For >50 To 100, Deduct	-15.72	
For >100, Deduct	-26.89	
26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40)	243.69	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-12.18	
For >50 To 100, Deduct	-20.50	
For >100, Deduct	-33.28	
26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F)	269.68	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-13.48	
For >50 To 100, Deduct	-22.45	
For >100, Deduct	-35.87	
26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50)	243.69	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-12.18	
For >50 To 100, Deduct	-20.50	
For >100, Deduct	-33.28	
26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F)	269.68	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-13.48	
For >50 To 100, Deduct	-22.45	
For >100, Deduct	-35.87	

26 05 Common Work Results for Electrical ⁽²⁶⁾

26 05 13 Medium-Voltage Cables ^(26 05)

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables ^(26 05 13)

26 05 13 16-0001 Wire And Cable ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0003			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0004	MLF		#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,306.37	1,048.33
26 05 13 16-0005	MLF		#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,140.46	1,144.67
26 05 13 16-0006	MLF		#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,167.66	1,293.31
26 05 13 16-0007	MLF		1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,041.59	1,593.41
26 05 13 16-0008	MLF		2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,168.34	1,794.32
26 05 13 16-0009	MLF		3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,347.49	1,991.65
26 05 13 16-0010	MLF		4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,774.55	2,237.82
26 05 13 16-0011	MLF		250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,239.50	2,489.66
26 05 13 16-0012	MLF		350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,733.29	2,972.60
26 05 13 16-0013	MLF		500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,470.96	3,494.22
26 05 13 16-0014	MLF		750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,970.52	4,118.32
26 05 13 16-0015	MLF		1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	45,476.62	4,742.12
26 05 13 16-0016			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
			Note: Excludes excavation.		
26 05 13 16-0017	MLF		#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,175.32	
26 05 13 16-0018	MLF		#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,768.45	
26 05 13 16-0019	MLF		#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,424.02	
26 05 13 16-0020	MLF		1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,794.04	
26 05 13 16-0021	MLF		2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,418.39	
26 05 13 16-0022	MLF		3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,349.84	
26 05 13 16-0023	MLF		4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,161.49	
26 05 13 16-0024	MLF		250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,248.73	
26 05 13 16-0025	MLF		350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,665.95	
26 05 13 16-0026	MLF		500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	17,217.44	
26 05 13 16-0027			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0028	MLF		#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,415.45	661.61
26 05 13 16-0029	MLF		#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,133.79	709.39
26 05 13 16-0030	MLF		#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,279.80	897.08
26 05 13 16-0031	MLF		1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,905.51	1,089.03
26 05 13 16-0032	MLF		2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,025.04	1,278.42
26 05 13 16-0033	MLF		3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,190.88	1,462.01
26 05 13 16-0034	MLF		4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,615.13	1,696.35
26 05 13 16-0035	MLF		250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,595.26	2,134.11
26 05 13 16-0036	MLF		350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,361.75	2,700.31
26 05 13 16-0037	MLF		500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,605.91	3,392.68
26 05 13 16-0038			5 KV Non-Shielded Single Copper Conductor <small>(26 05 13 16-0002)</small>		
26 05 13 16-0039	MLF		1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,436.17	2,089.19
26 05 13 16-0040	MLF		2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,985.94	2,119.21
26 05 13 16-0041	MLF		3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,535.70	2,149.23
26 05 13 16-0042	MLF		4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,075.55	2,196.74
26 05 13 16-0043	MLF		350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,783.45	2,280.54
26 05 13 16-0044	MLF		500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,827.87	2,390.03
26 05 13 16-0045	MLF		750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	35,556.82	2,987.54
26 05 13 16-0046	MLF		1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	40,855.25	3,983.44
26 05 13 16-0047			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0048	MLF		#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,609.80	1,048.33
26 05 13 16-0049	MLF		#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,550.65	1,144.67
26 05 13 16-0050	MLF		#2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,695.85	1,293.31
26 05 13 16-0051	MLF		#1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,733.76	1,443.27
26 05 13 16-0052	MLF		1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,772.06	1,593.41
26 05 13 16-0053	MLF		2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,011.20	1,794.32
26 05 13 16-0054	MLF		3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,493.78	1,991.65
26 05 13 16-0055	MLF		4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,066.93	2,237.82
26 05 13 16-0056	MLF		250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,862.29	2,489.66
26 05 13 16-0057	MLF		350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,587.58	2,972.60
26 05 13 16-0058	MLF		500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,943.35	3,494.22
26 05 13 16-0059	MLF		750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	38,232.64	4,118.32
26 05 13 16-0060	MLF		1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	51,528.46	4,742.12
26 05 13 16-0061			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
			Note: Excludes excavation.		
26 05 13 16-0062	MLF		#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,478.75	
26 05 13 16-0063	MLF		#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,178.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,952.21	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,738.93	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,524.52	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,261.25	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,496.13	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,453.87	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,871.52	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,520.24	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	19,689.83	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,718.88	661.61
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,543.98	709.39
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,807.99	897.08
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,720.22	992.35
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,635.98	1,089.03
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,867.90	1,278.42
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,337.17	1,462.01
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,907.51	1,696.35
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,218.05	2,134.11
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,216.04	2,700.31
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	25,078.30	3,392.68
26 05 13 16-0085 15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0086)		
26 05 13 16-0088 MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,108.75	2,089.19
26 05 13 16-0089 MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,899.23	2,089.19
26 05 13 16-0090 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,200.75	2,089.19
26 05 13 16-0091 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,182.99	2,089.19
26 05 13 16-0092 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,115.28	2,089.19
26 05 13 16-0093 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,908.94	2,180.75
26 05 13 16-0094 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,275.19	2,180.75
26 05 13 16-0095 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,522.67	2,280.54
26 05 13 16-0096 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,803.89	2,334.01
26 05 13 16-0097 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,253.97	2,629.04
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0086)		
Note: Excludes excavation.		
26 05 13 16-0099 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,953.41	
26 05 13 16-0100 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,935.64	
26 05 13 16-0101 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,867.93	
26 05 13 16-0102 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,690.49	
26 05 13 16-0103 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,056.73	
26 05 13 16-0104 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,427.65	
26 05 13 16-0105 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,712.63	
26 05 13 16-0106 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	20,863.94	
26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0086)		
26 05 13 16-0108 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,448.83	945.13
26 05 13 16-0109 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,807.31	1,089.03
26 05 13 16-0110 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,234.79	1,278.42
26 05 13 16-0111 MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,279.85	1,462.01
26 05 13 16-0112 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,258.69	1,696.35
26 05 13 16-0113 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,984.64	1,974.76
26 05 13 16-0114 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,985.32	2,301.11
26 05 13 16-0115 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	23,670.22	2,672.95
26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0117 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)		
26 05 13 16-0118 MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,808.19	2,089.19
26 05 13 16-0119 MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,740.95	2,089.19
26 05 13 16-0120 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,096.75	2,089.19

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,255.79	2,089.19
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,355.89	2,089.19
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,431.24	2,180.75
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,863.42	2,180.75
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,470.49	2,280.54
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,138.28	2,334.01
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	26,256.62	2,629.04
26 05 13 16-0128 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116)		
Note: Excludes excavation.		
26 05 13 16-0129 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,849.41	
26 05 13 16-0130 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,008.45	
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,108.55	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,212.79	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,644.96	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,369.80	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	19,037.67	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	23,866.59	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,344.83	945.13
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,880.12	1,089.03
26 05 13 16-0140 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,475.41	1,278.42
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,802.15	1,462.01
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,846.92	1,696.35
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	17,932.47	1,974.76
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	21,319.71	2,301.11
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	26,672.87	2,672.95
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,330.16	2,096.51
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,433.20	2,146.62
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,475.30	2,196.74
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,213.65	2,343.13
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	61.60	15.99
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	74.20	17.03
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	61.60	15.99
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.20	17.03
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,505.34	1,048.33
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,409.44	1,144.67
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,514.01	1,293.31
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	8,510.00	1,589.07
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	9,707.61	1,788.94
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,099.16	1,991.65
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	13,601.15	2,229.45
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....	23,150.88	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	340.71	136.83
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	399.33	136.83
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	399.33	136.83
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	440.05	164.19
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	440.05	164.19
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	440.05	164.19



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 13 16-0177	EA		250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
	26 05 13 16-0178	EA		350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
	26 05 13 16-0179	EA		500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0180				Cable Termination Without Stress Cone <small>(26 05 13 16-0169)</small>		
	26 05 13 16-0181	EA		#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	450.20	164.19
	26 05 13 16-0182	EA		250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	521.97	191.56
26 05 13 16-0183				Cable Termination With Stress Cone <small>(26 05 13 16-0169)</small>		
	26 05 13 16-0184	EA		#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,155.32	328.38
	26 05 13 16-0185	EA		250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,597.81	451.52
26 05 13 16-0186				Connect To Pothead, Pothead Included <small>(26 05 13 16-0169)</small>		
	26 05 13 16-0187	EA		#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	1,190.73	328.38
	26 05 13 16-0188	EA		250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	1,481.20	376.28
26 05 13 16-0189				Two Conductor Pothead <small>(26 05 13 16-0169)</small>		
				Note: Includes 5 KV pothead.		
	26 05 13 16-0190	EA		#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,125.46	451.52
	26 05 13 16-0191	EA		250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,460.14	574.68
	26 05 13 16-0192	EA		400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,974.05	651.57
	26 05 13 16-0193	EA		750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,862.18	760.21
	26 05 13 16-0194	EA		1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,964.20	1,140.18
26 05 13 16-0195				Three Conductor Pothead <small>(26 05 13 16-0169)</small>		
				Note: Includes 5 KV pothead.		
	26 05 13 16-0196	EA		#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,171.71	656.77
	26 05 13 16-0197	EA		250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,527.31	766.23
26 05 13 16-0198				Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
				Note: For bare wire.		
	26 05 13 16-0199	EA		#6 AWG Crimp Compression Connection For Bare Copper Wire	84.57	
	26 05 13 16-0200	EA		#4 AWG Crimp Compression Connection For Bare Copper Wire	92.80	
	26 05 13 16-0201	EA		#3 AWG Crimp Compression Connection For Bare Copper Wire	108.23	
	26 05 13 16-0202	EA		#2 AWG Crimp Compression Connection For Bare Copper Wire	123.17	
	26 05 13 16-0203	EA		#1 AWG Crimp Compression Connection For Bare Copper Wire	138.81	
	26 05 13 16-0204	EA		1/0 AWG Crimp Compression Connection For Bare Copper Wire	154.17	
	26 05 13 16-0205	EA		2/0 AWG Crimp Compression Connection For Bare Copper Wire	169.41	
	26 05 13 16-0206	EA		3/0 AWG Crimp Compression Connection For Bare Copper Wire	185.13	
	26 05 13 16-0207	EA		4/0 AWG Crimp Compression Connection For Bare Copper Wire	200.57	
	26 05 13 16-0208	EA		250 MCM Crimp Compression Connection For Bare Copper Wire	216.22	
	26 05 13 16-0209	EA		300 MCM Crimp Compression Connection For Bare Copper Wire	232.13	
	26 05 13 16-0210	EA		350 MCM Crimp Compression Connection For Bare Copper Wire	247.40	
	26 05 13 16-0211	EA		400 MCM Crimp Compression Connection For Bare Copper Wire	279.07	
	26 05 13 16-0212	EA		500 MCM Crimp Compression Connection For Bare Copper Wire	311.40	
26 05 13 16-0213				Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
				Note: For bare wire.		
	26 05 13 16-0214	EA		#6 AWG Crimp Compression Connection For Bare Aluminum Wire	85.83	
	26 05 13 16-0215	EA		#4 AWG Crimp Compression Connection For Bare Aluminum Wire	93.49	
	26 05 13 16-0216	EA		#2 AWG Crimp Compression Connection For Bare Aluminum Wire	125.48	
	26 05 13 16-0217	EA		#1 AWG Crimp Compression Connection For Bare Aluminum Wire	144.67	
	26 05 13 16-0218	EA		1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	159.70	
	26 05 13 16-0219	EA		2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	174.69	
	26 05 13 16-0220	EA		3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	191.26	
	26 05 13 16-0221	EA		4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	207.05	
	26 05 13 16-0222	EA		250 MCM Crimp Compression Connection For Bare Aluminum Wire	222.55	
	26 05 13 16-0223	EA		300 MCM Crimp Compression Connection For Bare Aluminum Wire	238.32	
	26 05 13 16-0224	EA		350 MCM Crimp Compression Connection For Bare Aluminum Wire	253.90	
	26 05 13 16-0225	EA		400 MCM Crimp Compression Connection For Bare Aluminum Wire	288.37	
	26 05 13 16-0226	EA		500 MCM Crimp Compression Connection For Bare Aluminum Wire	323.01	
26 05 13 16-0227				15 KV <small>(26 05 13 16-0169)</small>		
26 05 13 16-0228				Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small>		
				Note: Includes pothead.		
	26 05 13 16-0229	EA		#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	1,386.18	574.68
	26 05 13 16-0230	EA		250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	1,751.30	711.50
26 05 13 16-0231				Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
				Note: Includes pothead.		
	26 05 13 16-0232	EA		#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	2,085.91	875.69

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,487.06	1,039.89
26 05 13 16-0234 Three Conductor Pothead On Rack (26 05 13 16-0227) Note: Includes pothead.		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,687.20	1,135.66
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,353.30	1,423.00
26 05 13 16-0237 Stress Relief Cone On Rack (26 05 13 16-0227)		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,343.40	574.68
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack.....	1,703.20	711.50
26 05 13 16-0240 Grounded, Shielded Cable Splice (26 05 13 16-0227)		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	962.60	424.16
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,237.85	547.31
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	4,627.07	1,505.10
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	5,600.36	1,641.93
26 05 13 16-0245 Cable Termination (26 05 13 16-0227)		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV.....	589.31	239.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.67	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV.....	750.82	307.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.72	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV.....	924.46	376.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	225.76	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV.....	356.95	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.10	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	602.48	177.88
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	678.78	196.59
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	784.58	215.15
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	975.24	247.88
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,204.97	356.36
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,357.67	393.19
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,553.22	422.31
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,950.47	495.75
26 05 13 16-0260 35 KV (26 05 13 16-0168)		
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	2,392.83	
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV.....	461.83	164.33
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	658.77	247.93
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV.....	737.82	265.17
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV.....	374.17	136.83
26 05 13 16-0268 70 KV (26 05 13 16-0168)		
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	7,794.06	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing.....	2,436.10	

26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)

26 05 19 13 Undercarpet Electrical Power Cables (26 05 19)

26 05 19 13-0001 Under Carpet Power System (26 05 19 13)

Note: Includes laying out, floor prep, taping, testing, drill floor, folds.

26 05 19 13-0002 LF 3-Conductor, #12 Flat Cable With Attached Bottom Shield.....	6.80	0.62
26 05 19 13-0003 LF Steel, Top Shield.....	9.19	0.62
26 05 19 13-0004 EA 3-Conductor, Splice.....	39.18	10.62
26 05 19 13-0005 EA Splice Top Shield For 3 Conductor.....	11.48	5.00
26 05 19 13-0006 EA 3-Conductor, Tap.....	48.81	12.50
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End.....	75.36	10.62
26 05 19 13-0008 EA 3-Conductor, Transition Block Assembly.....	49.10	6.25
26 05 19 13-0009 EA Single, Direct Connected, Receptacle With Box.....	148.22	20.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 13-0010 EA Dual, Direct Connected, Receptacle With Box.....	246.85	31.25
26 05 19 13-0011 EA Floor Mounted Box With Cover.....	245.47	25.01
26 05 19 13-0012 LF 5-Conductor, #12 Cable With Attached Bottom Shield	10.80	0.62
26 05 19 13-0013 LF Steel, Top Shield For 5-Conductor Cable.....	10.72	0.62
26 05 19 13-0014 EA 5-Conductor, Splice	39.70	10.62
26 05 19 13-0015 EA 5-Conductor, Transition Block Assembly	64.80	6.25
26 05 19 13-0016 EA Box, Wall, Flush With Cover	111.32	25.01
26 05 19 13-0017 EA Telephone, Transition Fitting Wall Box	73.71	20.63
26 05 19 13-0018 EA RJ-45, Telephone Fitting With Duplex Jack And Cover.....	96.74	23.75
26 05 19 13-0019 EA Miniature Telephone With Duplex RJ-45	41.56	9.38
26 05 19 13-0020 LF 4-Pair, Level 5, Under Carpet Telephone Wire.....	2.42	0.62
26 05 19 13-0021 EA BNC, Coax Plug, Connector	33.58	12.50
26 05 19 13-0022 EA TNC, Coax Plug, Connector	33.58	12.50
26 05 19 13-0023 CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	176.25	62.51
 26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001) Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.43	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits	0.22	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.69	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.41	
 26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	2.92	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.70	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	407.65	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
 26 05 19 16-0011 Wire and Cable (26 05 19 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0057 for various conduit types.		
26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012)		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013)		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0017 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.49	0.55
26 05 19 16-0018 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.57	0.55
26 05 19 16-0019 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.78	0.55
 26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0021 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.72	0.55
26 05 19 16-0022 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.86	0.55
26 05 19 16-0023 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.05	0.55
 26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0025 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.98	0.55
26 05 19 16-0026 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.19	0.55
26 05 19 16-0027 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.61	0.55
 26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0029 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.33	0.55
26 05 19 16-0030 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.59	0.55
26 05 19 16-0031 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.96	0.55
 26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0033 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.10	0.68

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0034 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOOW Cord (Carol Carolprene)	3.27	0.68
26 05 19 16-0035 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOOW Cord (Carol Carolprene)	3.54	0.68
26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0038 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.57	0.55
26 05 19 16-0039 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.72	0.55
26 05 19 16-0040 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.92	0.55
26 05 19 16-0041 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.46	0.74
26 05 19 16-0042 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.80	0.76
26 05 19 16-0043 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.06	0.78
26 05 19 16-0044 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.47	0.80
26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.18	0.84
26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.95	0.86
26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.98	0.88
26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.12	0.90
26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.35	0.92
26 05 19 16-0050 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.33	0.94
26 05 19 16-0051 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.87	0.96
26 05 19 16-0052 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.38	1.02
26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0054 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.86	0.55
26 05 19 16-0055 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.99	0.55
26 05 19 16-0056 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.26	0.55
26 05 19 16-0057 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.63	0.74
26 05 19 16-0058 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.03	0.76
26 05 19 16-0059 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.43	0.78
26 05 19 16-0060 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.93	0.80
26 05 19 16-0061 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.14	0.82
26 05 19 16-0062 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.74	0.84
26 05 19 16-0063 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.76	0.86
26 05 19 16-0064 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.28	0.88
26 05 19 16-0065 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.27	0.90
26 05 19 16-0066 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.61	0.92
26 05 19 16-0067 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.83	0.94
26 05 19 16-0068 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.16	0.96
26 05 19 16-0069 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.51	0.98
26 05 19 16-0070 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.97	1.02
26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0072 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.23	0.55
26 05 19 16-0073 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.38	0.55
26 05 19 16-0074 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.76	0.55
26 05 19 16-0075 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.82	0.74
26 05 19 16-0076 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.84	0.76
26 05 19 16-0077 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.18	0.78
26 05 19 16-0078 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.99	0.80
26 05 19 16-0079 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.54	0.82
26 05 19 16-0080 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.45	0.84
26 05 19 16-0081 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.32	0.86
26 05 19 16-0082 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.33	0.88
26 05 19 16-0083 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.50	0.90
26 05 19 16-0084 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.07	0.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0085 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.65	0.96
26 05 19 16-0086 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.76	1.02
26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0088 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.61	0.55
26 05 19 16-0089 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.90	0.55
26 05 19 16-0090 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.19	0.55
26 05 19 16-0091 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.57	0.74
26 05 19 16-0092 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.51	0.76
26 05 19 16-0093 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.47	0.78
26 05 19 16-0094 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.51	0.80
26 05 19 16-0095 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.25	0.82
26 05 19 16-0096 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.51	0.84
26 05 19 16-0097 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.01	0.86
26 05 19 16-0098 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.41	0.88
26 05 19 16-0099 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.81	0.90
26 05 19 16-0100 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.47	0.92
26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.89	0.94
26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.37	0.96
26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	22.87	0.98
26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	23.66	1.00
26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	24.54	1.02
26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.02	0.68
26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.27	0.68
26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.53	0.68
26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.77	0.74
26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.04	0.76
26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.52	0.78
26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.34	0.84
26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.19	0.86
26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.19	0.90
26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	26.66	0.94
26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.26	0.82
26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.84	0.96
26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.48	0.96
26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.15	0.96
26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.07	1.09
26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.29	1.37
26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	14.71	1.37
26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.17	1.50
26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.60	1.64
26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	21.71	2.74
26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	27.67	3.42
26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	33.25	4.52

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0133		300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0134		#18, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0135	LF	2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.06	0.55
26 05 19 16-0136	LF	3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.30	0.55
26 05 19 16-0137	LF	4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.76	0.55
26 05 19 16-0138		#16, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0139	LF	2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.21	0.55
26 05 19 16-0140	LF	3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.59	0.55
26 05 19 16-0141	LF	4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.76	0.55
26 05 19 16-0142		#14, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0143	LF	2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.16	0.55
26 05 19 16-0144	LF	3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.71	0.55
26 05 19 16-0145	LF	4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	6.08	0.68
26 05 19 16-0146		600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0147		#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0148	LF	2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.04	0.55
26 05 19 16-0149	LF	3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.69	0.55
26 05 19 16-0150	LF	4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.37	0.55
26 05 19 16-0151		#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0152	LF	2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.27	0.55
26 05 19 16-0153	LF	3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.94	0.55
26 05 19 16-0154	LF	4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.99	0.55
26 05 19 16-0155	LF	5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.39	0.68
26 05 19 16-0156		#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0157	LF	3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.09	0.55
26 05 19 16-0158	LF	4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.95	0.55
26 05 19 16-0159	LF	5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.54	0.68
26 05 19 16-0160		#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0161	LF	3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.90	0.55
26 05 19 16-0162	LF	4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.66	0.55
26 05 19 16-0163	LF	5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.32	0.68
26 05 19 16-0164		#10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0165	LF	3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.63	0.68
26 05 19 16-0166	LF	4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.31	0.68
26 05 19 16-0167	LF	5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.97	0.68
26 05 19 16-0168		Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0013)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0169		600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0168)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0170				#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0171	LF			3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.24	0.55
26 05 19 16-0172	LF			4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.49	0.55
26 05 19 16-0173	LF			5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.91	0.68
26 05 19 16-0174				#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0175	LF			3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.03	0.55
26 05 19 16-0176	LF			4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.52	0.55
26 05 19 16-0177	LF			5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.15	0.68
26 05 19 16-0178				#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0179	LF			3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.84	0.55
26 05 19 16-0180	LF			4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.48	0.55
26 05 19 16-0181	LF			5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.68	0.68
26 05 19 16-0182				#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0183	LF			3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.91	0.68
26 05 19 16-0184	LF			4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.68	0.68
26 05 19 16-0185	LF			5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	6.10	0.68
26 05 19 16-0186				Multi-Conductor Type W Cord <small>(26 05 19 16-0013)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0187				2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0186)</small>		
26 05 19 16-0188				#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0189	LF			3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.91	0.82
26 05 19 16-0190	LF			4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.44	0.96
26 05 19 16-0191	LF			5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.86	0.96
26 05 19 16-0192				#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0193	LF			3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.40	0.96
26 05 19 16-0194	LF			4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.85	1.09
26 05 19 16-0195	LF			5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	11.03	1.37
26 05 19 16-0196				#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0197	LF			3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.26	0.96
26 05 19 16-0198	LF			4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	12.13	1.09
26 05 19 16-0199	LF			5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	15.64	1.37
26 05 19 16-0200				Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0012)</small>		
26 05 19 16-0201				Cord Grips <small>(26 05 19 16-0200)</small>		
26 05 19 16-0202	EA			Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	85.86	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	
26 05 19 16-0203	EA			Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	86.19	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	
26 05 19 16-0204				Cable Reels <small>(26 05 19 16-0200)</small> Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205	EA			30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	824.08	68.41
26 05 19 16-0206	EA			50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	2,300.69	68.41
26 05 19 16-0207	EA			50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,717.00	68.41
26 05 19 16-0208				Extension Cords For Cable Reel <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209	EA			100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	176.52	
26 05 19 16-0210	EA			100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	246.64	
26 05 19 16-0211				Plugs And Connector Bodies <small>(26 05 19 16-0200)</small> Note: Up to 277 volt		
26 05 19 16-0212				NEMA Twist-Lock Plugs <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213	EA			15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	96.13	
26 05 19 16-0214	EA			15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	98.27	
26 05 19 16-0215	EA			20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	89.29	
26 05 19 16-0216	EA			20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	95.87	
26 05 19 16-0217	EA			20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	126.70	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 19 16-0218	EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441)	135.05	
26 05 19 16-0219	EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK)	143.23	
26 05 19 16-0220	EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK)	127.94	
26 05 19 16-0221	EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK)	148.02	
26 05 19 16-0222	EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761)	151.93	
26 05 19 16-0223	EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK)	156.91	
26 05 19 16-0224 NEMA Twist-Lock Connector Bodies (26 05 19 16-0211)			
26 05 19 16-0225	EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C)	102.17	
26 05 19 16-0226	EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C)	109.73	
26 05 19 16-0227	EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C)	93.82	
26 05 19 16-0228	EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK)	127.94	
26 05 19 16-0229	EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK)	149.98	
26 05 19 16-0230	EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443)	160.64	
26 05 19 16-0231	EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK)	196.54	
26 05 19 16-0232	EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	187.48	
26 05 19 16-0233	EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK)	232.44	
26 05 19 16-0234	EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753)	244.34	
26 05 19 16-0235	EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK)	231.37	
26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)			
26 05 19 16-0237	EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	257.70	41.05
26 05 19 16-0238	EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	260.25	41.05
26 05 19 16-0239	EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	280.02	41.05
26 05 19 16-0240	EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	282.27	45.15
26 05 19 16-0241	EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	278.44	45.15
26 05 19 16-0242	EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	279.58	45.15
26 05 19 16-0243	EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	387.72	50.49
26 05 19 16-0244	EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	378.16	50.49
26 05 19 16-0245	EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	419.20	50.49
26 05 19 16-0246	EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	414.44	55.42
26 05 19 16-0247	EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	397.84	55.42
26 05 19 16-0248	EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	409.26	55.42
26 05 19 16-0249	EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	525.51	65.68
26 05 19 16-0250	EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	534.60	65.68
26 05 19 16-0251	EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	513.03	65.68
26 05 19 16-0252	EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	583.49	73.06
26 05 19 16-0253	EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	569.33	73.06
26 05 19 16-0254	EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	575.45	73.06
26 05 19 16-0255	EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	717.60	82.10
26 05 19 16-0256	EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	752.74	82.10
26 05 19 16-0257	EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	738.44	90.31
26 05 19 16-0258	EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	726.44	90.31
26 05 19 16-0259	EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	732.92	90.31
26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)			
26 05 19 16-0261	EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	272.35	41.05
26 05 19 16-0262	EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	274.11	41.05
26 05 19 16-0263	EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	319.65	41.05
26 05 19 16-0264	EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	319.18	45.15
26 05 19 16-0265	EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	314.56	45.15
26 05 19 16-0266	EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	318.74	45.15
26 05 19 16-0267	EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	396.47	50.49
26 05 19 16-0268	EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	396.37	50.49
26 05 19 16-0269	EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	412.08	50.49
26 05 19 16-0270	EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	410.17	55.42
26 05 19 16-0271	EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	413.41	55.42
26 05 19 16-0272	EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	409.99	55.42
26 05 19 16-0273	EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	615.27	65.68
26 05 19 16-0274	EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	596.03	65.68
26 05 19 16-0275	EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	584.57	65.68
26 05 19 16-0276	EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	636.91	73.06
26 05 19 16-0277	EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	653.64	73.06
26 05 19 16-0278	EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	654.86	73.06
26 05 19 16-0279	EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	816.06	82.10
26 05 19 16-0280	EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	838.12	82.10
26 05 19 16-0281	EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	906.37	90.31
26 05 19 16-0282	EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	876.06	90.31
26 05 19 16-0283	EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	886.40	90.31
26 05 19 16-0284 Accessories (26 05 19 16-0200)			
26 05 19 16-0285	EA 1/2" Straight Steel Cord Connector	58.04	13.69
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21
26 05 19 16-0286	EA 1/2" Straight Nylon Cord Connector	35.86	10.26
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.16
26 05 19 16-0287	EA 1/2" 90 Degree Steel Cord Connector	67.19	17.10
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0288 EA 1/2" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.85 8.21	13.69
26 05 19 16-0289 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.43 10.26	17.10
26 05 19 16-0290 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.29 12.32	20.52
26 05 19 16-0291 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.26 8.21	13.69
26 05 19 16-0292 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.98 10.26	17.10
26 05 19 16-0293 EA 3/4" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.20 8.21	13.69
26 05 19 16-0294 EA 3/4" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.95 6.16	10.26
26 05 19 16-0295 EA 3/4" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.93 10.26	17.10
26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.22 8.21	13.69
26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.53 12.31	20.52
26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.60 14.37	23.95
26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.38 10.26	17.10
26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.19 12.32	20.52
26 05 19 16-0301 EA 1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.05 8.21	13.69
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.88 6.16	10.26
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.08 10.26	17.10
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.80 8.21	13.69
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.07 12.31	20.52
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.20 14.37	23.95
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.76 10.26	17.10
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.44 12.32	20.52
26 05 19 16-0309 600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0310 Single Solid Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	776.23	303.41
26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	977.10	356.92
26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,217.89	436.43
26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,010.08	303.41
26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,226.96	356.92
26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,481.62	436.43
26 05 19 16-0317 Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	815.71	250.03
26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	960.86	300.03
26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,191.12	350.05
26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,478.79	400.05
26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,985.35	500.06
26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,715.74	600.07
26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,749.71	750.10
26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,453.18	850.10
26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,298.05	950.12
26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,624.79	1,050.13
26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,974.93	1,200.15
26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,592.29	1,350.17
26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,533.30	1,500.18
26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,886.67	1,650.20
26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	14,693.64	1,800.22
26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,505.19	1,950.24
26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,665.20	2,100.25
26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	20,922.45	2,250.28
26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	24,318.80	2,400.30
26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	28,079.88	2,600.32
26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	43,153.30	2,900.35
26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	61,176.17	3,400.42
26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,921.73	599.95
26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,382.54	700.22
26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,968.49	850.10
26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,576.43	924.74
26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,912.95	974.99
26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,584.09	1,074.88
26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,011.60	1,120.39
26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,592.22	1,225.16
26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,201.79	1,300.41
26 05 19 16-0351 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,184.42	1,650.33
26 05 19 16-0352 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,924.50	2,450.30
26 05 19 16-0353 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,382.53	700.22
26 05 19 16-0354 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,073.42	850.10
26 05 19 16-0355 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,764.33	1,000.12
26 05 19 16-0356 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,206.65	899.73
26 05 19 16-0357 MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,183.99	1,099.13
26 05 19 16-0358 MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,415.73	1,400.42
26 05 19 16-0359 MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,374.13	1,800.85
26 05 19 16-0360 MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,059.00	2,300.40
26 05 19 16-0361 MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,033.22	1,025.13
26 05 19 16-0362 MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,205.97	1,200.15
26 05 19 16-0363 MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,753.77	1,525.19
26 05 19 16-0364 MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,306.59	1,150.14
26 05 19 16-0365 MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,209.60	1,425.18
26 05 19 16-0366 MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,256.52	1,757.71
26 05 19 16-0367 MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,237.42	1,395.42
26 05 19 16-0368 MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,613.66	1,596.07
26 05 19 16-0369 MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,477.17	1,991.74
26 05 19 16-0370 MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,094.77	1,699.71
26 05 19 16-0371 MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,520.09	1,900.74
26 05 19 16-0372 MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,941.81	2,500.30
26 05 19 16-0373 MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,998.09	2,399.92
26 05 19 16-0374 MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,495.56	2,999.12
26 05 19 16-0375 MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,425.61	2,600.82
26 05 19 16-0376 MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,148.33	2,999.12
26 05 19 16-0377 MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,095.81	3,498.93
26 05 19 16-0378 MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,377.87	4,498.68
26 05 19 16-0379 MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	39,293.30	4,003.87
26 05 19 16-0380 MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	41,825.78	4,498.68
26 05 19 16-0381 MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	52,745.16	5,000.62
26 05 19 16-0382 MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	68,694.01	5,495.92

26 05 19 16-0383 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0383)

Note: Direct bury.

26 05 19 16-0384 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,284.80
26 05 19 16-0385 MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,516.08
26 05 19 16-0386 MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,950.77
26 05 19 16-0387 MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,600.74
26 05 19 16-0388 MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,769.51
26 05 19 16-0389 MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,017.69
26 05 19 16-0390 MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,425.47
26 05 19 16-0391 MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,404.62
26 05 19 16-0392 MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,647.46
26 05 19 16-0393 MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,244.98
26 05 19 16-0394 MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,333.36
26 05 19 16-0395 MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,637.03
26 05 19 16-0396 MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,248.53
26 05 19 16-0397 MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,698.20
26 05 19 16-0398 MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,833.16
26 05 19 16-0399 MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,532.21
26 05 19 16-0400 MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,865.89
26 05 19 16-0401 MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	46,135.95
26 05 19 16-0402 MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	74,985.53
26 05 19 16-0403 MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	952.33
26 05 19 16-0404 MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,145.80
26 05 19 16-0405 MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,379.88
26 05 19 16-0406 MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,688.64
26 05 19 16-0407 MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,189.93
26 05 19 16-0408 MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,932.18
26 05 19 16-0409 MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,009.65
26 05 19 16-0410 MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,775.15
26 05 19 16-0411 MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,400.46
26 05 19 16-0412 MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,087.68
26 05 19 16-0413 MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,103.07
26 05 19 16-0414 MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,343.81
26 05 19 16-0415 MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,494.22
26 05 19 16-0416 MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,711.12
26 05 19 16-0417 MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,037.27
26 05 19 16-0418 MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,410.99
26 05 19 16-0419 MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,712.09



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0420	MLF	750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,742.24	
26 05 19 16-0421	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	800.69	
26 05 19 16-0422	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,001.34	
26 05 19 16-0423	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,252.54	
26 05 19 16-0424	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,782.14	
26 05 19 16-0425	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,461.45	
26 05 19 16-0426	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,299.34	
26 05 19 16-0427	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,759.88	
26 05 19 16-0428	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,707.12	
26 05 19 16-0429	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,642.48	
26 05 19 16-0430	MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,567.80	
26 05 19 16-0431	MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,052.54	
26 05 19 16-0432	MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,845.85	
26 05 19 16-0433	MLF	250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,793.27	
26 05 19 16-0434	MLF	300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,826.07	
26 05 19 16-0435	MLF	350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,017.77	
26 05 19 16-0436	MLF	400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,129.31	
26 05 19 16-0437	MLF	500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,854.22	
26 05 19 16-0438	MLF	600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,590.73	
26 05 19 16-0439	MLF	750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	44,298.55	
26 05 19 16-0440	MLF	#2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,440.41	
26 05 19 16-0441	MLF	1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,784.54	
26 05 19 16-0442	MLF	2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,962.81	
26 05 19 16-0443	MLF	3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,608.69	
26 05 19 16-0444	MLF	4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,135.19	
26 05 19 16-0445	MLF	250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,297.07	
26 05 19 16-0446	MLF	350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,668.19	
26 05 19 16-0447	MLF	400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,751.12	
26 05 19 16-0448	MLF	500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	29,472.75	
26 05 19 16-0449		600 Volt, Armored Cable, Copper Conductors <small>(26 05 19 16-0309)</small>		
26 05 19 16-0450		ACTHH, Solid <small>(26 05 19 16-0449)</small>		
26 05 19 16-0451	MLF	1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,899.29	820.96
26 05 19 16-0452	MLF	1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,342.31	930.42
26 05 19 16-0453	MLF	1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,817.08	985.15
26 05 19 16-0454	MLF	2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,198.34	1,368.27
26 05 19 16-0455	MLF	2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,504.35	1,532.19
26 05 19 16-0456	MLF	2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,680.18	1,697.61
26 05 19 16-0457	MLF	2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,390.91	1,861.54
26 05 19 16-0458	MLF	3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,065.25	1,532.19
26 05 19 16-0459	MLF	3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,315.10	1,697.61
26 05 19 16-0460	MLF	3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,772.88	1,916.40
26 05 19 16-0461	MLF	3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,759.77	2,079.49
26 05 19 16-0462	MLF	4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,027.82	1,697.61
26 05 19 16-0463	MLF	4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,610.45	1,916.40
26 05 19 16-0464	MLF	4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,383.18	2,134.64
26 05 19 16-0465	MLF	4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,830.82	2,299.65
26 05 19 16-0466		ACTHH, Stranded <small>(26 05 19 16-0449)</small>		
26 05 19 16-0467	MLF	2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,665.86	1,971.54
26 05 19 16-0468	MLF	2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,335.63	2,243.00
26 05 19 16-0469	MLF	3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,034.26	2,189.23
26 05 19 16-0470	MLF	3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,308.83	2,460.97
26 05 19 16-0471	MLF	3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,283.18	2,736.54
26 05 19 16-0472	MLF	3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,411.12	3,007.18
26 05 19 16-0473	MLF	3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	18,793.40	3,281.24
26 05 19 16-0474	MLF	4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,647.39	2,626.25
26 05 19 16-0475	MLF	4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,081.41	2,898.82
26 05 19 16-0476	MLF	4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,075.30	3,174.66
26 05 19 16-0477	MLF	4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	19,806.66	3,446.53
26 05 19 16-0478	MLF	4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	23,474.01	3,718.13
26 05 19 16-0479		HCFC, Solid <small>(26 05 19 16-0449)</small>		
26 05 19 16-0480	MLF	2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,686.81	1,368.27

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0481 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,134.48	1,537.39
26 05 19 16-0482 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,736.95	1,689.27
26 05 19 16-0483 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,672.77	1,537.39
26 05 19 16-0484 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,089.19	1,689.27
26 05 19 16-0485 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	7,943.61	1,927.20
26 05 19 16-0486 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,955.67	1,689.27
26 05 19 16-0487 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,605.70	1,927.20
26 05 19 16-0488 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,361.65	2,137.92
26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0449)		
26 05 19 16-0490 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,034.98	1,368.27
26 05 19 16-0491 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,511.59	1,537.39
26 05 19 16-0492 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,340.26	1,689.27
26 05 19 16-0493 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,643.98	1,805.15
26 05 19 16-0494 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,098.12	1,913.66
26 05 19 16-0495 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,637.96	1,537.39
26 05 19 16-0496 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,209.21	1,689.27
26 05 19 16-0497 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,505.13	1,927.20
26 05 19 16-0498 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,232.43	2,079.49
26 05 19 16-0499 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,529.37	2,243.00
26 05 19 16-0500 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,601.81	2,408.98
26 05 19 16-0501 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	15,653.97	2,571.94
26 05 19 16-0502 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,328.79	1,689.27
26 05 19 16-0503 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,100.51	1,927.20
26 05 19 16-0504 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,818.18	2,137.92
26 05 19 16-0505 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,679.52	2,355.06
26 05 19 16-0506 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	14,090.12	2,519.80
26 05 19 16-0507 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	18,263.11	2,682.90
26 05 19 16-0508 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	23,275.35	2,844.63
26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0449)		
26 05 19 16-0510 MLF 2 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,007.79	1,368.27
26 05 19 16-0511 MLF 2 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,441.08	1,537.39
26 05 19 16-0512 MLF 2 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,277.90	1,689.27
26 05 19 16-0513 MLF 3 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,751.53	1,537.39
26 05 19 16-0514 MLF 3 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,146.56	1,689.27
26 05 19 16-0515 MLF 3 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	6,455.59	1,927.20
26 05 19 16-0516 MLF 4 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,868.73	1,689.27
26 05 19 16-0517 MLF 4 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	6,491.84	1,927.20
26 05 19 16-0518 MLF 4 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	8,818.18	2,137.92
26 05 19 16-0519 FPLP Solid TFN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0520 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	3,963.24	1,039.89
26 05 19 16-0521 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,511.87	1,204.08
26 05 19 16-0522 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	5,533.01	1,368.27
26 05 19 16-0523 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	6,328.51	1,532.46
26 05 19 16-0524 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	4,520.87	1,204.08
26 05 19 16-0525 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	5,317.20	1,368.27
26 05 19 16-0526 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	6,587.65	1,532.46
26 05 19 16-0527 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	7,471.45	1,696.65
26 05 19 16-0528 FPLP Solid THHN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0529 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable.....	5,036.81	1,368.27
26 05 19 16-0530 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable.....	6,174.01	1,532.46
26 05 19 16-0531 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable.....	8,049.40	1,696.65
26 05 19 16-0532 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable.....	9,281.43	1,860.84
26 05 19 16-0533 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable.....	6,260.66	1,532.46
26 05 19 16-0534 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable.....	7,574.45	1,696.65
26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0536 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	4,257.53	1,039.89
26 05 19 16-0537 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,757.68	1,532.46
26 05 19 16-0538 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	5,200.18	1,204.08
26 05 19 16-0539 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable.....	6,116.68	1,368.27
26 05 19 16-0540 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	8,406.63	1,696.65
26 05 19 16-0541 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,097.37	1,423.00
26 05 19 16-0542 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	7,476.86	1,641.93
26 05 19 16-0543 Armored Cable Connectors (26 05 19 16-0449)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0544 EA 3/4" Armored Cable Connector.....	8.11	3.00
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.25	
26 05 19 16-0545 EA 1" Armored Cable Connector.....	10.82	4.00
For Work In Restricted Working Space, Add	3.00	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.00	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....	13.58	5.00
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.75	
26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0309)		
26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,091.87	200.40
For EPR Insulation, Add	51.27	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	119.62	
26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,223.52	221.90
For EPR Insulation, Add	52.26	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	121.94	
26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,508.79	277.41
For EPR Insulation, Add	76.30	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	178.03	
26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,086.41	441.30
For EPR Insulation, Add	125.44	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	292.69	
26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,905.41	529.56
For EPR Insulation, Add	210.78	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	491.83	
26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,001.17	614.82
For EPR Insulation, Add	318.89	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	744.08	
26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,568.50	703.71
For EPR Insulation, Add	366.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	855.13	
26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,828.11	792.59
For EPR Insulation, Add	517.92	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,208.49	
26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,290.65	882.74
For EPR Insulation, Add	699.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,632.86	
26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,827.05	995.87
For EPR Insulation, Add	874.00	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,039.34	
26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,699.67	1,104.38
For EPR Insulation, Add	1,098.64	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,563.49	
26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,903.02	1,232.90
For EPR Insulation, Add	1,372.88	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,203.39	
26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,577.68	1,370.79
For EPR Insulation, Add	1,567.83	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,658.26	
26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,500.25	1,503.43
For EPR Insulation, Add	1,649.96	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,849.90	
26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,386.94	1,652.71
For EPR Insulation, Add	2,026.70	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,728.97	
26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,552.83	1,752.09
For EPR Insulation, Add	2,295.33	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,355.76	
26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,084.72	1,958.25
For EPR Insulation, Add	2,618.85	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	6,110.66	

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	26,473.13	2,177.89
For EPR Insulation, Add	3,070.86	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,165.34	
26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	31,112.51	2,265.91
For EPR Insulation, Add	3,691.76	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	8,614.10	
26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	51,202.26	2,353.79
For EPR Insulation, Add	6,592.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	15,382.98	
26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	64,776.30	2,515.06
For EPR Insulation, Add	8,553.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	19,958.87	
26 05 19 16-0569 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,912.63	449.80
26 05 19 16-0570 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,419.89	500.06
26 05 19 16-0571 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,049.56	600.57
26 05 19 16-0572 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,620.54	699.83
26 05 19 16-0573 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,525.54	749.35
26 05 19 16-0574 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	596.29	250.03
26 05 19 16-0575 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	743.52	275.04
26 05 19 16-0576 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	792.33	200.52
26 05 19 16-0577 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	989.38	239.03
26 05 19 16-0578 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,234.61	300.67
26 05 19 16-0579 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,750.85	396.30
26 05 19 16-0580 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,409.72	478.56
26 05 19 16-0581 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,219.62	565.57
26 05 19 16-0582 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,860.04	640.20
26 05 19 16-0583 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,634.42	716.96
26 05 19 16-0584 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,548.46	809.10
26 05 19 16-0585 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,457.14	885.98
26 05 19 16-0586 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,350.30	979.12
26 05 19 16-0587 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,776.25	1,035.63
26 05 19 16-0588 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,502.03	1,165.14
26 05 19 16-0589 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,374.56	1,239.53
26 05 19 16-0590 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,328.42	1,403.80
26 05 19 16-0591 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,433.63	1,553.56
26 05 19 16-0592 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,462.48	1,596.07
26 05 19 16-0593 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	22,027.86	1,688.58
26 05 19 16-0594 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,465.71	1,987.12
26 05 19 16-0595 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	42,510.55	2,353.79
26 05 19 16-0596 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	50,991.50	2,841.85
26 05 19 16-0597 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,175.96	600.57
26 05 19 16-0598 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,466.44	699.83
26 05 19 16-0599 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,841.89	800.72
26 05 19 16-0600 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,490.84	899.73
26 05 19 16-0601 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,926.95	1,000.12
26 05 19 16-0602 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,754.23	1,099.13

26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0309)

26 05 19 16-0604 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,123.07	358.42
26 05 19 16-0605 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,321.75	416.77
26 05 19 16-0606 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,717.23	534.99
26 05 19 16-0607 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,049.70	597.41
26 05 19 16-0608 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,350.25	673.07
26 05 19 16-0609 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,646.00	742.88
26 05 19 16-0610 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,075.97	838.39
26 05 19 16-0611 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,401.33	924.96
26 05 19 16-0612 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,871.41	1,016.83
26 05 19 16-0613 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,600.65	1,105.79
26 05 19 16-0614 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,853.42	1,194.72
26 05 19 16-0615 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,504.41	1,328.85
26 05 19 16-0616 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,064.47	1,462.94
26 05 19 16-0617 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	7,310.14	1,704.16
26 05 19 16-0618 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,191.37	1,868.24
26 05 19 16-0619 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,400.24	1,937.49
26 05 19 16-0620 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	11,170.90	2,350.29
26 05 19 16-0621 MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,341.34	443.93
26 05 19 16-0622 MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,509.52	500.06
26 05 19 16-0623 MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,857.65	615.20
26 05 19 16-0624 MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,319.31	754.10
26 05 19 16-0625 MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,854.88	887.74
26 05 19 16-0626 MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,264.00	1,000.50
26 05 19 16-0627 MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,679.46	1,111.26
26 05 19 16-0628 MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,150.69	1,212.40
26 05 19 16-0629 MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,469.92	1,290.28
26 05 19 16-0630 MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,970.19	1,380.55
26 05 19 16-0631 MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,796.88	1,479.56
26 05 19 16-0632 MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,128.36	1,598.33
26 05 19 16-0633 MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,850.77	1,742.96
26 05 19 16-0634 MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	7,750.89	2,000.25
26 05 19 16-0635 MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,747.31	2,105.01
26 05 19 16-0636 MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	9,570.98	2,219.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0637 MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	9,960.24	2,358.55
26 05 19 16-0638 MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,313.50	3,305.41
26 05 19 16-0639 MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,579.16	500.06
26 05 19 16-0640 MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,960.55	615.07
26 05 19 16-0641 MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,433.00	755.09
26 05 19 16-0642 MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,986.93	882.74
26 05 19 16-0643 MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,373.24	995.87
26 05 19 16-0644 MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,795.02	1,104.38
26 05 19 16-0645 MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,328.30	1,212.40
26 05 19 16-0646 MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,692.19	1,290.28
26 05 19 16-0647 MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,235.25	1,379.67
26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,147.62	1,481.43
26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,539.24	1,600.45
26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,205.21	1,738.96
26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,290.69	2,000.25
26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,920.49	2,099.38
26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,192.00	2,219.27
26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,635.13	2,351.42
26 05 19 16-0655 Non-Metallic Sheathed Cable <small>(26 05 19 16-0309)</small>		
26 05 19 16-0656 Indoor Installation <small>(26 05 19 16-0655)</small>		
<i>Note: For NM, NM-B, NMC-B and NMS-B.</i>		
26 05 19 16-0657 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,627.38	950.00
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>356.24</i>	
26 05 19 16-0658 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,221.58	1,150.14
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>431.32</i>	
26 05 19 16-0659 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,988.80	1,272.65
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>477.25</i>	
26 05 19 16-0660 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,998.59	1,080.13
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>384.42</i>	
26 05 19 16-0661 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,823.36	1,199.90
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>449.98</i>	
26 05 19 16-0662 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,624.01	1,340.16
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>502.56</i>	
26 05 19 16-0663 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,602.63	1,200.52
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>450.21</i>	
26 05 19 16-0664 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,812.90	1,400.42
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>525.16</i>	
26 05 19 16-0665 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,613.95	1,600.20
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>600.07</i>	
26 05 19 16-0666 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,181.69	1,437.67
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>511.94</i>	
26 05 19 16-0667 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,451.33	1,737.72
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>618.83</i>	
26 05 19 16-0668 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,364.86	1,637.70
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>581.32</i>	
26 05 19 16-0669 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	8,151.15	1,975.24
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>703.21</i>	
26 05 19 16-0670 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	14,788.65	2,175.26
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>773.53</i>	
26 05 19 16-0671 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	16,974.16	2,362.80
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>843.85</i>	
26 05 19 16-0672 Direct Burial Cable <small>(26 05 19 16-0655)</small>		
<i>Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.</i>		
26 05 19 16-0673 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,952.35	
26 05 19 16-0674 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,900.13	
26 05 19 16-0675 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,778.09	
26 05 19 16-0676 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,013.39	
26 05 19 16-0677 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,193.93	
26 05 19 16-0678 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,237.83	
26 05 19 16-0679 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,941.00	
26 05 19 16-0680 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,977.47	
26 05 19 16-0681 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,869.32	
26 05 19 16-0682 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	11,886.93	
26 05 19 16-0683 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0684 MLF 12-12-12 Cable SEU Copper	4,094.88	1,204.49
26 05 19 16-0685 MLF 10-10-10 Cable SEU Copper	5,358.00	1,368.27
26 05 19 16-0686 MLF 8-8-8 Cable SEU Copper	6,927.18	1,532.19
26 05 19 16-0687 MLF 6-6-8 Cable SEU Copper	8,683.91	1,642.61
26 05 19 16-0688 MLF 6-6-6 Cable SEU Copper	9,447.77	1,697.61
26 05 19 16-0689 MLF 4-4-6 Cable SEU Copper	11,836.09	1,861.54

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0690 MLF 4-4-4 Cable SEU Copper	12,891.13	1,916.40
26 05 19 16-0691 MLF 3-3-5 Cable SEU Copper	15,243.31	2,079.49
26 05 19 16-0692 MLF 3-3-3 Cable SEU Copper	16,221.05	2,189.23
26 05 19 16-0693 MLF 2-2-4 Cable SEU Copper	17,388.74	2,299.65
26 05 19 16-0694 MLF 2-2-2 Cable SEU Copper	18,667.71	2,408.98
26 05 19 16-0695 MLF 1-1-1 Cable SEU Copper	23,178.27	2,736.54
26 05 19 16-0696 MLF 1/0-1/0-1/0 Cable SEU Copper	27,876.33	3,067.94
26 05 19 16-0697 MLF 2/0-2/0-2/0 Cable SEU Copper	33,939.10	3,455.29
26 05 19 16-0698 MLF 3/0-3/0-3/0 Cable SEU Copper	41,319.21	3,843.47
26 05 19 16-0699 MLF 4/0-4/0-4/0 Cable SEU Copper	46,185.82	4,289.25
26 05 19 16-0700 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0655)		
26 05 19 16-0701 MLF 8-8-8 Cable SEU Aluminum	4,388.23	1,537.39
26 05 19 16-0702 MLF 6-6-6 Cable SEU Aluminum	4,923.46	1,689.27
26 05 19 16-0703 MLF 4-4-6 Cable SEU Aluminum	5,469.36	1,849.08
26 05 19 16-0704 MLF 4-4-4 Cable SEU Aluminum	5,715.85	1,927.20
26 05 19 16-0705 MLF 2-2-4 Cable SEU Aluminum	6,807.29	2,280.50
26 05 19 16-0706 MLF 2-2-2 Cable SEU Aluminum	7,200.86	2,400.49
26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum	8,467.09	2,736.54
26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum	8,942.73	2,880.62
26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum	10,297.04	3,040.56
26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum	10,103.64	3,257.85
26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum	10,647.59	3,420.68
26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum	11,419.55	3,581.85
26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum	12,178.21	3,800.78
26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum	12,976.87	4,108.92
26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum	13,626.17	4,275.84
26 05 19 16-0716 SER Cable Copper, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0717 MLF 6-6-6-6 Cable SER Copper	13,718.10	1,971.54
26 05 19 16-0718 MLF 4-4-4-6 Cable SER Copper	15,064.15	2,134.64
26 05 19 16-0719 MLF 3-3-3-5 Cable SER Copper	18,853.52	2,408.98
26 05 19 16-0720 MLF 2-2-2-4 Cable SER Copper	21,687.15	2,626.25
26 05 19 16-0721 MLF 1-1-1-3 Cable SER Copper	25,319.36	3,007.18
26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper	31,007.37	3,446.53
26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper	39,320.21	3,718.13
26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper	45,523.38	4,158.85
26 05 19 16-0725 SER Cable Aluminum, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0726 MLF 8-8-8-8 Cable SER Aluminum	5,697.32	1,840.18
26 05 19 16-0727 MLF 6-6-6-6 Cable SER Aluminum	6,185.98	1,971.54
26 05 19 16-0728 MLF 4-4-4-6 Cable SER Aluminum	6,871.35	2,134.64
26 05 19 16-0729 MLF 2-2-2-4 Cable SER Aluminum	8,609.77	2,626.25
26 05 19 16-0730 MLF 1-1-1-3 Cable SER Aluminum	10,252.15	3,007.18
26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum	11,618.21	3,446.53
26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum	12,898.05	3,718.13
26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum	14,629.84	4,158.85
26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum	16,548.56	4,634.19
26 05 19 16-0735 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0736 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable	1,209.46	606.45
<i>For Work In Restricted Working Space, Add</i>		
	303.23	
26 05 19 16-0737 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable	1,386.12	678.39
<i>For Work In Restricted Working Space, Add</i>		
	339.19	
26 05 19 16-0738 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable	1,438.17	678.34
<i>For Work In Restricted Working Space, Add</i>		
	339.19	
26 05 19 16-0739 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable	1,801.28	850.83
<i>For Work In Restricted Working Space, Add</i>		
	425.42	
26 05 19 16-0740 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable	2,253.19	1,036.81
<i>For Work In Restricted Working Space, Add</i>		
	518.41	
26 05 19 16-0741 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable	2,553.14	1,140.14
<i>For Work In Restricted Working Space, Add</i>		
	570.07	
26 05 19 16-0742 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable	3,010.76	1,295.48
<i>For Work In Restricted Working Space, Add</i>		
	647.74	
26 05 19 16-0743 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable	3,784.03	1,583.44
<i>For Work In Restricted Working Space, Add</i>		
	791.72	
26 05 19 16-0744 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable	4,289.01	1,727.47
<i>For Work In Restricted Working Space, Add</i>		
	863.73	
26 05 19 16-0745 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable	4,965.69	1,781.47
<i>For Work In Restricted Working Space, Add</i>		
	890.74	
26 05 19 16-0746 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable	6,107.92	2,225.53
<i>For Work In Restricted Working Space, Add</i>		
	1,112.76	
26 05 19 16-0747 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable	7,296.64	2,600.94
<i>For Work In Restricted Working Space, Add</i>		
	1,300.47	
26 05 19 16-0748 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable	1,312.27	638.83
<i>For Work In Restricted Working Space, Add</i>		
	319.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0749 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,509.51 357.05	714.09
26 05 19 16-0750 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,754.58 411.05	822.10
26 05 19 16-0751 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,971.72 447.81	895.61
26 05 19 16-0752 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,475.42 545.69	1,091.39
26 05 19 16-0753 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,816.38 600.08	1,200.15
26 05 19 16-0754 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,337.30 681.83	1,363.67
26 05 19 16-0755 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,209.03 833.35	1,666.71
26 05 19 16-0756 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,792.75 909.11	1,818.22
26 05 19 16-0757 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,621.09 937.61	1,875.23
26 05 19 16-0758 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,960.63 1,171.27	2,342.54
26 05 19 16-0759 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,265.22 1,368.92	2,737.84
26 05 19 16-0760 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,413.00 333.42	666.83
26 05 19 16-0761 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,670.04 375.05	750.10
26 05 19 16-0762 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,949.35 428.68	857.36
26 05 19 16-0763 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,177.65 461.68	923.37
26 05 19 16-0764 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,862.29 565.94	1,131.89
26 05 19 16-0765 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,278.64 625.20	1,250.15
26 05 19 16-0766 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,969.38 697.59	1,395.17
26 05 19 16-0767 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,741.29 833.35	1,666.46
26 05 19 16-0768 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,673.98 968.00	1,936.49
26 05 19 16-0769 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,015.08 1,132.26	2,264.03
26 05 19 16-0770 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,114.69 1,265.03	2,530.06
26 05 19 16-0771 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,740.92 1,478.43	2,956.86
26 05 19 16-0772 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,621.87 357.05	714.09
26 05 19 16-0773 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,913.72 394.92	790.10
26 05 19 16-0774 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,307.67 454.56	909.12
26 05 19 16-0775 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,588.51 483.81	967.62
26 05 19 16-0776 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,365.76 576.82	1,153.65
26 05 19 16-0777 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,129.78 681.83	1,363.67
26 05 19 16-0778 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,976.98 769.22	1,538.44
26 05 19 16-0779 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,898.62 882.49	1,764.97
26 05 19 16-0780 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,941.70 1,000.25	2,000.50
26 05 19 16-0781 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,805.35 1,169.02	2,338.04
26 05 19 16-0782 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,206.29 1,366.29	2,732.59
26 05 19 16-0783 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,301.73 1,596.95	3,193.89
26 05 19 16-0784 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,894.78 375.05	750.10
26 05 19 16-0785 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,322.32 411.05	822.60
26 05 19 16-0786 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,804.64 468.81	937.62
26 05 19 16-0787 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,232.85 508.56	1,017.13
26 05 19 16-0788 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,339.61 638.33	1,276.66
26 05 19 16-0789 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,113.82 714.47	1,428.92
26 05 19 16-0790 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,959.57 833.35	1,666.71

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0791 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,020.75 953.00	1,905.99
26 05 19 16-0792 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,290.24 1,080.13	2,160.27
26 05 19 16-0793 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,589.23 1,262.41	2,524.81
26 05 19 16-0794 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,265.67 1,475.43	2,950.87
26 05 19 16-0795 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	14,821.61 1,724.84	3,449.68
26 05 19 16-0796 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0797 ACSR Cable (26 05 19 16-0796)		
26 05 19 16-0798 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,689.77	613.56
26 05 19 16-0799 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,768.86	637.08
26 05 19 16-0800 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,862.75	661.61
26 05 19 16-0801 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,942.65	685.57
26 05 19 16-0802 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,065.25	708.82
26 05 19 16-0803 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,366.07	803.52
26 05 19 16-0804 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,676.59	896.09
26 05 19 16-0805 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,005.20	989.94
26 05 19 16-0806 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	3,723.26	1,272.18
26 05 19 16-0807 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	4,257.05	1,459.32
26 05 19 16-0808 All Aluminum Conductors (26 05 19 16-0796)		
26 05 19 16-0809 MLF 795.0 ACSR Conductor Aluminum.....	32,001.65	11,950.15
26 05 19 16-0810 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0811 Bare Stranded Conductor (26 05 19 16-0810)		
26 05 19 16-0812 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,548.34	519.84
26 05 19 16-0813 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,815.99	566.63
26 05 19 16-0814 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,085.15	613.98
26 05 19 16-0815 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,558.50	661.61
26 05 19 16-0816 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,115.07	709.39
26 05 19 16-0817 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,468.73	850.86
26 05 19 16-0818 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,136.70	945.13
26 05 19 16-0819 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,863.62	1,037.71
26 05 19 16-0820 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,870.87	1,230.79
26 05 19 16-0821 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,554.70	1,415.08
26 05 19 16-0822 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,251.58	1,603.77
26 05 19 16-0823 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,982.66	1,890.13
26 05 19 16-0824 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,277.91	1,989.65
26 05 19 16-0825 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,595.23	2,083.64
26 05 19 16-0826 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	18,345.20	2,169.12
26 05 19 16-0827 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	21,398.60	2,261.69
26 05 19 16-0828 Insulated Stranded Conductor (26 05 19 16-0810)		
26 05 19 16-0829 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,675.90	519.84
26 05 19 16-0830 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,980.58	566.63
26 05 19 16-0831 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,410.06	613.98
26 05 19 16-0832 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,620.01	661.61
26 05 19 16-0833 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,208.90	709.39
26 05 19 16-0834 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,333.22	850.86
26 05 19 16-0835 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,123.17	945.13
26 05 19 16-0836 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,052.30	1,037.71
26 05 19 16-0837 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,291.46	1,230.79
26 05 19 16-0838 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,747.06	1,415.08
26 05 19 16-0839 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	10,314.58	1,603.77
26 05 19 16-0840 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,597.16	1,890.13
26 05 19 16-0841 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,298.32	1,989.65
26 05 19 16-0842 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,684.98	2,083.64
26 05 19 16-0843 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,590.48	2,169.12
26 05 19 16-0844 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	19,793.35	2,261.69
26 05 19 16-0845 Bare Solid Conductor (26 05 19 16-0810)		
26 05 19 16-0846 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,548.34	519.84
26 05 19 16-0847 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,085.15	613.98
26 05 19 16-0848 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,558.50	661.61
26 05 19 16-0849 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	3,076.30	709.39

26 05 23 Control-Voltage Electrical Power Cables (26 05)



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0001	Cable For HVAC System Controls (26 05 23)			
26 05 23 00-0002	Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)			
	Note: For surface or conduit installation.			
26 05 23 00-0003	MLF #20/2 Conductor, Low Volt Thermostat Cable	539.28	159.40	
26 05 23 00-0004	MLF #20/3 Conductor, Low Volt Thermostat Cable	615.05	167.90	
26 05 23 00-0005	MLF #20/4 Conductor, Low Volt Thermostat Cable	666.42	177.52	
26 05 23 00-0006	MLF #20/5 Conductor, Low Volt Thermostat Cable	797.27	185.03	
26 05 23 00-0007	MLF #20/6 Conductor, Low Volt Thermostat Cable	835.69	193.78	
26 05 23 00-0008	MLF #20/7 Conductor, Low Volt Thermostat Cable	919.20	201.83	
26 05 23 00-0009	MLF #20/8 Conductor, Low Volt Thermostat Cable	991.78	209.90	
26 05 23 00-0010	MLF #20/9 Conductor, Low Volt Thermostat Cable	1,076.37	218.28	
26 05 23 00-0011	MLF #20/10 Conductor, Low Volt Thermostat Cable	1,157.57	224.83	
26 05 23 00-0012	MLF #18/2 Conductor, Low Volt Thermostat Cable	585.07	159.40	
26 05 23 00-0013	MLF #18/3 Conductor, Low Volt Thermostat Cable	696.74	167.90	
26 05 23 00-0014	MLF #18/4 Conductor, Low Volt Thermostat Cable	796.02	177.52	
26 05 23 00-0015	MLF #18/5 Conductor, Low Volt Thermostat Cable	850.77	185.03	
26 05 23 00-0016	MLF #18/6 Conductor, Low Volt Thermostat Cable	943.16	193.78	
26 05 23 00-0017	MLF #18/7 Conductor, Low Volt Thermostat Cable	968.55	201.83	
26 05 23 00-0018	MLF #18/8 Conductor, Low Volt Thermostat Cable	1,067.09	209.90	
26 05 23 00-0019	MLF #18/9 Conductor, Low Volt Thermostat Cable	1,257.05	218.28	
26 05 23 00-0020	MLF #18/10 Conductor, Low Volt Thermostat Cable	1,380.43	224.83	
26 05 26	Grounding and Bonding for Electrical Systems (26 05)			
26 05 26 00-0001	Conductors, Straps And Conduit Jumpers (26 05 26)			
26 05 26 00-0002	Single Conductor (26 05 26 00-0001)			
26 05 26 00-0003	Copper Bare Stranded Conductors (26 05 26 00-0002)			
26 05 26 00-0004	MLF 12 AWG Copper Bare Single Stranded Conductor	680.84	242.62	
26 05 26 00-0005	MLF 10 AWG Copper Bare Single Stranded Conductor	912.78	242.62	
26 05 26 00-0006	MLF 8 AWG Copper Bare Single Stranded Conductor	1,145.71	292.26	
26 05 26 00-0007	MLF 6 AWG Copper Bare Single Stranded Conductor	1,602.01	292.26	
26 05 26 00-0008	MLF 4 AWG Copper Bare Single Stranded Conductor	2,173.88	352.91	
26 05 26 00-0009	MLF 2 AWG Copper Bare Single Stranded Conductor	3,460.13	352.91	
26 05 26 00-0010	MLF 1 AWG Copper Bare Single Stranded Conductor	4,015.38	424.60	
26 05 26 00-0011	MLF 1/0 AWG Copper Bare Single Stranded Conductor	4,713.75	424.60	
26 05 26 00-0012	MLF 2/0 AWG Copper Bare Single Stranded Conductor	6,642.89	534.88	
26 05 26 00-0013	MLF 3/0 AWG Copper Bare Single Stranded Conductor	8,208.38	534.88	
26 05 26 00-0014	MLF 4/0 AWG Copper Bare Single Stranded Conductor	8,684.33	711.34	
26 05 26 00-0015	MLF 250 MCM Copper Bare Single Stranded Conductor	11,192.73	711.34	
26 05 26 00-0016	MLF 300 MCM Copper Bare Single Stranded Conductor	11,212.64	821.63	
26 05 26 00-0017	MLF 350 MCM Copper Bare Single Stranded Conductor	15,175.44	821.63	
26 05 26 00-0018	MLF 500 MCM Copper Bare Single Stranded Conductor	20,757.33	1,014.63	
26 05 26 00-0019	Copper Insulated Single Stranded Conductors (26 05 26 00-0002)			
26 05 26 00-0020	MLF 12 AWG Copper Insulated Single Stranded Conductor	1,323.10	330.86	
26 05 26 00-0021	MLF 10 AWG Copper Insulated Single Stranded Conductor	1,395.38	330.86	
26 05 26 00-0022	MLF 8 AWG Copper Insulated Single Stranded Conductor	1,802.32	330.86	
26 05 26 00-0023	MLF 6 AWG Copper Insulated Single Stranded Conductor	2,032.31	573.48	
26 05 26 00-0024	MLF 4 AWG Copper Insulated Single Stranded Conductor	2,775.05	573.48	
26 05 26 00-0025	MLF 2 AWG Copper Insulated Single Stranded Conductor	3,955.14	573.48	
26 05 26 00-0026	MLF 1 AWG Copper Insulated Single Stranded Conductor	4,799.93	1,003.59	
26 05 26 00-0027	MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,875.56	1,003.59	
26 05 26 00-0028	MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,916.72	1,003.59	
26 05 26 00-0029	MLF 3/0 AWG Copper Insulated Single Stranded Conductor	8,275.18	1,003.59	
26 05 26 00-0030	MLF 4/0 AWG Copper Insulated Single Stranded Conductor	9,791.32	1,312.39	
26 05 26 00-0031	MLF 250 MCM Copper Insulated Single Stranded Conductor	11,886.11	1,312.39	
26 05 26 00-0032	MLF 300 MCM Copper Insulated Single Stranded Conductor	13,877.85	1,312.39	
26 05 26 00-0033	MLF 350 MCM Copper Insulated Single Stranded Conductor	16,171.36	2,040.28	
26 05 26 00-0034	MLF 500 MCM Copper Insulated Single Stranded Conductor	21,208.25	2,040.28	
26 05 26 00-0035	Copper Bare Single Solid Conductors (26 05 26 00-0002)			
26 05 26 00-0036	MLF 12 AWG Copper Bare Single Solid Conductor	680.84	242.62	
26 05 26 00-0037	MLF 10 AWG Copper Bare Single Solid Conductor	912.78	242.62	
26 05 26 00-0038	MLF 8 AWG Copper Bare Single Solid Conductor	1,145.71	292.26	
26 05 26 00-0039	MLF 6 AWG Copper Bare Single Solid Conductor	1,602.01	292.26	
26 05 26 00-0040	MLF 4 AWG Copper Bare Single Solid Conductor	2,173.88	352.91	
26 05 26 00-0041	MLF 2 AWG Copper Bare Single Solid Conductor	3,460.13	352.91	
26 05 26 00-0042	MLF 1/0 AWG Copper Bare Single Solid Conductor	4,713.75	424.60	
26 05 26 00-0043	MLF 4/0 AWG Copper Bare Single Solid Conductor	8,684.33	562.45	
26 05 26 00-0044	Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)			
26 05 26 00-0045	MLF 8 AWG Aluminum Bare Single Stranded Conductor	644.45	292.26	
26 05 26 00-0046	MLF 6 AWG Aluminum Bare Single Stranded Conductor	696.42	292.26	
26 05 26 00-0047	MLF 4 AWG Aluminum Bare Single Stranded Conductor	776.11	352.91	

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor.....	934.30	352.91
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor.....	1,039.98	424.60
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor.....	1,190.57	424.60
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor.....	1,349.76	534.88
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor.....	1,530.84	534.88
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor.....	1,830.72	711.34
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor.....	2,023.57	711.34
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor.....	2,319.99	821.63
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor.....	2,579.54	821.63
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor.....	3,056.00	1,014.63
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor.....	644.45	292.26
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor.....	696.42	292.26
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor.....	776.11	352.91
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor.....	934.30	352.91
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor.....	995.47	562.45
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor.....	1,190.57	562.45
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor.....	1,239.51	534.88
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor.....	1,308.83	534.88
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor.....	1,830.72	711.34
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor.....	2,023.57	711.34
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor.....	2,319.99	821.63
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor.....	2,579.54	821.63
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor.....	3,056.00	1,014.63
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.02	0.94
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.34	1.04
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.94	1.19
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.98	1.22
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	4.17	1.27
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	135.10	34.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	20.52	
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	223.81	41.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	24.63	
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	280.54	41.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	24.63	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	336.51	41.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	24.63	
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	299.27	44.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	30.79	
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	380.89	44.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	30.79	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	451.82	44.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	30.79	
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	384.19	56.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	33.86	
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	462.30	68.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	41.05	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	193.42	75.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	42.76	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	238.25	75.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	52.63	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	336.36	116.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	62.20	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	483.65	116.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	76.02	
26 05 26 00-0093 Ground Rods (26 05 26)		
26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	113.21	102.62
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	117.54	102.62
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	135.05	102.62
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	132.98	102.62
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	138.40	102.62
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	160.28	102.62
26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	302.15	102.62
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	370.91	102.62
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	549.93	102.62
26 05 26 00-0105 Ground Access Wells <small>(26 05 26 00-0093)</small>		
26 05 26 00-0106 Precast Ground Access Wells <small>(26 05 26 00-0105)</small>		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	240.57	
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	250.03	
26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	707.07	
26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	716.53	
26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	667.42	
26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	788.72	
26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,491.40	
26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	636.56	
26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	750.85	
26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,428.89	
26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	345.13	
26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	368.93	
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	390.41	
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover.....	258.81	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover.....	393.81	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	713.92	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	957.86	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	567.74	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	838.38	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	896.04	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	1,091.57	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	468.73	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	840.92	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	906.62	
26 05 26 00-0132 Polymer Concrete Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well.....	447.40	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well.....	490.26	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well.....	492.63	
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well.....	539.74	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well.....	539.55	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well.....	591.35	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well.....	717.79	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well.....	788.35	
26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	166.16	
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	230.78	
26 05 26 00-0144 Ground Rod Clamps And Fittings <small>(26 05 26)</small>		
26 05 26 00-0145 Bronze Ground Rod Clamp <small>(26 05 26 00-0144)</small>		
26 05 26 00-0146 EA 1/2" Bronze Ground Rod Clamp.....	26.66	15.46
26 05 26 00-0147 EA 5/8" Bronze Ground Rod Clamp.....	27.76	15.46

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0148 EA 3/4" Bronze Ground Rod Clamp	29.31	15.46
26 05 26 00-0149 Bronze Pipe Clamps (26 05 26 00-0144)		
26 05 26 00-0150 EA 1/2" To 1" Bronze Pipe Ground Clamps	36.43	25.72
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	45.96	30.79
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	66.33	35.99
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	81.61	46.25
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe	124.10	66.77
26 05 26 00-0155 Grounding Fittings (26 05 26 00-0144)		
26 05 26 00-0156 Embedded Fittings (26 05 26 00-0155)		
26 05 26 00-0157 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	179.36	
26 05 26 00-0158 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	189.26	
26 05 26 00-0159 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded.....	206.84	
26 05 26 00-0160 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	179.64	
26 05 26 00-0161 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	215.28	
26 05 26 00-0162 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	252.36	
26 05 26 00-0163 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	284.03	
26 05 26 00-0164 Ground Rod Receptacle (26 05 26 00-0155)		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle	385.64	142.30
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle.....	402.33	146.31
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle.....	419.46	150.29
26 05 26 00-0168 Ground Kits For Circuit Breaker Panels (26 05 26 00-0155)		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit	87.07	34.21
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit	83.81	34.21
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit	95.40	34.21
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit	94.59	34.21
26 05 26 00-0173 Insulated Grounding Bars (26 05 26 00-0144)		
26 05 26 00-0174 EA 1/2" x 4" x 10" Insulated Ground Bar.....	351.78	34.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	367.87	34.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 05 26 00-0176 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0177 Ground Conductor Bonding (26 05 26 00-0176)		
26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0177)		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	152.76	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	166.44	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	180.12	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	262.21	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0183 Tee, Wye Or Cross Cadweld (26 05 26 00-0177)		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	173.28	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	200.64	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	248.54	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	303.26	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0188 Grounding Equipment (26 05 26)		
26 05 26 00-0189 Special Grounding Equipment (26 05 26 00-0188)		
26 05 26 00-0190 Ground Reels And Ground Bus (26 05 26 00-0189)		
26 05 26 00-0191 EA Ground Reel With 50' Of Galvanized Steel Cable.....	779.58	
26 05 26 00-0192 Copper Bars (26 05 26 00-0189)		
26 05 26 00-0193 LF 1/4" x 2" Copper Bar	45.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0194 Phenolic Insulators <small>(26 05 26 00-0189)</small>		
26 05 26 00-0195 EA 2" x 2" x 1" Long Phenolic Insulators <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.83 8.21	
26 05 26 00-0196 Grounding Studs <small>(26 05 26 00-0189)</small>		
26 05 26 00-0197 EA Ball Grounding Stud..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.60 12.25	
26 05 26 00-0198 Equipment Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0199 EA Switch Rating 30 Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.56 8.21	
26 05 26 00-0200 EA Switch Rating 60 Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.53 9.03	
26 05 26 00-0201 EA Switch Rating 100 Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.43 10.26	
26 05 26 00-0202 EA Switch Rating 200 Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.15 12.32	
26 05 26 00-0203 Panelboard Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0204 EA Panelboard Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.13 10.26	10.26
26 05 26 00-0205 Circuit Breaker Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0206 EA 3 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.72 6.16	6.16
26 05 26 00-0207 EA 4 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.20 6.16	6.16
26 05 26 00-0208 EA 7 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.06 6.16	6.16
26 05 26 00-0209 EA 12 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.36 6.98	6.97
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.33 7.80	7.80
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.62 8.62	8.62
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.09 9.85	9.85
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.17 11.50	11.49
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.02 8.62	8.62
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.87 9.85	9.85
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.12 11.50	11.49
26 05 29 Hangers and Supports for Electrical Systems <small>(26 05)</small>		
26 05 29 00-0001 Metal Framing Channel And Fittings <small>(26 05 29)</small>		
26 05 29 00-0002 Metal Framing Channel <small>(26 05 29 00-0001)</small> Note: Excludes fasteners and accessories.		
26 05 29 00-0003 14 Gauge Metal Framing Channels <small>(26 05 29 00-0002)</small>		
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel <small>(26 05 29 00-0003)</small>		
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	22.52	7.50
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	23.79	7.50
26 05 29 00-0007 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	10.66	2.82
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel <small>(26 05 29 00-0003)</small>		
26 05 29 00-0009 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	38.04	7.50
26 05 29 00-0010 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	41.81	7.50
26 05 29 00-0011 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	54.82	7.50
26 05 29 00-0012 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	62.36	7.50
26 05 29 00-0013 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	26.18	2.83
26 05 29 00-0014 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	29.95	2.83
26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel <small>(26 05 29 00-0003)</small>		
26 05 29 00-0016 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	54.31	7.50
26 05 29 00-0017 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	87.38	7.50
26 05 29 00-0018 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	42.45	2.83

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
26 05 29 00-0019	12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020	12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021 EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	23.74	7.50
26 05 29 00-0022 EA	Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	23.33	7.50
26 05 29 00-0023 EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	23.06	7.50
26 05 29 00-0024 EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	26.24	7.50
26 05 29 00-0025 EA	>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	25.41	7.50
26 05 29 00-0026 EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	24.87	7.50
26 05 29 00-0027 LF	>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	11.88	2.82
26 05 29 00-0028 LF	>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	11.47	2.82
26 05 29 00-0029 LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	11.20	2.82
26 05 29 00-0030	12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031 EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	43.06	7.50
26 05 29 00-0032 EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	49.56	7.50
26 05 29 00-0033 EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	64.86	7.50
26 05 29 00-0034 EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	77.87	7.50
26 05 29 00-0035 LF	>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	31.20	2.82
26 05 29 00-0036 LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	37.70	2.82
26 05 29 00-0037	Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038	Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039	Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040 LF	Steel Raceway Closure Strip, Unistrut Channel Fittings	5.55	0.68
26 05 29 00-0041 EA	Steel End Cap, Unistrut Channel Fittings	15.36	6.85
26 05 29 00-0042	Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043 EA	Stainless Steel End Cap For Unistrut Channel	23.44	6.85
26 05 29 00-0044	Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0045	Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0046 EA	2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	5.88	
26 05 29 00-0047 EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	5.84	
26 05 29 00-0048 EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	6.93	
26 05 29 00-0049	Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0050 EA	2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	18.49	
26 05 29 00-0051 EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	27.33	
26 05 29 00-0052 EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	34.82	
26 05 29 00-0053	90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0054	Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0055 EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	5.71	
26 05 29 00-0056 EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	4.92	
26 05 29 00-0057 EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.88	
26 05 29 00-0058 EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.78	
26 05 29 00-0059	Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0060 EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.74	
26 05 29 00-0061 EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	13.33	
26 05 29 00-0062 EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	11.36	
26 05 29 00-0063 EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	15.99	
26 05 29 00-0064 EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	14.64	
26 05 29 00-0065 EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	26.72	
26 05 29 00-0066 EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	15.38	
26 05 29 00-0067 EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	22.14	
26 05 29 00-0068	60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0069	Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0070 EA	2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	10.90	
26 05 29 00-0071	U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0072	Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0073 EA	3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	4.41	
26 05 29 00-0074 EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	4.82	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0075		Stainless Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0076	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting	21.99	
26 05 29 00-0077		Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0078		Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0079	EA	3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	11.16	
26 05 29 00-0080		Stainless Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0081	EA	3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	42.43	
26 05 29 00-0082		Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0037)</small>		
		Note: Includes hex screw and nut.		
26 05 29 00-0083		Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
		Note: Includes hex screw and nut.		
26 05 29 00-0084	EA	1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.27	2.06
26 05 29 00-0085	EA	3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.29	2.06
26 05 29 00-0086	EA	1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.38	2.06
26 05 29 00-0087	EA	1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.88	2.74
26 05 29 00-0088	EA	1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.35	2.74
26 05 29 00-0089	EA	2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.40	2.74
26 05 29 00-0090	EA	2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.11	3.42
26 05 29 00-0091	EA	3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.53	3.42
26 05 29 00-0092	EA	3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.93	3.42
26 05 29 00-0093	EA	4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.08	3.42
26 05 29 00-0094		304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
		Note: Includes hex screw and nut.		
26 05 29 00-0095	EA	1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.86	2.06
26 05 29 00-0096	EA	3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.84	2.06
26 05 29 00-0097	EA	1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.83	2.06
26 05 29 00-0098	EA	1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.50	2.74
26 05 29 00-0099	EA	1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.24	2.74
26 05 29 00-0100	EA	2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.96	2.74
26 05 29 00-0101	EA	2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.38	3.42
26 05 29 00-0102	EA	3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.82	3.42
26 05 29 00-0103	EA	3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.87	3.42
26 05 29 00-0104	EA	4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	27.74	3.42
26 05 29 00-0105		316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
		Note: Includes hex screw and nut.		
26 05 29 00-0106	EA	1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.46	2.06
26 05 29 00-0107	EA	3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.85	2.06
26 05 29 00-0108	EA	1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.25	2.06
26 05 29 00-0109	EA	1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.69	2.74
26 05 29 00-0110	EA	1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.48	2.74
26 05 29 00-0111	EA	2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.72	2.74
26 05 29 00-0112	EA	2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.23	3.42
26 05 29 00-0113	EA	3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.47	3.42
26 05 29 00-0114	EA	3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	32.30	3.42
26 05 29 00-0115	EA	4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	37.70	3.42
26 05 29 00-0116		Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0117		Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0118	EA	Set Screw Beam Clamp, Steel Unistrut Channel Fitting	37.23	12.50
26 05 29 00-0119	EA	"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	27.83	12.50
26 05 29 00-0120	EA	"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	36.28	12.50
26 05 29 00-0121		304 Stainless Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0122	EA	"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	54.23	12.50
26 05 29 00-0123		Square Washers For Unistrut Channel <small>(26 05 29 00-0037)</small>		
26 05 29 00-0124		Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0125	EA	1/2" Bolt Size, Steel, Square Washer For Unistrut Channel	4.26	

26 Electrical
26 05 Common Work Results for Electrical
26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0126			Stainless Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0127	EA		1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	5.45	
26 05 29 00-0128	EA		1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	6.79	
26 05 29 00-0129			Strut Braces, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0130	EA		16" Diagonal Steel Bar Brace For Unistrut Channel	29.15	
26 05 29 00-0131			Trolley Hangers, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0132	EA		Steel Trolley Track Hanger For Unistrut Channel	36.57	
26 05 29 00-0133			Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.					
26 05 29 00-0134			Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.					
26 05 29 00-0135	EA		1/4-20, Steel Lock Nut With Spring For Unistrut Channel	8.47	
26 05 29 00-0136	EA		3/8-16, Steel Lock Nut With Spring For Unistrut Channel	9.04	
26 05 29 00-0137	EA		1/2-13, Steel Lock Nut With Spring For Unistrut Channel	9.47	
26 05 29 00-0138	EA		5/8-11, Steel Lock Nut With Spring For Unistrut Channel	11.79	
26 05 29 00-0139			Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.					
26 05 29 00-0140	EA		1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.65	
26 05 29 00-0141	EA		3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	15.57	
26 05 29 00-0142	EA		1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	21.88	
26 05 29 00-0143	EA		5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	37.16	
26 05 29 00-0144			Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.					
26 05 29 00-0145			Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
Note: Includes hex bolt.					
26 05 29 00-0146	EA		1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	8.49	
26 05 29 00-0147	EA		3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	9.12	
26 05 29 00-0148	EA		1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	9.50	
26 05 29 00-0149	EA		5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	12.46	
26 05 29 00-0150			Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
Note: Includes hex bolt.					
26 05 29 00-0151	EA		1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.60	
26 05 29 00-0152	EA		3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.71	
26 05 29 00-0153	EA		1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.81	
26 05 29 00-0154	EA		5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	36.21	
26 05 29 00-0155			Mounting Assemblies <small>(26 05 29)</small>		
26 05 29 00-0156			Galvanized Steel Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0157			Galvanized Steel Back Plate <small>(26 05 29 00-0156)</small>		
26 05 29 00-0158	EA		1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	450.21	82.10
26 05 29 00-0159	EA		3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	115.03	27.36
26 05 29 00-0160	EA		3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	290.71	68.41
26 05 29 00-0161			Aluminum Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0162			Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163	EA		3/16" x 2' x 2' Aluminum Back Plate	352.13	102.62
26 05 29 00-0164	EA		3/16" x 4' x 4' Aluminum Back Plate	888.90	102.62
26 05 29 00-0165			Supports <small>(26 05 29)</small>		
26 05 29 00-0166			One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167	EA		1/2", One Hole Steel Conduit Strap	4.82	
For Work In Restricted Working Space, Add				1.31	
For Installation On Concrete (Includes Drilling And Fastener), Add				1.20	
For >50 To 100, Deduct				-0.23	
For >100 To 250, Deduct				-0.46	
For >250 To 500, Deduct				-0.91	
For >500, Deduct				-1.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0168 EA 3/4", One Hole Steel Conduit Strap 4.86		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.91	
<i>For >500, Deduct</i>	-1.36	
26 05 29 00-0169 EA 1", One Hole Steel Conduit Strap 5.08		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.93	
<i>For >500, Deduct</i>	-1.38	
26 05 29 00-0170 EA 1-1/4", One Hole Steel Conduit Strap 5.24		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.40	
26 05 29 00-0171 EA 1-1/2", One Hole Steel Conduit Strap 5.35		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.41	
26 05 29 00-0172 EA 2", One Hole Steel Conduit Strap 6.01		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 250, Deduct</i>	-0.52	
<i>For >250 To 500, Deduct</i>	-1.00	
<i>For >500, Deduct</i>	-1.48	
26 05 29 00-0173 EA 2-1/2", One Hole Steel Conduit Strap 6.69		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.55	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0174 EA 3", One Hole Steel Conduit Strap 6.92		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.57	
<i>For >250 To 500, Deduct</i>	-1.07	
<i>For >500, Deduct</i>	-1.57	
26 05 29 00-0175 EA 3-1/2", One Hole Steel Conduit Strap 8.03		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.15	
<i>For >500, Deduct</i>	-1.68	
26 05 29 00-0176 EA 4", One Hole Steel Conduit Strap 8.92		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100 To 250, Deduct</i>	-0.67	
<i>For >250 To 500, Deduct</i>	-1.22	
<i>For >500, Deduct</i>	-1.77	
26 05 29 00-0177 One Hole Iron Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0178 EA 1/2", One Hole Iron Conduit Strap 4.93		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.92	
<i>For >500, Deduct</i>	-1.37	
26 05 29 00-0179 EA 3/4", One Hole Iron Conduit Strap 5.04		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.93	
<i>For >500, Deduct</i>	-1.38	
26 05 29 00-0180 EA 1", One Hole Iron Conduit Strap 5.23		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0181	EA		1-1/4", One Hole Iron Conduit Strap	5.69	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0182	EA		1-1/2", One Hole Iron Conduit Strap	5.87	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.99	
			<i>For >500, Deduct</i>	-1.46	
26 05 29 00-0183	EA		2", One Hole Iron Conduit Strap	7.04	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500, Deduct</i>	-1.58	
26 05 29 00-0184	EA		2-1/2", One Hole Iron Conduit Strap	9.56	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.26	
			<i>For >500, Deduct</i>	-1.83	
26 05 29 00-0185	EA		3", One Hole Iron Conduit Strap	11.66	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.42	
			<i>For >500, Deduct</i>	-2.04	
26 05 29 00-0186	EA		3-1/2", One Hole Iron Conduit Strap	14.73	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.48	
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-2.35	
26 05 29 00-0187	EA		4", One Hole Iron Conduit Strap	27.01	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.78	
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500, Deduct</i>	-3.58	
26 05 29 00-0188	EA		5", One Hole Iron Conduit Strap	33.61	
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.95	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-3.07	
			<i>For >500, Deduct</i>	-4.24	
26 05 29 00-0189			Two Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0190	EA		1/2", Two Hole Steel Conduit Strap	5.55	
			<i>For Work In Restricted Working Space, Add</i>	1.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.52	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500, Deduct</i>	-1.54	
26 05 29 00-0191	EA		3/4", Two Hole Steel Conduit Strap	5.62	
			<i>For Work In Restricted Working Space, Add</i>	1.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.04	
			<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0192	EA		1", Two Hole Steel Conduit Strap	5.66	
			<i>For Work In Restricted Working Space, Add</i>	1.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.04	
			<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0193	EA		1-1/4", Two Hole Steel Conduit Strap	5.71	
			<i>For Work In Restricted Working Space, Add</i>	1.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.04	
			<i>For >500, Deduct</i>	-1.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap .....5.75		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.53	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.56	
26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap .....5.84		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.54	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.57	
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap .....6.35		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.56	
<i>For >250 To 500, Deduct</i>	-1.09	
<i>For >500, Deduct</i>	-1.62	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap .....6.46		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.57	
<i>For >250 To 500, Deduct</i>	-1.10	
<i>For >500, Deduct</i>	-1.63	
26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap .....6.85		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.13	
<i>For >500, Deduct</i>	-1.67	
26 05 29 00-0199 EA 4", Two Hole Steel Conduit Strap .....7.13		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100 To 250, Deduct</i>	-0.60	
<i>For >250 To 500, Deduct</i>	-1.15	
<i>For >500, Deduct</i>	-1.70	
26 05 29 00-0200 EA 5", Two Hole Steel Conduit Strap .....7.49		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.18	
<i>For >500, Deduct</i>	-1.74	
26 05 29 00-0201 Clamp Back Spacers (26 05 29 00-0165)		
26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer.....4.21		
<i>For Work In Restricted Working Space, Add</i>	1.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.38	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500, Deduct</i>	-1.11	
26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer.....4.47		
<i>For Work In Restricted Working Space, Add</i>	1.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.76	
<i>For >500, Deduct</i>	-1.13	
26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer.....4.70		
<i>For Work In Restricted Working Space, Add</i>	1.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.41	
<i>For >250 To 500, Deduct</i>	-0.78	
<i>For >500, Deduct</i>	-1.15	
26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer .....5.61		
<i>For Work In Restricted Working Space, Add</i>	1.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.45	
<i>For >250 To 500, Deduct</i>	-0.85	
<i>For >500, Deduct</i>	-1.25	
26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer .....6.35		
<i>For Work In Restricted Working Space, Add</i>	1.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.90	
<i>For >500, Deduct</i>	-1.32	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer.....	7.12	
For Work In Restricted Working Space, Add	1.03	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.96	
For >500, Deduct	-1.40	
26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer.....	10.26	
For Work In Restricted Working Space, Add	1.03	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.20	
For >500, Deduct	-1.71	
26 05 29 00-0209 EA 3" Conduit, Clamp Back Spacer.....	14.01	
For Work In Restricted Working Space, Add	1.03	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
For >50 To 100, Deduct	-0.44	
For >100 To 250, Deduct	-0.87	
For >250 To 500, Deduct	-1.48	
For >500, Deduct	-2.09	
26 05 29 00-0210 EA 3-1/2" Conduit, Clamp Back Spacer.....	17.65	
For Work In Restricted Working Space, Add	1.03	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
For >50 To 100, Deduct	-0.53	
For >100 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.45	
26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer.....	34.74	
For Work In Restricted Working Space, Add	1.03	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
For >50 To 100, Deduct	-0.95	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-4.16	
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....	63.60	
For Work In Restricted Working Space, Add	1.03	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
For >50 To 100, Deduct	-1.68	
For >100 To 250, Deduct	-3.35	
For >250 To 500, Deduct	-5.20	
For >500, Deduct	-7.04	
26 05 29 00-0213 Conduit Clips (26 05 29 00-0165)		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip.....	5.31	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.41	
26 05 29 00-0215 EA 3/4" Conduit Clip.....	5.31	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.41	
26 05 29 00-0216 EA 1" Conduit Clip.....	5.24	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.40	
26 05 29 00-0217 EA 1-1/4" Conduit Clip.....	5.42	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.42	
26 05 29 00-0218 Bolt And Nut Conduit Clips (26 05 29 00-0165)		
26 05 29 00-0219 EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	6.60	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.47	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.18	
For >500, Deduct	-1.75	
26 05 29 00-0220 EA 1" Bolt And Nut Conduit Clip (Minerallac 2B).....	6.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.47	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.19	
For >500, Deduct	-1.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0221 EA 1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	7.22	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.55	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.27	
For >500, Deduct	-1.88	
26 05 29 00-0222 EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	7.33	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.55	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.28	
For >500, Deduct	-1.90	
26 05 29 00-0223 EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....	8.02	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.55	
For >50 To 100, Deduct	-0.35	
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.33	
For >500, Deduct	-1.96	
26 05 29 00-0224 EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	8.66	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.64	
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-2.10	
26 05 29 00-0225 EA 3" Bolt And Nut Conduit Clip (Minerallac 7B).....	9.27	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.64	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-2.16	
26 05 29 00-0226 EA 4" Bolt And Nut Conduit Clip (Minerallac 9B).....	15.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.81	
For >50 To 100, Deduct	-0.56	
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.94	
26 05 29 00-0227 Conduit Hanger From Flange, Wire Or Rod <small>(26 05 29 00-0165)</small>		
Note: Bat wing.		
26 05 29 00-0228 EA 1/2", Conduit Hanger From Flange, Wire Or Rod	3.87	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.05	
26 05 29 00-0229 EA 3/4", Conduit Hanger From Flange, Wire Or Rod	3.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.05	
26 05 29 00-0230 EA 1", Conduit Hanger From Flange, Wire Or Rod	4.06	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.06	
26 05 29 00-0231 EA 1-1/4", Conduit Hanger From Flange, Wire Or Rod	4.40	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.10	
26 05 29 00-0232 Beam Flange Clamps <small>(26 05 29 00-0165)</small>		
Note: For threaded rod, nut not required.		
26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	5.36	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.22	
26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	5.27	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.82	
For >500, Deduct	-1.21	
26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	5.80	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.86	
For >500, Deduct	-1.26	
26 05 29 00-0236 T-Bar Support Clips <small>(26 05 29 00-0165)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0237	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	9.19	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500, Deduct</i>	-2.29	
26 05 29 00-0238	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	8.77	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.51	
			<i>For >500, Deduct</i>	-2.25	
26 05 29 00-0239	EA		15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.15	
			<i>For >50 To 100, Deduct</i>	-0.12	
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.45	
			<i>For >500, Deduct</i>	-0.66	
26 05 29 00-0240	EA		24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	23.44	
			<i>For >50 To 100, Deduct</i>	-0.65	
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.89	
26 05 29 00-0241			Switch And Outlet Box Type Supports <small>(26 05 29 00-0165)</small>		
26 05 29 00-0242	EA		1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	6.28	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.81	
			<i>For >500, Deduct</i>	-1.18	
26 05 29 00-0243	EA		1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	5.41	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.09	
26 05 29 00-0244	EA		Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	6.15	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0245	EA		Snap On, Switch And Outlet Box Support (Caddy MSF)	4.16	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0246	EA		1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	4.32	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.67	
			<i>For >500, Deduct</i>	-0.98	
26 05 29 00-0247			Lighting Fixture Hanger <small>(26 05 29 00-0165)</small>		
			Note: For existing or owner furnished fixtures.		
26 05 29 00-0248	EA		Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	6.32	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.16	
			<i>For >500, Deduct</i>	-1.73	
26 05 29 00-0249	PR		Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	19.24	
			<i>For >50 To 100, Deduct</i>	-0.62	
			<i>For >100 To 250, Deduct</i>	-1.24	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-3.02	
26 05 29 00-0250	PR		Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520).....	26.03	
			<i>For >50 To 100, Deduct</i>	-0.79	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.70	
26 05 29 00-0251			Rigid Steel Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252	EA		1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.27	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0253	EA		3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.29	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	1.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.38	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.92	
<i>For >500, Deduct</i>	-1.36	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	6.87	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.20	
<i>For >500, Deduct</i>	-1.78	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.34	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.23	
<i>For >500, Deduct</i>	-1.83	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.39	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.24	
<i>For >500, Deduct</i>	-1.83	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.10	
<i>For >50 To 100, Deduct</i>	-0.40	
<i>For >100 To 250, Deduct</i>	-0.80	
<i>For >250 To 500, Deduct</i>	-1.54	
<i>For >500, Deduct</i>	-2.28	
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.52	
<i>For >50 To 100, Deduct</i>	-0.41	
<i>For >100 To 250, Deduct</i>	-0.82	
<i>For >250 To 500, Deduct</i>	-1.57	
<i>For >500, Deduct</i>	-2.32	
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.92	
<i>For >50 To 100, Deduct</i>	-0.42	
<i>For >100 To 250, Deduct</i>	-0.84	
<i>For >250 To 500, Deduct</i>	-1.60	
<i>For >500, Deduct</i>	-2.36	
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 29 00-0261 EA 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	10.07	
<i>For >50 To 100, Deduct</i>	-0.42	
<i>For >100 To 250, Deduct</i>	-0.85	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-2.38	
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 29 00-0262 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0263 EA 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.58	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.93	
<i>For >500, Deduct</i>	-1.38	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0264 EA 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.54	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.93	
<i>For >500, Deduct</i>	-1.38	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0265 EA 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.50	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.93	
<i>For >500, Deduct</i>	-1.37	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	7.25	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.23	
<i>For >500, Deduct</i>	-1.82	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.07	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100 To 250, Deduct</i>	-0.68	
<i>For >250 To 500, Deduct</i>	-1.29	
<i>For >500, Deduct</i>	-1.90	
<i>For Work In Restricted Working Space, Add</i>	1.64	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0268	EA		2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	8.12	
			<i>For >50 To 100, Deduct</i>	-0.34	
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.29	
			<i>For >500, Deduct</i>	-1.91	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0269			"J" Type Conduit Hangers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270	EA		1/2", "J" Type Conduit Hanger (Unistrut J1205)	23.83	
			<i>For >50 To 100, Deduct</i>	-0.84	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.98	
			<i>For >500, Deduct</i>	-4.30	
			<i>For Work In Restricted Working Space, Add</i>	2.87	
26 05 29 00-0271	EA		3/4", "J" Type Conduit Hanger (Unistrut J1207)	24.08	
			<i>For >50 To 100, Deduct</i>	-0.84	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-3.00	
			<i>For >500, Deduct</i>	-4.32	
			<i>For Work In Restricted Working Space, Add</i>	2.87	
26 05 29 00-0272	EA		1", "J" Type Conduit Hanger (Unistrut J1210)	25.67	
			<i>For >50 To 100, Deduct</i>	-0.92	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-3.29	
			<i>For >500, Deduct</i>	-4.76	
			<i>For Work In Restricted Working Space, Add</i>	3.28	
26 05 29 00-0273	EA		1-1/4", "J" Type Conduit Hanger (Unistrut J1212)	25.94	
			<i>For >50 To 100, Deduct</i>	-0.92	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-3.31	
			<i>For >500, Deduct</i>	-4.78	
			<i>For Work In Restricted Working Space, Add</i>	3.28	
26 05 29 00-0274	EA		1-1/2", "J" Type Conduit Hanger (Unistrut J1215)	27.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-3.60	
			<i>For >500, Deduct</i>	-5.21	
			<i>For Work In Restricted Working Space, Add</i>	3.69	
26 05 29 00-0275	EA		2", "J" Type Conduit Hanger (Unistrut J1220)	28.50	
			<i>For >50 To 100, Deduct</i>	-1.02	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-3.68	
			<i>For >500, Deduct</i>	-5.31	
			<i>For Work In Restricted Working Space, Add</i>	3.69	
26 05 29 00-0276	EA		2-1/2", "J" Type Conduit Hanger (Unistrut J1225)	44.35	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100 To 250, Deduct</i>	-2.90	
			<i>For >250 To 500, Deduct</i>	-5.04	
			<i>For >500, Deduct</i>	-7.17	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
26 05 29 00-0277	EA		3", "J" Type Conduit Hanger (Unistrut J1230)	47.23	
			<i>For >50 To 100, Deduct</i>	-1.56	
			<i>For >100 To 250, Deduct</i>	-3.11	
			<i>For >250 To 500, Deduct</i>	-5.42	
			<i>For >500, Deduct</i>	-7.73	
			<i>For Work In Restricted Working Space, Add</i>	4.52	
26 05 29 00-0278	EA		3-1/2", "J" Type Conduit Hanger (Unistrut J1235)	50.90	
			<i>For >50 To 100, Deduct</i>	-1.68	
			<i>For >100 To 250, Deduct</i>	-3.37	
			<i>For >250 To 500, Deduct</i>	-5.87	
			<i>For >500, Deduct</i>	-8.37	
			<i>For Work In Restricted Working Space, Add</i>	4.93	
26 05 29 00-0279	EA		4", "J" Type Conduit Hanger (Unistrut J1240)	66.59	
			<i>For >50 To 100, Deduct</i>	-2.08	
			<i>For >100 To 250, Deduct</i>	-4.15	
			<i>For >250 To 500, Deduct</i>	-7.05	
			<i>For >500, Deduct</i>	-9.94	
			<i>For Work In Restricted Working Space, Add</i>	4.93	
26 05 29 00-0280	EA		5", "J" Type Conduit Hanger (Unistrut J1250)	73.10	
			<i>For >50 To 100, Deduct</i>	-2.27	
			<i>For >100 To 250, Deduct</i>	-4.54	
			<i>For >250 To 500, Deduct</i>	-7.71	
			<i>For >500, Deduct</i>	-10.87	
			<i>For Work In Restricted Working Space, Add</i>	5.33	
26 05 29 00-0281	EA		6", "J" Type Conduit Hanger (Unistrut J1260)	102.14	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100 To 250, Deduct</i>	-6.13	
			<i>For >250 To 500, Deduct</i>	-10.23	
			<i>For >500, Deduct</i>	-14.32	
			<i>For Work In Restricted Working Space, Add</i>	6.16	
26 05 29 00-0282			Between Studs Box Brackets <small>(26 05 29 00-0165)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	8.73	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.17	
<i>For >500, Deduct</i>	-1.70	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	10.33	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100 To 250, Deduct</i>	-0.72	
<i>For >250 To 500, Deduct</i>	-1.29	
<i>For >500, Deduct</i>	-1.86	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0285 Hangers And Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.34	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.88	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB)	3.26	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.87	
26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO)	3.26	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.87	
26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB)	4.22	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB)	4.23	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0291 EA Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB)	4.13	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.65	
<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0292 EA Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO)	4.22	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0293 EA Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO)	4.23	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0294 Clips And Accessories <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295 EA 1/2" Diameter Center, Bridle Ring (Caddy 2BR)	2.24	
<i>For >50 To 100, Deduct</i>	-0.10	
<i>For >100 To 250, Deduct</i>	-0.20	
<i>For >250 To 500, Deduct</i>	-0.38	
<i>For >500, Deduct</i>	-0.57	
26 05 29 00-0296 EA 3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	2.28	
<i>For >50 To 100, Deduct</i>	-0.10	
<i>For >100 To 250, Deduct</i>	-0.20	
<i>For >250 To 500, Deduct</i>	-0.38	
<i>For >500, Deduct</i>	-0.57	
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	2.42	
<i>For >50 To 100, Deduct</i>	-0.10	
<i>For >100 To 250, Deduct</i>	-0.21	
<i>For >250 To 500, Deduct</i>	-0.40	
<i>For >500, Deduct</i>	-0.58	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32)	2.72	
<i>For >50 To 100, Deduct</i>	-0.11	
<i>For >100 To 250, Deduct</i>	-0.22	
<i>For >250 To 500, Deduct</i>	-0.42	
<i>For >500, Deduct</i>	-0.61	
26 05 29 00-0299 Wire Ties <small>(26 05 29 00-0165)</small>		
Note: Per hundred (C).		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	33.13	
For Up To 0.1, Add	28.55	
For >0.1 To 0.25, Add	14.28	
For >0.25 To 0.75, Add	7.14	
For >2.0, Deduct	-2.86	
For UV Black, Add	0.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	33.31	
For Up To 0.1, Add	28.55	
For >0.1 To 0.25, Add	14.28	
For >0.25 To 0.75, Add	7.14	
For >2.0, Deduct	-2.86	
For UV Black, Add	0.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	33.44	
For Up To 0.1, Add	28.55	
For >0.1 To 0.25, Add	14.28	
For >0.25 To 0.75, Add	7.14	
For >2.0, Deduct	-2.86	
For UV Black, Add	0.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	33.49	
For Up To 0.1, Add	28.55	
For >0.1 To 0.25, Add	14.28	
For >0.25 To 0.75, Add	7.14	
For >2.0, Deduct	-2.86	
For UV Black, Add	0.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	34.78	
For Up To 0.1, Add	29.79	
For >0.1 To 0.25, Add	14.90	
For >0.25 To 0.75, Add	7.45	
For >2.0, Deduct	-2.98	
For UV Black, Add	0.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	40.02	
For Up To 0.1, Add	31.15	
For >0.1 To 0.25, Add	15.58	
For >0.25 To 0.75, Add	7.79	
For >2.0, Deduct	-3.12	
For UV Black, Add	1.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	38.06	
For Up To 0.1, Add	28.55	
For >0.1 To 0.25, Add	14.28	
For >0.25 To 0.75, Add	7.14	
For >2.0, Deduct	-2.86	
For UV Black, Add	1.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	39.37	
For Up To 0.1, Add	29.79	
For >0.1 To 0.25, Add	14.90	
For >0.25 To 0.75, Add	7.45	
For >2.0, Deduct	-2.98	
For UV Black, Add	1.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	40.78	
For Up To 0.1, Add	31.15	
For >0.1 To 0.25, Add	15.58	
For >0.25 To 0.75, Add	7.79	
For >2.0, Deduct	-3.12	
For UV Black, Add	1.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	55.79	
For Up To 0.1, Add	33.58	
For >0.1 To 0.25, Add	16.79	
For >0.25 To 0.75, Add	8.40	
For >2.0, Deduct	-3.36	
For UV Black, Add	3.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	57.80	
For Up To 0.1, Add	33.58	
For >0.1 To 0.25, Add	16.79	
For >0.25 To 0.75, Add	8.40	
For >2.0, Deduct	-3.36	
For UV Black, Add	3.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	42.19	
For Up To 0.1, Add	31.15	
For >0.1 To 0.25, Add	15.58	
For >0.25 To 0.75, Add	7.79	
For >2.0, Deduct	-3.12	
For UV Black, Add	1.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	40.41	
For Up To 0.1, Add	31.15	
For >0.1 To 0.25, Add	15.58	
For >0.25 To 0.75, Add	7.79	
For >2.0, Deduct	-3.12	
For UV Black, Add	1.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	56.34	
For Up To 0.1, Add	33.58	
For >0.1 To 0.25, Add	16.79	
For >0.25 To 0.75, Add	8.40	
For >2.0, Deduct	-3.36	
For UV Black, Add	3.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	63.67	
For Up To 0.1, Add	35.68	
For >0.1 To 0.25, Add	17.84	
For >0.25 To 0.75, Add	8.92	
For >2.0, Deduct	-3.57	
For UV Black, Add	4.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.70	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	61.18	
For Up To 0.1, Add	31.15	
For >0.1 To 0.25, Add	15.58	
For >0.25 To 0.75, Add	7.79	
For >2.0, Deduct	-3.12	
For UV Black, Add	4.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	66.83	
For Up To 0.1, Add	33.58	
For >0.1 To 0.25, Add	16.79	
For >0.25 To 0.75, Add	8.40	
For >2.0, Deduct	-3.36	
For UV Black, Add	4.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	79.41	
For Up To 0.1, Add	35.68	
For >0.1 To 0.25, Add	17.84	
For >0.25 To 0.75, Add	8.92	
For >2.0, Deduct	-3.57	
For UV Black, Add	6.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.70	
26 05 29 00-0318 C 17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	109.71	
For Up To 0.1, Add	38.06	
For >0.1 To 0.25, Add	19.03	
For >0.25 To 0.75, Add	9.52	
For >2.0, Deduct	-3.81	
For UV Black, Add	10.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.42	
26 05 29 00-0319 C 17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	106.66	
For Up To 0.1, Add	38.06	
For >0.1 To 0.25, Add	19.03	
For >0.25 To 0.75, Add	9.52	
For >2.0, Deduct	-3.81	
For UV Black, Add	10.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.42	
26 05 29 00-0320 C 21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	127.98	
For Up To 0.1, Add	39.84	
For >0.1 To 0.25, Add	19.92	
For >0.25 To 0.75, Add	9.96	
For >2.0, Deduct	-3.98	
For UV Black, Add	13.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.95	
26 05 29 00-0321 C 30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	146.83	
For Up To 0.1, Add	41.77	
For >0.1 To 0.25, Add	20.89	
For >0.25 To 0.75, Add	10.44	
For >2.0, Deduct	-4.18	
For UV Black, Add	15.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.53	
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	197.72	
For Up To 0.1, Add	45.07	
For >0.1 To 0.25, Add	22.54	
For >0.25 To 0.75, Add	11.27	
For >2.0, Deduct	-4.51	
For UV Black, Add	22.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts.....	45.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.85	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw.....	89.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.69	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.20	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0328	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie	3.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.17	
26 05 29 00-0329	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	87.00	
			Note: Cut to length.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.28	
26 05 29 00-0330			Fastening Devices For Wireway And Conduit <small>(26 05 29)</small>		
			Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0331			Toggle Bolts <small>(26 05 29 00-0330)</small>		
			Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	10.54	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-3.54	
			<i>For >500, Deduct</i>	-5.05	
26 05 29 00-0333	EA		1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.82	
			<i>For >50 To 100, Deduct</i>	-1.04	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-3.63	
			<i>For >500, Deduct</i>	-5.18	
26 05 29 00-0334	EA		3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	11.37	
			<i>For >50 To 100, Deduct</i>	-1.07	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-3.74	
			<i>For >500, Deduct</i>	-5.34	
26 05 29 00-0335	EA		3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	11.65	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-3.83	
			<i>For >500, Deduct</i>	-5.47	
26 05 29 00-0336	EA		1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	11.92	
			<i>For >50 To 100, Deduct</i>	-1.12	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-3.92	
			<i>For >500, Deduct</i>	-5.59	
26 05 29 00-0337	EA		5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.33	
			<i>For >50 To 100, Deduct</i>	-1.18	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-4.10	
			<i>For >500, Deduct</i>	-5.84	
26 05 29 00-0338	EA		3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.84	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-4.20	
			<i>For >500, Deduct</i>	-5.99	
26 05 29 00-0339			Machine Screws <small>(26 05 29 00-0330)</small>		
			Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340	EA		#8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.13	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.07	
			<i>For >500, Deduct</i>	-1.53	
26 05 29 00-0341	EA		#10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.17	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.07	
			<i>For >500, Deduct</i>	-1.53	
26 05 29 00-0342	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.98	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.35	
			<i>For >500, Deduct</i>	-1.92	
26 05 29 00-0343	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.13	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.36	
			<i>For >500, Deduct</i>	-1.94	
26 05 29 00-0344	EA		3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	5.07	
			<i>For >50 To 100, Deduct</i>	-0.47	
			<i>For >100 To 250, Deduct</i>	-0.94	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500, Deduct</i>	-2.33	
26 05 29 00-0345			Hex Lag Bolts With Lag Shield Expansion Anchors <small>(26 05 29 00-0330)</small>		
			Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.94	
			<i>For >50 To 100, Deduct</i>	-0.41	
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.42	
			<i>For >500, Deduct</i>	-2.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.89	
<i>For >50 To 100, Deduct</i>	-0.41	
<i>For >100 To 250, Deduct</i>	-0.82	
<i>For >250 To 500, Deduct</i>	-1.41	
<i>For >500, Deduct</i>	-2.01	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.80	
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100 To 250, Deduct</i>	-1.02	
<i>For >250 To 500, Deduct</i>	-1.76	
<i>For >500, Deduct</i>	-2.50	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	8.60	
<i>For >50 To 100, Deduct</i>	-0.61	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.98	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts <small>(26 05 29 00-0330)</small>		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.72	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.12	
<i>For >500, Deduct</i>	-1.59	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.78	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.12	
<i>For >500, Deduct</i>	-1.59	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	4.44	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.73	
<i>For >250 To 500, Deduct</i>	-1.27	
<i>For >500, Deduct</i>	-1.80	
26 05 29 00-0354 Hollow Wall Screw Anchors <small>(26 05 29 00-0330)</small>		
26 05 29 00-0355 EA 6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.19	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.38	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.95	
26 05 29 00-0356 EA 6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.25	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-0.95	
26 05 29 00-0357 EA 6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.35	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.68	
<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0358 EA 10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.95	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.80	
<i>For >500, Deduct</i>	-1.14	
26 05 29 00-0359 EA 10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.08	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.81	
<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0360 EA 10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.12	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.82	
<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0361 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.14	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.82	
<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0362 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.33	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.83	
<i>For >500, Deduct</i>	-1.18	
26 05 29 00-0363 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.40	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.84	
<i>For >500, Deduct</i>	-1.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0364			Lead Screw Anchors (26 05 29 00-0330) Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	5.15	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.38	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	6.11	
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-1.94	
			For >500, Deduct	-2.77	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	8.21	
			For >50 To 100, Deduct	-0.72	
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.57	
26 05 29 00-0368			Acoustical T-Bar Clips (26 05 29 00-0330) Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip.....	7.63	
			For >50 To 100, Deduct	-0.63	
			For >100 To 250, Deduct	-1.25	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-3.09	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip.....	8.01	
			For >50 To 100, Deduct	-0.66	
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-3.25	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip.....	8.66	
			For >50 To 100, Deduct	-0.70	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-2.43	
			For >500, Deduct	-3.45	
26 05 29 00-0372			Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0373			Threaded Rod And Rod Accessories (26 05 29 00-0372)		
26 05 29 00-0374			Carbon Steel Threaded Rod (26 05 29 00-0373) Note: Includes plain finish.		
26 05 29 00-0375	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.74	0.86
			For Galvanized, Add	0.81	
			For Zinc Coated, Add	0.58	
26 05 29 00-0376	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.05	0.91
			For Galvanized, Add	1.29	
			For Zinc Coated, Add	0.92	
26 05 29 00-0377	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.88	0.94
			For Galvanized, Add	2.00	
			For Zinc Coated, Add	1.42	
26 05 29 00-0378	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.01	0.97
			For Galvanized, Add	3.62	
			For Zinc Coated, Add	2.58	
26 05 29 00-0379	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.98	1.00
			For Galvanized, Add	3.98	
			For Zinc Coated, Add	2.84	
26 05 29 00-0380	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.27	1.13
			For Galvanized, Add	5.59	
			For Zinc Coated, Add	3.98	
26 05 29 00-0381	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.18	1.26
			For Galvanized, Add	7.06	
			For Zinc Coated, Add	5.03	
26 05 29 00-0382			Threaded Rod Couplings (26 05 29 00-0373)		
26 05 29 00-0383	EA		3/8" Diameter, Threaded Rod Coupling Nut.....	10.71	
26 05 29 00-0384	EA		1/2" Diameter, Threaded Rod Coupling Nut.....	12.12	
26 05 29 00-0385	EA		5/8" Diameter, Threaded Rod Coupling Nut.....	14.92	
26 05 29 00-0386	EA		3/4" Diameter, Threaded Rod Coupling Nut.....	17.93	
26 05 29 00-0387	EA		7/8" Diameter, Threaded Rod Coupling Nut.....	25.52	
26 05 29 00-0388	EA		1" Diameter, Threaded Rod Coupling Nut.....	30.24	
26 05 29 00-0389	EA		1-1/8" Diameter, Threaded Rod Coupling Nut	55.69	
26 05 29 00-0390			Flat Washers (26 05 29 00-0373)		
26 05 29 00-0391	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.92	0.34
			For Galvanized, Add	0.04	
26 05 29 00-0392	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.15	0.34
			For Galvanized, Add	0.08	
26 05 29 00-0393	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.48	0.34
			For Galvanized, Add	0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer..... <i>For Galvanized, Add</i>	1.78 0.21	0.68
26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer..... <i>For Galvanized, Add</i>	1.99 0.25	0.68
26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer..... <i>For Galvanized, Add</i>	2.35 0.30	0.68
26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer..... <i>For Galvanized, Add</i>	2.63 0.34	0.68
26 05 29 00-0398 Malleable Iron Eye Sockets (26 05 29 00-0373) Note: Type 16.		
26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket	10.76	
26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket	12.76	
26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket	21.42	
26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket	30.12	
26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket	32.17	
26 05 29 00-0404 Hex Nuts (26 05 29 00-0373)		
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	0.89 0.03	0.34
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	1.11 0.07	0.34
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	1.48 0.15	0.34
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	1.73 0.20	0.68
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	2.47 0.37	0.68
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	3.13 0.50	0.68
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	5.02 0.94	0.68
26 05 29 00-0412 Forged Steel Turnbuckles (26 05 29 00-0373) Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	27.04	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	32.92	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	43.21	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	53.03	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	123.63	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	85.60	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	166.46	
26 05 29 00-0420 Attachments (26 05 29 00-0372)		
26 05 29 00-0421 Welded Beam Attachments (26 05 29 00-0420) Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment	50.23	13.69
26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment	53.47	14.37
26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment	56.85	15.19
26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment	70.48	16.14
26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment	83.21	17.10
26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment	113.91	19.57
26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment	156.87	20.52
26 05 29 00-0429 C-Clamp Style Beam Clamps (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp	19.93	10.28
26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp	23.11	10.96
26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp	25.88	11.74
26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp	32.00	12.64
26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp	44.06	13.71
26 05 29 00-0435 Bottom Mount I-Beam Clamps (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	47.39	13.71
26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	66.99	14.95
26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	93.19	16.45
26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	110.82	18.27
26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	256.17	20.55
26 05 29 00-0441 Steel U-Bolts (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt	16.17	8.22
26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt	17.40	8.65

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0444	EA		1" Pipe Size, Zinc Plated Steel, U-Bolt.....	18.63	9.13
26 05 29 00-0445	EA		1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	20.82	9.67
26 05 29 00-0446	EA		1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	21.65	10.28
26 05 29 00-0447	EA		2" Pipe Size, Zinc Plated Steel, U-Bolt.....	23.15	10.96
26 05 29 00-0448	EA		2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	31.27	11.74
26 05 29 00-0449	EA		3" Pipe Size, Zinc Plated Steel, U-Bolt.....	34.32	12.65
26 05 29 00-0450	EA		4" Pipe Size, Zinc Plated Steel, U-Bolt.....	40.65	13.71
26 05 29 00-0451			Stainless Steel Threaded Rod <small>(26 05 29 00-0372)</small>		
26 05 29 00-0452	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.46	0.68
			<i>For 316 Stainless Steel, Add</i>	0.85	
26 05 29 00-0453	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	5.09	0.75
			<i>For 316 Stainless Steel, Add</i>	1.45	
26 05 29 00-0454	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.50	0.86
			<i>For 316 Stainless Steel, Add</i>	1.94	
26 05 29 00-0455	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	8.88	0.88
			<i>For 316 Stainless Steel, Add</i>	2.88	
26 05 29 00-0456	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	10.59	0.91
			<i>For 316 Stainless Steel, Add</i>	3.55	
26 05 29 00-0457	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	15.65	0.93
			<i>For 316 Stainless Steel, Add</i>	5.58	
26 05 29 00-0458	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	21.75	0.94
			<i>For 316 Stainless Steel, Add</i>	8.04	
26 05 29 00-0459	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	29.77	0.97
			<i>For 316 Stainless Steel, Add</i>	11.27	
26 05 29 00-0460	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	38.21	1.13
			<i>For 316 Stainless Steel, Add</i>	14.55	
26 05 29 00-0461	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	80.41	1.37
			<i>For 316 Stainless Steel, Add</i>	31.41	
26 05 29 00-0462			Polyvinyl Chloride (PVC) Coated Supports <small>(26 05 29)</small>		
			Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0463			Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0464			Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0465	EA		1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	61.99	27.36
26 05 29 00-0466	EA		3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	67.44	29.83
26 05 29 00-0467	EA		1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	72.63	32.83
26 05 29 00-0468	EA		1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	85.14	36.53
26 05 29 00-0469	EA		1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	97.60	41.05
26 05 29 00-0470	EA		2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	114.06	45.15
26 05 29 00-0471	EA		2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	124.66	49.26
26 05 29 00-0472	EA		3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	136.68	53.36
26 05 29 00-0473	EA		3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	145.10	57.46
26 05 29 00-0474	EA		4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	156.46	61.57
26 05 29 00-0475			Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0476	EA		1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	65.15	27.36
26 05 29 00-0477	EA		3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	69.59	29.83
26 05 29 00-0478	EA		1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	79.04	32.83
26 05 29 00-0479	EA		1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	87.42	36.53
26 05 29 00-0480	EA		1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	98.49	41.05
26 05 29 00-0481	EA		2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	112.56	45.15
26 05 29 00-0482	EA		2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	127.51	49.26
26 05 29 00-0483	EA		3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	140.46	53.36
26 05 29 00-0484	EA		3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	149.87	57.46
26 05 29 00-0485	EA		4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	157.10	61.57
26 05 29 00-0486			Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0487	EA		1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	62.38	27.09
26 05 29 00-0488	EA		3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	67.37	29.56
26 05 29 00-0489	EA		1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	75.85	32.83
26 05 29 00-0490	EA		1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	87.35	36.12
26 05 29 00-0491	EA		1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	109.69	41.05
26 05 29 00-0492	EA		2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	120.37	45.15
26 05 29 00-0493			Polyvinyl Chloride (PVC) Coated Conduit Straps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0494			One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps <small>(26 05 29 00-0493)</small>		
26 05 29 00-0495	EA		1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	5.87	0.82
26 05 29 00-0496	EA		3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	6.33	0.82
26 05 29 00-0497	EA		1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	9.03	0.82
26 05 29 00-0498	EA		1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	10.86	0.82
26 05 29 00-0499	EA		1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.11	0.82
26 05 29 00-0500	EA		2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.91	0.82
26 05 29 00-0501	EA		2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	27.66	0.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	36.86	0.82
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	64.79	0.82
26 05 29 00-0504 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	68.82	0.82
26 05 29 00-0505 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0506 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.59	1.64
26 05 29 00-0507 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.64	1.64
26 05 29 00-0508 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.91	1.64
26 05 29 00-0509 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.69	1.64
26 05 29 00-0510 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.07	1.64
26 05 29 00-0511 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	17.12	1.64
26 05 29 00-0512 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	19.12	1.64
26 05 29 00-0513 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	19.94	1.64
26 05 29 00-0514 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	21.21	1.64
26 05 29 00-0515 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	22.92	1.64
26 05 29 00-0516 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	10.62	1.64
26 05 29 00-0519 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	12.17	1.64
26 05 29 00-0520 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	15.01	1.64
26 05 29 00-0521 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	17.37	1.64
26 05 29 00-0522 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	22.87	1.64
26 05 29 00-0523 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	48.63	1.64
26 05 29 00-0524 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	54.53	1.64
26 05 29 00-0525 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	74.05	1.64
26 05 29 00-0526 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	128.78	1.64
26 05 29 00-0527 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	128.78	1.64
26 05 29 00-0528 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	7.25	1.09
26 05 29 00-0531 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	8.86	1.23
26 05 29 00-0532 Attachments (26 05 29 00-0462)		
26 05 29 00-0533 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	18.39	8.22
26 05 29 00-0535 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	19.10	8.63
26 05 29 00-0536 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	20.13	9.18
26 05 29 00-0537 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	21.40	9.73
26 05 29 00-0538 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	22.77	10.28
26 05 29 00-0539 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	25.19	10.96
26 05 29 00-0540 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	33.55	11.78
26 05 29 00-0541 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	35.42	12.60
26 05 29 00-0542 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	37.91	13.71
26 05 29 00-0543 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	57.20	15.62
26 05 29 00-0544 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	70.02	18.09
26 05 29 00-0545 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	62.85	27.09
26 05 29 00-0547 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	70.38	27.09
26 05 29 00-0548 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	73.48	27.09
26 05 29 00-0549 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	80.28	28.74
26 05 29 00-0550 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	93.44	32.83
26 05 29 00-0551 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	24.25	9.03
26 05 29 00-0553 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	25.64	9.85
26 05 29 00-0554 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	27.90	10.67
26 05 29 00-0555 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	31.52	12.31
26 05 29 00-0556 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	36.03	13.96
26 05 29 00-0557 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	39.78	14.78
26 05 29 00-0558 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	43.99	16.42
26 05 29 00-0559 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	51.75	18.07
26 05 29 00-0560 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	56.26	18.89
26 05 29 00-0561 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	59.37	20.52
26 05 29 00-0562 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	63.86	22.98
26 05 29 00-0563 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564 LF A12, Polyvinyl Chloride (PVC) Coated Channel.....	23.09	4.11

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0565	LF		A12A, Polyvinyl Chloride (PVC) Coated Channel	40.30	5.75
26 05 29 00-0566	LF		A12P, Polyvinyl Chloride (PVC) Coated Channel	24.55	4.11
26 05 29 00-0567	LF		C14, Polyvinyl Chloride (PVC) Coated Channel	18.62	4.11
26 05 29 00-0568	LF		C14P, Polyvinyl Chloride (PVC) Coated Channel	19.52	4.11
26 05 29 00-0569			Polymer Concrete Pads <small>(26 05 29)</small>		
			Note: Excludes excavation and backfill.		
26 05 29 00-0570			Polymer Concrete, Box Pads <small>(26 05 29 00-0569)</small>		
26 05 29 00-0571	EA		24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,125.16	113.01
26 05 29 00-0572	EA		25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,162.32	113.01
26 05 29 00-0573	EA		40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,503.74	113.01
26 05 29 00-0574	EA		40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,560.34	113.01
26 05 29 00-0575	EA		52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,451.04	113.01
26 05 29 00-0576	EA		44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,718.37	113.01
26 05 29 00-0577	EA		40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,923.36	113.01
26 05 29 00-0578	EA		52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,845.80	141.26
26 05 29 00-0579	EA		74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	2,803.56	141.26
26 05 29 00-0580	EA		93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	3,766.06	141.26
26 05 29 00-0581			Polymer Concrete, Telecommunications Equipment Pads <small>(26 05 29 00-0569)</small>		
26 05 29 00-0582	EA		42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	538.61	59.13
26 05 29 00-0583	EA		48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	640.10	59.13
26 05 29 00-0584	EA		60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	834.88	84.75
26 05 29 00-0585	EA		54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	872.60	84.75
26 05 29 00-0586	EA		57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,256.61	84.75
26 05 29 00-0587	EA		72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,309.98	84.75
26 05 29 00-0588	EA		64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,409.42	84.75
26 05 29 00-0589	EA		72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,409.42	84.75
26 05 29 00-0590	EA		76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	2,658.78	84.75
26 05 29 00-0591	EA		96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	3,015.27	84.75
26 05 29 00-0592			Polymer Concrete, Electrical Equipment Pads <small>(26 05 29 00-0569)</small>		
26 05 29 00-0593	EA		24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	323.64	59.13
26 05 29 00-0594	EA		24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	349.73	59.13
26 05 29 00-0595	EA		24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	373.50	59.13
26 05 29 00-0596	EA		24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	452.45	59.13
26 05 29 00-0597	EA		40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	417.22	59.13
26 05 29 00-0598	EA		42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	433.82	59.13
26 05 29 00-0599	EA		48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	476.86	59.13
26 05 29 00-0600	EA		48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	501.96	59.13
26 05 29 00-0601	EA		54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	585.82	59.13
26 05 29 00-0602	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	723.93	59.13
26 05 29 00-0603	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,071.61	84.75
26 05 29 00-0604	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,122.09	84.75
26 05 29 00-0605	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,138.01	84.75
26 05 29 00-0606	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,244.14	84.75
26 05 29 00-0607	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,663.57	84.75
26 05 29 00-0608	EA		96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	3,139.02	84.75
26 05 33 Raceway and Boxes for Electrical Systems <small>(26 05)</small>					
26 05 33 13 Conduit for Electrical Systems <small>(26 05 33)</small>					
26 05 33 13-0001 Conduit Assemblies <small>(26 05 33 13)</small>			Note: Includes conduit, fittings and wire. Excludes hangers or supports.		
26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies <small>(26 05 33 13-0001)</small>			Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0598 for larger EMT conduit.		
26 05 33 13-0003	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,036.61	305.54
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	261.93	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.39	
26 05 33 13-0004	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,135.55	331.79
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	284.43	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.59	
26 05 33 13-0005	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,234.48	358.05
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	306.94	
			<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	4.79	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0006	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,098.16	318.67
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		273.18	
	<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>		3.59	
26 05 33 13-0007	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,221.63	349.30
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		299.44	
	<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>		5.38	
26 05 33 13-0008	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	.....	1,238.43	344.92
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		295.69	
	<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>		6.26	
26 05 33 13-0009	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,153.89	329.41
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		282.34	
	<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>		2.39	
26 05 33 13-0010	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,252.83	355.67
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		304.84	
	<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>		3.59	
26 05 33 13-0011	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,351.76	381.92
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		327.34	
26 05 33 13-0012	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,450.70	408.18
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		349.84	
	<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>		5.98	
26 05 33 13-0013	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,215.43	342.54
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		293.59	
	<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>		3.59	
26 05 33 13-0014	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,338.89	373.17
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		319.84	
	<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>		5.38	
26 05 33 13-0015	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,462.36	403.80
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		346.10	
	<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>		7.17	
26 05 33 13-0016	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	.....	1,585.81	434.43
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		372.35	
	<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>		8.97	
26 05 33 13-0017	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	.....	1,530.79	408.18
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		349.84	
	<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>		9.39	
26 05 33 13-0018	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	.....	1,705.88	447.56
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		383.60	
	<i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>		12.51	
26 05 33 13-0019	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	.....	1,539.11	395.05
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		338.59	
	<i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>		10.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0020 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,780.08 379.85 15.52	443.18
26 05 33 13-0021 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,318.12 303.94 2.39	354.55
26 05 33 13-0022 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,417.06 326.44 3.59	380.80
26 05 33 13-0023 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,516.00 348.95	407.05
26 05 33 13-0024 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,614.94 371.45 5.98	433.30
26 05 33 13-0025 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,379.66 315.19 3.59	367.67
26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,503.12 341.44 5.38	398.30
26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,626.58 367.70 7.17	428.92
26 05 33 13-0028 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,750.04 393.95 8.97	459.55
26 05 33 13-0029 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,695.03 371.45 9.39	433.30
26 05 33 13-0030 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,944.30 401.45 15.52	468.30
26 05 33 13-0031 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,185.27 442.70 20.69	516.44
26 05 33 13-0032 Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,364.58 298.09 2.39	347.79
26 05 33 13-0034 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,463.51 320.59 3.59	374.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0035 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #10 THWN Conductor Instead Of THHN, Add	1,426.12 309.34 3.59	360.92
26 05 33 13-0036 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,549.58 335.59 5.38	391.55
26 05 33 13-0037 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #8 THWN Conductor Instead Of THHN, Add	1,566.39 331.84 6.26	387.17
26 05 33 13-0038 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #12 THWN Conductor Instead Of THHN, Add	1,500.65 317.89 2.39	370.92
26 05 33 13-0039 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,599.59 340.39 3.59	397.17
26 05 33 13-0040 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	1,698.53 362.90	423.42
26 05 33 13-0041 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #10 THWN Conductor Instead Of THHN, Add	1,562.20 329.14 3.59	384.04
26 05 33 13-0042 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,685.65 355.39 5.38	414.67
26 05 33 13-0043 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,809.12 381.65 7.17	445.30
26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,877.56 385.40 9.39	449.68
26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #8 THWN Conductor Instead Of THHN, Add	2,052.64 419.15 12.51	489.06
26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #6 THWN Conductor Instead Of THHN, Add	1,885.87 374.15 10.35	436.55
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,126.84 415.40 15.52	484.68
26 05 33 13-0048 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,932.48 379.66 3.59	442.93
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	2,031.42 402.16	469.19
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	2,130.35 424.67 5.98	495.43
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	2,018.55 394.66 5.38	460.44

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0052	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	2,142.01 420.92 7.17	491.06
26 05 33 13-0053	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #10 THWN Conductor Instead Of THHN, Add	2,265.47 447.17 8.97	521.69
26 05 33 13-0054	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	2,210.45 424.67 9.39	495.43
26 05 33 13-0055	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,459.73 454.67 15.52	530.44
26 05 33 13-0056	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #6 THWN Conductor Instead Of THHN, Add	2,700.70 495.92 20.69	578.57
26 05 33 13-0057			Conduit <small>(26 05 33 13)</small> Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058			Conduit Installed Above Grade <small>(26 05 33 13-0057)</small> See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059			Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit <small>(26 05 33 13-0058)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0060			Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <small>(26 05 33 13-0059)</small> Note: Includes field bending for conduit up to 1".		
26 05 33 13-0061	LF		1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	9.77 -0.14 -0.56 -0.81 0.69 1.72 1.03 2.06 0.69 1.38 1.72 2.41 2.75 3.44 3.78	2.75
26 05 33 13-0062	LF		3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	11.56 -0.18 -0.67 -0.96 0.80 2.00 1.20 2.40 0.80 1.60 2.00 2.80 3.20 4.00 4.40	3.00
26 05 33 13-0063	LF		1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	16.26 -0.28 -0.95 -1.36 1.08 2.69 1.61 3.23 1.08 2.15 2.69 3.76 4.30 5.38 5.91	3.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	18.73	4.00
For >250 To 500, Deduct	-0.37	
For >500 To 1,000, Deduct	-1.12	
For >1,000, Deduct	-1.59	
For Installation In Metal Stud Wall, Add	1.14	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.85	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.71	
For Work In Restricted Working Space, Add	3.41	
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.98	
For Elevated Installation >30' To 35', Add	4.55	
For Elevated Installation >35' To 40', Add	5.69	
For Elevated Installation >40', Add	6.26	
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	21.50	4.50
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.84	
For Installation In Metal Stud Wall, Add	1.25	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.13	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.88	
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	27.40	5.50
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.36	
For Installation In Metal Stud Wall, Add	1.54	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.84	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.31	
For Work In Restricted Working Space, Add	4.61	
For Elevated Installation >10' To 15', Add	1.54	
For Elevated Installation >15' To 20', Add	3.07	
For Elevated Installation >20' To 25', Add	3.84	
For Elevated Installation >25' To 30', Add	5.38	
For Elevated Installation >30' To 35', Add	6.15	
For Elevated Installation >35' To 40', Add	7.69	
For Elevated Installation >40', Add	8.45	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	40.82	7.50
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-2.54	
For >1,000, Deduct	-3.56	
For Installation In Metal Stud Wall, Add	2.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.22	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.13	
For Work In Restricted Working Space, Add	6.26	
For Elevated Installation >10' To 15', Add	2.09	
For Elevated Installation >15' To 20', Add	4.18	
For Elevated Installation >20' To 25', Add	5.22	
For Elevated Installation >25' To 30', Add	7.31	
For Elevated Installation >30' To 35', Add	8.35	
For Elevated Installation >35' To 40', Add	10.44	
For Elevated Installation >40', Add	11.48	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	53.51	10.00
For >250 To 500, Deduct	-1.27	
For >500 To 1,000, Deduct	-3.31	
For >1,000, Deduct	-4.65	
For Installation In Metal Stud Wall, Add	2.81	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.03	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.22	
For Work In Restricted Working Space, Add	8.44	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.63	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.85	
For Elevated Installation >30' To 35', Add	11.25	
For Elevated Installation >35' To 40', Add	14.07	
For Elevated Installation >40', Add	15.47	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	64.34	12.50
For >250 To 500, Deduct	-1.55	
For >500 To 1,000, Deduct	-3.99	
For >1,000, Deduct	-5.60	
For Installation In Metal Stud Wall, Add	3.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.01	
For Work In Restricted Working Space, Add	10.01	
For Elevated Installation >10' To 15', Add	3.34	
For Elevated Installation >15' To 20', Add	6.68	
For Elevated Installation >20' To 25', Add	8.35	
For Elevated Installation >25' To 30', Add	11.68	
For Elevated Installation >30' To 35', Add	13.35	
For Elevated Installation >35' To 40', Add	16.69	
For Elevated Installation >40', Add	18.36	
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	76.33	15.00
For >250 To 500, Deduct	-1.89	
For >500 To 1,000, Deduct	-4.76	
For >1,000, Deduct	-6.67	
For Installation In Metal Stud Wall, Add	3.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.78	
For Work In Restricted Working Space, Add	11.55	
For Elevated Installation >10' To 15', Add	3.85	
For Elevated Installation >15' To 20', Add	7.70	
For Elevated Installation >20' To 25', Add	9.63	
For Elevated Installation >25' To 30', Add	13.48	
For Elevated Installation >30' To 35', Add	15.40	
For Elevated Installation >35' To 40', Add	19.26	
For Elevated Installation >40', Add	21.18	
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	120.53	19.00
For >250 To 500, Deduct	-3.65	
For >500 To 1,000, Deduct	-7.85	
For >1,000, Deduct	-10.87	
For Installation In Metal Stud Wall, Add	4.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	7.13	
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
26 05 33 13-0072 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	162.64	24.00
For >250 To 500, Deduct	-5.13	
For >500 To 1,000, Deduct	-10.70	
For >1,000, Deduct	-14.76	
For Installation In Metal Stud Wall, Add	6.00	
For Installation In Wood Stud Wall (Includes Drilling), Add	15.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	9.00	
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
26 05 33 13-0073 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0074 EA 1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	34.51	12.38
For Work In Restricted Working Space, Add	9.31	
For Elevated Installation >10' To 15', Add	3.10	
For Elevated Installation >15' To 20', Add	6.21	
For Elevated Installation >20' To 25', Add	7.76	
For Elevated Installation >25' To 30', Add	10.86	
For Elevated Installation >30' To 35', Add	12.42	
For Elevated Installation >35' To 40', Add	15.52	
For Elevated Installation >40', Add	17.07	
26 05 33 13-0075 EA 3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	43.17	15.37
For Work In Restricted Working Space, Add	11.58	
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.72	
For Elevated Installation >20' To 25', Add	9.65	
For Elevated Installation >25' To 30', Add	13.51	
For Elevated Installation >30' To 35', Add	15.44	
For Elevated Installation >35' To 40', Add	19.30	
For Elevated Installation >40', Add	21.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0076 EA 1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	54.11	18.87
For Work In Restricted Working Space, Add	14.12	
For Elevated Installation >10' To 15', Add	4.71	
For Elevated Installation >15' To 20', Add	9.41	
For Elevated Installation >20' To 25', Add	11.77	
For Elevated Installation >25' To 30', Add	16.47	
For Elevated Installation >30' To 35', Add	18.83	
For Elevated Installation >35' To 40', Add	23.54	
For Elevated Installation >40', Add	25.89	
26 05 33 13-0077 EA 1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	66.70	21.88
For Work In Restricted Working Space, Add	16.40	
For Elevated Installation >10' To 15', Add	5.47	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.13	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.33	
For Elevated Installation >40', Add	30.06	
26 05 33 13-0078 EA 1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	77.09	25.13
For Work In Restricted Working Space, Add	18.82	
For Elevated Installation >10' To 15', Add	6.27	
For Elevated Installation >15' To 20', Add	12.54	
For Elevated Installation >20' To 25', Add	15.68	
For Elevated Installation >25' To 30', Add	21.95	
For Elevated Installation >30' To 35', Add	25.09	
For Elevated Installation >35' To 40', Add	31.36	
For Elevated Installation >40', Add	34.50	
26 05 33 13-0079 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	88.76	27.63
For Work In Restricted Working Space, Add	20.70	
For Elevated Installation >10' To 15', Add	6.90	
For Elevated Installation >15' To 20', Add	13.80	
For Elevated Installation >20' To 25', Add	17.25	
For Elevated Installation >25' To 30', Add	24.15	
For Elevated Installation >30' To 35', Add	27.60	
For Elevated Installation >35' To 40', Add	34.50	
For Elevated Installation >40', Add	37.95	
26 05 33 13-0080 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	121.46	34.51
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
26 05 33 13-0081 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	169.92	47.01
For Work In Restricted Working Space, Add	35.25	
For Elevated Installation >10' To 15', Add	11.75	
For Elevated Installation >15' To 20', Add	23.50	
For Elevated Installation >20' To 25', Add	29.38	
For Elevated Installation >25' To 30', Add	41.13	
For Elevated Installation >30' To 35', Add	47.00	
For Elevated Installation >35' To 40', Add	58.75	
For Elevated Installation >40', Add	64.63	
26 05 33 13-0082 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	214.48	53.01
For Work In Restricted Working Space, Add	39.76	
For Elevated Installation >10' To 15', Add	13.25	
For Elevated Installation >15' To 20', Add	26.51	
For Elevated Installation >20' To 25', Add	33.13	
For Elevated Installation >25' To 30', Add	46.39	
For Elevated Installation >30' To 35', Add	53.01	
For Elevated Installation >35' To 40', Add	66.27	
For Elevated Installation >40', Add	72.89	
26 05 33 13-0083 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	266.93	69.01
For Work In Restricted Working Space, Add	51.75	
For Elevated Installation >10' To 15', Add	17.25	
For Elevated Installation >15' To 20', Add	34.50	
For Elevated Installation >20' To 25', Add	43.12	
For Elevated Installation >25' To 30', Add	60.37	
For Elevated Installation >30' To 35', Add	69.00	
For Elevated Installation >35' To 40', Add	86.25	
For Elevated Installation >40', Add	94.87	
26 05 33 13-0084 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	436.26	112.51
For Work In Restricted Working Space, Add	84.39	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.33	
For Elevated Installation >25' To 30', Add	98.46	
For Elevated Installation >30' To 35', Add	112.52	
For Elevated Installation >35' To 40', Add	140.65	
For Elevated Installation >40', Add	154.72	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0085	EA	6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	655.68 126.76 42.25 84.50 105.63 147.88 169.01 211.26 232.39	169.02
26 05 33 13-0086 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0059)					
See CSI section 26 05 33 13-2224 for conduit field bending.					
26 05 33	13-0087	EA	1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	34.51 9.31 3.10 6.21 7.76 10.86 12.42 15.52 17.07	12.38
26 05 33	13-0088	EA	3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	43.17 11.58 3.86 7.72 9.65 13.51 15.44 19.30 21.22	15.37
26 05 33	13-0089	EA	1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	54.11 14.12 4.71 9.41 11.77 16.47 18.83 23.54 25.89	18.87
26 05 33	13-0090	EA	1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	66.70 16.40 5.47 10.93 13.66 19.13 21.86 27.33 30.06	21.88
26 05 33	13-0091	EA	1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	77.09 18.82 6.27 12.54 15.68 21.95 25.09 31.36 34.50	25.13
26 05 33	13-0092	EA	2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	88.76 20.70 6.90 13.80 17.25 24.15 27.60 34.50 37.95	27.63
26 05 33	13-0093	EA	2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	120.03 25.88 8.63 17.25 21.56 30.19 34.50 43.13 47.44	34.51
26 05 33	13-0094	EA	3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	164.35 35.25 11.75 23.50 29.38 41.13 47.00 58.75 64.63	47.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0095 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	206.65	53.01
<i>For Work In Restricted Working Space, Add</i>	39.76	
<i>For Elevated Installation >10' To 15', Add</i>	13.25	
<i>For Elevated Installation >15' To 20', Add</i>	26.51	
<i>For Elevated Installation >20' To 25', Add</i>	33.13	
<i>For Elevated Installation >25' To 30', Add</i>	46.39	
<i>For Elevated Installation >30' To 35', Add</i>	53.01	
<i>For Elevated Installation >35' To 40', Add</i>	66.27	
<i>For Elevated Installation >40', Add</i>	72.89	
26 05 33 13-0096 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	256.51	69.01
<i>For Work In Restricted Working Space, Add</i>	51.75	
<i>For Elevated Installation >10' To 15', Add</i>	17.25	
<i>For Elevated Installation >15' To 20', Add</i>	34.50	
<i>For Elevated Installation >20' To 25', Add</i>	43.12	
<i>For Elevated Installation >25' To 30', Add</i>	60.37	
<i>For Elevated Installation >30' To 35', Add</i>	69.00	
<i>For Elevated Installation >35' To 40', Add</i>	86.25	
<i>For Elevated Installation >40', Add</i>	94.87	
26 05 33 13-0097 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	436.26	112.51
<i>For Work In Restricted Working Space, Add</i>	84.39	
<i>For Elevated Installation >10' To 15', Add</i>	28.13	
<i>For Elevated Installation >15' To 20', Add</i>	56.26	
<i>For Elevated Installation >20' To 25', Add</i>	70.33	
<i>For Elevated Installation >25' To 30', Add</i>	98.46	
<i>For Elevated Installation >30' To 35', Add</i>	112.52	
<i>For Elevated Installation >35' To 40', Add</i>	140.65	
<i>For Elevated Installation >40', Add</i>	154.72	
26 05 33 13-0098 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	655.68	169.02
<i>For Work In Restricted Working Space, Add</i>	126.76	
<i>For Elevated Installation >10' To 15', Add</i>	42.25	
<i>For Elevated Installation >15' To 20', Add</i>	84.50	
<i>For Elevated Installation >20' To 25', Add</i>	105.63	
<i>For Elevated Installation >25' To 30', Add</i>	147.88	
<i>For Elevated Installation >30' To 35', Add</i>	169.01	
<i>For Elevated Installation >35' To 40', Add</i>	211.26	
<i>For Elevated Installation >40', Add</i>	232.39	
26 05 33 13-0099 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
<small>See CSI section 26 05 33 13-2224 for conduit field bending.</small>		
26 05 33 13-0100 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	78.54	30.88
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
26 05 33 13-0101 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	90.66	35.75
<i>For Work In Restricted Working Space, Add</i>	21.45	
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
26 05 33 13-0102 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	104.21	40.63
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
26 05 33 13-0103 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	116.43	44.69
<i>For Work In Restricted Working Space, Add</i>	26.82	
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	

26 05 33 13-0104 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0059)
 See CSI section 26 05 33 13-2224 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0105 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	82.89	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0106 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	96.26	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0107 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	106.76	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0108 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	119.27	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0109 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	155.51	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0110 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	210.13	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0111 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0112 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	83.10	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0113 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	95.71	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0114 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	109.51	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0115 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	125.44	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0116 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	161.25	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0117 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	214.76	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0118 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	259.90	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0119 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	322.18	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0120 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0121 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	90.04	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0122 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	102.52	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0123 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	114.61	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0124 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	132.96	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0125 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	171.51	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0126 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	230.83	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0127 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	275.52	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0128 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	334.64	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0129 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0130 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	89.62	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0131 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	107.58	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0132 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	120.09	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0133 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	140.12	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0134 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	181.34	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0135 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	243.53	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0136 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	290.97	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0137 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	357.50	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0138 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	536.80	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0139 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0140 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	93.33	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0141 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	110.07	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0142 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	129.69	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0143 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	145.71	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0144 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	193.01	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0145 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	254.38	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0146 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	310.92	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0147 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	368.26	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0148 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	624.56	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0149 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	833.74	274.66
For Work In Restricted Working Space, Add	164.80	
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
26 05 33 13-0150 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0151 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	98.75	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0152 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	116.70	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0153 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	136.74	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0154 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	153.08	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0155 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	201.93	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0156 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	270.28	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0157 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	326.87	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0158 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	414.15	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0159 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	687.87	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0160 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	888.56	274.66
For Work In Restricted Working Space, Add	164.80	
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
26 05 33 13-0161 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0162 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	103.27	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0163 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	121.81	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0164 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	141.20	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0165 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	166.85	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0166 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	218.38	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0167 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	286.31	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0168 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	346.92	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0169 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	438.51	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0170 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	707.69	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0171 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	899.65	274.66
For Work In Restricted Working Space, Add	164.80	
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
26 05 33 13-0172 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)		
26 05 33 13-0173 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	16.18	7.97
For Work In Restricted Working Space, Add	4.78	
For Elevated Installation >10' To 15', Add	1.59	
For Elevated Installation >15' To 20', Add	3.19	
For Elevated Installation >20' To 25', Add	3.99	
For Elevated Installation >25' To 30', Add	5.58	
For Elevated Installation >30' To 35', Add	6.38	
For Elevated Installation >35' To 40', Add	7.97	
For Elevated Installation >40', Add	8.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.78	
26 05 33 13-0174 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	17.32	8.50
For Work In Restricted Working Space, Add	5.10	
For Elevated Installation >10' To 15', Add	1.70	
For Elevated Installation >15' To 20', Add	3.40	
For Elevated Installation >20' To 25', Add	4.25	
For Elevated Installation >25' To 30', Add	5.95	
For Elevated Installation >30' To 35', Add	6.80	
For Elevated Installation >35' To 40', Add	8.50	
For Elevated Installation >40', Add	9.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0175 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	19.61	9.56
For Work In Restricted Working Space, Add	5.74	
For Elevated Installation >10' To 15', Add	1.91	
For Elevated Installation >15' To 20', Add	3.82	
For Elevated Installation >20' To 25', Add	4.78	
For Elevated Installation >25' To 30', Add	6.69	
For Elevated Installation >30' To 35', Add	7.65	
For Elevated Installation >35' To 40', Add	9.56	
For Elevated Installation >40', Add	10.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-0176 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	21.96	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-0177 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	27.54	13.28
For Work In Restricted Working Space, Add	7.97	
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.31	
For Elevated Installation >20' To 25', Add	6.64	
For Elevated Installation >25' To 30', Add	9.30	
For Elevated Installation >30' To 35', Add	10.63	
For Elevated Installation >35' To 40', Add	13.29	
For Elevated Installation >40', Add	14.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-0178 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	33.68	15.94
For Work In Restricted Working Space, Add	9.56	
For Elevated Installation >10' To 15', Add	3.19	
For Elevated Installation >15' To 20', Add	6.38	
For Elevated Installation >20' To 25', Add	7.97	
For Elevated Installation >25' To 30', Add	11.16	
For Elevated Installation >30' To 35', Add	12.75	
For Elevated Installation >35' To 40', Add	15.94	
For Elevated Installation >40', Add	17.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.56	
26 05 33 13-0179 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	41.17	18.59
For Work In Restricted Working Space, Add	11.16	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.30	
For Elevated Installation >25' To 30', Add	13.02	
For Elevated Installation >30' To 35', Add	14.88	
For Elevated Installation >35' To 40', Add	18.60	
For Elevated Installation >40', Add	20.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.16	
26 05 33 13-0180 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	46.70	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0181 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	53.64	20.00
For Work In Restricted Working Space, Add	14.35	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.96	
For Elevated Installation >25' To 30', Add	16.74	
For Elevated Installation >30' To 35', Add	19.13	
For Elevated Installation >35' To 40', Add	23.91	
For Elevated Installation >40', Add	26.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-0182 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	59.55	26.57
For Work In Restricted Working Space, Add	15.94	
For Elevated Installation >10' To 15', Add	5.31	
For Elevated Installation >15' To 20', Add	10.63	
For Elevated Installation >20' To 25', Add	13.28	
For Elevated Installation >25' To 30', Add	18.60	
For Elevated Installation >30' To 35', Add	21.25	
For Elevated Installation >35' To 40', Add	26.57	
For Elevated Installation >40', Add	29.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.94	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0183	EA	5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	69.38	29.23
			<i>For Work In Restricted Working Space, Add</i>	17.53	
			<i>For Elevated Installation >10' To 15', Add</i>	5.84	
			<i>For Elevated Installation >15' To 20', Add</i>	11.69	
			<i>For Elevated Installation >20' To 25', Add</i>	14.61	
			<i>For Elevated Installation >25' To 30', Add</i>	20.45	
			<i>For Elevated Installation >30' To 35', Add</i>	23.38	
			<i>For Elevated Installation >35' To 40', Add</i>	29.22	
			<i>For Elevated Installation >40', Add</i>	32.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.53	
26 05 33	13-0184	EA	6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	91.45	31.88
			<i>For Work In Restricted Working Space, Add</i>	19.13	
			<i>For Elevated Installation >10' To 15', Add</i>	6.38	
			<i>For Elevated Installation >15' To 20', Add</i>	12.75	
			<i>For Elevated Installation >20' To 25', Add</i>	15.94	
			<i>For Elevated Installation >25' To 30', Add</i>	22.31	
			<i>For Elevated Installation >30' To 35', Add</i>	25.50	
			<i>For Elevated Installation >35' To 40', Add</i>	31.88	
			<i>For Elevated Installation >40', Add</i>	35.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.13	
26 05 33 13-0185 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)					
26 05 33	13-0186	EA	1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	19.36	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33	13-0187	EA	3/4" Rigid Galvanized Steel (RGS) Steel Bushing.....	20.89	10.00
			<i>For Work In Restricted Working Space, Add</i>	6.00	
			<i>For Elevated Installation >10' To 15', Add</i>	2.00	
			<i>For Elevated Installation >15' To 20', Add</i>	4.00	
			<i>For Elevated Installation >20' To 25', Add</i>	5.00	
			<i>For Elevated Installation >25' To 30', Add</i>	7.00	
			<i>For Elevated Installation >30' To 35', Add</i>	8.00	
			<i>For Elevated Installation >35' To 40', Add</i>	10.00	
			<i>For Elevated Installation >40', Add</i>	11.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33	13-0188	EA	1" Rigid Galvanized Steel (RGS) Steel Bushing.....	24.04	11.26
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.25	
			<i>For Elevated Installation >15' To 20', Add</i>	4.50	
			<i>For Elevated Installation >20' To 25', Add</i>	5.63	
			<i>For Elevated Installation >25' To 30', Add</i>	7.88	
			<i>For Elevated Installation >30' To 35', Add</i>	9.00	
			<i>For Elevated Installation >35' To 40', Add</i>	11.25	
			<i>For Elevated Installation >40', Add</i>	12.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33	13-0189	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing.....	26.91	12.50
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	
26 05 33	13-0190	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	34.07	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33	13-0191	EA	2" Rigid Galvanized Steel (RGS) Steel Bushing.....	40.53	18.75
			<i>For Work In Restricted Working Space, Add</i>	11.25	
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0192 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	53.28	21.88
For Work In Restricted Working Space, Add	13.13	
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-0193 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing.....	62.50	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0194 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	85.44	28.13
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0195 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing.....	109.83	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0196 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing.....	140.52	34.38
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-0197 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing.....	196.15	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	
26 05 33 13-0198 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0059)		
26 05 33 13-0199 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	20.08	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0200 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	21.97	10.00
For Work In Restricted Working Space, Add	6.00	
For Elevated Installation >10' To 15', Add	2.00	
For Elevated Installation >15' To 20', Add	4.00	
For Elevated Installation >20' To 25', Add	5.00	
For Elevated Installation >25' To 30', Add	7.00	
For Elevated Installation >30' To 35', Add	8.00	
For Elevated Installation >35' To 40', Add	10.00	
For Elevated Installation >40', Add	11.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0201	EA		1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	25.40	11.26
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.25	
			<i>For Elevated Installation >15' To 20', Add</i>	4.50	
			<i>For Elevated Installation >20' To 25', Add</i>	5.63	
			<i>For Elevated Installation >25' To 30', Add</i>	7.88	
			<i>For Elevated Installation >30' To 35', Add</i>	9.00	
			<i>For Elevated Installation >35' To 40', Add</i>	11.25	
			<i>For Elevated Installation >40', Add</i>	12.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-0202	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	29.22	12.50
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	
26 05 33 13-0203	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	36.46	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0204	EA		2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	44.78	18.75
			<i>For Work In Restricted Working Space, Add</i>	11.25	
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	
26 05 33 13-0205	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	59.04	21.88
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.32	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-0206	EA		3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	69.25	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.00	
			<i>For Elevated Installation >40', Add</i>	27.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.00	
26 05 33 13-0207	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	86.70	28.13
			<i>For Work In Restricted Working Space, Add</i>	16.88	
			<i>For Elevated Installation >10' To 15', Add</i>	5.63	
			<i>For Elevated Installation >15' To 20', Add</i>	11.25	
			<i>For Elevated Installation >20' To 25', Add</i>	14.07	
			<i>For Elevated Installation >25' To 30', Add</i>	19.69	
			<i>For Elevated Installation >30' To 35', Add</i>	22.50	
			<i>For Elevated Installation >35' To 40', Add</i>	28.13	
			<i>For Elevated Installation >40', Add</i>	30.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.88	
26 05 33 13-0208	EA		4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	115.46	31.25
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0209 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	146.66	34.38
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-0210 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	198.31	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	
26 05 33 13-0211 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)		
26 05 33 13-0212 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	27.85	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0213 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	31.11	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0214 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	35.11	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0215 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	41.10	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0216 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	50.13	19.37
For Work In Restricted Working Space, Add	11.63	
For Elevated Installation >10' To 15', Add	3.88	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.57	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.38	
For Elevated Installation >40', Add	21.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.63	
26 05 33 13-0217 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	62.04	23.13
For Work In Restricted Working Space, Add	13.88	
For Elevated Installation >10' To 15', Add	4.63	
For Elevated Installation >15' To 20', Add	9.25	
For Elevated Installation >20' To 25', Add	11.56	
For Elevated Installation >25' To 30', Add	16.19	
For Elevated Installation >30' To 35', Add	18.50	
For Elevated Installation >35' To 40', Add	23.13	
For Elevated Installation >40', Add	25.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0218	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	79.56	26.88
			<i>For Work In Restricted Working Space, Add</i>	16.13	
			<i>For Elevated Installation >10' To 15', Add</i>	5.38	
			<i>For Elevated Installation >15' To 20', Add</i>	10.75	
			<i>For Elevated Installation >20' To 25', Add</i>	13.44	
			<i>For Elevated Installation >25' To 30', Add</i>	18.82	
			<i>For Elevated Installation >30' To 35', Add</i>	21.50	
			<i>For Elevated Installation >35' To 40', Add</i>	26.88	
			<i>For Elevated Installation >40', Add</i>	29.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.13	
26 05 33 13-0219	EA		3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	89.12	31.25
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0220	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	100.49	35.01
			<i>For Work In Restricted Working Space, Add</i>	21.00	
			<i>For Elevated Installation >10' To 15', Add</i>	7.00	
			<i>For Elevated Installation >15' To 20', Add</i>	14.00	
			<i>For Elevated Installation >20' To 25', Add</i>	17.50	
			<i>For Elevated Installation >25' To 30', Add</i>	24.50	
			<i>For Elevated Installation >30' To 35', Add</i>	28.00	
			<i>For Elevated Installation >35' To 40', Add</i>	35.01	
			<i>For Elevated Installation >40', Add</i>	38.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.00	
26 05 33 13-0221	EA		4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	124.17	38.76
			<i>For Work In Restricted Working Space, Add</i>	23.25	
			<i>For Elevated Installation >10' To 15', Add</i>	7.75	
			<i>For Elevated Installation >15' To 20', Add</i>	15.50	
			<i>For Elevated Installation >20' To 25', Add</i>	19.38	
			<i>For Elevated Installation >25' To 30', Add</i>	27.13	
			<i>For Elevated Installation >30' To 35', Add</i>	31.00	
			<i>For Elevated Installation >35' To 40', Add</i>	38.76	
			<i>For Elevated Installation >40', Add</i>	42.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.25	
26 05 33 13-0222	EA		5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	165.32	42.51
			<i>For Work In Restricted Working Space, Add</i>	25.50	
			<i>For Elevated Installation >10' To 15', Add</i>	8.50	
			<i>For Elevated Installation >15' To 20', Add</i>	17.00	
			<i>For Elevated Installation >20' To 25', Add</i>	21.25	
			<i>For Elevated Installation >25' To 30', Add</i>	29.75	
			<i>For Elevated Installation >30' To 35', Add</i>	34.00	
			<i>For Elevated Installation >35' To 40', Add</i>	42.51	
			<i>For Elevated Installation >40', Add</i>	46.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.50	
26 05 33 13-0223	EA		6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	217.55	46.89
			<i>For Work In Restricted Working Space, Add</i>	28.13	
			<i>For Elevated Installation >10' To 15', Add</i>	9.38	
			<i>For Elevated Installation >15' To 20', Add</i>	18.75	
			<i>For Elevated Installation >20' To 25', Add</i>	23.44	
			<i>For Elevated Installation >25' To 30', Add</i>	32.82	
			<i>For Elevated Installation >30' To 35', Add</i>	37.50	
			<i>For Elevated Installation >35' To 40', Add</i>	46.88	
			<i>For Elevated Installation >40', Add</i>	51.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.13	
26 05 33 13-0224			Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)		
26 05 33 13-0225	EA		1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	18.90	5.75
			<i>For Work In Restricted Working Space, Add</i>	4.28	
			<i>For Elevated Installation >10' To 15', Add</i>	1.43	
			<i>For Elevated Installation >15' To 20', Add</i>	2.85	
			<i>For Elevated Installation >20' To 25', Add</i>	3.57	
			<i>For Elevated Installation >25' To 30', Add</i>	4.99	
			<i>For Elevated Installation >30' To 35', Add</i>	5.71	
			<i>For Elevated Installation >35' To 40', Add</i>	7.14	
			<i>For Elevated Installation >40', Add</i>	7.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.28	
26 05 33 13-0226	EA		3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	22.95	6.62
			<i>For Work In Restricted Working Space, Add</i>	4.96	
			<i>For Elevated Installation >10' To 15', Add</i>	1.65	
			<i>For Elevated Installation >15' To 20', Add</i>	3.30	
			<i>For Elevated Installation >20' To 25', Add</i>	4.13	
			<i>For Elevated Installation >25' To 30', Add</i>	5.78	
			<i>For Elevated Installation >30' To 35', Add</i>	6.61	
			<i>For Elevated Installation >35' To 40', Add</i>	8.26	
			<i>For Elevated Installation >40', Add</i>	9.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0227 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	30.17	8.00
For Work In Restricted Working Space, Add	5.97	
For Elevated Installation >10' To 15', Add	1.99	
For Elevated Installation >15' To 20', Add	3.98	
For Elevated Installation >20' To 25', Add	4.98	
For Elevated Installation >25' To 30', Add	6.97	
For Elevated Installation >30' To 35', Add	7.96	
For Elevated Installation >35' To 40', Add	9.96	
For Elevated Installation >40', Add	10.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.97	
26 05 33 13-0228 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	44.88	9.87
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.67	
For Elevated Installation >30' To 35', Add	9.91	
For Elevated Installation >35' To 40', Add	12.39	
For Elevated Installation >40', Add	13.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0229 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	60.78	13.25
For Work In Restricted Working Space, Add	9.95	
For Elevated Installation >10' To 15', Add	3.32	
For Elevated Installation >15' To 20', Add	6.63	
For Elevated Installation >20' To 25', Add	8.29	
For Elevated Installation >25' To 30', Add	11.61	
For Elevated Installation >30' To 35', Add	13.26	
For Elevated Installation >35' To 40', Add	16.58	
For Elevated Installation >40', Add	18.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.95	
26 05 33 13-0230 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	103.81	19.87
For Work In Restricted Working Space, Add	14.90	
For Elevated Installation >10' To 15', Add	4.97	
For Elevated Installation >15' To 20', Add	9.93	
For Elevated Installation >20' To 25', Add	12.42	
For Elevated Installation >25' To 30', Add	17.38	
For Elevated Installation >30' To 35', Add	19.86	
For Elevated Installation >35' To 40', Add	24.83	
For Elevated Installation >40', Add	27.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.90	
26 05 33 13-0231 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	189.01	22.00
For Work In Restricted Working Space, Add	16.50	
For Elevated Installation >10' To 15', Add	5.50	
For Elevated Installation >15' To 20', Add	11.00	
For Elevated Installation >20' To 25', Add	13.75	
For Elevated Installation >25' To 30', Add	19.25	
For Elevated Installation >30' To 35', Add	22.00	
For Elevated Installation >35' To 40', Add	27.50	
For Elevated Installation >40', Add	30.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-0232 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	225.25	26.63
For Work In Restricted Working Space, Add	19.99	
For Elevated Installation >10' To 15', Add	6.66	
For Elevated Installation >15' To 20', Add	13.33	
For Elevated Installation >20' To 25', Add	16.66	
For Elevated Installation >25' To 30', Add	23.32	
For Elevated Installation >30' To 35', Add	26.65	
For Elevated Installation >35' To 40', Add	33.32	
For Elevated Installation >40', Add	36.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.99	
26 05 33 13-0233 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	304.93	33.38
For Work In Restricted Working Space, Add	25.02	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.68	
For Elevated Installation >20' To 25', Add	20.85	
For Elevated Installation >25' To 30', Add	29.19	
For Elevated Installation >30' To 35', Add	33.36	
For Elevated Installation >35' To 40', Add	41.71	
For Elevated Installation >40', Add	45.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.02	
26 05 33 13-0234 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	357.08	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0235	EA		5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	630.76	44.51
			<i>For Work In Restricted Working Space, Add</i>	33.34	
			<i>For Elevated Installation >10' To 15', Add</i>	11.11	
			<i>For Elevated Installation >15' To 20', Add</i>	22.23	
			<i>For Elevated Installation >20' To 25', Add</i>	27.79	
			<i>For Elevated Installation >25' To 30', Add</i>	38.90	
			<i>For Elevated Installation >30' To 35', Add</i>	44.46	
			<i>For Elevated Installation >35' To 40', Add</i>	55.57	
			<i>For Elevated Installation >40', Add</i>	61.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.34	
26 05 33 13-0236	EA		6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	754.00	50.00
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Elevated Installation >10' To 15', Add</i>	12.50	
			<i>For Elevated Installation >15' To 20', Add</i>	25.00	
			<i>For Elevated Installation >20' To 25', Add</i>	31.25	
			<i>For Elevated Installation >25' To 30', Add</i>	43.75	
			<i>For Elevated Installation >30' To 35', Add</i>	50.00	
			<i>For Elevated Installation >35' To 40', Add</i>	62.50	
			<i>For Elevated Installation >40', Add</i>	68.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-0237 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0059)					
26 05 33 13-0238	EA		1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.71	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-0239	EA		3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.39	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-0240	EA		1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.04	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0241	EA		1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.42	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0242	EA		1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.71	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0243	EA		1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.83	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0244 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.58	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0245 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.24	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0246 EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.69	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0247 EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	35.15	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0248 EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.72	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.51	
For Elevated Installation >40', Add	19.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0249 EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.95	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0250 EA 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.74	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0251 EA 1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.53	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0252	EA	1-1/4" x 3"	Long, Rigid Galvanized Steel (RGS) Nipple.....	30.94	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0253	EA	1-1/2" x 3"	Long, Rigid Galvanized Steel (RGS) Nipple.....	35.45	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0254	EA	2" x 3"	Long, Rigid Galvanized Steel (RGS) Nipple.....	40.45	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0255	EA	2-1/2" x 3"	Long, Rigid Galvanized Steel (RGS) Nipple.....	53.76	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-0256	EA	3" x 3"	Long, Rigid Galvanized Steel (RGS) Nipple.....	72.58	29.38
			<i>For Work In Restricted Working Space, Add</i>	17.63	
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.56	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-0257	EA	1/2" x 3-1/2"	Long, Rigid Galvanized Steel (RGS) Nipple.....	18.12	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-0258	EA	3/4" x 3-1/2"	Long, Rigid Galvanized Steel (RGS) Nipple.....	20.83	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-0259	EA	1" x 3-1/2"	Long, Rigid Galvanized Steel (RGS) Nipple.....	26.90	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0260 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.41	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0261 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.07	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0262 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple.....	41.20	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0263 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	55.81	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0264 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	74.35	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0265 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.27	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0266 EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.11	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0267 EA 1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.13	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0268	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.64	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33	13-0269	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.50	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33	13-0270	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	41.85	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33	13-0271	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	56.43	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33	13-0272	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	75.66	29.38
			<i>For Work In Restricted Working Space, Add</i>	17.63	
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.56	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33	13-0273	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	86.84	33.12
			<i>For Work In Restricted Working Space, Add</i>	19.88	
			<i>For Elevated Installation >10' To 15', Add</i>	6.63	
			<i>For Elevated Installation >15' To 20', Add</i>	13.25	
			<i>For Elevated Installation >20' To 25', Add</i>	16.56	
			<i>For Elevated Installation >25' To 30', Add</i>	23.19	
			<i>For Elevated Installation >30' To 35', Add</i>	26.50	
			<i>For Elevated Installation >35' To 40', Add</i>	33.13	
			<i>For Elevated Installation >40', Add</i>	36.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33	13-0274	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	109.36	43.13
			<i>For Work In Restricted Working Space, Add</i>	25.88	
			<i>For Elevated Installation >10' To 15', Add</i>	8.63	
			<i>For Elevated Installation >15' To 20', Add</i>	17.25	
			<i>For Elevated Installation >20' To 25', Add</i>	21.56	
			<i>For Elevated Installation >25' To 30', Add</i>	30.19	
			<i>For Elevated Installation >30' To 35', Add</i>	34.50	
			<i>For Elevated Installation >35' To 40', Add</i>	43.13	
			<i>For Elevated Installation >40', Add</i>	47.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33	13-0275	EA	1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.51	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0276 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.46	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0277 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.58	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0278 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.30	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0279 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.14	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0280 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.99	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0281 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	58.97	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0282 EA 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	78.41	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0283 EA 3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	89.57	33.12
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.56	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.50	
For Elevated Installation >35' To 40', Add	33.13	
For Elevated Installation >40', Add	36.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0284	EA		4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	113.35	43.13
			<i>For Work In Restricted Working Space, Add</i>	25.88	
			<i>For Elevated Installation >10' To 15', Add</i>	8.63	
			<i>For Elevated Installation >15' To 20', Add</i>	17.25	
			<i>For Elevated Installation >20' To 25', Add</i>	21.56	
			<i>For Elevated Installation >25' To 30', Add</i>	30.19	
			<i>For Elevated Installation >30' To 35', Add</i>	34.50	
			<i>For Elevated Installation >35' To 40', Add</i>	43.13	
			<i>For Elevated Installation >40', Add</i>	47.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-0285	EA		5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	171.36	59.38
			<i>For Work In Restricted Working Space, Add</i>	35.63	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.75	
			<i>For Elevated Installation >20' To 25', Add</i>	29.69	
			<i>For Elevated Installation >25' To 30', Add</i>	41.57	
			<i>For Elevated Installation >30' To 35', Add</i>	47.50	
			<i>For Elevated Installation >35' To 40', Add</i>	59.38	
			<i>For Elevated Installation >40', Add</i>	65.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-0286	EA		6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	217.92	76.13
			<i>For Work In Restricted Working Space, Add</i>	45.71	
			<i>For Elevated Installation >10' To 15', Add</i>	15.24	
			<i>For Elevated Installation >15' To 20', Add</i>	30.47	
			<i>For Elevated Installation >20' To 25', Add</i>	38.09	
			<i>For Elevated Installation >25' To 30', Add</i>	53.33	
			<i>For Elevated Installation >30' To 35', Add</i>	60.94	
			<i>For Elevated Installation >35' To 40', Add</i>	76.18	
			<i>For Elevated Installation >40', Add</i>	83.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.71	
26 05 33 13-0287	EA		1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	18.95	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-0288	EA		3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	21.91	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-0289	EA		1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	27.94	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0290	EA		1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	32.90	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0291	EA		1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	38.49	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0292 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	44.14	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0293 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	61.19	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0294 EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	81.20	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0295 EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	92.90	33.12
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.56	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.50	
For Elevated Installation >35' To 40', Add	33.13	
For Elevated Installation >40', Add	36.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	
26 05 33 13-0296 EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	116.51	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-0297 EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	176.00	59.38
For Work In Restricted Working Space, Add	35.63	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.75	
For Elevated Installation >20' To 25', Add	29.69	
For Elevated Installation >25' To 30', Add	41.57	
For Elevated Installation >30' To 35', Add	47.50	
For Elevated Installation >35' To 40', Add	59.38	
For Elevated Installation >40', Add	65.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63	
26 05 33 13-0298 EA 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	224.70	76.13
For Work In Restricted Working Space, Add	45.71	
For Elevated Installation >10' To 15', Add	15.24	
For Elevated Installation >15' To 20', Add	30.47	
For Elevated Installation >20' To 25', Add	38.09	
For Elevated Installation >25' To 30', Add	53.33	
For Elevated Installation >30' To 35', Add	60.94	
For Elevated Installation >35' To 40', Add	76.18	
For Elevated Installation >40', Add	83.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71	
26 05 33 13-0299 EA 1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.56	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0300	EA		3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.97	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-0301	EA		1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.35	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0302	EA		1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.34	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0303	EA		1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.32	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0304	EA		2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	48.18	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0305	EA		2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	67.08	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-0306	EA		3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	87.96	29.38
			<i>For Work In Restricted Working Space, Add</i>	17.63	
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.56	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-0307	EA		3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	99.64	33.12
			<i>For Work In Restricted Working Space, Add</i>	19.88	
			<i>For Elevated Installation >10' To 15', Add</i>	6.63	
			<i>For Elevated Installation >15' To 20', Add</i>	13.25	
			<i>For Elevated Installation >20' To 25', Add</i>	16.56	
			<i>For Elevated Installation >25' To 30', Add</i>	23.19	
			<i>For Elevated Installation >30' To 35', Add</i>	26.50	
			<i>For Elevated Installation >35' To 40', Add</i>	33.13	
			<i>For Elevated Installation >40', Add</i>	36.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0308 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	123.97	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-0309 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	186.74	59.38
For Work In Restricted Working Space, Add	35.63	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.75	
For Elevated Installation >20' To 25', Add	29.69	
For Elevated Installation >25' To 30', Add	41.57	
For Elevated Installation >30' To 35', Add	47.50	
For Elevated Installation >35' To 40', Add	59.38	
For Elevated Installation >40', Add	65.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63	
26 05 33 13-0310 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	236.77	76.13
For Work In Restricted Working Space, Add	45.71	
For Elevated Installation >10' To 15', Add	15.24	
For Elevated Installation >15' To 20', Add	30.47	
For Elevated Installation >20' To 25', Add	38.09	
For Elevated Installation >25' To 30', Add	53.33	
For Elevated Installation >30' To 35', Add	60.94	
For Elevated Installation >35' To 40', Add	76.18	
For Elevated Installation >40', Add	83.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71	
26 05 33 13-0311 EA 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.64	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0312 EA 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	25.01	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0313 EA 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.27	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0314 EA 1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	38.63	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0315 EA 1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	44.57	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0316	EA		2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	50.79	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0317	EA		2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	71.04	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-0318	EA		3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	93.28	29.38
			<i>For Work In Restricted Working Space, Add</i>	17.63	
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.56	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-0319	EA		3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	106.64	33.12
			<i>For Work In Restricted Working Space, Add</i>	19.88	
			<i>For Elevated Installation >10' To 15', Add</i>	6.63	
			<i>For Elevated Installation >15' To 20', Add</i>	13.25	
			<i>For Elevated Installation >20' To 25', Add</i>	16.56	
			<i>For Elevated Installation >25' To 30', Add</i>	23.19	
			<i>For Elevated Installation >30' To 35', Add</i>	26.50	
			<i>For Elevated Installation >35' To 40', Add</i>	33.13	
			<i>For Elevated Installation >40', Add</i>	36.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-0320	EA		4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	132.83	43.13
			<i>For Work In Restricted Working Space, Add</i>	25.88	
			<i>For Elevated Installation >10' To 15', Add</i>	8.63	
			<i>For Elevated Installation >15' To 20', Add</i>	17.25	
			<i>For Elevated Installation >20' To 25', Add</i>	21.56	
			<i>For Elevated Installation >25' To 30', Add</i>	30.19	
			<i>For Elevated Installation >30' To 35', Add</i>	34.50	
			<i>For Elevated Installation >35' To 40', Add</i>	43.13	
			<i>For Elevated Installation >40', Add</i>	47.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-0321	EA		5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	198.46	59.38
			<i>For Work In Restricted Working Space, Add</i>	35.63	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.75	
			<i>For Elevated Installation >20' To 25', Add</i>	29.69	
			<i>For Elevated Installation >25' To 30', Add</i>	41.57	
			<i>For Elevated Installation >30' To 35', Add</i>	47.50	
			<i>For Elevated Installation >35' To 40', Add</i>	59.38	
			<i>For Elevated Installation >40', Add</i>	65.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-0322	EA		6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	257.85	76.13
			<i>For Work In Restricted Working Space, Add</i>	45.71	
			<i>For Elevated Installation >10' To 15', Add</i>	15.24	
			<i>For Elevated Installation >15' To 20', Add</i>	30.47	
			<i>For Elevated Installation >20' To 25', Add</i>	38.09	
			<i>For Elevated Installation >25' To 30', Add</i>	53.33	
			<i>For Elevated Installation >30' To 35', Add</i>	60.94	
			<i>For Elevated Installation >35' To 40', Add</i>	76.18	
			<i>For Elevated Installation >40', Add</i>	83.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.71	
26 05 33 13-0323	EA		1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	22.47	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0324 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	25.79	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0325 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.43	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0326 EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	40.45	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0327 EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	45.70	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0328 EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	52.97	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0329 EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	75.69	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0330 EA 3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	100.67	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0331 EA 3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	113.46	33.12
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.56	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.50	
For Elevated Installation >35' To 40', Add	33.13	
For Elevated Installation >40', Add	36.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0332	EA		4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	141.71	43.13
			<i>For Work In Restricted Working Space, Add</i>	25.88	
			<i>For Elevated Installation >10' To 15', Add</i>	8.63	
			<i>For Elevated Installation >15' To 20', Add</i>	17.25	
			<i>For Elevated Installation >20' To 25', Add</i>	21.56	
			<i>For Elevated Installation >25' To 30', Add</i>	30.19	
			<i>For Elevated Installation >30' To 35', Add</i>	34.50	
			<i>For Elevated Installation >35' To 40', Add</i>	43.13	
			<i>For Elevated Installation >40', Add</i>	47.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-0333	EA		5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	215.31	59.38
			<i>For Work In Restricted Working Space, Add</i>	35.63	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.75	
			<i>For Elevated Installation >20' To 25', Add</i>	29.69	
			<i>For Elevated Installation >25' To 30', Add</i>	41.57	
			<i>For Elevated Installation >30' To 35', Add</i>	47.50	
			<i>For Elevated Installation >35' To 40', Add</i>	59.38	
			<i>For Elevated Installation >40', Add</i>	65.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-0334	EA		6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	269.57	76.13
			<i>For Work In Restricted Working Space, Add</i>	45.71	
			<i>For Elevated Installation >10' To 15', Add</i>	15.24	
			<i>For Elevated Installation >15' To 20', Add</i>	30.47	
			<i>For Elevated Installation >20' To 25', Add</i>	38.09	
			<i>For Elevated Installation >25' To 30', Add</i>	53.33	
			<i>For Elevated Installation >30' To 35', Add</i>	60.94	
			<i>For Elevated Installation >35' To 40', Add</i>	76.18	
			<i>For Elevated Installation >40', Add</i>	83.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.71	
26 05 33 13-0335			Rigid Galvanized Steel (RGS) Off-Set Nipples <small>(26 05 33 13-0059)</small>		
26 05 33 13-0336	EA		1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	18.85	6.50
			<i>For Work In Restricted Working Space, Add</i>	4.91	
			<i>For Elevated Installation >10' To 15', Add</i>	1.64	
			<i>For Elevated Installation >15' To 20', Add</i>	3.28	
			<i>For Elevated Installation >20' To 25', Add</i>	4.10	
			<i>For Elevated Installation >25' To 30', Add</i>	5.73	
			<i>For Elevated Installation >30' To 35', Add</i>	6.55	
			<i>For Elevated Installation >35' To 40', Add</i>	8.19	
			<i>For Elevated Installation >40', Add</i>	9.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.91	
26 05 33 13-0337	EA		3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	22.43	7.50
			<i>For Work In Restricted Working Space, Add</i>	5.60	
			<i>For Elevated Installation >10' To 15', Add</i>	1.87	
			<i>For Elevated Installation >15' To 20', Add</i>	3.73	
			<i>For Elevated Installation >20' To 25', Add</i>	4.66	
			<i>For Elevated Installation >25' To 30', Add</i>	6.53	
			<i>For Elevated Installation >30' To 35', Add</i>	7.46	
			<i>For Elevated Installation >35' To 40', Add</i>	9.33	
			<i>For Elevated Installation >40', Add</i>	10.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.60	
26 05 33 13-0338	EA		1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	28.17	9.50
			<i>For Work In Restricted Working Space, Add</i>	7.16	
			<i>For Elevated Installation >10' To 15', Add</i>	2.39	
			<i>For Elevated Installation >15' To 20', Add</i>	4.77	
			<i>For Elevated Installation >20' To 25', Add</i>	5.96	
			<i>For Elevated Installation >25' To 30', Add</i>	8.35	
			<i>For Elevated Installation >30' To 35', Add</i>	9.54	
			<i>For Elevated Installation >35' To 40', Add</i>	11.93	
			<i>For Elevated Installation >40', Add</i>	13.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.16	
26 05 33 13-0339	EA		1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	35.55	11.38
			<i>For Work In Restricted Working Space, Add</i>	8.57	
			<i>For Elevated Installation >10' To 15', Add</i>	2.86	
			<i>For Elevated Installation >15' To 20', Add</i>	5.72	
			<i>For Elevated Installation >20' To 25', Add</i>	7.15	
			<i>For Elevated Installation >25' To 30', Add</i>	10.00	
			<i>For Elevated Installation >30' To 35', Add</i>	11.43	
			<i>For Elevated Installation >35' To 40', Add</i>	14.29	
			<i>For Elevated Installation >40', Add</i>	15.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57	
26 05 33 13-0340	EA		1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	38.93	12.50
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.26	
			<i>For Elevated Installation >20' To 25', Add</i>	7.82	
			<i>For Elevated Installation >25' To 30', Add</i>	10.95	
			<i>For Elevated Installation >30' To 35', Add</i>	12.51	
			<i>For Elevated Installation >35' To 40', Add</i>	15.64	
			<i>For Elevated Installation >40', Add</i>	17.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0341 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	50.67	15.37
<i>For Work In Restricted Working Space, Add</i>	11.56	
<i>For Elevated Installation >10' To 15', Add</i>	3.85	
<i>For Elevated Installation >15' To 20', Add</i>	7.71	
<i>For Elevated Installation >20' To 25', Add</i>	9.63	
<i>For Elevated Installation >25' To 30', Add</i>	13.49	
<i>For Elevated Installation >30' To 35', Add</i>	15.41	
<i>For Elevated Installation >35' To 40', Add</i>	19.27	
<i>For Elevated Installation >40', Add</i>	21.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.56	
26 05 33 13-0342 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	82.75	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0343 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	132.23	34.51
<i>For Work In Restricted Working Space, Add</i>	25.88	
<i>For Elevated Installation >10' To 15', Add</i>	8.63	
<i>For Elevated Installation >15' To 20', Add</i>	17.25	
<i>For Elevated Installation >20' To 25', Add</i>	21.57	
<i>For Elevated Installation >25' To 30', Add</i>	30.19	
<i>For Elevated Installation >30' To 35', Add</i>	34.50	
<i>For Elevated Installation >35' To 40', Add</i>	43.13	
<i>For Elevated Installation >40', Add</i>	47.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-0344 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	163.40	40.75
<i>For Work In Restricted Working Space, Add</i>	30.40	
<i>For Elevated Installation >10' To 15', Add</i>	10.13	
<i>For Elevated Installation >15' To 20', Add</i>	20.27	
<i>For Elevated Installation >20' To 25', Add</i>	25.33	
<i>For Elevated Installation >25' To 30', Add</i>	35.47	
<i>For Elevated Installation >30' To 35', Add</i>	40.53	
<i>For Elevated Installation >35' To 40', Add</i>	50.67	
<i>For Elevated Installation >40', Add</i>	55.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.40	
26 05 33 13-0345 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	195.62	47.01
<i>For Work In Restricted Working Space, Add</i>	35.26	
<i>For Elevated Installation >10' To 15', Add</i>	11.75	
<i>For Elevated Installation >15' To 20', Add</i>	23.51	
<i>For Elevated Installation >20' To 25', Add</i>	29.38	
<i>For Elevated Installation >25' To 30', Add</i>	41.14	
<i>For Elevated Installation >30' To 35', Add</i>	47.01	
<i>For Elevated Installation >35' To 40', Add</i>	58.77	
<i>For Elevated Installation >40', Add</i>	64.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.26	
26 05 33 13-0346 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling <small>(26 05 33 13-0059)</small>		
Note: Erickson fittings.		
26 05 33 13-0347 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	51.73	20.00
<i>For Work In Restricted Working Space, Add</i>	15.02	
<i>For Elevated Installation >10' To 15', Add</i>	5.01	
<i>For Elevated Installation >15' To 20', Add</i>	10.01	
<i>For Elevated Installation >20' To 25', Add</i>	12.52	
<i>For Elevated Installation >25' To 30', Add</i>	17.52	
<i>For Elevated Installation >30' To 35', Add</i>	20.02	
<i>For Elevated Installation >35' To 40', Add</i>	25.03	
<i>For Elevated Installation >40', Add</i>	27.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.02	
26 05 33 13-0348 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	58.02	22.38
<i>For Work In Restricted Working Space, Add</i>	16.76	
<i>For Elevated Installation >10' To 15', Add</i>	5.59	
<i>For Elevated Installation >15' To 20', Add</i>	11.18	
<i>For Elevated Installation >20' To 25', Add</i>	13.97	
<i>For Elevated Installation >25' To 30', Add</i>	19.56	
<i>For Elevated Installation >30' To 35', Add</i>	22.35	
<i>For Elevated Installation >35' To 40', Add</i>	27.94	
<i>For Elevated Installation >40', Add</i>	30.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.76	
26 05 33 13-0349 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	66.19	24.88
<i>For Work In Restricted Working Space, Add</i>	18.67	
<i>For Elevated Installation >10' To 15', Add</i>	6.22	
<i>For Elevated Installation >15' To 20', Add</i>	12.45	
<i>For Elevated Installation >20' To 25', Add</i>	15.56	
<i>For Elevated Installation >25' To 30', Add</i>	21.78	
<i>For Elevated Installation >30' To 35', Add</i>	24.90	
<i>For Elevated Installation >35' To 40', Add</i>	31.12	
<i>For Elevated Installation >40', Add</i>	34.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.67	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0350 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	76.53	27.25
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15', Add	6.81	
For Elevated Installation >15' To 20', Add	13.62	
For Elevated Installation >20' To 25', Add	17.03	
For Elevated Installation >25' To 30', Add	23.84	
For Elevated Installation >30' To 35', Add	27.24	
For Elevated Installation >35' To 40', Add	34.06	
For Elevated Installation >40', Add	37.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-0351 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	84.62	29.76
For Work In Restricted Working Space, Add	22.36	
For Elevated Installation >10' To 15', Add	7.45	
For Elevated Installation >15' To 20', Add	14.90	
For Elevated Installation >20' To 25', Add	18.63	
For Elevated Installation >25' To 30', Add	26.08	
For Elevated Installation >30' To 35', Add	29.81	
For Elevated Installation >35' To 40', Add	37.26	
For Elevated Installation >40', Add	40.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.36	
26 05 33 13-0352 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	100.92	32.25
For Work In Restricted Working Space, Add	24.21	
For Elevated Installation >10' To 15', Add	8.07	
For Elevated Installation >15' To 20', Add	16.14	
For Elevated Installation >20' To 25', Add	20.18	
For Elevated Installation >25' To 30', Add	28.25	
For Elevated Installation >30' To 35', Add	32.28	
For Elevated Installation >35' To 40', Add	40.35	
For Elevated Installation >40', Add	44.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.21	
26 05 33 13-0353 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	146.85	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-0354 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	196.10	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	
26 05 33 13-0355 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	268.48	60.01
For Work In Restricted Working Space, Add	45.02	
For Elevated Installation >10' To 15', Add	15.01	
For Elevated Installation >15' To 20', Add	30.01	
For Elevated Installation >20' To 25', Add	37.52	
For Elevated Installation >25' To 30', Add	52.52	
For Elevated Installation >30' To 35', Add	60.03	
For Elevated Installation >35' To 40', Add	75.04	
For Elevated Installation >40', Add	82.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.02	
26 05 33 13-0356 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	301.76	65.01
For Work In Restricted Working Space, Add	48.75	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.50	
For Elevated Installation >20' To 25', Add	40.63	
For Elevated Installation >25' To 30', Add	56.88	
For Elevated Installation >30' To 35', Add	65.00	
For Elevated Installation >35' To 40', Add	81.26	
For Elevated Installation >40', Add	89.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 05 33 13-0357 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	485.78	80.01
For Work In Restricted Working Space, Add	60.00	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.00	
For Elevated Installation >25' To 30', Add	70.00	
For Elevated Installation >30' To 35', Add	80.00	
For Elevated Installation >35' To 40', Add	100.00	
For Elevated Installation >40', Add	110.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0358 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	612.17	92.51
<i>For Work In Restricted Working Space, Add</i>	69.38	
<i>For Elevated Installation >10' To 15', Add</i>	23.13	
<i>For Elevated Installation >15' To 20', Add</i>	46.25	
<i>For Elevated Installation >20' To 25', Add</i>	57.81	
<i>For Elevated Installation >25' To 30', Add</i>	80.94	
<i>For Elevated Installation >30' To 35', Add</i>	92.50	
<i>For Elevated Installation >35' To 40', Add</i>	115.63	
<i>For Elevated Installation >40', Add</i>	127.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.38	
26 05 33 13-0359 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors		
<small>(26 05 33 13-0059)</small>		
26 05 33 13-0360 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	31.64	10.00
<i>For Work In Restricted Working Space, Add</i>	7.50	
<i>For Elevated Installation >10' To 15', Add</i>	2.50	
<i>For Elevated Installation >15' To 20', Add</i>	5.00	
<i>For Elevated Installation >20' To 25', Add</i>	6.25	
<i>For Elevated Installation >25' To 30', Add</i>	8.75	
<i>For Elevated Installation >30' To 35', Add</i>	10.00	
<i>For Elevated Installation >35' To 40', Add</i>	12.51	
<i>For Elevated Installation >40', Add</i>	13.76	
26 05 33 13-0361 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	35.34	11.00
<i>For Work In Restricted Working Space, Add</i>	8.25	
<i>For Elevated Installation >10' To 15', Add</i>	2.75	
<i>For Elevated Installation >15' To 20', Add</i>	5.00	
<i>For Elevated Installation >20' To 25', Add</i>	6.88	
<i>For Elevated Installation >25' To 30', Add</i>	9.63	
<i>For Elevated Installation >30' To 35', Add</i>	11.00	
<i>For Elevated Installation >35' To 40', Add</i>	13.75	
<i>For Elevated Installation >40', Add</i>	15.13	
26 05 33 13-0362 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	40.60	12.50
<i>For Work In Restricted Working Space, Add</i>	9.38	
<i>For Elevated Installation >10' To 15', Add</i>	3.13	
<i>For Elevated Installation >15' To 20', Add</i>	6.25	
<i>For Elevated Installation >20' To 25', Add</i>	7.82	
<i>For Elevated Installation >25' To 30', Add</i>	10.94	
<i>For Elevated Installation >30' To 35', Add</i>	12.50	
<i>For Elevated Installation >35' To 40', Add</i>	15.63	
<i>For Elevated Installation >40', Add</i>	17.19	
26 05 33 13-0363 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	46.09	13.50
<i>For Work In Restricted Working Space, Add</i>	10.13	
<i>For Elevated Installation >10' To 15', Add</i>	3.38	
<i>For Elevated Installation >15' To 20', Add</i>	6.75	
<i>For Elevated Installation >20' To 25', Add</i>	8.44	
<i>For Elevated Installation >25' To 30', Add</i>	11.82	
<i>For Elevated Installation >30' To 35', Add</i>	13.50	
<i>For Elevated Installation >35' To 40', Add</i>	16.88	
<i>For Elevated Installation >40', Add</i>	18.57	
26 05 33 13-0364 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	54.68	15.00
<i>For Work In Restricted Working Space, Add</i>	11.25	
<i>For Elevated Installation >10' To 15', Add</i>	3.75	
<i>For Elevated Installation >15' To 20', Add</i>	7.50	
<i>For Elevated Installation >20' To 25', Add</i>	9.38	
<i>For Elevated Installation >25' To 30', Add</i>	13.13	
<i>For Elevated Installation >30' To 35', Add</i>	15.00	
<i>For Elevated Installation >35' To 40', Add</i>	18.75	
<i>For Elevated Installation >40', Add</i>	20.63	
26 05 33 13-0365 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	66.66	16.50
<i>For Work In Restricted Working Space, Add</i>	12.38	
<i>For Elevated Installation >10' To 15', Add</i>	4.13	
<i>For Elevated Installation >15' To 20', Add</i>	8.25	
<i>For Elevated Installation >20' To 25', Add</i>	10.32	
<i>For Elevated Installation >25' To 30', Add</i>	14.44	
<i>For Elevated Installation >30' To 35', Add</i>	16.50	
<i>For Elevated Installation >35' To 40', Add</i>	20.63	
<i>For Elevated Installation >40', Add</i>	22.69	
26 05 33 13-0366 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	90.71	20.00
<i>For Work In Restricted Working Space, Add</i>	15.00	
<i>For Elevated Installation >10' To 15', Add</i>	5.00	
<i>For Elevated Installation >15' To 20', Add</i>	10.00	
<i>For Elevated Installation >20' To 25', Add</i>	12.50	
<i>For Elevated Installation >25' To 30', Add</i>	17.50	
<i>For Elevated Installation >30' To 35', Add</i>	20.00	
<i>For Elevated Installation >35' To 40', Add</i>	25.00	
<i>For Elevated Installation >40', Add</i>	27.50	
26 05 33 13-0367 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	112.19	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0368 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	134.77	30.01
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0369 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	152.23	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0370 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs <small>(26 05 33 13-0059)</small>		
26 05 33 13-0371 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	25.44	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0372 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	28.33	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0373 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	35.14	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0374 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	42.79	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	
26 05 33 13-0375 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	55.82	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0376 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	64.03	28.13
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0377 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	75.70	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0378 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	99.44	39.38
For Work In Restricted Working Space, Add	23.63	
For Elevated Installation >10' To 15', Add	7.88	
For Elevated Installation >15' To 20', Add	15.75	
For Elevated Installation >20' To 25', Add	19.69	
For Elevated Installation >25' To 30', Add	27.57	
For Elevated Installation >30' To 35', Add	31.50	
For Elevated Installation >35' To 40', Add	39.38	
For Elevated Installation >40', Add	43.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	
26 05 33 13-0379 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	118.76	47.51
For Work In Restricted Working Space, Add	28.50	
For Elevated Installation >10' To 15', Add	9.50	
For Elevated Installation >15' To 20', Add	19.00	
For Elevated Installation >20' To 25', Add	23.75	
For Elevated Installation >25' To 30', Add	33.25	
For Elevated Installation >30' To 35', Add	38.00	
For Elevated Installation >35' To 40', Add	47.51	
For Elevated Installation >40', Add	52.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.50	
26 05 33 13-0380 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	143.82	56.26
For Work In Restricted Working Space, Add	33.75	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.75	
26 05 33 13-0381 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement ^(26 05 33 13-0059)		
Note: Type AX		
26 05 33 13-0382 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	126.35	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.01	
For Elevated Installation >40', Add	27.51	
26 05 33 13-0383 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	143.41	22.50
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
26 05 33 13-0384 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	169.73	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0385 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	207.64	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.07	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.82	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0386 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	260.61	30.01
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0387 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	359.65	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.31	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0388 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	550.05	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0389 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	704.64	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0390 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,027.78	60.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.01	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.02	
For Elevated Installation >40', Add	82.52	
26 05 33 13-0391 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,095.68	65.01
For Work In Restricted Working Space, Add	48.75	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.50	
For Elevated Installation >20' To 25', Add	40.63	
For Elevated Installation >25' To 30', Add	56.88	
For Elevated Installation >30' To 35', Add	65.00	
For Elevated Installation >35' To 40', Add	81.26	
For Elevated Installation >40', Add	89.38	
26 05 33 13-0392 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,676.91	80.01
For Work In Restricted Working Space, Add	60.01	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.01	
For Elevated Installation >25' To 30', Add	70.01	
For Elevated Installation >30' To 35', Add	80.01	
For Elevated Installation >35' To 40', Add	100.01	
For Elevated Installation >40', Add	110.01	
26 05 33 13-0393 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	2,059.31	88.76
For Work In Restricted Working Space, Add	66.61	
For Elevated Installation >10' To 15', Add	22.20	
For Elevated Installation >15' To 20', Add	44.41	
For Elevated Installation >20' To 25', Add	55.51	
For Elevated Installation >25' To 30', Add	77.71	
For Elevated Installation >30' To 35', Add	88.81	
For Elevated Installation >35' To 40', Add	111.02	
For Elevated Installation >40', Add	122.12	
26 05 33 13-0394 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement <small>(26 05 33 13-0399)</small>		
Note: Type AX-8		
26 05 33 13-0395 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	139.12	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.01	
For Elevated Installation >40', Add	27.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0396 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	154.72	22.50
<i>For Work In Restricted Working Space, Add</i>	16.88	
<i>For Elevated Installation >10' To 15', Add</i>	5.63	
<i>For Elevated Installation >15' To 20', Add</i>	11.25	
<i>For Elevated Installation >20' To 25', Add</i>	14.07	
<i>For Elevated Installation >25' To 30', Add</i>	19.69	
<i>For Elevated Installation >30' To 35', Add</i>	22.50	
<i>For Elevated Installation >35' To 40', Add</i>	28.13	
<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0397 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	187.47	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0398 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	235.58	27.50
<i>For Work In Restricted Working Space, Add</i>	20.63	
<i>For Elevated Installation >10' To 15', Add</i>	6.88	
<i>For Elevated Installation >15' To 20', Add</i>	13.75	
<i>For Elevated Installation >20' To 25', Add</i>	17.19	
<i>For Elevated Installation >25' To 30', Add</i>	24.07	
<i>For Elevated Installation >30' To 35', Add</i>	27.50	
<i>For Elevated Installation >35' To 40', Add</i>	34.38	
<i>For Elevated Installation >40', Add</i>	37.82	
26 05 33 13-0399 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	316.14	30.01
<i>For Work In Restricted Working Space, Add</i>	22.50	
<i>For Elevated Installation >10' To 15', Add</i>	7.50	
<i>For Elevated Installation >15' To 20', Add</i>	15.00	
<i>For Elevated Installation >20' To 25', Add</i>	18.75	
<i>For Elevated Installation >25' To 30', Add</i>	26.25	
<i>For Elevated Installation >30' To 35', Add</i>	30.00	
<i>For Elevated Installation >35' To 40', Add</i>	37.51	
<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0400 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	386.18	32.50
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.31	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
26 05 33 13-0401 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	722.05	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
26 05 33 13-0402 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	822.09	50.00
<i>For Work In Restricted Working Space, Add</i>	37.50	
<i>For Elevated Installation >10' To 15', Add</i>	12.50	
<i>For Elevated Installation >15' To 20', Add</i>	25.00	
<i>For Elevated Installation >20' To 25', Add</i>	31.25	
<i>For Elevated Installation >25' To 30', Add</i>	43.75	
<i>For Elevated Installation >30' To 35', Add</i>	50.00	
<i>For Elevated Installation >35' To 40', Add</i>	62.51	
<i>For Elevated Installation >40', Add</i>	68.76	
26 05 33 13-0403 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,259.90	60.01
<i>For Work In Restricted Working Space, Add</i>	45.01	
<i>For Elevated Installation >10' To 15', Add</i>	15.00	
<i>For Elevated Installation >15' To 20', Add</i>	30.01	
<i>For Elevated Installation >20' To 25', Add</i>	37.51	
<i>For Elevated Installation >25' To 30', Add</i>	52.51	
<i>For Elevated Installation >30' To 35', Add</i>	60.01	
<i>For Elevated Installation >35' To 40', Add</i>	75.02	
<i>For Elevated Installation >40', Add</i>	82.52	
26 05 33 13-0404 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,363.97	65.01
<i>For Work In Restricted Working Space, Add</i>	48.75	
<i>For Elevated Installation >10' To 15', Add</i>	16.25	
<i>For Elevated Installation >15' To 20', Add</i>	32.50	
<i>For Elevated Installation >20' To 25', Add</i>	40.63	
<i>For Elevated Installation >25' To 30', Add</i>	56.88	
<i>For Elevated Installation >30' To 35', Add</i>	65.00	
<i>For Elevated Installation >35' To 40', Add</i>	81.26	
<i>For Elevated Installation >40', Add</i>	89.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0405	EA		5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,903.05	80.01
			<i>For Work In Restricted Working Space, Add</i>	60.01	
			<i>For Elevated Installation >10' To 15', Add</i>	20.00	
			<i>For Elevated Installation >15' To 20', Add</i>	40.00	
			<i>For Elevated Installation >20' To 25', Add</i>	50.01	
			<i>For Elevated Installation >25' To 30', Add</i>	70.01	
			<i>For Elevated Installation >30' To 35', Add</i>	80.01	
			<i>For Elevated Installation >35' To 40', Add</i>	100.01	
			<i>For Elevated Installation >40', Add</i>	110.01	
26 05 33 13-0406	EA		6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	2,350.27	88.76
			<i>For Work In Restricted Working Space, Add</i>	66.61	
			<i>For Elevated Installation >10' To 15', Add</i>	22.20	
			<i>For Elevated Installation >15' To 20', Add</i>	44.41	
			<i>For Elevated Installation >20' To 25', Add</i>	55.51	
			<i>For Elevated Installation >25' To 30', Add</i>	77.71	
			<i>For Elevated Installation >30' To 35', Add</i>	88.81	
			<i>For Elevated Installation >35' To 40', Add</i>	111.02	
			<i>For Elevated Installation >40', Add</i>	122.12	
26 05 33 13-0407			Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement <small>(26 05 33 13-0059)</small>		
			Note: Type EX		
26 05 33 13-0408	EA		1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	157.80	20.00
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.01	
			<i>For Elevated Installation >40', Add</i>	27.51	
26 05 33 13-0409	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	198.76	22.50
			<i>For Work In Restricted Working Space, Add</i>	16.88	
			<i>For Elevated Installation >10' To 15', Add</i>	5.63	
			<i>For Elevated Installation >15' To 20', Add</i>	11.25	
			<i>For Elevated Installation >20' To 25', Add</i>	14.07	
			<i>For Elevated Installation >25' To 30', Add</i>	19.69	
			<i>For Elevated Installation >30' To 35', Add</i>	22.50	
			<i>For Elevated Installation >35' To 40', Add</i>	28.13	
			<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0410	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	246.97	25.01
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0411	EA		1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	300.00	27.50
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.07	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.82	
26 05 33 13-0412	EA		1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	403.37	30.01
			<i>For Work In Restricted Working Space, Add</i>	22.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.75	
			<i>For Elevated Installation >25' To 30', Add</i>	26.25	
			<i>For Elevated Installation >30' To 35', Add</i>	30.00	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0413	EA		2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	554.75	32.50
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.31	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
26 05 33 13-0414	EA		2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	860.84	40.00
			<i>For Work In Restricted Working Space, Add</i>	30.00	
			<i>For Elevated Installation >10' To 15', Add</i>	10.00	
			<i>For Elevated Installation >15' To 20', Add</i>	20.00	
			<i>For Elevated Installation >20' To 25', Add</i>	25.00	
			<i>For Elevated Installation >25' To 30', Add</i>	35.00	
			<i>For Elevated Installation >30' To 35', Add</i>	40.00	
			<i>For Elevated Installation >35' To 40', Add</i>	50.01	
			<i>For Elevated Installation >40', Add</i>	55.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0415 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,160.00	50.00
<i>For Work In Restricted Working Space, Add</i>	37.50	
<i>For Elevated Installation >10' To 15', Add</i>	12.50	
<i>For Elevated Installation >15' To 20', Add</i>	25.00	
<i>For Elevated Installation >20' To 25', Add</i>	31.25	
<i>For Elevated Installation >25' To 30', Add</i>	43.75	
<i>For Elevated Installation >30' To 35', Add</i>	50.00	
<i>For Elevated Installation >35' To 40', Add</i>	62.51	
<i>For Elevated Installation >40', Add</i>	68.76	
26 05 33 13-0416 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,740.51	60.01
<i>For Work In Restricted Working Space, Add</i>	45.01	
<i>For Elevated Installation >10' To 15', Add</i>	15.00	
<i>For Elevated Installation >15' To 20', Add</i>	30.01	
<i>For Elevated Installation >20' To 25', Add</i>	37.51	
<i>For Elevated Installation >25' To 30', Add</i>	52.51	
<i>For Elevated Installation >30' To 35', Add</i>	60.01	
<i>For Elevated Installation >35' To 40', Add</i>	75.02	
<i>For Elevated Installation >40', Add</i>	82.52	
26 05 33 13-0417 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,801.73	65.01
<i>For Work In Restricted Working Space, Add</i>	48.75	
<i>For Elevated Installation >10' To 15', Add</i>	16.25	
<i>For Elevated Installation >15' To 20', Add</i>	32.50	
<i>For Elevated Installation >20' To 25', Add</i>	40.63	
<i>For Elevated Installation >25' To 30', Add</i>	56.88	
<i>For Elevated Installation >30' To 35', Add</i>	65.00	
<i>For Elevated Installation >35' To 40', Add</i>	81.26	
<i>For Elevated Installation >40', Add</i>	89.38	
26 05 33 13-0418 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,710.00	80.01
<i>For Work In Restricted Working Space, Add</i>	60.01	
<i>For Elevated Installation >10' To 15', Add</i>	20.00	
<i>For Elevated Installation >15' To 20', Add</i>	40.00	
<i>For Elevated Installation >20' To 25', Add</i>	50.01	
<i>For Elevated Installation >25' To 30', Add</i>	70.01	
<i>For Elevated Installation >30' To 35', Add</i>	80.01	
<i>For Elevated Installation >35' To 40', Add</i>	100.01	
<i>For Elevated Installation >40', Add</i>	110.01	
26 05 33 13-0419 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,358.70	88.76
<i>For Work In Restricted Working Space, Add</i>	66.61	
<i>For Elevated Installation >10' To 15', Add</i>	22.20	
<i>For Elevated Installation >15' To 20', Add</i>	44.41	
<i>For Elevated Installation >20' To 25', Add</i>	55.51	
<i>For Elevated Installation >25' To 30', Add</i>	77.71	
<i>For Elevated Installation >30' To 35', Add</i>	88.81	
<i>For Elevated Installation >35' To 40', Add</i>	111.02	
<i>For Elevated Installation >40', Add</i>	122.12	
26 05 33 13-0420 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings <small>(26 05 33 13-0059)</small>		
Note: Type DX		
26 05 33 13-0421 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	272.99	20.00
<i>For Work In Restricted Working Space, Add</i>	15.00	
<i>For Elevated Installation >10' To 15', Add</i>	5.00	
<i>For Elevated Installation >15' To 20', Add</i>	10.00	
<i>For Elevated Installation >20' To 25', Add</i>	12.50	
<i>For Elevated Installation >25' To 30', Add</i>	17.50	
<i>For Elevated Installation >30' To 35', Add</i>	20.00	
<i>For Elevated Installation >35' To 40', Add</i>	25.01	
<i>For Elevated Installation >40', Add</i>	27.51	
26 05 33 13-0422 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	325.08	22.50
<i>For Work In Restricted Working Space, Add</i>	16.88	
<i>For Elevated Installation >10' To 15', Add</i>	5.63	
<i>For Elevated Installation >15' To 20', Add</i>	11.25	
<i>For Elevated Installation >20' To 25', Add</i>	14.07	
<i>For Elevated Installation >25' To 30', Add</i>	19.69	
<i>For Elevated Installation >30' To 35', Add</i>	22.50	
<i>For Elevated Installation >35' To 40', Add</i>	28.13	
<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0423 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	392.74	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0424 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	461.53	27.50
<i>For Work In Restricted Working Space, Add</i>	20.63	
<i>For Elevated Installation >10' To 15', Add</i>	6.88	
<i>For Elevated Installation >15' To 20', Add</i>	13.75	
<i>For Elevated Installation >20' To 25', Add</i>	17.19	
<i>For Elevated Installation >25' To 30', Add</i>	24.07	
<i>For Elevated Installation >30' To 35', Add</i>	27.50	
<i>For Elevated Installation >35' To 40', Add</i>	34.38	
<i>For Elevated Installation >40', Add</i>	37.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0425 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	510.34	30.01
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0426 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	630.29	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.31	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0427 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	832.79	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0428 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,056.07	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0429 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,188.64	60.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.01	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.02	
For Elevated Installation >40', Add	82.52	
26 05 33 13-0430 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,440.64	65.01
For Work In Restricted Working Space, Add	48.75	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.50	
For Elevated Installation >20' To 25', Add	40.63	
For Elevated Installation >25' To 30', Add	56.88	
For Elevated Installation >30' To 35', Add	65.00	
For Elevated Installation >35' To 40', Add	81.26	
For Elevated Installation >40', Add	89.38	
26 05 33 13-0431 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	2,461.00	80.01
For Work In Restricted Working Space, Add	60.01	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.01	
For Elevated Installation >25' To 30', Add	70.01	
For Elevated Installation >30' To 35', Add	80.01	
For Elevated Installation >35' To 40', Add	100.01	
For Elevated Installation >40', Add	110.01	
26 05 33 13-0432 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	3,909.37	88.76
For Work In Restricted Working Space, Add	66.61	
For Elevated Installation >10' To 15', Add	22.20	
For Elevated Installation >15' To 20', Add	44.41	
For Elevated Installation >20' To 25', Add	55.51	
For Elevated Installation >25' To 30', Add	77.71	
For Elevated Installation >30' To 35', Add	88.81	
For Elevated Installation >35' To 40', Add	111.02	
For Elevated Installation >40', Add	122.12	
26 05 33 13-0433 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)		
26 05 33 13-0434 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper.....	70.98	10.00
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0435 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper	81.88	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0436 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper	100.89	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0437 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper	141.60	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0438 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper	214.52	30.01
For Work In Restricted Working Space, Add	22.51	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.76	
For Elevated Installation >25' To 30', Add	26.26	
For Elevated Installation >30' To 35', Add	30.01	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0439 EA 5" To 6" Conduit, 14" Bonding Jumper	365.06	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0440 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper	78.86	10.00
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0441 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	91.83	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0442 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	110.00	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0443 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	153.70	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0444	EA		3-1/2" To 4" Conduit, 24" Bonding Jumper	230.57	30.01
			<i>For Work In Restricted Working Space, Add</i>	22.51	
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.76	
			<i>For Elevated Installation >25' To 30', Add</i>	26.26	
			<i>For Elevated Installation >30' To 35', Add</i>	30.01	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0445	EA		5" To 6" Conduit, 24" Bonding Jumper.....	416.82	40.00
			<i>For Work In Restricted Working Space, Add</i>	30.00	
			<i>For Elevated Installation >10' To 15', Add</i>	10.00	
			<i>For Elevated Installation >15' To 20', Add</i>	20.00	
			<i>For Elevated Installation >20' To 25', Add</i>	25.00	
			<i>For Elevated Installation >25' To 30', Add</i>	35.00	
			<i>For Elevated Installation >30' To 35', Add</i>	40.00	
			<i>For Elevated Installation >35' To 40', Add</i>	50.01	
			<i>For Elevated Installation >40', Add</i>	55.01	
26 05 33 13-0446			Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0447	EA		1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	108.50	31.25
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0448	EA		3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	129.02	37.50
			<i>For Work In Restricted Working Space, Add</i>	22.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.75	
			<i>For Elevated Installation >25' To 30', Add</i>	26.25	
			<i>For Elevated Installation >30' To 35', Add</i>	30.00	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.50	
26 05 33 13-0449	EA		1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	156.93	43.76
			<i>For Work In Restricted Working Space, Add</i>	26.25	
			<i>For Elevated Installation >10' To 15', Add</i>	8.75	
			<i>For Elevated Installation >15' To 20', Add</i>	17.50	
			<i>For Elevated Installation >20' To 25', Add</i>	21.88	
			<i>For Elevated Installation >25' To 30', Add</i>	30.63	
			<i>For Elevated Installation >30' To 35', Add</i>	35.00	
			<i>For Elevated Installation >35' To 40', Add</i>	43.76	
			<i>For Elevated Installation >40', Add</i>	48.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-0450	EA		1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	184.31	50.00
			<i>For Work In Restricted Working Space, Add</i>	30.00	
			<i>For Elevated Installation >10' To 15', Add</i>	10.00	
			<i>For Elevated Installation >15' To 20', Add</i>	20.00	
			<i>For Elevated Installation >20' To 25', Add</i>	25.00	
			<i>For Elevated Installation >25' To 30', Add</i>	35.00	
			<i>For Elevated Installation >30' To 35', Add</i>	40.00	
			<i>For Elevated Installation >35' To 40', Add</i>	50.01	
			<i>For Elevated Installation >40', Add</i>	55.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-0451	EA		1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	239.43	56.26
			<i>For Work In Restricted Working Space, Add</i>	33.75	
			<i>For Elevated Installation >10' To 15', Add</i>	11.25	
			<i>For Elevated Installation >15' To 20', Add</i>	22.50	
			<i>For Elevated Installation >20' To 25', Add</i>	28.13	
			<i>For Elevated Installation >25' To 30', Add</i>	39.38	
			<i>For Elevated Installation >30' To 35', Add</i>	45.00	
			<i>For Elevated Installation >35' To 40', Add</i>	56.26	
			<i>For Elevated Installation >40', Add</i>	61.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.75	
26 05 33 13-0452	EA		2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	289.45	62.51
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Elevated Installation >10' To 15', Add</i>	12.50	
			<i>For Elevated Installation >15' To 20', Add</i>	25.00	
			<i>For Elevated Installation >20' To 25', Add</i>	31.25	
			<i>For Elevated Installation >25' To 30', Add</i>	43.75	
			<i>For Elevated Installation >30' To 35', Add</i>	50.00	
			<i>For Elevated Installation >35' To 40', Add</i>	62.51	
			<i>For Elevated Installation >40', Add</i>	68.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0453 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	405.51	75.01
<i>For Work In Restricted Working Space, Add</i>	45.01	
<i>For Elevated Installation >10' To 15', Add</i>	15.00	
<i>For Elevated Installation >15' To 20', Add</i>	30.00	
<i>For Elevated Installation >20' To 25', Add</i>	37.51	
<i>For Elevated Installation >25' To 30', Add</i>	52.51	
<i>For Elevated Installation >30' To 35', Add</i>	60.01	
<i>For Elevated Installation >35' To 40', Add</i>	75.01	
<i>For Elevated Installation >40', Add</i>	82.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.01	
26 05 33 13-0454 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	487.11	87.51
<i>For Work In Restricted Working Space, Add</i>	52.51	
<i>For Elevated Installation >10' To 15', Add</i>	17.50	
<i>For Elevated Installation >15' To 20', Add</i>	35.00	
<i>For Elevated Installation >20' To 25', Add</i>	43.76	
<i>For Elevated Installation >25' To 30', Add</i>	61.26	
<i>For Elevated Installation >30' To 35', Add</i>	70.01	
<i>For Elevated Installation >35' To 40', Add</i>	87.51	
<i>For Elevated Installation >40', Add</i>	96.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.51	
26 05 33 13-0455 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,100.12	100.01
<i>For Work In Restricted Working Space, Add</i>	60.01	
<i>For Elevated Installation >10' To 15', Add</i>	20.00	
<i>For Elevated Installation >15' To 20', Add</i>	40.00	
<i>For Elevated Installation >20' To 25', Add</i>	50.01	
<i>For Elevated Installation >25' To 30', Add</i>	70.01	
<i>For Elevated Installation >30' To 35', Add</i>	80.01	
<i>For Elevated Installation >35' To 40', Add</i>	100.01	
<i>For Elevated Installation >40', Add</i>	110.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.01	
26 05 33 13-0456 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,266.76	112.51
<i>For Work In Restricted Working Space, Add</i>	67.51	
<i>For Elevated Installation >10' To 15', Add</i>	22.50	
<i>For Elevated Installation >15' To 20', Add</i>	45.01	
<i>For Elevated Installation >20' To 25', Add</i>	56.26	
<i>For Elevated Installation >25' To 30', Add</i>	78.76	
<i>For Elevated Installation >30' To 35', Add</i>	90.01	
<i>For Elevated Installation >35' To 40', Add</i>	112.52	
<i>For Elevated Installation >40', Add</i>	123.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33 13-0457 Rigid Galvanized Steel (RGS) Threaded Couplings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0458 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling	15.88	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Elevated Installation >10' To 15', Add</i>	1.50	
<i>For Elevated Installation >15' To 20', Add</i>	3.00	
<i>For Elevated Installation >20' To 25', Add</i>	3.75	
<i>For Elevated Installation >25' To 30', Add</i>	5.25	
<i>For Elevated Installation >30' To 35', Add</i>	6.00	
<i>For Elevated Installation >35' To 40', Add</i>	7.50	
<i>For Elevated Installation >40', Add</i>	8.25	
26 05 33 13-0459 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling	22.34	10.62
<i>For Work In Restricted Working Space, Add</i>	6.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.13	
<i>For Elevated Installation >15' To 20', Add</i>	4.25	
<i>For Elevated Installation >20' To 25', Add</i>	5.31	
<i>For Elevated Installation >25' To 30', Add</i>	7.44	
<i>For Elevated Installation >30' To 35', Add</i>	8.50	
<i>For Elevated Installation >35' To 40', Add</i>	10.63	
<i>For Elevated Installation >40', Add</i>	11.69	
26 05 33 13-0460 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling	29.17	13.75
<i>For Work In Restricted Working Space, Add</i>	8.25	
<i>For Elevated Installation >10' To 15', Add</i>	2.75	
<i>For Elevated Installation >15' To 20', Add</i>	5.50	
<i>For Elevated Installation >20' To 25', Add</i>	6.88	
<i>For Elevated Installation >25' To 30', Add</i>	9.63	
<i>For Elevated Installation >30' To 35', Add</i>	11.00	
<i>For Elevated Installation >35' To 40', Add</i>	13.75	
<i>For Elevated Installation >40', Add</i>	15.13	
26 05 33 13-0461 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling	33.36	15.63
<i>For Work In Restricted Working Space, Add</i>	9.38	
<i>For Elevated Installation >10' To 15', Add</i>	3.13	
<i>For Elevated Installation >15' To 20', Add</i>	6.25	
<i>For Elevated Installation >20' To 25', Add</i>	7.81	
<i>For Elevated Installation >25' To 30', Add</i>	10.94	
<i>For Elevated Installation >30' To 35', Add</i>	12.50	
<i>For Elevated Installation >35' To 40', Add</i>	15.63	
<i>For Elevated Installation >40', Add</i>	17.19	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0462 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	40.14	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0463 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	46.44	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
26 05 33 13-0464 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	56.34	23.75
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
26 05 33 13-0465 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	65.24	26.88
For Work In Restricted Working Space, Add	16.13	
For Elevated Installation >10' To 15', Add	5.38	
For Elevated Installation >15' To 20', Add	10.75	
For Elevated Installation >20' To 25', Add	13.44	
For Elevated Installation >25' To 30', Add	18.82	
For Elevated Installation >30' To 35', Add	21.50	
For Elevated Installation >35' To 40', Add	26.88	
For Elevated Installation >40', Add	29.57	
26 05 33 13-0466 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	74.28	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.57	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.32	
26 05 33 13-0467 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	78.67	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0468 Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0059)		
26 05 33 13-0469 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.27	1.25
26 05 33 13-0470 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	4.64	1.87
26 05 33 13-0471 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	7.72	3.13
26 05 33 13-0472 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	11.05	4.38
26 05 33 13-0473 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	13.03	5.00
26 05 33 13-0474 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	15.12	5.62
26 05 33 13-0475 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0059)		
26 05 33 13-0476 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	221.16	15.17
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.48	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.17	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0477 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	224.82	16.63
For Work In Restricted Working Space, Add	12.48	
For Elevated Installation >10' To 15', Add	4.16	
For Elevated Installation >15' To 20', Add	8.32	
For Elevated Installation >20' To 25', Add	10.40	
For Elevated Installation >25' To 30', Add	14.56	
For Elevated Installation >30' To 35', Add	16.64	
For Elevated Installation >35' To 40', Add	20.80	
For Elevated Installation >40', Add	22.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0478 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	269.80	18.25
For Work In Restricted Working Space, Add	13.66	
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.94	
For Elevated Installation >30' To 35', Add	18.22	
For Elevated Installation >35' To 40', Add	22.77	
For Elevated Installation >40', Add	25.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 05 33 13-0479 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	296.18	20.00
For Work In Restricted Working Space, Add	15.02	
For Elevated Installation >10' To 15', Add	5.01	
For Elevated Installation >15' To 20', Add	10.01	
For Elevated Installation >20' To 25', Add	12.51	
For Elevated Installation >25' To 30', Add	17.52	
For Elevated Installation >30' To 35', Add	20.02	
For Elevated Installation >35' To 40', Add	25.03	
For Elevated Installation >40', Add	27.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	
26 05 33 13-0480 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	337.95	22.50
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0481 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	500.11	25.01
For Work In Restricted Working Space, Add	18.76	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.51	
For Elevated Installation >20' To 25', Add	15.64	
For Elevated Installation >25' To 30', Add	21.89	
For Elevated Installation >30' To 35', Add	25.02	
For Elevated Installation >35' To 40', Add	31.27	
For Elevated Installation >40', Add	34.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.76	
26 05 33 13-0482 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	575.66	33.38
For Work In Restricted Working Space, Add	25.02	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.68	
For Elevated Installation >20' To 25', Add	20.85	
For Elevated Installation >25' To 30', Add	29.19	
For Elevated Installation >30' To 35', Add	33.36	
For Elevated Installation >35' To 40', Add	41.70	
For Elevated Installation >40', Add	45.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.02	
26 05 33 13-0483 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	638.61	36.63
For Work In Restricted Working Space, Add	27.49	
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.49	
26 05 33 13-0484 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	742.71	40.00
For Work In Restricted Working Space, Add	30.01	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.01	
For Elevated Installation >25' To 30', Add	35.01	
For Elevated Installation >30' To 35', Add	40.01	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.01	
26 05 33 13-0485 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	837.24	45.00
For Work In Restricted Working Space, Add	33.75	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.75	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0486	EA		5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,123.22	50.00
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Elevated Installation >10' To 15', Add</i>	12.50	
			<i>For Elevated Installation >15' To 20', Add</i>	25.00	
			<i>For Elevated Installation >20' To 25', Add</i>	31.25	
			<i>For Elevated Installation >25' To 30', Add</i>	43.75	
			<i>For Elevated Installation >30' To 35', Add</i>	50.00	
			<i>For Elevated Installation >35' To 40', Add</i>	62.51	
			<i>For Elevated Installation >40', Add</i>	68.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-0487	EA		6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,396.78	55.50
			<i>For Work In Restricted Working Space, Add</i>	41.63	
			<i>For Elevated Installation >10' To 15', Add</i>	13.88	
			<i>For Elevated Installation >15' To 20', Add</i>	27.75	
			<i>For Elevated Installation >20' To 25', Add</i>	34.69	
			<i>For Elevated Installation >25' To 30', Add</i>	48.57	
			<i>For Elevated Installation >30' To 35', Add</i>	55.50	
			<i>For Elevated Installation >35' To 40', Add</i>	69.38	
			<i>For Elevated Installation >40', Add</i>	76.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.63	
26 05 33 13-0488			Rigid Galvanized Steel (RGS) Reducing Bushings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0489	EA		3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	19.97	9.69
			<i>For Work In Restricted Working Space, Add</i>	5.81	
			<i>For Elevated Installation >10' To 15', Add</i>	1.94	
			<i>For Elevated Installation >15' To 20', Add</i>	3.87	
			<i>For Elevated Installation >20' To 25', Add</i>	4.84	
			<i>For Elevated Installation >25' To 30', Add</i>	6.78	
			<i>For Elevated Installation >30' To 35', Add</i>	7.75	
			<i>For Elevated Installation >35' To 40', Add</i>	9.69	
			<i>For Elevated Installation >40', Add</i>	10.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.81	
26 05 33 13-0490	EA		1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	21.73	10.31
			<i>For Work In Restricted Working Space, Add</i>	6.19	
			<i>For Elevated Installation >10' To 15', Add</i>	2.06	
			<i>For Elevated Installation >15' To 20', Add</i>	4.13	
			<i>For Elevated Installation >20' To 25', Add</i>	5.16	
			<i>For Elevated Installation >25' To 30', Add</i>	7.22	
			<i>For Elevated Installation >30' To 35', Add</i>	8.25	
			<i>For Elevated Installation >35' To 40', Add</i>	10.32	
			<i>For Elevated Installation >40', Add</i>	11.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 05 33 13-0491	EA		1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	22.35	10.62
			<i>For Work In Restricted Working Space, Add</i>	6.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.13	
			<i>For Elevated Installation >15' To 20', Add</i>	4.25	
			<i>For Elevated Installation >20' To 25', Add</i>	5.31	
			<i>For Elevated Installation >25' To 30', Add</i>	7.44	
			<i>For Elevated Installation >30' To 35', Add</i>	8.50	
			<i>For Elevated Installation >35' To 40', Add</i>	10.63	
			<i>For Elevated Installation >40', Add</i>	11.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-0492	EA		1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	24.73	10.93
			<i>For Work In Restricted Working Space, Add</i>	6.56	
			<i>For Elevated Installation >10' To 15', Add</i>	2.19	
			<i>For Elevated Installation >15' To 20', Add</i>	4.38	
			<i>For Elevated Installation >20' To 25', Add</i>	5.47	
			<i>For Elevated Installation >25' To 30', Add</i>	7.66	
			<i>For Elevated Installation >30' To 35', Add</i>	8.75	
			<i>For Elevated Installation >35' To 40', Add</i>	10.94	
			<i>For Elevated Installation >40', Add</i>	12.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.56	
26 05 33 13-0493	EA		1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	25.35	11.26
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.25	
			<i>For Elevated Installation >15' To 20', Add</i>	4.50	
			<i>For Elevated Installation >20' To 25', Add</i>	5.63	
			<i>For Elevated Installation >25' To 30', Add</i>	7.88	
			<i>For Elevated Installation >30' To 35', Add</i>	9.00	
			<i>For Elevated Installation >35' To 40', Add</i>	11.25	
			<i>For Elevated Installation >40', Add</i>	12.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-0494	EA		1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	26.60	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0495 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	28.46	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0496 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	29.08	12.82
For Work In Restricted Working Space, Add	7.69	
For Elevated Installation >10' To 15', Add	2.56	
For Elevated Installation >15' To 20', Add	5.13	
For Elevated Installation >20' To 25', Add	6.41	
For Elevated Installation >25' To 30', Add	8.97	
For Elevated Installation >30' To 35', Add	10.25	
For Elevated Installation >35' To 40', Add	12.82	
For Elevated Installation >40', Add	14.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.69	
26 05 33 13-0497 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	30.33	13.44
For Work In Restricted Working Space, Add	8.06	
For Elevated Installation >10' To 15', Add	2.69	
For Elevated Installation >15' To 20', Add	5.38	
For Elevated Installation >20' To 25', Add	6.72	
For Elevated Installation >25' To 30', Add	9.41	
For Elevated Installation >30' To 35', Add	10.75	
For Elevated Installation >35' To 40', Add	13.44	
For Elevated Installation >40', Add	14.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.06	
26 05 33 13-0498 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	31.58	14.06
For Work In Restricted Working Space, Add	8.44	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.63	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.85	
For Elevated Installation >30' To 35', Add	11.25	
For Elevated Installation >35' To 40', Add	14.07	
For Elevated Installation >40', Add	15.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.44	
26 05 33 13-0499 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	35.70	14.06
For Work In Restricted Working Space, Add	8.44	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.63	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.85	
For Elevated Installation >30' To 35', Add	11.25	
For Elevated Installation >35' To 40', Add	14.07	
For Elevated Installation >40', Add	15.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.44	
26 05 33 13-0500 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	36.32	14.37
For Work In Restricted Working Space, Add	8.63	
For Elevated Installation >10' To 15', Add	2.88	
For Elevated Installation >15' To 20', Add	5.75	
For Elevated Installation >20' To 25', Add	7.19	
For Elevated Installation >25' To 30', Add	10.06	
For Elevated Installation >30' To 35', Add	11.50	
For Elevated Installation >35' To 40', Add	14.38	
For Elevated Installation >40', Add	15.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.63	
26 05 33 13-0501 EA 2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	37.58	15.00
For Work In Restricted Working Space, Add	9.00	
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.50	
For Elevated Installation >30' To 35', Add	12.00	
For Elevated Installation >35' To 40', Add	15.01	
For Elevated Installation >40', Add	16.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.00	
26 05 33 13-0502 EA 2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	38.82	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0503	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	41.95	17.19
			<i>For Work In Restricted Working Space, Add</i>	10.31	
			<i>For Elevated Installation >10' To 15', Add</i>	3.44	
			<i>For Elevated Installation >15' To 20', Add</i>	6.88	
			<i>For Elevated Installation >20' To 25', Add</i>	8.60	
			<i>For Elevated Installation >25' To 30', Add</i>	12.03	
			<i>For Elevated Installation >30' To 35', Add</i>	13.75	
			<i>For Elevated Installation >35' To 40', Add</i>	17.19	
			<i>For Elevated Installation >40', Add</i>	18.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.31	
26 05 33	13-0504	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	51.85	20.32
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-0505 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0059)					
26 05 33	13-0506	EA	1/2" Rigid Galvanized Steel (RGS) Locknuts	2.56	1.25
			<i>For Work In Restricted Working Space, Add</i>	0.75	
			<i>For Elevated Installation >10' To 15', Add</i>	0.25	
			<i>For Elevated Installation >15' To 20', Add</i>	0.50	
			<i>For Elevated Installation >20' To 25', Add</i>	0.63	
			<i>For Elevated Installation >25' To 30', Add</i>	0.88	
			<i>For Elevated Installation >30' To 35', Add</i>	1.00	
			<i>For Elevated Installation >35' To 40', Add</i>	1.25	
			<i>For Elevated Installation >40', Add</i>	1.38	
26 05 33	13-0507	EA	3/4" Rigid Galvanized Steel (RGS) Locknuts	3.83	1.87
			<i>For Work In Restricted Working Space, Add</i>	1.13	
			<i>For Elevated Installation >10' To 15', Add</i>	0.38	
			<i>For Elevated Installation >15' To 20', Add</i>	0.75	
			<i>For Elevated Installation >20' To 25', Add</i>	0.94	
			<i>For Elevated Installation >25' To 30', Add</i>	1.31	
			<i>For Elevated Installation >30' To 35', Add</i>	1.50	
			<i>For Elevated Installation >35' To 40', Add</i>	1.88	
			<i>For Elevated Installation >40', Add</i>	2.06	
26 05 33	13-0508	EA	1" Rigid Galvanized Steel (RGS) Locknuts	6.38	3.13
			<i>For Work In Restricted Working Space, Add</i>	1.88	
			<i>For Elevated Installation >10' To 15', Add</i>	0.63	
			<i>For Elevated Installation >15' To 20', Add</i>	1.25	
			<i>For Elevated Installation >20' To 25', Add</i>	1.56	
			<i>For Elevated Installation >25' To 30', Add</i>	2.19	
			<i>For Elevated Installation >30' To 35', Add</i>	2.50	
			<i>For Elevated Installation >35' To 40', Add</i>	3.13	
			<i>For Elevated Installation >40', Add</i>	3.44	
26 05 33	13-0509	EA	1-1/4" Rigid Galvanized Steel (RGS) Locknuts	8.96	4.38
			<i>For Work In Restricted Working Space, Add</i>	2.63	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
26 05 33	13-0510	EA	1-1/2" Rigid Galvanized Steel (RGS) Locknuts	10.27	5.00
			<i>For Work In Restricted Working Space, Add</i>	3.00	
			<i>For Elevated Installation >10' To 15', Add</i>	1.00	
			<i>For Elevated Installation >15' To 20', Add</i>	2.00	
			<i>For Elevated Installation >20' To 25', Add</i>	2.50	
			<i>For Elevated Installation >25' To 30', Add</i>	3.50	
			<i>For Elevated Installation >30' To 35', Add</i>	4.00	
			<i>For Elevated Installation >35' To 40', Add</i>	5.00	
			<i>For Elevated Installation >40', Add</i>	5.50	
26 05 33	13-0511	EA	2" Rigid Galvanized Steel (RGS) Locknuts	11.60	5.62
			<i>For Work In Restricted Working Space, Add</i>	3.38	
			<i>For Elevated Installation >10' To 15', Add</i>	1.13	
			<i>For Elevated Installation >15' To 20', Add</i>	2.25	
			<i>For Elevated Installation >20' To 25', Add</i>	2.82	
			<i>For Elevated Installation >25' To 30', Add</i>	3.94	
			<i>For Elevated Installation >30' To 35', Add</i>	4.50	
			<i>For Elevated Installation >35' To 40', Add</i>	5.63	
			<i>For Elevated Installation >40', Add</i>	6.19	
26 05 33	13-0512	EA	2-1/2" Rigid Galvanized Steel (RGS) Locknuts	15.90	7.50
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Elevated Installation >10' To 15', Add</i>	1.50	
			<i>For Elevated Installation >15' To 20', Add</i>	3.00	
			<i>For Elevated Installation >20' To 25', Add</i>	3.75	
			<i>For Elevated Installation >25' To 30', Add</i>	5.25	
			<i>For Elevated Installation >30' To 35', Add</i>	6.00	
			<i>For Elevated Installation >35' To 40', Add</i>	7.50	
			<i>For Elevated Installation >40', Add</i>	8.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0513 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	19.74	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
26 05 33 13-0514 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	22.90	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0515 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	25.64	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
26 05 33 13-0516 Rigid Galvanized Steel (RGS) Grounding Locknuts <small>(26 05 33 13-0059)</small>		
26 05 33 13-0517 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	3.32	1.25
For Work In Restricted Working Space, Add	0.75	
For Elevated Installation >10' To 15', Add	0.25	
For Elevated Installation >15' To 20', Add	0.50	
For Elevated Installation >20' To 25', Add	0.63	
For Elevated Installation >25' To 30', Add	0.88	
For Elevated Installation >30' To 35', Add	1.00	
For Elevated Installation >35' To 40', Add	1.25	
For Elevated Installation >40', Add	1.38	
26 05 33 13-0518 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	4.73	1.87
For Work In Restricted Working Space, Add	1.13	
For Elevated Installation >10' To 15', Add	0.38	
For Elevated Installation >15' To 20', Add	0.75	
For Elevated Installation >20' To 25', Add	0.94	
For Elevated Installation >25' To 30', Add	1.31	
For Elevated Installation >30' To 35', Add	1.50	
For Elevated Installation >35' To 40', Add	1.88	
For Elevated Installation >40', Add	2.06	
26 05 33 13-0519 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	7.66	3.13
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
26 05 33 13-0520 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	10.71	4.38
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
26 05 33 13-0521 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	12.15	5.00
For Work In Restricted Working Space, Add	3.00	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
26 05 33 13-0522 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	14.06	5.62
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.82	
For Elevated Installation >25' To 30', Add	3.94	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.63	
For Elevated Installation >40', Add	6.19	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0523 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	20.20	7.50
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
26 05 33 13-0524 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts	25.36	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
26 05 33 13-0525 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	31.97	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0526 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts	37.58	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
26 05 33 13-0527 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0059)		
26 05 33 13-0528 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	9.55	3.75
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
26 05 33 13-0529 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	12.23	5.00
For Work In Restricted Working Space, Add	3.00	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
26 05 33 13-0530 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	15.50	6.25
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
26 05 33 13-0531 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	23.35	10.00
For Work In Restricted Working Space, Add	6.00	
For Elevated Installation >10' To 15', Add	2.00	
For Elevated Installation >15' To 20', Add	4.00	
For Elevated Installation >20' To 25', Add	5.00	
For Elevated Installation >25' To 30', Add	7.00	
For Elevated Installation >30' To 35', Add	8.00	
For Elevated Installation >35' To 40', Add	10.00	
For Elevated Installation >40', Add	11.00	
26 05 33 13-0532 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	26.29	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0533 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	29.66	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0534 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	38.99	15.00
For Work In Restricted Working Space, Add	9.00	
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.50	
For Elevated Installation >30' To 35', Add	12.00	
For Elevated Installation >35' To 40', Add	15.01	
For Elevated Installation >40', Add	16.51	
26 05 33 13-0535 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	47.79	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0536 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	60.63	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0537 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	74.52	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0538 Rigid Galvanized Steel (RGS) Threadless Compression Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0539 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	25.99	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
26 05 33 13-0540 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	30.63	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0541 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	40.03	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0542 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	54.02	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0543 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	72.88	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0544 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	106.40	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0545 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	176.26	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0546 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	221.75	43.76
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
26 05 33 13-0547 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	281.68	53.13
For Work In Restricted Working Space, Add	31.88	
For Elevated Installation >10' To 15', Add	10.63	
For Elevated Installation >15' To 20', Add	21.25	
For Elevated Installation >20' To 25', Add	26.57	
For Elevated Installation >25' To 30', Add	37.19	
For Elevated Installation >30' To 35', Add	42.50	
For Elevated Installation >35' To 40', Add	53.13	
For Elevated Installation >40', Add	58.44	
26 05 33 13-0548 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	339.77	62.51
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0549 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)		
26 05 33 13-0550 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling	36.88	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0551 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling	46.53	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0552 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling	65.75	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0553 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	85.82	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0554 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	105.36	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0555 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling.....	153.89	43.76
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
26 05 33 13-0556 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	239.83	50.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0557 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling.....	271.51	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.57	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
26 05 33 13-0558 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	375.13	65.64
For Work In Restricted Working Space, Add	39.38	
For Elevated Installation >10' To 15', Add	13.13	
For Elevated Installation >15' To 20', Add	26.25	
For Elevated Installation >20' To 25', Add	32.82	
For Elevated Installation >25' To 30', Add	45.94	
For Elevated Installation >30' To 35', Add	52.51	
For Elevated Installation >35' To 40', Add	65.64	
For Elevated Installation >40', Add	72.20	
26 05 33 13-0559 EA 4" Rigid Galvanized Steel (RGS) Compression Coupling.....	462.06	75.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.00	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.01	
For Elevated Installation >40', Add	82.51	
26 05 33 13-0560 Zinc Plated Steel Snap-in Knock Out Seal (26 05 33 13-0059)		
26 05 33 13-0561 EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal.....	6.42	3.13
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
26 05 33 13-0562 EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal.....	7.73	3.75
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0563	EA	1" Zinc Plated Steel Snap-in Knock Out Seal	9.11	4.38
			<i>For Work In Restricted Working Space, Add</i>	2.63	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
26 05 33	13-0564	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	11.74	5.62
			<i>For Work In Restricted Working Space, Add</i>	3.38	
			<i>For Elevated Installation >10' To 15', Add</i>	1.13	
			<i>For Elevated Installation >15' To 20', Add</i>	2.25	
			<i>For Elevated Installation >20' To 25', Add</i>	2.82	
			<i>For Elevated Installation >25' To 30', Add</i>	3.94	
			<i>For Elevated Installation >30' To 35', Add</i>	4.50	
			<i>For Elevated Installation >35' To 40', Add</i>	5.63	
			<i>For Elevated Installation >40', Add</i>	6.19	
26 05 33	13-0565	EA	1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	13.16	6.25
			<i>For Work In Restricted Working Space, Add</i>	3.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.25	
			<i>For Elevated Installation >15' To 20', Add</i>	2.50	
			<i>For Elevated Installation >20' To 25', Add</i>	3.13	
			<i>For Elevated Installation >25' To 30', Add</i>	4.38	
			<i>For Elevated Installation >30' To 35', Add</i>	5.00	
			<i>For Elevated Installation >35' To 40', Add</i>	6.25	
			<i>For Elevated Installation >40', Add</i>	6.88	
26 05 33	13-0566	EA	2" Zinc Plated Steel Snap-in Knock Out Seal	15.93	7.50
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Elevated Installation >10' To 15', Add</i>	1.50	
			<i>For Elevated Installation >15' To 20', Add</i>	3.00	
			<i>For Elevated Installation >20' To 25', Add</i>	3.75	
			<i>For Elevated Installation >25' To 30', Add</i>	5.25	
			<i>For Elevated Installation >30' To 35', Add</i>	6.00	
			<i>For Elevated Installation >35' To 40', Add</i>	7.50	
			<i>For Elevated Installation >40', Add</i>	8.25	
26 05 33	13-0567		Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33	13-0568	EA	1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	7.29	3.13
			<i>For Work In Restricted Working Space, Add</i>	1.88	
			<i>For Elevated Installation >10' To 15', Add</i>	0.63	
			<i>For Elevated Installation >15' To 20', Add</i>	1.25	
			<i>For Elevated Installation >20' To 25', Add</i>	1.56	
			<i>For Elevated Installation >25' To 30', Add</i>	2.19	
			<i>For Elevated Installation >30' To 35', Add</i>	2.50	
			<i>For Elevated Installation >35' To 40', Add</i>	3.13	
			<i>For Elevated Installation >40', Add</i>	3.44	
26 05 33	13-0569	EA	3/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	8.71	3.75
			<i>For Work In Restricted Working Space, Add</i>	2.25	
			<i>For Elevated Installation >10' To 15', Add</i>	0.75	
			<i>For Elevated Installation >15' To 20', Add</i>	1.50	
			<i>For Elevated Installation >20' To 25', Add</i>	1.88	
			<i>For Elevated Installation >25' To 30', Add</i>	2.63	
			<i>For Elevated Installation >30' To 35', Add</i>	3.00	
			<i>For Elevated Installation >35' To 40', Add</i>	3.75	
			<i>For Elevated Installation >40', Add</i>	4.13	
26 05 33	13-0570	EA	1" Zinc Plated Steel 3-Piece Knock Out Seal.....	10.42	4.38
			<i>For Work In Restricted Working Space, Add</i>	2.63	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
26 05 33	13-0571	EA	1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	13.41	5.62
			<i>For Work In Restricted Working Space, Add</i>	3.38	
			<i>For Elevated Installation >10' To 15', Add</i>	1.13	
			<i>For Elevated Installation >15' To 20', Add</i>	2.25	
			<i>For Elevated Installation >20' To 25', Add</i>	2.82	
			<i>For Elevated Installation >25' To 30', Add</i>	3.94	
			<i>For Elevated Installation >30' To 35', Add</i>	4.50	
			<i>For Elevated Installation >35' To 40', Add</i>	5.63	
			<i>For Elevated Installation >40', Add</i>	6.19	
26 05 33	13-0572	EA	1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	15.94	6.25
			<i>For Work In Restricted Working Space, Add</i>	3.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.25	
			<i>For Elevated Installation >15' To 20', Add</i>	2.50	
			<i>For Elevated Installation >20' To 25', Add</i>	3.13	
			<i>For Elevated Installation >25' To 30', Add</i>	4.38	
			<i>For Elevated Installation >30' To 35', Add</i>	5.00	
			<i>For Elevated Installation >35' To 40', Add</i>	6.25	
			<i>For Elevated Installation >40', Add</i>	6.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0573 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	19.23	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Elevated Installation >10' To 15', Add</i>	1.50	
<i>For Elevated Installation >15' To 20', Add</i>	3.00	
<i>For Elevated Installation >20' To 25', Add</i>	3.75	
<i>For Elevated Installation >25' To 30', Add</i>	5.25	
<i>For Elevated Installation >30' To 35', Add</i>	6.00	
<i>For Elevated Installation >35' To 40', Add</i>	7.50	
<i>For Elevated Installation >40', Add</i>	8.25	
26 05 33 13-0574 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	23.73	9.38
<i>For Work In Restricted Working Space, Add</i>	5.63	
<i>For Elevated Installation >10' To 15', Add</i>	1.88	
<i>For Elevated Installation >15' To 20', Add</i>	3.75	
<i>For Elevated Installation >20' To 25', Add</i>	4.69	
<i>For Elevated Installation >25' To 30', Add</i>	6.56	
<i>For Elevated Installation >30' To 35', Add</i>	7.50	
<i>For Elevated Installation >35' To 40', Add</i>	9.38	
<i>For Elevated Installation >40', Add</i>	10.31	
26 05 33 13-0575 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal	27.46	10.62
<i>For Work In Restricted Working Space, Add</i>	6.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.13	
<i>For Elevated Installation >15' To 20', Add</i>	4.25	
<i>For Elevated Installation >20' To 25', Add</i>	5.31	
<i>For Elevated Installation >25' To 30', Add</i>	7.44	
<i>For Elevated Installation >30' To 35', Add</i>	8.50	
<i>For Elevated Installation >35' To 40', Add</i>	10.63	
<i>For Elevated Installation >40', Add</i>	11.69	
26 05 33 13-0576 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	32.50	11.88
<i>For Work In Restricted Working Space, Add</i>	7.13	
<i>For Elevated Installation >10' To 15', Add</i>	2.38	
<i>For Elevated Installation >15' To 20', Add</i>	4.75	
<i>For Elevated Installation >20' To 25', Add</i>	5.94	
<i>For Elevated Installation >25' To 30', Add</i>	8.31	
<i>For Elevated Installation >30' To 35', Add</i>	9.50	
<i>For Elevated Installation >35' To 40', Add</i>	11.88	
<i>For Elevated Installation >40', Add</i>	13.06	
26 05 33 13-0577 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal	37.48	13.13
<i>For Work In Restricted Working Space, Add</i>	7.88	
<i>For Elevated Installation >10' To 15', Add</i>	2.63	
<i>For Elevated Installation >15' To 20', Add</i>	5.25	
<i>For Elevated Installation >20' To 25', Add</i>	6.56	
<i>For Elevated Installation >25' To 30', Add</i>	9.19	
<i>For Elevated Installation >30' To 35', Add</i>	10.50	
<i>For Elevated Installation >35' To 40', Add</i>	13.13	
<i>For Elevated Installation >40', Add</i>	14.44	
26 05 33 13-0578 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)		
26 05 33 13-0579 EA 1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	15.27	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Elevated Installation >10' To 15', Add</i>	1.50	
<i>For Elevated Installation >15' To 20', Add</i>	3.00	
<i>For Elevated Installation >20' To 25', Add</i>	3.75	
<i>For Elevated Installation >25' To 30', Add</i>	5.25	
<i>For Elevated Installation >30' To 35', Add</i>	6.00	
<i>For Elevated Installation >35' To 40', Add</i>	7.50	
<i>For Elevated Installation >40', Add</i>	8.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-0580 EA 3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	17.95	8.75
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Elevated Installation >10' To 15', Add</i>	1.75	
<i>For Elevated Installation >15' To 20', Add</i>	3.50	
<i>For Elevated Installation >20' To 25', Add</i>	4.38	
<i>For Elevated Installation >25' To 30', Add</i>	6.13	
<i>For Elevated Installation >30' To 35', Add</i>	7.00	
<i>For Elevated Installation >35' To 40', Add</i>	8.75	
<i>For Elevated Installation >40', Add</i>	9.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33 13-0581 EA 1" Rigid Galvanized Steel (RGS) Chase Nipple.....	22.22	10.62
<i>For Work In Restricted Working Space, Add</i>	6.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.13	
<i>For Elevated Installation >15' To 20', Add</i>	4.25	
<i>For Elevated Installation >20' To 25', Add</i>	5.31	
<i>For Elevated Installation >25' To 30', Add</i>	7.44	
<i>For Elevated Installation >30' To 35', Add</i>	8.50	
<i>For Elevated Installation >35' To 40', Add</i>	10.63	
<i>For Elevated Installation >40', Add</i>	11.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0582	EA		1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	26.70	12.50
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	
26 05 33 13-0583	EA		1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	33.42	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0584	EA		2" Rigid Galvanized Steel (RGS) Chase Nipple.....	41.02	18.75
			<i>For Work In Restricted Working Space, Add</i>	11.25	
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	
26 05 33 13-0585	EA		2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	50.46	21.88
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.32	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-0586	EA		3" Rigid Galvanized Steel (RGS) Chase Nipple.....	56.88	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.00	
			<i>For Elevated Installation >40', Add</i>	27.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.00	
26 05 33 13-0587	EA		3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	68.41	28.13
			<i>For Work In Restricted Working Space, Add</i>	16.88	
			<i>For Elevated Installation >10' To 15', Add</i>	5.63	
			<i>For Elevated Installation >15' To 20', Add</i>	11.25	
			<i>For Elevated Installation >20' To 25', Add</i>	14.07	
			<i>For Elevated Installation >25' To 30', Add</i>	19.69	
			<i>For Elevated Installation >30' To 35', Add</i>	22.50	
			<i>For Elevated Installation >35' To 40', Add</i>	28.13	
			<i>For Elevated Installation >40', Add</i>	30.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.88	
26 05 33 13-0588	EA		4" Rigid Galvanized Steel (RGS) Chase Nipple.....	87.98	31.25
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0589			Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0059)		
26 05 33 13-0590	EA		1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	27.12	11.26
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.25	
			<i>For Elevated Installation >15' To 20', Add</i>	4.50	
			<i>For Elevated Installation >20' To 25', Add</i>	5.63	
			<i>For Elevated Installation >25' To 30', Add</i>	7.88	
			<i>For Elevated Installation >30' To 35', Add</i>	9.00	
			<i>For Elevated Installation >35' To 40', Add</i>	11.25	
			<i>For Elevated Installation >40', Add</i>	12.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0591 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	31.56	13.13
<i>For Work In Restricted Working Space, Add</i>	7.88	
<i>For Elevated Installation >10' To 15', Add</i>	2.63	
<i>For Elevated Installation >15' To 20', Add</i>	5.25	
<i>For Elevated Installation >20' To 25', Add</i>	6.56	
<i>For Elevated Installation >25' To 30', Add</i>	9.19	
<i>For Elevated Installation >30' To 35', Add</i>	10.50	
<i>For Elevated Installation >35' To 40', Add</i>	13.13	
<i>For Elevated Installation >40', Add</i>	14.44	
26 05 33 13-0592 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	38.82	15.00
<i>For Work In Restricted Working Space, Add</i>	9.00	
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.50	
<i>For Elevated Installation >30' To 35', Add</i>	12.00	
<i>For Elevated Installation >35' To 40', Add</i>	15.01	
<i>For Elevated Installation >40', Add</i>	16.51	
26 05 33 13-0593 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	49.36	18.75
<i>For Work In Restricted Working Space, Add</i>	11.25	
<i>For Elevated Installation >10' To 15', Add</i>	3.75	
<i>For Elevated Installation >15' To 20', Add</i>	7.50	
<i>For Elevated Installation >20' To 25', Add</i>	9.38	
<i>For Elevated Installation >25' To 30', Add</i>	13.13	
<i>For Elevated Installation >30' To 35', Add</i>	15.00	
<i>For Elevated Installation >35' To 40', Add</i>	18.75	
<i>For Elevated Installation >40', Add</i>	20.63	
26 05 33 13-0594 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	63.82	22.50
<i>For Work In Restricted Working Space, Add</i>	13.50	
<i>For Elevated Installation >10' To 15', Add</i>	4.50	
<i>For Elevated Installation >15' To 20', Add</i>	9.00	
<i>For Elevated Installation >20' To 25', Add</i>	11.25	
<i>For Elevated Installation >25' To 30', Add</i>	15.75	
<i>For Elevated Installation >30' To 35', Add</i>	18.00	
<i>For Elevated Installation >35' To 40', Add</i>	22.50	
<i>For Elevated Installation >40', Add</i>	24.75	
26 05 33 13-0595 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	82.30	26.25
<i>For Work In Restricted Working Space, Add</i>	15.75	
<i>For Elevated Installation >10' To 15', Add</i>	5.25	
<i>For Elevated Installation >15' To 20', Add</i>	10.50	
<i>For Elevated Installation >20' To 25', Add</i>	13.13	
<i>For Elevated Installation >25' To 30', Add</i>	18.38	
<i>For Elevated Installation >30' To 35', Add</i>	21.00	
<i>For Elevated Installation >35' To 40', Add</i>	26.26	
<i>For Elevated Installation >40', Add</i>	28.88	
26 05 33 13-0596 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	109.19	30.01
<i>For Work In Restricted Working Space, Add</i>	18.00	
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	12.00	
<i>For Elevated Installation >20' To 25', Add</i>	15.00	
<i>For Elevated Installation >25' To 30', Add</i>	21.00	
<i>For Elevated Installation >30' To 35', Add</i>	24.00	
<i>For Elevated Installation >35' To 40', Add</i>	30.01	
<i>For Elevated Installation >40', Add</i>	33.01	
26 05 33 13-0597 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	179.20	37.50
<i>For Work In Restricted Working Space, Add</i>	22.50	
<i>For Elevated Installation >10' To 15', Add</i>	7.50	
<i>For Elevated Installation >15' To 20', Add</i>	15.00	
<i>For Elevated Installation >20' To 25', Add</i>	18.75	
<i>For Elevated Installation >25' To 30', Add</i>	26.25	
<i>For Elevated Installation >30' To 35', Add</i>	30.00	
<i>For Elevated Installation >35' To 40', Add</i>	37.51	
<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0598 Electrical Metallic Tubing (EMT) Thinwall Conduit <small>(26 05 33 13-0058)</small>		
<i>Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.</i>		
26 05 33 13-0599 Electrical Metallic Tubing (EMT) Thinwall Conduit <small>(26 05 33 13-0598)</small>		
<i>Note: Includes field bending conduit up to and including 1".</i>		
26 05 33 13-0600 LF 1/2" Electrical Metallic Tubing (EMT) Conduit.....	6.46	2.26
<i>For >250 To 500, Deduct</i>	-0.04	
<i>For >500 To 1,000, Deduct</i>	-0.34	
<i>For >1,000, Deduct</i>	-0.51	
<i>For Installation In Metal Stud Wall, Add</i>	0.56	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.41	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	1.69	
<i>For Elevated Installation >10' To 15', Add</i>	0.56	
<i>For Elevated Installation >15' To 20', Add</i>	1.12	
<i>For Elevated Installation >20' To 25', Add</i>	1.41	
<i>For Elevated Installation >25' To 30', Add</i>	1.97	
<i>For Elevated Installation >30' To 35', Add</i>	2.25	
<i>For Elevated Installation >35' To 40', Add</i>	2.81	
<i>For Elevated Installation >40', Add</i>	3.09	
<i>For Factory Applied Color Coating, Add</i>	0.25	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0601	LF	3/4" Electrical Metallic Tubing (EMT) Conduit.....	7.56	2.50
			<i>For >250 To 500, Deduct</i>	-0.07	
			<i>For >500 To 1,000, Deduct</i>	-0.41	
			<i>For >1,000, Deduct</i>	-0.60	
			<i>For Installation In Metal Stud Wall, Add</i>	0.63	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.56	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	1.88	
			<i>For Elevated Installation >10' To 15', Add</i>	0.63	
			<i>For Elevated Installation >15' To 20', Add</i>	1.25	
			<i>For Elevated Installation >20' To 25', Add</i>	1.56	
			<i>For Elevated Installation >25' To 30', Add</i>	2.19	
			<i>For Elevated Installation >30' To 35', Add</i>	2.50	
			<i>For Elevated Installation >35' To 40', Add</i>	3.13	
			<i>For Elevated Installation >40', Add</i>	3.44	
			<i>For Factory Applied Color Coating, Add</i>	0.39	
26 05 33	13-0602	LF	1" Electrical Metallic Tubing (EMT) Conduit.....	9.07	2.75
			<i>For >250 To 500, Deduct</i>	-0.11	
			<i>For >500 To 1,000, Deduct</i>	-0.51	
			<i>For >1,000, Deduct</i>	-0.74	
			<i>For Installation In Metal Stud Wall, Add</i>	0.69	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.72	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.03	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
			<i>For Elevated Installation >10' To 15', Add</i>	0.69	
			<i>For Elevated Installation >15' To 20', Add</i>	1.38	
			<i>For Elevated Installation >20' To 25', Add</i>	1.72	
			<i>For Elevated Installation >25' To 30', Add</i>	2.41	
			<i>For Elevated Installation >30' To 35', Add</i>	2.75	
			<i>For Elevated Installation >35' To 40', Add</i>	3.44	
			<i>For Elevated Installation >40', Add</i>	3.78	
			<i>For Factory Applied Color Coating, Add</i>	0.66	
26 05 33	13-0603	LF	1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	11.20	3.10
			<i>For >250 To 500, Deduct</i>	-0.17	
			<i>For >500 To 1,000, Deduct</i>	-0.65	
			<i>For >1,000, Deduct</i>	-0.93	
			<i>For Installation In Metal Stud Wall, Add</i>	0.78	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.94	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	2.33	
			<i>For Elevated Installation >10' To 15', Add</i>	0.78	
			<i>For Elevated Installation >15' To 20', Add</i>	1.55	
			<i>For Elevated Installation >20' To 25', Add</i>	1.94	
			<i>For Elevated Installation >25' To 30', Add</i>	2.71	
			<i>For Elevated Installation >30' To 35', Add</i>	3.10	
			<i>For Elevated Installation >35' To 40', Add</i>	3.88	
			<i>For Elevated Installation >40', Add</i>	4.26	
			<i>For Factory Applied Color Coating, Add</i>	1.04	
26 05 33	13-0604	LF	1-1/2" Electrical Metallic Tubing (EMT) Conduit.....	13.04	3.50
			<i>For >250 To 500, Deduct</i>	-0.21	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000, Deduct</i>	-1.09	
			<i>For Installation In Metal Stud Wall, Add</i>	0.88	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.19	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	2.63	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
			<i>For Factory Applied Color Coating, Add</i>	1.29	
26 05 33	13-0605	LF	2" Electrical Metallic Tubing (EMT) Conduit.....	15.09	4.00
			<i>For >250 To 500, Deduct</i>	-0.25	
			<i>For >500 To 1,000, Deduct</i>	-0.88	
			<i>For >1,000, Deduct</i>	-1.26	
			<i>For Installation In Metal Stud Wall, Add</i>	1.00	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.50	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.50	
			<i>For Work In Restricted Working Space, Add</i>	3.00	
			<i>For Elevated Installation >10' To 15', Add</i>	1.00	
			<i>For Elevated Installation >15' To 20', Add</i>	2.00	
			<i>For Elevated Installation >20' To 25', Add</i>	2.50	
			<i>For Elevated Installation >25' To 30', Add</i>	3.50	
			<i>For Elevated Installation >30' To 35', Add</i>	4.00	
			<i>For Elevated Installation >35' To 40', Add</i>	5.00	
			<i>For Elevated Installation >40', Add</i>	5.50	
			<i>For Factory Applied Color Coating, Add</i>	1.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0606 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit	19.42	4.75
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-1.16	
For >1,000, Deduct	-1.65	
For Installation In Metal Stud Wall, Add	1.19	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.97	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.78	
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	
For Factory Applied Color Coating, Add	2.26	
26 05 33 13-0607 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	23.19	5.50
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.98	
For Installation In Metal Stud Wall, Add	1.38	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.44	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.06	
For Work In Restricted Working Space, Add	4.13	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.75	
For Elevated Installation >20' To 25', Add	3.44	
For Elevated Installation >25' To 30', Add	4.81	
For Elevated Installation >30' To 35', Add	5.50	
For Elevated Installation >35' To 40', Add	6.88	
For Elevated Installation >40', Add	7.56	
For Factory Applied Color Coating, Add	2.83	
26 05 33 13-0608 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit	28.88	6.50
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-1.76	
For >1,000, Deduct	-2.48	
For Installation In Metal Stud Wall, Add	1.63	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.07	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.44	
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Factory Applied Color Coating, Add	3.79	
26 05 33 13-0609 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	38.12	9.56
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-2.26	
For >1,000, Deduct	-3.21	
For Installation In Metal Stud Wall, Add	2.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.98	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.59	
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
For Factory Applied Color Coating, Add	4.27	
26 05 33 13-0610 Electrical Metallic Tubing (EMT) 90 Degree Elbows <small>(26 05 33 13-0598)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0611 Electrical Metallic Tubing (EMT) Set Screw Couplings <small>(26 05 33 13-0598)</small>		
26 05 33 13-0612 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.50	3.00
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0613 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.87	3.00
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
26 05 33 13-0614 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.31	3.50
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	12.47	4.50
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.94	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.63	
For Elevated Installation >40', Add	6.19	
26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	15.37	5.50
For Work In Restricted Working Space, Add	4.13	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.75	
For Elevated Installation >20' To 25', Add	3.44	
For Elevated Installation >25' To 30', Add	4.81	
For Elevated Installation >30' To 35', Add	5.50	
For Elevated Installation >35' To 40', Add	6.88	
For Elevated Installation >40', Add	7.56	
26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	20.90	7.50
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	28.78	10.00
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0619 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	37.11	11.51
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0620 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	42.14	12.50
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0621 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	120.45	34.66
For Work In Restricted Working Space, Add	33.65	
For Elevated Installation >10' To 15', Add	11.22	
For Elevated Installation >15' To 20', Add	22.44	
For Elevated Installation >20' To 25', Add	28.05	
For Elevated Installation >25' To 30', Add	39.26	
For Elevated Installation >30' To 35', Add	44.87	
For Elevated Installation >35' To 40', Add	56.09	
For Elevated Installation >40', Add	61.70	

26 05 33 13-0622 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0598)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0623 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	8.12	3.00
<i>For Work In Restricted Working Space, Add</i>	2.25	
<i>For Elevated Installation >10' To 15', Add</i>	0.75	
<i>For Elevated Installation >15' To 20', Add</i>	1.50	
<i>For Elevated Installation >20' To 25', Add</i>	1.88	
<i>For Elevated Installation >25' To 30', Add</i>	2.63	
<i>For Elevated Installation >30' To 35', Add</i>	3.00	
<i>For Elevated Installation >35' To 40', Add</i>	3.75	
<i>For Elevated Installation >40', Add</i>	4.13	
26 05 33 13-0624 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.43	3.50
<i>For Work In Restricted Working Space, Add</i>	2.63	
<i>For Elevated Installation >10' To 15', Add</i>	0.88	
<i>For Elevated Installation >15' To 20', Add</i>	1.75	
<i>For Elevated Installation >20' To 25', Add</i>	2.19	
<i>For Elevated Installation >25' To 30', Add</i>	3.06	
<i>For Elevated Installation >30' To 35', Add</i>	3.50	
<i>For Elevated Installation >35' To 40', Add</i>	4.38	
<i>For Elevated Installation >40', Add</i>	4.81	
26 05 33 13-0625 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.45	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Elevated Installation >10' To 15', Add</i>	1.25	
<i>For Elevated Installation >15' To 20', Add</i>	2.50	
<i>For Elevated Installation >20' To 25', Add</i>	3.13	
<i>For Elevated Installation >25' To 30', Add</i>	4.38	
<i>For Elevated Installation >30' To 35', Add</i>	5.00	
<i>For Elevated Installation >35' To 40', Add</i>	6.25	
<i>For Elevated Installation >40', Add</i>	6.88	
26 05 33 13-0626 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	16.98	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Elevated Installation >10' To 15', Add</i>	1.50	
<i>For Elevated Installation >15' To 20', Add</i>	3.00	
<i>For Elevated Installation >20' To 25', Add</i>	3.75	
<i>For Elevated Installation >25' To 30', Add</i>	5.25	
<i>For Elevated Installation >30' To 35', Add</i>	6.00	
<i>For Elevated Installation >35' To 40', Add</i>	7.50	
<i>For Elevated Installation >40', Add</i>	8.25	
26 05 33 13-0627 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	20.29	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Elevated Installation >10' To 15', Add</i>	1.75	
<i>For Elevated Installation >15' To 20', Add</i>	3.50	
<i>For Elevated Installation >20' To 25', Add</i>	4.38	
<i>For Elevated Installation >25' To 30', Add</i>	6.13	
<i>For Elevated Installation >30' To 35', Add</i>	7.00	
<i>For Elevated Installation >35' To 40', Add</i>	8.75	
<i>For Elevated Installation >40', Add</i>	9.63	
26 05 33 13-0628 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	26.88	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation >10' To 15', Add</i>	2.25	
<i>For Elevated Installation >15' To 20', Add</i>	4.50	
<i>For Elevated Installation >20' To 25', Add</i>	5.63	
<i>For Elevated Installation >25' To 30', Add</i>	7.88	
<i>For Elevated Installation >30' To 35', Add</i>	9.00	
<i>For Elevated Installation >35' To 40', Add</i>	11.25	
<i>For Elevated Installation >40', Add</i>	12.38	
26 05 33 13-0629 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	41.46	12.00
<i>For Work In Restricted Working Space, Add</i>	9.00	
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.50	
<i>For Elevated Installation >30' To 35', Add</i>	12.00	
<i>For Elevated Installation >35' To 40', Add</i>	15.01	
<i>For Elevated Installation >40', Add</i>	16.51	
26 05 33 13-0630 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	48.02	14.00
<i>For Work In Restricted Working Space, Add</i>	10.50	
<i>For Elevated Installation >10' To 15', Add</i>	3.50	
<i>For Elevated Installation >15' To 20', Add</i>	7.00	
<i>For Elevated Installation >20' To 25', Add</i>	8.75	
<i>For Elevated Installation >25' To 30', Add</i>	12.25	
<i>For Elevated Installation >30' To 35', Add</i>	14.00	
<i>For Elevated Installation >35' To 40', Add</i>	17.51	
<i>For Elevated Installation >40', Add</i>	19.26	
26 05 33 13-0631 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	60.04	17.50
<i>For Work In Restricted Working Space, Add</i>	13.13	
<i>For Elevated Installation >10' To 15', Add</i>	4.38	
<i>For Elevated Installation >15' To 20', Add</i>	8.75	
<i>For Elevated Installation >20' To 25', Add</i>	10.94	
<i>For Elevated Installation >25' To 30', Add</i>	15.32	
<i>For Elevated Installation >30' To 35', Add</i>	17.50	
<i>For Elevated Installation >35' To 40', Add</i>	21.88	
<i>For Elevated Installation >40', Add</i>	24.07	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0632	EA	4" Electrical Metallic Tubing (EMT) Compression Coupling.....	77.02	22.50
			<i>For Work In Restricted Working Space, Add</i>	16.88	
			<i>For Elevated Installation >10' To 15', Add</i>	5.63	
			<i>For Elevated Installation >15' To 20', Add</i>	11.25	
			<i>For Elevated Installation >20' To 25', Add</i>	14.07	
			<i>For Elevated Installation >25' To 30', Add</i>	19.69	
			<i>For Elevated Installation >30' To 35', Add</i>	22.50	
			<i>For Elevated Installation >35' To 40', Add</i>	28.13	
			<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33	13-0633		Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾		
			<small>(05 33 13-0598)</small>		
26 05 33	13-0634	EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.45	2.50
			<i>For Work In Restricted Working Space, Add</i>	1.88	
			<i>For Elevated Installation >10' To 15', Add</i>	0.63	
			<i>For Elevated Installation >15' To 20', Add</i>	1.25	
			<i>For Elevated Installation >20' To 25', Add</i>	1.56	
			<i>For Elevated Installation >25' To 30', Add</i>	2.19	
			<i>For Elevated Installation >30' To 35', Add</i>	2.50	
			<i>For Elevated Installation >35' To 40', Add</i>	3.13	
			<i>For Elevated Installation >40', Add</i>	3.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.88	
26 05 33	13-0635	EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.82	3.00
			<i>For Work In Restricted Working Space, Add</i>	2.25	
			<i>For Elevated Installation >10' To 15', Add</i>	0.75	
			<i>For Elevated Installation >15' To 20', Add</i>	1.50	
			<i>For Elevated Installation >20' To 25', Add</i>	1.88	
			<i>For Elevated Installation >25' To 30', Add</i>	2.63	
			<i>For Elevated Installation >30' To 35', Add</i>	3.00	
			<i>For Elevated Installation >35' To 40', Add</i>	3.75	
			<i>For Elevated Installation >40', Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.25	
26 05 33	13-0636	EA	1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	9.31	3.50
			<i>For Work In Restricted Working Space, Add</i>	2.63	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.63	
26 05 33	13-0637	EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	13.53	5.00
			<i>For Work In Restricted Working Space, Add</i>	3.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.25	
			<i>For Elevated Installation >15' To 20', Add</i>	2.50	
			<i>For Elevated Installation >20' To 25', Add</i>	3.13	
			<i>For Elevated Installation >25' To 30', Add</i>	4.38	
			<i>For Elevated Installation >30' To 35', Add</i>	5.00	
			<i>For Elevated Installation >35' To 40', Add</i>	6.25	
			<i>For Elevated Installation >40', Add</i>	6.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 33	13-0638	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	16.50	6.00
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Elevated Installation >10' To 15', Add</i>	1.50	
			<i>For Elevated Installation >15' To 20', Add</i>	3.00	
			<i>For Elevated Installation >20' To 25', Add</i>	3.75	
			<i>For Elevated Installation >25' To 30', Add</i>	5.25	
			<i>For Elevated Installation >30' To 35', Add</i>	6.00	
			<i>For Elevated Installation >35' To 40', Add</i>	7.50	
			<i>For Elevated Installation >40', Add</i>	8.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33	13-0639	EA	2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	20.97	7.50
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33	13-0640	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	31.20	10.00
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0641 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	38.81	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0642 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	46.00	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	
26 05 33 13-0643 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	53.60	17.50
For Work In Restricted Working Space, Add	13.13	
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
 26 05 33 13-0644 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw		
<small>(26 05 33 13-0598)</small>		
26 05 33 13-0645 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	8.71	3.38
For Work In Restricted Working Space, Add	2.51	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.93	
For Elevated Installation >30' To 35', Add	3.35	
For Elevated Installation >35' To 40', Add	4.19	
For Elevated Installation >40', Add	4.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 33 13-0646 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.66	3.63
For Work In Restricted Working Space, Add	2.74	
For Elevated Installation >10' To 15', Add	0.91	
For Elevated Installation >15' To 20', Add	1.83	
For Elevated Installation >20' To 25', Add	2.28	
For Elevated Installation >25' To 30', Add	3.20	
For Elevated Installation >30' To 35', Add	3.65	
For Elevated Installation >35' To 40', Add	4.57	
For Elevated Installation >40', Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.74	
26 05 33 13-0647 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.06	4.50
For Work In Restricted Working Space, Add	3.34	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.22	
For Elevated Installation >20' To 25', Add	2.78	
For Elevated Installation >25' To 30', Add	3.89	
For Elevated Installation >30' To 35', Add	4.45	
For Elevated Installation >35' To 40', Add	5.56	
For Elevated Installation >40', Add	6.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.34	
26 05 33 13-0648 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	15.81	5.75
For Work In Restricted Working Space, Add	4.28	
For Elevated Installation >10' To 15', Add	1.43	
For Elevated Installation >15' To 20', Add	2.85	
For Elevated Installation >20' To 25', Add	3.56	
For Elevated Installation >25' To 30', Add	4.99	
For Elevated Installation >30' To 35', Add	5.70	
For Elevated Installation >35' To 40', Add	7.13	
For Elevated Installation >40', Add	7.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.28	
26 05 33 13-0649 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	18.71	6.62
For Work In Restricted Working Space, Add	4.99	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.33	
For Elevated Installation >20' To 25', Add	4.16	
For Elevated Installation >25' To 30', Add	5.82	
For Elevated Installation >30' To 35', Add	6.65	
For Elevated Installation >35' To 40', Add	8.32	
For Elevated Installation >40', Add	9.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0650	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	22.86	8.00
			<i>For Work In Restricted Working Space, Add</i>	6.00	
			<i>For Elevated Installation >10' To 15', Add</i>	2.00	
			<i>For Elevated Installation >15' To 20', Add</i>	4.00	
			<i>For Elevated Installation >20' To 25', Add</i>	5.00	
			<i>For Elevated Installation >25' To 30', Add</i>	7.00	
			<i>For Elevated Installation >30' To 35', Add</i>	8.00	
			<i>For Elevated Installation >35' To 40', Add</i>	10.00	
			<i>For Elevated Installation >40', Add</i>	11.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33	13-0651	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	37.12	11.12
			<i>For Work In Restricted Working Space, Add</i>	8.33	
			<i>For Elevated Installation >10' To 15', Add</i>	2.78	
			<i>For Elevated Installation >15' To 20', Add</i>	5.55	
			<i>For Elevated Installation >20' To 25', Add</i>	6.94	
			<i>For Elevated Installation >25' To 30', Add</i>	9.71	
			<i>For Elevated Installation >30' To 35', Add</i>	11.10	
			<i>For Elevated Installation >35' To 40', Add</i>	13.88	
			<i>For Elevated Installation >40', Add</i>	15.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.33	
26 05 33	13-0652	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	48.20	14.75
			<i>For Work In Restricted Working Space, Add</i>	11.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.70	
			<i>For Elevated Installation >15' To 20', Add</i>	7.40	
			<i>For Elevated Installation >20' To 25', Add</i>	9.25	
			<i>For Elevated Installation >25' To 30', Add</i>	12.95	
			<i>For Elevated Installation >30' To 35', Add</i>	14.80	
			<i>For Elevated Installation >35' To 40', Add</i>	18.50	
			<i>For Elevated Installation >40', Add</i>	20.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.10	
26 05 33	13-0653	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	61.63	19.00
			<i>For Work In Restricted Working Space, Add</i>	14.29	
			<i>For Elevated Installation >10' To 15', Add</i>	4.76	
			<i>For Elevated Installation >15' To 20', Add</i>	9.53	
			<i>For Elevated Installation >20' To 25', Add</i>	11.91	
			<i>For Elevated Installation >25' To 30', Add</i>	16.67	
			<i>For Elevated Installation >30' To 35', Add</i>	19.05	
			<i>For Elevated Installation >35' To 40', Add</i>	23.82	
			<i>For Elevated Installation >40', Add</i>	26.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.29	
26 05 33	13-0654	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	77.92	25.01
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33	13-0655		Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33)</small>		
			<small>13-0598)</small>		
26 05 33	13-0656	EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.82	3.00
			<i>For Work In Restricted Working Space, Add</i>	2.25	
			<i>For Elevated Installation >10' To 15', Add</i>	0.75	
			<i>For Elevated Installation >15' To 20', Add</i>	1.50	
			<i>For Elevated Installation >20' To 25', Add</i>	1.88	
			<i>For Elevated Installation >25' To 30', Add</i>	2.63	
			<i>For Elevated Installation >30' To 35', Add</i>	3.00	
			<i>For Elevated Installation >35' To 40', Add</i>	3.75	
			<i>For Elevated Installation >40', Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.25	
26 05 33	13-0657	EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	9.24	3.50
			<i>For Work In Restricted Working Space, Add</i>	2.63	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.63	
26 05 33	13-0658	EA	1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	13.19	5.00
			<i>For Work In Restricted Working Space, Add</i>	3.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.25	
			<i>For Elevated Installation >15' To 20', Add</i>	2.50	
			<i>For Elevated Installation >20' To 25', Add</i>	3.13	
			<i>For Elevated Installation >25' To 30', Add</i>	4.38	
			<i>For Elevated Installation >30' To 35', Add</i>	5.00	
			<i>For Elevated Installation >35' To 40', Add</i>	6.25	
			<i>For Elevated Installation >40', Add</i>	6.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0659 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	16.30	6.00
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.50	
26 05 33 13-0660 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	19.33	7.01
For Work In Restricted Working Space, Add	5.25	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.00	
For Elevated Installation >35' To 40', Add	8.75	
For Elevated Installation >40', Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.25	
26 05 33 13-0661 EA 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	25.16	9.00
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0662 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	38.02	12.00
For Work In Restricted Working Space, Add	9.00	
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.50	
For Elevated Installation >30' To 35', Add	12.00	
For Elevated Installation >35' To 40', Add	15.01	
For Elevated Installation >40', Add	16.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.00	
26 05 33 13-0663 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	47.97	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	
26 05 33 13-0664 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	59.90	17.50
For Work In Restricted Working Space, Add	13.13	
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-0665 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	67.50	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0666 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors		
<small>(26 05 33 13-0598)</small>		
26 05 33 13-0667 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	8.93	3.38
For Work In Restricted Working Space, Add	2.51	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.93	
For Elevated Installation >30' To 35', Add	3.35	
For Elevated Installation >35' To 40', Add	4.19	
For Elevated Installation >40', Add	4.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0668	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	9.89	3.63
			<i>For Work In Restricted Working Space, Add</i>	2.74	
			<i>For Elevated Installation >10' To 15', Add</i>	0.91	
			<i>For Elevated Installation >15' To 20', Add</i>	1.83	
			<i>For Elevated Installation >20' To 25', Add</i>	2.28	
			<i>For Elevated Installation >25' To 30', Add</i>	3.20	
			<i>For Elevated Installation >30' To 35', Add</i>	3.65	
			<i>For Elevated Installation >35' To 40', Add</i>	4.57	
			<i>For Elevated Installation >40', Add</i>	5.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.74	
26 05 33	13-0669	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	12.25	4.50
			<i>For Work In Restricted Working Space, Add</i>	3.34	
			<i>For Elevated Installation >10' To 15', Add</i>	1.11	
			<i>For Elevated Installation >15' To 20', Add</i>	2.22	
			<i>For Elevated Installation >20' To 25', Add</i>	2.78	
			<i>For Elevated Installation >25' To 30', Add</i>	3.89	
			<i>For Elevated Installation >30' To 35', Add</i>	4.45	
			<i>For Elevated Installation >35' To 40', Add</i>	5.56	
			<i>For Elevated Installation >40', Add</i>	6.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.34	
26 05 33	13-0670	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	16.37	5.75
			<i>For Work In Restricted Working Space, Add</i>	4.28	
			<i>For Elevated Installation >10' To 15', Add</i>	1.43	
			<i>For Elevated Installation >15' To 20', Add</i>	2.85	
			<i>For Elevated Installation >20' To 25', Add</i>	3.56	
			<i>For Elevated Installation >25' To 30', Add</i>	4.99	
			<i>For Elevated Installation >30' To 35', Add</i>	5.70	
			<i>For Elevated Installation >35' To 40', Add</i>	7.13	
			<i>For Elevated Installation >40', Add</i>	7.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.28	
26 05 33	13-0671	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	19.63	6.62
			<i>For Work In Restricted Working Space, Add</i>	4.99	
			<i>For Elevated Installation >10' To 15', Add</i>	1.66	
			<i>For Elevated Installation >15' To 20', Add</i>	3.33	
			<i>For Elevated Installation >20' To 25', Add</i>	4.16	
			<i>For Elevated Installation >25' To 30', Add</i>	5.82	
			<i>For Elevated Installation >30' To 35', Add</i>	6.65	
			<i>For Elevated Installation >35' To 40', Add</i>	8.32	
			<i>For Elevated Installation >40', Add</i>	9.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.99	
26 05 33	13-0672	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	24.18	8.00
			<i>For Work In Restricted Working Space, Add</i>	6.00	
			<i>For Elevated Installation >10' To 15', Add</i>	2.00	
			<i>For Elevated Installation >15' To 20', Add</i>	4.00	
			<i>For Elevated Installation >20' To 25', Add</i>	5.00	
			<i>For Elevated Installation >25' To 30', Add</i>	7.00	
			<i>For Elevated Installation >30' To 35', Add</i>	8.00	
			<i>For Elevated Installation >35' To 40', Add</i>	10.00	
			<i>For Elevated Installation >40', Add</i>	11.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33	13-0673	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	41.94	11.12
			<i>For Work In Restricted Working Space, Add</i>	8.33	
			<i>For Elevated Installation >10' To 15', Add</i>	2.78	
			<i>For Elevated Installation >15' To 20', Add</i>	5.55	
			<i>For Elevated Installation >20' To 25', Add</i>	6.94	
			<i>For Elevated Installation >25' To 30', Add</i>	9.71	
			<i>For Elevated Installation >30' To 35', Add</i>	11.10	
			<i>For Elevated Installation >35' To 40', Add</i>	13.88	
			<i>For Elevated Installation >40', Add</i>	15.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.33	
26 05 33	13-0674	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	56.31	14.75
			<i>For Work In Restricted Working Space, Add</i>	11.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.70	
			<i>For Elevated Installation >15' To 20', Add</i>	7.40	
			<i>For Elevated Installation >20' To 25', Add</i>	9.25	
			<i>For Elevated Installation >25' To 30', Add</i>	12.95	
			<i>For Elevated Installation >30' To 35', Add</i>	14.80	
			<i>For Elevated Installation >35' To 40', Add</i>	18.50	
			<i>For Elevated Installation >40', Add</i>	20.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.10	
26 05 33	13-0675	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	75.85	19.00
			<i>For Work In Restricted Working Space, Add</i>	14.29	
			<i>For Elevated Installation >10' To 15', Add</i>	4.76	
			<i>For Elevated Installation >15' To 20', Add</i>	9.53	
			<i>For Elevated Installation >20' To 25', Add</i>	11.91	
			<i>For Elevated Installation >25' To 30', Add</i>	16.67	
			<i>For Elevated Installation >30' To 35', Add</i>	19.05	
			<i>For Elevated Installation >35' To 40', Add</i>	23.82	
			<i>For Elevated Installation >40', Add</i>	26.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0676 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	95.52	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0677 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0598)		
Note: Excludes jumper.		
26 05 33 13-0678 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	63.99	16.63
<i>For Work In Restricted Working Space, Add</i>	12.48	
<i>For Elevated Installation >10' To 15', Add</i>	4.16	
<i>For Elevated Installation >15' To 20', Add</i>	8.32	
<i>For Elevated Installation >20' To 25', Add</i>	10.40	
<i>For Elevated Installation >25' To 30', Add</i>	14.56	
<i>For Elevated Installation >30' To 35', Add</i>	16.64	
<i>For Elevated Installation >35' To 40', Add</i>	20.80	
<i>For Elevated Installation >40', Add</i>	22.88	
26 05 33 13-0679 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	77.14	20.13
<i>For Work In Restricted Working Space, Add</i>	15.13	
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.09	
<i>For Elevated Installation >20' To 25', Add</i>	12.61	
<i>For Elevated Installation >25' To 30', Add</i>	17.65	
<i>For Elevated Installation >30' To 35', Add</i>	20.17	
<i>For Elevated Installation >35' To 40', Add</i>	25.22	
<i>For Elevated Installation >40', Add</i>	27.74	
26 05 33 13-0680 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling	94.93	25.26
<i>For Work In Restricted Working Space, Add</i>	18.91	
<i>For Elevated Installation >10' To 15', Add</i>	6.30	
<i>For Elevated Installation >15' To 20', Add</i>	12.61	
<i>For Elevated Installation >20' To 25', Add</i>	15.76	
<i>For Elevated Installation >25' To 30', Add</i>	22.06	
<i>For Elevated Installation >30' To 35', Add</i>	25.22	
<i>For Elevated Installation >35' To 40', Add</i>	31.52	
<i>For Elevated Installation >40', Add</i>	34.67	
26 05 33 13-0681 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	122.22	31.00
<i>For Work In Restricted Working Space, Add</i>	23.27	
<i>For Elevated Installation >10' To 15', Add</i>	7.76	
<i>For Elevated Installation >15' To 20', Add</i>	15.51	
<i>For Elevated Installation >20' To 25', Add</i>	19.39	
<i>For Elevated Installation >25' To 30', Add</i>	27.14	
<i>For Elevated Installation >30' To 35', Add</i>	31.02	
<i>For Elevated Installation >35' To 40', Add</i>	38.78	
<i>For Elevated Installation >40', Add</i>	42.65	
26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	151.15	36.38
<i>For Work In Restricted Working Space, Add</i>	27.29	
<i>For Elevated Installation >10' To 15', Add</i>	9.10	
<i>For Elevated Installation >15' To 20', Add</i>	18.19	
<i>For Elevated Installation >20' To 25', Add</i>	22.74	
<i>For Elevated Installation >25' To 30', Add</i>	31.83	
<i>For Elevated Installation >30' To 35', Add</i>	36.38	
<i>For Elevated Installation >35' To 40', Add</i>	45.48	
<i>For Elevated Installation >40', Add</i>	50.02	
26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	189.03	44.26
<i>For Work In Restricted Working Space, Add</i>	33.23	
<i>For Elevated Installation >10' To 15', Add</i>	11.08	
<i>For Elevated Installation >15' To 20', Add</i>	22.15	
<i>For Elevated Installation >20' To 25', Add</i>	27.69	
<i>For Elevated Installation >25' To 30', Add</i>	38.76	
<i>For Elevated Installation >30' To 35', Add</i>	44.30	
<i>For Elevated Installation >35' To 40', Add</i>	55.38	
<i>For Elevated Installation >40', Add</i>	60.91	
26 05 33 13-0684 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	351.78	56.88
<i>For Work In Restricted Working Space, Add</i>	42.67	
<i>For Elevated Installation >10' To 15', Add</i>	14.22	
<i>For Elevated Installation >15' To 20', Add</i>	28.45	
<i>For Elevated Installation >20' To 25', Add</i>	35.56	
<i>For Elevated Installation >25' To 30', Add</i>	49.78	
<i>For Elevated Installation >30' To 35', Add</i>	56.90	
<i>For Elevated Installation >35' To 40', Add</i>	71.12	
<i>For Elevated Installation >40', Add</i>	78.23	
26 05 33 13-0685 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	429.25	66.51
<i>For Work In Restricted Working Space, Add</i>	49.90	
<i>For Elevated Installation >10' To 15', Add</i>	16.63	
<i>For Elevated Installation >15' To 20', Add</i>	33.26	
<i>For Elevated Installation >20' To 25', Add</i>	41.58	
<i>For Elevated Installation >25' To 30', Add</i>	58.21	
<i>For Elevated Installation >30' To 35', Add</i>	66.53	
<i>For Elevated Installation >35' To 40', Add</i>	83.16	
<i>For Elevated Installation >40', Add</i>	91.48	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0686 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	524.19	72.51
For Work In Restricted Working Space, Add	54.40	
For Elevated Installation >10' To 15', Add	18.13	
For Elevated Installation >15' To 20', Add	36.27	
For Elevated Installation >20' To 25', Add	45.33	
For Elevated Installation >25' To 30', Add	63.47	
For Elevated Installation >30' To 35', Add	72.53	
For Elevated Installation >35' To 40', Add	90.67	
For Elevated Installation >40', Add	99.73	
26 05 33 13-0687 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	567.86	80.01
For Work In Restricted Working Space, Add	60.03	
For Elevated Installation >10' To 15', Add	20.01	
For Elevated Installation >15' To 20', Add	40.02	
For Elevated Installation >20' To 25', Add	50.02	
For Elevated Installation >25' To 30', Add	70.03	
For Elevated Installation >30' To 35', Add	80.04	
For Elevated Installation >35' To 40', Add	100.05	
For Elevated Installation >40', Add	110.05	
26 05 33 13-0688 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
(26 05 33 13-0598)		
26 05 33 13-0689 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	12.45	4.50
For Work In Restricted Working Space, Add	3.33	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.22	
For Elevated Installation >20' To 25', Add	2.78	
For Elevated Installation >25' To 30', Add	3.89	
For Elevated Installation >30' To 35', Add	4.44	
For Elevated Installation >35' To 40', Add	5.55	
For Elevated Installation >40', Add	6.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.33	
26 05 33 13-0690 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	13.18	4.50
For Work In Restricted Working Space, Add	3.33	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.22	
For Elevated Installation >20' To 25', Add	2.78	
For Elevated Installation >25' To 30', Add	3.89	
For Elevated Installation >30' To 35', Add	4.44	
For Elevated Installation >35' To 40', Add	5.55	
For Elevated Installation >40', Add	6.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.33	
26 05 33 13-0691 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	14.73	4.87
For Work In Restricted Working Space, Add	3.70	
For Elevated Installation >10' To 15', Add	1.23	
For Elevated Installation >15' To 20', Add	2.47	
For Elevated Installation >20' To 25', Add	3.09	
For Elevated Installation >25' To 30', Add	4.32	
For Elevated Installation >30' To 35', Add	4.94	
For Elevated Installation >35' To 40', Add	6.17	
For Elevated Installation >40', Add	6.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0692 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	17.11	5.62
For Work In Restricted Working Space, Add	4.21	
For Elevated Installation >10' To 15', Add	1.40	
For Elevated Installation >15' To 20', Add	2.81	
For Elevated Installation >20' To 25', Add	3.51	
For Elevated Installation >25' To 30', Add	4.91	
For Elevated Installation >30' To 35', Add	5.62	
For Elevated Installation >35' To 40', Add	7.02	
For Elevated Installation >40', Add	7.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.21	
26 05 33 13-0693 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	23.93	6.76
For Work In Restricted Working Space, Add	5.09	
For Elevated Installation >10' To 15', Add	1.70	
For Elevated Installation >15' To 20', Add	3.40	
For Elevated Installation >20' To 25', Add	4.25	
For Elevated Installation >25' To 30', Add	5.94	
For Elevated Installation >30' To 35', Add	6.79	
For Elevated Installation >35' To 40', Add	8.49	
For Elevated Installation >40', Add	9.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.09	
26 05 33 13-0694 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	29.07	7.75
For Work In Restricted Working Space, Add	5.82	
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.88	
For Elevated Installation >20' To 25', Add	4.85	
For Elevated Installation >25' To 30', Add	6.79	
For Elevated Installation >30' To 35', Add	7.76	
For Elevated Installation >35' To 40', Add	9.70	
For Elevated Installation >40', Add	10.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0695 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	37.74	9.75
<i>For Work In Restricted Working Space, Add</i>	7.28	
<i>For Elevated Installation >10' To 15', Add</i>	2.43	
<i>For Elevated Installation >15' To 20', Add</i>	4.85	
<i>For Elevated Installation >20' To 25', Add</i>	6.06	
<i>For Elevated Installation >25' To 30', Add</i>	8.49	
<i>For Elevated Installation >30' To 35', Add</i>	9.70	
<i>For Elevated Installation >35' To 40', Add</i>	12.13	
<i>For Elevated Installation >40', Add</i>	13.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.28	
26 05 33 13-0696 Electrical Metallic Tubing (EMT) Pulling Elbows <small>(26 05 33 13-0598)</small>		
26 05 33 13-0697 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	26.01	11.26
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation >15' To 20', Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-0698 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	30.32	13.13
<i>For Work In Restricted Working Space, Add</i>	7.88	
<i>For Elevated Installation >15' To 20', Add</i>	5.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.88	
26 05 33 13-0699 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	37.28	15.00
<i>For Work In Restricted Working Space, Add</i>	9.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-0700 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	47.51	18.75
<i>For Work In Restricted Working Space, Add</i>	11.25	
<i>For Elevated Installation >15' To 20', Add</i>	7.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	
26 05 33 13-0701 Intermediate Metal Conduit (IMC) <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0702 Intermediate Metal Conduit (IMC) Conduit <small>(26 05 33 13-0701)</small>		
Note: Includes field bending conduit up to 1".		
26 05 33 13-0703 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	8.77	2.50
<i>For >250 To 500, Deduct</i>	-0.11	
<i>For >500 To 1,000, Deduct</i>	-0.17	
<i>For >1,000, Deduct</i>	-0.23	
<i>For Installation In Metal Stud Wall, Add</i>	0.65	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.63	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.98	
<i>For Work In Restricted Working Space, Add</i>	1.95	
<i>For Elevated Installation >10' To 15', Add</i>	0.65	
<i>For Elevated Installation >15' To 20', Add</i>	1.30	
<i>For Elevated Installation >20' To 25', Add</i>	1.63	
<i>For Elevated Installation >25' To 30', Add</i>	2.28	
<i>For Elevated Installation >30' To 35', Add</i>	2.60	
<i>For Elevated Installation >35' To 40', Add</i>	3.25	
<i>For Elevated Installation >40', Add</i>	3.58	
26 05 33 13-0704 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	10.45	2.75
<i>For >250 To 500, Deduct</i>	-0.14	
<i>For >500 To 1,000, Deduct</i>	-0.20	
<i>For >1,000, Deduct</i>	-0.27	
<i>For Installation In Metal Stud Wall, Add</i>	0.78	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.94	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.16	
<i>For Work In Restricted Working Space, Add</i>	2.33	
<i>For Elevated Installation >10' To 15', Add</i>	0.78	
<i>For Elevated Installation >15' To 20', Add</i>	1.55	
<i>For Elevated Installation >20' To 25', Add</i>	1.94	
<i>For Elevated Installation >25' To 30', Add</i>	2.71	
<i>For Elevated Installation >30' To 35', Add</i>	3.10	
<i>For Elevated Installation >35' To 40', Add</i>	3.88	
<i>For Elevated Installation >40', Add</i>	4.26	
26 05 33 13-0705 LF 1" Intermediate Metal Conduit (IMC) Conduit	13.93	3.00
<i>For >250 To 500, Deduct</i>	-0.21	
<i>For >500 To 1,000, Deduct</i>	-0.31	
<i>For >1,000, Deduct</i>	-0.42	
<i>For Installation In Metal Stud Wall, Add</i>	0.98	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.44	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.46	
<i>For Work In Restricted Working Space, Add</i>	2.93	
<i>For Elevated Installation >10' To 15', Add</i>	0.98	
<i>For Elevated Installation >15' To 20', Add</i>	1.95	
<i>For Elevated Installation >20' To 25', Add</i>	2.44	
<i>For Elevated Installation >25' To 30', Add</i>	3.41	
<i>For Elevated Installation >30' To 35', Add</i>	3.90	
<i>For Elevated Installation >35' To 40', Add</i>	4.88	
<i>For Elevated Installation >40', Add</i>	5.36	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0706	LF	1-1/4"	Intermediate Metal Conduit (IMC) Conduit	16.04	6.00
			<i>For >250 To 500, Deduct</i>	-0.26	
			<i>For >500 To 1,000, Deduct</i>	-0.40	
			<i>For >1,000, Deduct</i>	-0.53	
			<i>For Installation In Metal Stud Wall, Add</i>	1.08	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.69	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.61	
			<i>For Work In Restricted Working Space, Add</i>	3.23	
			<i>For Elevated Installation >10' To 15', Add</i>	1.08	
			<i>For Elevated Installation >15' To 20', Add</i>	2.15	
			<i>For Elevated Installation >20' To 25', Add</i>	2.69	
			<i>For Elevated Installation >25' To 30', Add</i>	3.76	
			<i>For Elevated Installation >30' To 35', Add</i>	4.30	
			<i>For Elevated Installation >35' To 40', Add</i>	5.38	
			<i>For Elevated Installation >40', Add</i>	5.91	
26 05 33 13-0707	LF	1-1/2"	Intermediate Metal Conduit (IMC) Conduit	18.00	4.00
			<i>For >250 To 500, Deduct</i>	-0.31	
			<i>For >500 To 1,000, Deduct</i>	-0.47	
			<i>For >1,000, Deduct</i>	-0.63	
			<i>For Installation In Metal Stud Wall, Add</i>	1.18	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.94	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.76	
			<i>For Work In Restricted Working Space, Add</i>	3.53	
			<i>For Elevated Installation >10' To 15', Add</i>	1.18	
			<i>For Elevated Installation >15' To 20', Add</i>	2.35	
			<i>For Elevated Installation >20' To 25', Add</i>	2.94	
			<i>For Elevated Installation >25' To 30', Add</i>	4.11	
			<i>For Elevated Installation >30' To 35', Add</i>	4.70	
			<i>For Elevated Installation >35' To 40', Add</i>	5.88	
			<i>For Elevated Installation >40', Add</i>	6.46	
26 05 33 13-0708	LF	2"	Intermediate Metal Conduit (IMC) Conduit	22.72	4.50
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.64	
			<i>For >1,000, Deduct</i>	-0.85	
			<i>For Installation In Metal Stud Wall, Add</i>	1.43	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3.56	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.14	
			<i>For Work In Restricted Working Space, Add</i>	4.28	
			<i>For Elevated Installation >10' To 15', Add</i>	1.43	
			<i>For Elevated Installation >15' To 20', Add</i>	2.85	
			<i>For Elevated Installation >20' To 25', Add</i>	3.56	
			<i>For Elevated Installation >25' To 30', Add</i>	4.99	
			<i>For Elevated Installation >30' To 35', Add</i>	5.70	
			<i>For Elevated Installation >35' To 40', Add</i>	7.13	
			<i>For Elevated Installation >40', Add</i>	7.84	
26 05 33 13-0709	LF	2-1/2"	Intermediate Metal Conduit (IMC) Conduit	37.65	6.00
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500 To 1,000, Deduct</i>	-1.41	
			<i>For >1,000, Deduct</i>	-1.88	
			<i>For Installation In Metal Stud Wall, Add</i>	1.89	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4.72	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.83	
			<i>For Work In Restricted Working Space, Add</i>	5.66	
			<i>For Elevated Installation >10' To 15', Add</i>	1.89	
			<i>For Elevated Installation >15' To 20', Add</i>	3.77	
			<i>For Elevated Installation >20' To 25', Add</i>	4.72	
			<i>For Elevated Installation >25' To 30', Add</i>	6.60	
			<i>For Elevated Installation >30' To 35', Add</i>	7.55	
			<i>For Elevated Installation >35' To 40', Add</i>	9.44	
			<i>For Elevated Installation >40', Add</i>	10.38	
26 05 33 13-0710	LF	3"	Intermediate Metal Conduit (IMC) Conduit	48.12	7.50
			<i>For >250 To 500, Deduct</i>	-1.16	
			<i>For >500 To 1,000, Deduct</i>	-1.73	
			<i>For >1,000, Deduct</i>	-2.31	
			<i>For Installation In Metal Stud Wall, Add</i>	2.50	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	6.25	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.75	
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0711 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit.....	55.39	9.00
For >250 To 500, Deduct	-1.34	
For >500 To 1,000, Deduct	-2.01	
For >1,000, Deduct	-2.68	
For Installation In Metal Stub Wall, Add	2.86	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.16	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.29	
For Work In Restricted Working Space, Add	8.59	
For Elevated Installation >10' To 15', Add	2.86	
For Elevated Installation >15' To 20', Add	5.72	
For Elevated Installation >20' To 25', Add	7.16	
For Elevated Installation >25' To 30', Add	10.02	
For Elevated Installation >30' To 35', Add	11.45	
For Elevated Installation >35' To 40', Add	14.31	
For Elevated Installation >40', Add	15.74	
26 05 33 13-0712 LF 4" Intermediate Metal Conduit (IMC) Conduit	64.88	10.50
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.36	
For >1,000, Deduct	-3.15	
For Installation In Metal Stub Wall, Add	3.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.01	
For Work In Restricted Working Space, Add	10.01	
For Elevated Installation >10' To 15', Add	3.34	
For Elevated Installation >15' To 20', Add	6.68	
For Elevated Installation >20' To 25', Add	8.35	
For Elevated Installation >25' To 30', Add	11.68	
For Elevated Installation >30' To 35', Add	13.35	
For Elevated Installation >35' To 40', Add	16.69	
For Elevated Installation >40', Add	18.36	
26 05 33 13-0713 Intermediate Metal Conduit (IMC) 90 Degree Elbows <small>(26 05 33 13-0701)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0714 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	66.29	18.87
For Work In Restricted Working Space, Add	14.12	
For Elevated Installation >10' To 15', Add	4.71	
For Elevated Installation >15' To 20', Add	9.41	
For Elevated Installation >20' To 25', Add	11.77	
For Elevated Installation >25' To 30', Add	16.47	
For Elevated Installation >30' To 35', Add	18.83	
For Elevated Installation >35' To 40', Add	23.54	
For Elevated Installation >40', Add	25.89	
26 05 33 13-0715 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	81.60	21.88
For Work In Restricted Working Space, Add	16.40	
For Elevated Installation >10' To 15', Add	5.47	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.13	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.33	
For Elevated Installation >40', Add	30.06	
26 05 33 13-0716 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	96.81	25.13
For Work In Restricted Working Space, Add	18.82	
For Elevated Installation >10' To 15', Add	6.27	
For Elevated Installation >15' To 20', Add	12.54	
For Elevated Installation >20' To 25', Add	15.68	
For Elevated Installation >25' To 30', Add	21.95	
For Elevated Installation >30' To 35', Add	25.09	
For Elevated Installation >35' To 40', Add	31.36	
For Elevated Installation >40', Add	34.50	
26 05 33 13-0717 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	118.07	27.63
For Work In Restricted Working Space, Add	20.70	
For Elevated Installation >10' To 15', Add	6.90	
For Elevated Installation >15' To 20', Add	13.80	
For Elevated Installation >20' To 25', Add	17.25	
For Elevated Installation >25' To 30', Add	24.15	
For Elevated Installation >30' To 35', Add	27.60	
For Elevated Installation >35' To 40', Add	34.50	
For Elevated Installation >40', Add	37.95	
26 05 33 13-0718 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	169.57	34.51
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0719 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	245.05	47.01
For Work In Restricted Working Space, Add	35.25	
For Elevated Installation >10' To 15', Add	11.75	
For Elevated Installation >15' To 20', Add	23.50	
For Elevated Installation >20' To 25', Add	29.38	
For Elevated Installation >25' To 30', Add	41.13	
For Elevated Installation >30' To 35', Add	47.00	
For Elevated Installation >35' To 40', Add	58.75	
For Elevated Installation >40', Add	64.63	
26 05 33 13-0720 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	357.71	53.01
For Work In Restricted Working Space, Add	39.76	
For Elevated Installation >10' To 15', Add	13.25	
For Elevated Installation >15' To 20', Add	26.51	
For Elevated Installation >20' To 25', Add	33.13	
For Elevated Installation >25' To 30', Add	46.39	
For Elevated Installation >30' To 35', Add	53.01	
For Elevated Installation >35' To 40', Add	66.27	
For Elevated Installation >40', Add	72.89	
26 05 33 13-0721 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	433.70	69.01
For Work In Restricted Working Space, Add	51.75	
For Elevated Installation >10' To 15', Add	17.25	
For Elevated Installation >15' To 20', Add	34.50	
For Elevated Installation >20' To 25', Add	43.12	
For Elevated Installation >25' To 30', Add	60.37	
For Elevated Installation >30' To 35', Add	69.00	
For Elevated Installation >35' To 40', Add	86.25	
For Elevated Installation >40', Add	94.87	
26 05 33 13-0722 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut <small>(26 05 33 13-0701)</small>		
26 05 33 13-0723 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	17.09	6.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0724 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	20.18	0.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0725 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	26.13	9.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0726 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	31.92	11.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.63	
26 05 33 13-0727 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	35.77	12.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0728 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	46.21	15.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.63	
26 05 33 13-0729 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	85.74	25.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0730 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	105.66	34.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.50	
26 05 33 13-0731 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	138.61	40.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.38	
26 05 33 13-0732 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	163.69	47.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.25	
26 05 33 13-0733 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings <small>(26 05 33 13-0701)</small>		
Note: 3-Piece coupling.		
26 05 33 13-0734 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	56.52	20.00
For Work In Restricted Working Space, Add	15.02	
For Elevated Installation >10' To 15', Add	5.01	
For Elevated Installation >15' To 20', Add	10.01	
For Elevated Installation >20' To 25', Add	12.52	
For Elevated Installation >25' To 30', Add	17.52	
For Elevated Installation >30' To 35', Add	20.02	
For Elevated Installation >35' To 40', Add	25.03	
For Elevated Installation >40', Add	27.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	
26 05 33 13-0735 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	64.20	22.38
For Work In Restricted Working Space, Add	16.76	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.18	
For Elevated Installation >20' To 25', Add	13.97	
For Elevated Installation >25' To 30', Add	19.56	
For Elevated Installation >30' To 35', Add	22.35	
For Elevated Installation >35' To 40', Add	27.94	
For Elevated Installation >40', Add	30.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.76	
26 05 33 13-0736 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	78.29	24.88
For Work In Restricted Working Space, Add	18.67	
For Elevated Installation >10' To 15', Add	6.22	
For Elevated Installation >15' To 20', Add	12.45	
For Elevated Installation >20' To 25', Add	15.56	
For Elevated Installation >25' To 30', Add	21.78	
For Elevated Installation >30' To 35', Add	24.90	
For Elevated Installation >35' To 40', Add	31.12	
For Elevated Installation >40', Add	34.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0737 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	97.64	27.25
<i>For Work In Restricted Working Space, Add</i>	20.43	
<i>For Elevated Installation >10' To 15', Add</i>	6.81	
<i>For Elevated Installation >15' To 20', Add</i>	13.62	
<i>For Elevated Installation >20' To 25', Add</i>	17.03	
<i>For Elevated Installation >25' To 30', Add</i>	23.84	
<i>For Elevated Installation >30' To 35', Add</i>	27.24	
<i>For Elevated Installation >35' To 40', Add</i>	34.06	
<i>For Elevated Installation >40', Add</i>	37.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.43	
26 05 33 13-0738 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	111.58	29.76
<i>For Work In Restricted Working Space, Add</i>	22.36	
<i>For Elevated Installation >10' To 15', Add</i>	7.45	
<i>For Elevated Installation >15' To 20', Add</i>	14.90	
<i>For Elevated Installation >20' To 25', Add</i>	18.63	
<i>For Elevated Installation >25' To 30', Add</i>	26.08	
<i>For Elevated Installation >30' To 35', Add</i>	29.81	
<i>For Elevated Installation >35' To 40', Add</i>	37.26	
<i>For Elevated Installation >40', Add</i>	40.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.36	
26 05 33 13-0739 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	154.82	32.25
<i>For Work In Restricted Working Space, Add</i>	24.21	
<i>For Elevated Installation >10' To 15', Add</i>	8.07	
<i>For Elevated Installation >15' To 20', Add</i>	16.14	
<i>For Elevated Installation >20' To 25', Add</i>	20.18	
<i>For Elevated Installation >25' To 30', Add</i>	28.25	
<i>For Elevated Installation >30' To 35', Add</i>	32.28	
<i>For Elevated Installation >35' To 40', Add</i>	40.35	
<i>For Elevated Installation >40', Add</i>	44.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.21	
26 05 33 13-0740 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	258.56	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-0741 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	366.80	50.00
<i>For Work In Restricted Working Space, Add</i>	37.50	
<i>For Elevated Installation >10' To 15', Add</i>	12.50	
<i>For Elevated Installation >15' To 20', Add</i>	25.00	
<i>For Elevated Installation >20' To 25', Add</i>	31.25	
<i>For Elevated Installation >25' To 30', Add</i>	43.75	
<i>For Elevated Installation >30' To 35', Add</i>	50.00	
<i>For Elevated Installation >35' To 40', Add</i>	62.51	
<i>For Elevated Installation >40', Add</i>	68.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-0742 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	538.52	60.01
<i>For Work In Restricted Working Space, Add</i>	45.02	
<i>For Elevated Installation >10' To 15', Add</i>	15.01	
<i>For Elevated Installation >15' To 20', Add</i>	30.01	
<i>For Elevated Installation >20' To 25', Add</i>	37.52	
<i>For Elevated Installation >25' To 30', Add</i>	52.52	
<i>For Elevated Installation >30' To 35', Add</i>	60.03	
<i>For Elevated Installation >35' To 40', Add</i>	75.04	
<i>For Elevated Installation >40', Add</i>	82.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.02	
26 05 33 13-0743 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	622.31	65.01
<i>For Work In Restricted Working Space, Add</i>	48.75	
<i>For Elevated Installation >10' To 15', Add</i>	16.25	
<i>For Elevated Installation >15' To 20', Add</i>	32.50	
<i>For Elevated Installation >20' To 25', Add</i>	40.63	
<i>For Elevated Installation >25' To 30', Add</i>	56.88	
<i>For Elevated Installation >30' To 35', Add</i>	65.00	
<i>For Elevated Installation >35' To 40', Add</i>	81.26	
<i>For Elevated Installation >40', Add</i>	89.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.75	
26 05 33 13-0744 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0701)</small>		
26 05 33 13-0745 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	32.05	10.00
<i>For Work In Restricted Working Space, Add</i>	7.50	
<i>For Elevated Installation >10' To 15', Add</i>	2.50	
<i>For Elevated Installation >15' To 20', Add</i>	5.00	
<i>For Elevated Installation >20' To 25', Add</i>	6.25	
<i>For Elevated Installation >25' To 30', Add</i>	8.75	
<i>For Elevated Installation >30' To 35', Add</i>	10.00	
<i>For Elevated Installation >35' To 40', Add</i>	12.51	
<i>For Elevated Installation >40', Add</i>	13.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0746	EA		3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	35.82	11.00
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
26 05 33 13-0747	EA		1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	41.17	12.50
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.82	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
26 05 33 13-0748	EA		1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	46.84	13.50
			<i>For Work In Restricted Working Space, Add</i>	10.13	
			<i>For Elevated Installation >10' To 15', Add</i>	3.38	
			<i>For Elevated Installation >15' To 20', Add</i>	6.75	
			<i>For Elevated Installation >20' To 25', Add</i>	8.44	
			<i>For Elevated Installation >25' To 30', Add</i>	11.82	
			<i>For Elevated Installation >30' To 35', Add</i>	13.50	
			<i>For Elevated Installation >35' To 40', Add</i>	16.88	
			<i>For Elevated Installation >40', Add</i>	18.57	
26 05 33 13-0749	EA		2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	55.73	15.00
			<i>For Work In Restricted Working Space, Add</i>	11.25	
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
26 05 33 13-0750	EA		2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	68.21	16.50
			<i>For Work In Restricted Working Space, Add</i>	12.38	
			<i>For Elevated Installation >10' To 15', Add</i>	4.13	
			<i>For Elevated Installation >15' To 20', Add</i>	8.25	
			<i>For Elevated Installation >20' To 25', Add</i>	10.32	
			<i>For Elevated Installation >25' To 30', Add</i>	14.44	
			<i>For Elevated Installation >30' To 35', Add</i>	16.50	
			<i>For Elevated Installation >35' To 40', Add</i>	20.63	
			<i>For Elevated Installation >40', Add</i>	22.69	
26 05 33 13-0751	EA		2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	93.21	20.00
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.00	
			<i>For Elevated Installation >40', Add</i>	27.50	
26 05 33 13-0752	EA		3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	115.23	25.01
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0753	EA		3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	138.43	30.01
			<i>For Work In Restricted Working Space, Add</i>	22.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.75	
			<i>For Elevated Installation >25' To 30', Add</i>	26.25	
			<i>For Elevated Installation >30' To 35', Add</i>	30.00	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0754 EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	156.57	32.50
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
26 05 33 13-0755 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs <small>(26 05 33 13-0701)</small>		
26 05 33 13-0756 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	27.94	10.00
<i>For Work In Restricted Working Space, Add</i>	7.50	
<i>For Elevated Installation >10' To 15', Add</i>	2.50	
<i>For Elevated Installation >15' To 20', Add</i>	5.00	
<i>For Elevated Installation >20' To 25', Add</i>	6.25	
<i>For Elevated Installation >25' To 30', Add</i>	8.75	
<i>For Elevated Installation >30' To 35', Add</i>	10.00	
<i>For Elevated Installation >35' To 40', Add</i>	12.51	
<i>For Elevated Installation >40', Add</i>	13.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	
26 05 33 13-0757 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	35.65	12.50
<i>For Work In Restricted Working Space, Add</i>	9.38	
<i>For Elevated Installation >10' To 15', Add</i>	3.13	
<i>For Elevated Installation >15' To 20', Add</i>	6.25	
<i>For Elevated Installation >20' To 25', Add</i>	7.81	
<i>For Elevated Installation >25' To 30', Add</i>	10.94	
<i>For Elevated Installation >30' To 35', Add</i>	12.50	
<i>For Elevated Installation >35' To 40', Add</i>	15.63	
<i>For Elevated Installation >40', Add</i>	17.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0758 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	44.00	15.00
<i>For Work In Restricted Working Space, Add</i>	11.25	
<i>For Elevated Installation >10' To 15', Add</i>	3.75	
<i>For Elevated Installation >15' To 20', Add</i>	7.50	
<i>For Elevated Installation >20' To 25', Add</i>	9.38	
<i>For Elevated Installation >25' To 30', Add</i>	13.13	
<i>For Elevated Installation >30' To 35', Add</i>	15.00	
<i>For Elevated Installation >35' To 40', Add</i>	18.75	
<i>For Elevated Installation >40', Add</i>	20.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	
26 05 33 13-0759 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	52.96	17.50
<i>For Work In Restricted Working Space, Add</i>	13.13	
<i>For Elevated Installation >10' To 15', Add</i>	4.38	
<i>For Elevated Installation >15' To 20', Add</i>	8.75	
<i>For Elevated Installation >20' To 25', Add</i>	10.94	
<i>For Elevated Installation >25' To 30', Add</i>	15.32	
<i>For Elevated Installation >30' To 35', Add</i>	17.50	
<i>For Elevated Installation >35' To 40', Add</i>	21.88	
<i>For Elevated Installation >40', Add</i>	24.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-0760 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	61.85	20.00
<i>For Work In Restricted Working Space, Add</i>	15.00	
<i>For Elevated Installation >10' To 15', Add</i>	5.00	
<i>For Elevated Installation >15' To 20', Add</i>	10.00	
<i>For Elevated Installation >20' To 25', Add</i>	12.50	
<i>For Elevated Installation >25' To 30', Add</i>	17.50	
<i>For Elevated Installation >30' To 35', Add</i>	20.00	
<i>For Elevated Installation >35' To 40', Add</i>	25.00	
<i>For Elevated Installation >40', Add</i>	27.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.00	
26 05 33 13-0761 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	73.37	22.50
<i>For Work In Restricted Working Space, Add</i>	16.88	
<i>For Elevated Installation >10' To 15', Add</i>	5.63	
<i>For Elevated Installation >15' To 20', Add</i>	11.25	
<i>For Elevated Installation >20' To 25', Add</i>	14.06	
<i>For Elevated Installation >25' To 30', Add</i>	19.69	
<i>For Elevated Installation >30' To 35', Add</i>	22.50	
<i>For Elevated Installation >35' To 40', Add</i>	28.13	
<i>For Elevated Installation >40', Add</i>	30.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.88	
26 05 33 13-0762 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	91.21	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0763	EA		3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	107.40	27.50
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.06	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-0764	EA		3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	131.36	32.50
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0765	EA		4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	150.72	35.01
			<i>For Work In Restricted Working Space, Add</i>	26.25	
			<i>For Elevated Installation >10' To 15', Add</i>	8.75	
			<i>For Elevated Installation >15' To 20', Add</i>	17.50	
			<i>For Elevated Installation >20' To 25', Add</i>	21.88	
			<i>For Elevated Installation >25' To 30', Add</i>	30.63	
			<i>For Elevated Installation >30' To 35', Add</i>	35.00	
			<i>For Elevated Installation >35' To 40', Add</i>	43.75	
			<i>For Elevated Installation >40', Add</i>	48.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-0766			Intermediate Metal Conduit (IMC) Expansion Fittings <small>(26 05 33 13-0701)</small>		
26 05 33 13-0767	EA		1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	176.85	20.00
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.01	
			<i>For Elevated Installation >40', Add</i>	27.51	
26 05 33 13-0768	EA		3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	195.78	22.50
			<i>For Work In Restricted Working Space, Add</i>	16.88	
			<i>For Elevated Installation >10' To 15', Add</i>	5.63	
			<i>For Elevated Installation >15' To 20', Add</i>	11.25	
			<i>For Elevated Installation >20' To 25', Add</i>	14.07	
			<i>For Elevated Installation >25' To 30', Add</i>	19.69	
			<i>For Elevated Installation >30' To 35', Add</i>	22.50	
			<i>For Elevated Installation >35' To 40', Add</i>	28.13	
			<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0769	EA		1" Intermediate Metal Conduit (IMC) Expansion Fitting	217.57	25.01
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0770	EA		1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	262.19	27.50
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.07	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.82	
26 05 33 13-0771	EA		1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	320.37	30.01
			<i>For Work In Restricted Working Space, Add</i>	22.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.75	
			<i>For Elevated Installation >25' To 30', Add</i>	26.25	
			<i>For Elevated Installation >30' To 35', Add</i>	30.00	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0772	EA		2" Intermediate Metal Conduit (IMC) Expansion Fitting	419.60	32.50
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.31	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0773 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	631.47	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
26 05 33 13-0774 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting.....	759.61	50.00
<i>For Work In Restricted Working Space, Add</i>	37.50	
<i>For Elevated Installation >10' To 15', Add</i>	12.50	
<i>For Elevated Installation >15' To 20', Add</i>	25.00	
<i>For Elevated Installation >20' To 25', Add</i>	31.25	
<i>For Elevated Installation >25' To 30', Add</i>	43.75	
<i>For Elevated Installation >30' To 35', Add</i>	50.00	
<i>For Elevated Installation >35' To 40', Add</i>	62.51	
<i>For Elevated Installation >40', Add</i>	68.76	
26 05 33 13-0775 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	1,056.62	60.01
<i>For Work In Restricted Working Space, Add</i>	45.01	
<i>For Elevated Installation >10' To 15', Add</i>	15.00	
<i>For Elevated Installation >15' To 20', Add</i>	30.01	
<i>For Elevated Installation >20' To 25', Add</i>	37.51	
<i>For Elevated Installation >25' To 30', Add</i>	52.51	
<i>For Elevated Installation >30' To 35', Add</i>	60.01	
<i>For Elevated Installation >35' To 40', Add</i>	75.02	
<i>For Elevated Installation >40', Add</i>	82.52	
26 05 33 13-0776 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting.....	1,221.00	65.01
<i>For Work In Restricted Working Space, Add</i>	48.75	
<i>For Elevated Installation >10' To 15', Add</i>	16.25	
<i>For Elevated Installation >15' To 20', Add</i>	32.50	
<i>For Elevated Installation >20' To 25', Add</i>	40.63	
<i>For Elevated Installation >25' To 30', Add</i>	56.88	
<i>For Elevated Installation >30' To 35', Add</i>	65.00	
<i>For Elevated Installation >35' To 40', Add</i>	81.26	
<i>For Elevated Installation >40', Add</i>	89.38	
26 05 33 13-0777 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0771)</small>		
26 05 33 13-0778 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	111.32	31.25
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0779 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	132.33	37.50
<i>For Work In Restricted Working Space, Add</i>	22.50	
<i>For Elevated Installation >10' To 15', Add</i>	7.50	
<i>For Elevated Installation >15' To 20', Add</i>	15.00	
<i>For Elevated Installation >20' To 25', Add</i>	18.75	
<i>For Elevated Installation >25' To 30', Add</i>	26.25	
<i>For Elevated Installation >30' To 35', Add</i>	30.00	
<i>For Elevated Installation >35' To 40', Add</i>	37.51	
<i>For Elevated Installation >40', Add</i>	41.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.50	
26 05 33 13-0780 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	161.18	43.76
<i>For Work In Restricted Working Space, Add</i>	26.25	
<i>For Elevated Installation >10' To 15', Add</i>	8.75	
<i>For Elevated Installation >15' To 20', Add</i>	17.50	
<i>For Elevated Installation >20' To 25', Add</i>	21.88	
<i>For Elevated Installation >25' To 30', Add</i>	30.63	
<i>For Elevated Installation >30' To 35', Add</i>	35.00	
<i>For Elevated Installation >35' To 40', Add</i>	43.76	
<i>For Elevated Installation >40', Add</i>	48.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-0781 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	189.47	50.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0782	EA		1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	247.20	56.26
			<i>For Work In Restricted Working Space, Add</i>	33.75	
			<i>For Elevated Installation >10' To 15', Add</i>	11.25	
			<i>For Elevated Installation >15' To 20', Add</i>	22.50	
			<i>For Elevated Installation >20' To 25', Add</i>	28.13	
			<i>For Elevated Installation >25' To 30', Add</i>	39.38	
			<i>For Elevated Installation >30' To 35', Add</i>	45.00	
			<i>For Elevated Installation >35' To 40', Add</i>	56.26	
			<i>For Elevated Installation >40', Add</i>	61.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.75	
26 05 33 13-0783	EA		2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	299.52	62.51
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Elevated Installation >10' To 15', Add</i>	12.50	
			<i>For Elevated Installation >15' To 20', Add</i>	25.00	
			<i>For Elevated Installation >20' To 25', Add</i>	31.25	
			<i>For Elevated Installation >25' To 30', Add</i>	43.75	
			<i>For Elevated Installation >30' To 35', Add</i>	50.00	
			<i>For Elevated Installation >35' To 40', Add</i>	62.51	
			<i>For Elevated Installation >40', Add</i>	68.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-0784	EA		2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	421.15	75.01
			<i>For Work In Restricted Working Space, Add</i>	45.01	
			<i>For Elevated Installation >10' To 15', Add</i>	15.00	
			<i>For Elevated Installation >15' To 20', Add</i>	30.00	
			<i>For Elevated Installation >20' To 25', Add</i>	37.51	
			<i>For Elevated Installation >25' To 30', Add</i>	52.51	
			<i>For Elevated Installation >30' To 35', Add</i>	60.01	
			<i>For Elevated Installation >35' To 40', Add</i>	75.01	
			<i>For Elevated Installation >40', Add</i>	82.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.01	
26 05 33 13-0785	EA		3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	506.22	87.51
			<i>For Work In Restricted Working Space, Add</i>	52.51	
			<i>For Elevated Installation >10' To 15', Add</i>	17.50	
			<i>For Elevated Installation >15' To 20', Add</i>	35.00	
			<i>For Elevated Installation >20' To 25', Add</i>	43.76	
			<i>For Elevated Installation >25' To 30', Add</i>	61.26	
			<i>For Elevated Installation >30' To 35', Add</i>	70.01	
			<i>For Elevated Installation >35' To 40', Add</i>	87.51	
			<i>For Elevated Installation >40', Add</i>	96.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.51	
26 05 33 13-0786	EA		3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,155.23	100.01
			<i>For Work In Restricted Working Space, Add</i>	60.01	
			<i>For Elevated Installation >10' To 15', Add</i>	20.00	
			<i>For Elevated Installation >15' To 20', Add</i>	40.00	
			<i>For Elevated Installation >20' To 25', Add</i>	50.01	
			<i>For Elevated Installation >25' To 30', Add</i>	70.01	
			<i>For Elevated Installation >30' To 35', Add</i>	80.01	
			<i>For Elevated Installation >35' To 40', Add</i>	100.01	
			<i>For Elevated Installation >40', Add</i>	110.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.01	
26 05 33 13-0787	EA		4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,330.54	112.51
			<i>For Work In Restricted Working Space, Add</i>	67.51	
			<i>For Elevated Installation >10' To 15', Add</i>	22.50	
			<i>For Elevated Installation >15' To 20', Add</i>	45.01	
			<i>For Elevated Installation >20' To 25', Add</i>	56.26	
			<i>For Elevated Installation >25' To 30', Add</i>	78.76	
			<i>For Elevated Installation >30' To 35', Add</i>	90.01	
			<i>For Elevated Installation >35' To 40', Add</i>	112.52	
			<i>For Elevated Installation >40', Add</i>	123.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33 13-0788			Intermediate Metal Conduit (IMC) Threaded Couplings <small>(26 05 33 13-0701)</small>		
26 05 33 13-0789	EA		1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	16.66	6.00
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Elevated Installation >10' To 15', Add</i>	1.50	
			<i>For Elevated Installation >15' To 20', Add</i>	3.00	
			<i>For Elevated Installation >20' To 25', Add</i>	3.75	
			<i>For Elevated Installation >25' To 30', Add</i>	5.25	
			<i>For Elevated Installation >30' To 35', Add</i>	6.00	
			<i>For Elevated Installation >35' To 40', Add</i>	7.50	
			<i>For Elevated Installation >40', Add</i>	8.24	
26 05 33 13-0790	EA		3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	23.28	8.50
			<i>For Work In Restricted Working Space, Add</i>	6.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.13	
			<i>For Elevated Installation >15' To 20', Add</i>	4.25	
			<i>For Elevated Installation >20' To 25', Add</i>	5.32	
			<i>For Elevated Installation >25' To 30', Add</i>	7.44	
			<i>For Elevated Installation >30' To 35', Add</i>	8.50	
			<i>For Elevated Installation >35' To 40', Add</i>	10.63	
			<i>For Elevated Installation >40', Add</i>	11.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0791 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling	30.49	11.00
<i>For Work In Restricted Working Space, Add</i>	8.24	
<i>For Elevated Installation >10' To 15', Add</i>	2.75	
<i>For Elevated Installation >15' To 20', Add</i>	5.50	
<i>For Elevated Installation >20' To 25', Add</i>	6.87	
<i>For Elevated Installation >25' To 30', Add</i>	9.62	
<i>For Elevated Installation >30' To 35', Add</i>	10.99	
<i>For Elevated Installation >35' To 40', Add</i>	13.74	
<i>For Elevated Installation >40', Add</i>	15.11	
26 05 33 13-0792 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	35.03	12.50
<i>For Work In Restricted Working Space, Add</i>	9.38	
<i>For Elevated Installation >10' To 15', Add</i>	3.13	
<i>For Elevated Installation >15' To 20', Add</i>	6.25	
<i>For Elevated Installation >20' To 25', Add</i>	7.82	
<i>For Elevated Installation >25' To 30', Add</i>	10.94	
<i>For Elevated Installation >30' To 35', Add</i>	12.50	
<i>For Elevated Installation >35' To 40', Add</i>	15.63	
<i>For Elevated Installation >40', Add</i>	17.19	
26 05 33 13-0793 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	42.24	15.00
<i>For Work In Restricted Working Space, Add</i>	11.24	
<i>For Elevated Installation >10' To 15', Add</i>	3.75	
<i>For Elevated Installation >15' To 20', Add</i>	7.50	
<i>For Elevated Installation >20' To 25', Add</i>	9.37	
<i>For Elevated Installation >25' To 30', Add</i>	13.12	
<i>For Elevated Installation >30' To 35', Add</i>	14.99	
<i>For Elevated Installation >35' To 40', Add</i>	18.74	
<i>For Elevated Installation >40', Add</i>	20.61	
26 05 33 13-0794 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	48.78	17.00
<i>For Work In Restricted Working Space, Add</i>	12.76	
<i>For Elevated Installation >10' To 15', Add</i>	4.25	
<i>For Elevated Installation >15' To 20', Add</i>	8.50	
<i>For Elevated Installation >20' To 25', Add</i>	10.63	
<i>For Elevated Installation >25' To 30', Add</i>	14.88	
<i>For Elevated Installation >30' To 35', Add</i>	17.01	
<i>For Elevated Installation >35' To 40', Add</i>	21.26	
<i>For Elevated Installation >40', Add</i>	23.39	
26 05 33 13-0795 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	61.37	19.00
<i>For Work In Restricted Working Space, Add</i>	14.25	
<i>For Elevated Installation >10' To 15', Add</i>	4.75	
<i>For Elevated Installation >15' To 20', Add</i>	9.50	
<i>For Elevated Installation >20' To 25', Add</i>	11.88	
<i>For Elevated Installation >25' To 30', Add</i>	16.63	
<i>For Elevated Installation >30' To 35', Add</i>	19.00	
<i>For Elevated Installation >35' To 40', Add</i>	23.75	
<i>For Elevated Installation >40', Add</i>	26.13	
26 05 33 13-0796 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	72.71	21.50
<i>For Work In Restricted Working Space, Add</i>	16.13	
<i>For Elevated Installation >10' To 15', Add</i>	5.38	
<i>For Elevated Installation >15' To 20', Add</i>	10.75	
<i>For Elevated Installation >20' To 25', Add</i>	13.44	
<i>For Elevated Installation >25' To 30', Add</i>	18.82	
<i>For Elevated Installation >30' To 35', Add</i>	21.50	
<i>For Elevated Installation >35' To 40', Add</i>	26.88	
<i>For Elevated Installation >40', Add</i>	29.57	
26 05 33 13-0797 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	84.10	23.50
<i>For Work In Restricted Working Space, Add</i>	17.63	
<i>For Elevated Installation >10' To 15', Add</i>	5.88	
<i>For Elevated Installation >15' To 20', Add</i>	11.75	
<i>For Elevated Installation >20' To 25', Add</i>	14.69	
<i>For Elevated Installation >25' To 30', Add</i>	20.57	
<i>For Elevated Installation >30' To 35', Add</i>	23.51	
<i>For Elevated Installation >35' To 40', Add</i>	29.39	
<i>For Elevated Installation >40', Add</i>	32.32	
26 05 33 13-0798 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	88.02	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.62	
<i>For Elevated Installation >25' To 30', Add</i>	21.87	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.25	
<i>For Elevated Installation >40', Add</i>	34.37	
26 05 33 13-0799 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0791)		
26 05 33 13-0800 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	8.11	2.50
<i>For Work In Restricted Working Space, Add</i>	1.88	
<i>For Elevated Installation >10' To 15', Add</i>	0.63	
<i>For Elevated Installation >15' To 20', Add</i>	1.25	
<i>For Elevated Installation >20' To 25', Add</i>	1.56	
<i>For Elevated Installation >25' To 30', Add</i>	2.19	
<i>For Elevated Installation >30' To 35', Add</i>	2.50	
<i>For Elevated Installation >35' To 40', Add</i>	3.13	
<i>For Elevated Installation >40', Add</i>	3.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0801	EA		3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	9.18	2.50
			<i>For Work In Restricted Working Space, Add</i>	1.88	
			<i>For Elevated Installation >10' To 15', Add</i>	0.63	
			<i>For Elevated Installation >15' To 20', Add</i>	1.25	
			<i>For Elevated Installation >20' To 25', Add</i>	1.56	
			<i>For Elevated Installation >25' To 30', Add</i>	2.19	
			<i>For Elevated Installation >30' To 35', Add</i>	2.50	
			<i>For Elevated Installation >35' To 40', Add</i>	3.13	
			<i>For Elevated Installation >40', Add</i>	3.44	
26 05 33 13-0802			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0058)</small>		
			Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0803			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0802)</small>		
			Note: Includes field bending for conduit up to 1".		
26 05 33 13-0804	LF		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	14.38	3.50
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.86	
			<i>For >1,000, Deduct</i>	-1.22	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.75	
			<i>For Elevated Installation >20' To 25', Add</i>	2.19	
			<i>For Elevated Installation >25' To 30', Add</i>	3.06	
			<i>For Elevated Installation >30' To 35', Add</i>	3.50	
			<i>For Elevated Installation >35' To 40', Add</i>	4.38	
			<i>For Elevated Installation >40', Add</i>	4.81	
			<i>For Work In Restricted Working Space, Add</i>	2.63	
26 05 33 13-0805	LF		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	16.53	4.00
			<i>For >250 To 500, Deduct</i>	-0.58	
			<i>For >500 To 1,000, Deduct</i>	-0.99	
			<i>For >1,000, Deduct</i>	-1.40	
			<i>For Elevated Installation >10' To 15', Add</i>	1.00	
			<i>For Elevated Installation >15' To 20', Add</i>	2.00	
			<i>For Elevated Installation >20' To 25', Add</i>	2.50	
			<i>For Elevated Installation >25' To 30', Add</i>	3.50	
			<i>For Elevated Installation >30' To 35', Add</i>	4.00	
			<i>For Elevated Installation >35' To 40', Add</i>	5.00	
			<i>For Elevated Installation >40', Add</i>	5.50	
			<i>For Work In Restricted Working Space, Add</i>	3.00	
26 05 33 13-0806	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	20.95	5.00
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500 To 1,000, Deduct</i>	-1.26	
			<i>For >1,000, Deduct</i>	-1.78	
			<i>For Elevated Installation >10' To 15', Add</i>	1.25	
			<i>For Elevated Installation >15' To 20', Add</i>	2.50	
			<i>For Elevated Installation >20' To 25', Add</i>	3.13	
			<i>For Elevated Installation >25' To 30', Add</i>	4.38	
			<i>For Elevated Installation >30' To 35', Add</i>	5.00	
			<i>For Elevated Installation >35' To 40', Add</i>	6.25	
			<i>For Elevated Installation >40', Add</i>	6.88	
			<i>For Work In Restricted Working Space, Add</i>	3.75	
26 05 33 13-0807	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	25.71	6.00
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.55	
			<i>For >1,000, Deduct</i>	-2.20	
			<i>For Elevated Installation >10' To 15', Add</i>	1.50	
			<i>For Elevated Installation >15' To 20', Add</i>	3.00	
			<i>For Elevated Installation >20' To 25', Add</i>	3.75	
			<i>For Elevated Installation >25' To 30', Add</i>	5.25	
			<i>For Elevated Installation >30' To 35', Add</i>	6.00	
			<i>For Elevated Installation >35' To 40', Add</i>	7.50	
			<i>For Elevated Installation >40', Add</i>	8.25	
			<i>For Work In Restricted Working Space, Add</i>	4.50	
26 05 33 13-0808	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	31.78	7.50
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-1.91	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Work In Restricted Working Space, Add</i>	5.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0809 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	39.48	9.00
For >250 To 500, Deduct	-1.41	
For >500 To 1,000, Deduct	-2.40	
For >1,000, Deduct	-3.39	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Work In Restricted Working Space, Add	6.75	
26 05 33 13-0810 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	51.99	10.50
For >250 To 500, Deduct	-1.94	
For >500 To 1,000, Deduct	-3.24	
For >1,000, Deduct	-4.54	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.56	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
For Work In Restricted Working Space, Add	7.88	
26 05 33 13-0811 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	64.96	13.00
For >250 To 500, Deduct	-2.44	
For >500 To 1,000, Deduct	-4.06	
For >1,000, Deduct	-5.68	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.50	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.38	
For Elevated Installation >30' To 35', Add	13.00	
For Elevated Installation >35' To 40', Add	16.25	
For Elevated Installation >40', Add	17.88	
For Work In Restricted Working Space, Add	9.75	
26 05 33 13-0812 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	79.71	16.01
For >250 To 500, Deduct	-2.99	
For >500 To 1,000, Deduct	-4.98	
For >1,000, Deduct	-6.97	
For Elevated Installation >10' To 15', Add	4.00	
For Elevated Installation >15' To 20', Add	8.00	
For Elevated Installation >20' To 25', Add	10.00	
For Elevated Installation >25' To 30', Add	14.00	
For Elevated Installation >30' To 35', Add	16.00	
For Elevated Installation >35' To 40', Add	20.00	
For Elevated Installation >40', Add	22.00	
For Work In Restricted Working Space, Add	12.00	
26 05 33 13-0813 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	94.32	19.00
For >250 To 500, Deduct	-3.53	
For >500 To 1,000, Deduct	-5.89	
For >1,000, Deduct	-8.24	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
For Work In Restricted Working Space, Add	14.25	
26 05 33 13-0814 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	139.21	22.50
For >250 To 500, Deduct	-5.55	
For >500 To 1,000, Deduct	-9.03	
For >1,000, Deduct	-12.51	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Work In Restricted Working Space, Add	16.88	
26 05 33 13-0815 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	188.68	30.01
For >250 To 500, Deduct	-7.56	
For >500 To 1,000, Deduct	-12.28	
For >1,000, Deduct	-16.99	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Work In Restricted Working Space, Add	22.50	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 33 13-0816			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings <small>(26 05 33 13-0802)</small>		
26 05 33 13-0817	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	20.95	7.50
			<i>For Elevated Installation >10' To 15', Add</i>	1.50	
			<i>For Elevated Installation >15' To 20', Add</i>	3.00	
			<i>For Elevated Installation >20' To 25', Add</i>	3.75	
			<i>For Elevated Installation >25' To 30', Add</i>	5.25	
			<i>For Elevated Installation >30' To 35', Add</i>	6.00	
			<i>For Elevated Installation >35' To 40', Add</i>	7.50	
			<i>For Elevated Installation >40', Add</i>	8.25	
			<i>For Work In Restricted Working Space, Add</i>	4.50	
26 05 33 13-0818	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	27.49	10.62
			<i>For Elevated Installation >10' To 15', Add</i>	2.13	
			<i>For Elevated Installation >15' To 20', Add</i>	4.25	
			<i>For Elevated Installation >20' To 25', Add</i>	5.31	
			<i>For Elevated Installation >25' To 30', Add</i>	7.44	
			<i>For Elevated Installation >30' To 35', Add</i>	8.50	
			<i>For Elevated Installation >35' To 40', Add</i>	10.63	
			<i>For Elevated Installation >40', Add</i>	11.69	
			<i>For Work In Restricted Working Space, Add</i>	6.38	
26 05 33 13-0819	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	35.59	13.75
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Work In Restricted Working Space, Add</i>	8.25	
26 05 33 13-0820	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	40.69	15.63
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Work In Restricted Working Space, Add</i>	9.38	
26 05 33 13-0821	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	48.72	18.75
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
			<i>For Work In Restricted Working Space, Add</i>	11.25	
26 05 33 13-0822	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	58.93	21.25
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Work In Restricted Working Space, Add</i>	12.75	
26 05 33 13-0823	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	88.15	21.25
			<i>For Elevated Installation >10' To 15', Add</i>	4.75	
			<i>For Elevated Installation >15' To 20', Add</i>	9.50	
			<i>For Elevated Installation >20' To 25', Add</i>	11.88	
			<i>For Elevated Installation >25' To 30', Add</i>	16.63	
			<i>For Elevated Installation >30' To 35', Add</i>	19.00	
			<i>For Elevated Installation >35' To 40', Add</i>	23.76	
			<i>For Elevated Installation >40', Add</i>	26.13	
			<i>For Work In Restricted Working Space, Add</i>	14.25	
26 05 33 13-0824	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	103.12	29.38
			<i>For Elevated Installation >10' To 15', Add</i>	5.38	
			<i>For Elevated Installation >15' To 20', Add</i>	10.75	
			<i>For Elevated Installation >20' To 25', Add</i>	13.44	
			<i>For Elevated Installation >25' To 30', Add</i>	18.82	
			<i>For Elevated Installation >30' To 35', Add</i>	21.50	
			<i>For Elevated Installation >35' To 40', Add</i>	26.88	
			<i>For Elevated Installation >40', Add</i>	29.57	
			<i>For Work In Restricted Working Space, Add</i>	16.13	
26 05 33 13-0825	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	122.09	29.38
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.57	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.32	
			<i>For Work In Restricted Working Space, Add</i>	17.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0826 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	136.55	31.25
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0827 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	316.28	37.50
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Work In Restricted Working Space, Add	22.50	
26 05 33 13-0828 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	357.02	43.76
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Work In Restricted Working Space, Add	26.25	
26 05 33 13-0829 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows <small>(26 05 33 13-0802)</small>		
<small>Note: 90, 45, or 30 degree.</small>		
26 05 33 13-0830 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	61.48	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
26 05 33 13-0831 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	72.03	25.19
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.63	
For Elevated Installation >30' To 35', Add	20.15	
For Elevated Installation >35' To 40', Add	25.19	
For Elevated Installation >40', Add	27.71	
For Work In Restricted Working Space, Add	15.11	
26 05 33 13-0832 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	86.58	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0833 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	102.02	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0834 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	118.75	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0835 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	141.71	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0836 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	210.72	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0837 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	310.29	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0838 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	378.96	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-0839 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	442.76	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-0840 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	892.19	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-0841 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,395.66	274.66
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
For Work In Restricted Working Space, Add	164.80	
26 05 33 13-0842 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0842)</small>		
26 05 33 13-0843 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	135.73	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0844 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	153.33	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0845 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	174.93	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0846 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	206.53	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0847 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	284.08	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0848 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0849 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	149.02	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0850 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	175.29	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-0851 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	190.67	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0852 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	240.87	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0853 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	317.19	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0854 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	408.48	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	

26 05 33 13-0855 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0802)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0856 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	164.91	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0857 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	186.73	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0858 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	210.87	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0859 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	252.26	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0860 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	355.24	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0861 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	453.15	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0862 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	566.03	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-0863 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	646.56	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	

26 05 33 13-0864 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0862)

26 05 33 13-0865 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	192.36	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0866 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	213.57	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0867 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	241.36	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0868 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	296.15	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0869 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	423.33	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0870 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	528.83	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0871 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	612.23	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-0872 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	731.39	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-0873 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0874 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	213.72	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0875 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	238.57	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0876	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	271.36	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0877	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	334.36	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0878	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	460.48	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0879	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	589.36	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.55	
			<i>For Elevated Installation >20' To 25', Add</i>	38.19	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.02	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-0880	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	724.58	86.13
			<i>For Elevated Installation >10' To 15', Add</i>	17.23	
			<i>For Elevated Installation >15' To 20', Add</i>	34.45	
			<i>For Elevated Installation >20' To 25', Add</i>	43.07	
			<i>For Elevated Installation >25' To 30', Add</i>	60.29	
			<i>For Elevated Installation >30' To 35', Add</i>	68.91	
			<i>For Elevated Installation >35' To 40', Add</i>	86.14	
			<i>For Elevated Installation >40', Add</i>	94.75	
			<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0881	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	809.26	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.71	
			<i>For Elevated Installation >35' To 40', Add</i>	112.14	
			<i>For Elevated Installation >40', Add</i>	123.35	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0882	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	1,346.80	182.83
			<i>For Elevated Installation >10' To 15', Add</i>	36.57	
			<i>For Elevated Installation >15' To 20', Add</i>	73.13	
			<i>For Elevated Installation >20' To 25', Add</i>	91.42	
			<i>For Elevated Installation >25' To 30', Add</i>	127.98	
			<i>For Elevated Installation >30' To 35', Add</i>	146.27	
			<i>For Elevated Installation >35' To 40', Add</i>	182.84	
			<i>For Elevated Installation >40', Add</i>	201.12	
			<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-0883			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0884	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	241.65	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0885	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	268.76	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0886	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	304.25	40.63
		<i>For Elevated Installation >10' To 15', Add</i>	8.13	
		<i>For Elevated Installation >15' To 20', Add</i>	16.25	
		<i>For Elevated Installation >20' To 25', Add</i>	20.32	
		<i>For Elevated Installation >25' To 30', Add</i>	28.44	
		<i>For Elevated Installation >30' To 35', Add</i>	32.50	
		<i>For Elevated Installation >35' To 40', Add</i>	40.63	
		<i>For Elevated Installation >40', Add</i>	44.69	
		<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0887	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	376.74	44.69
		<i>For Elevated Installation >10' To 15', Add</i>	8.94	
		<i>For Elevated Installation >15' To 20', Add</i>	17.88	
		<i>For Elevated Installation >20' To 25', Add</i>	22.35	
		<i>For Elevated Installation >25' To 30', Add</i>	31.29	
		<i>For Elevated Installation >30' To 35', Add</i>	35.76	
		<i>For Elevated Installation >35' To 40', Add</i>	44.70	
		<i>For Elevated Installation >40', Add</i>	49.16	
		<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0888	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	522.39	56.07
		<i>For Elevated Installation >10' To 15', Add</i>	11.21	
		<i>For Elevated Installation >15' To 20', Add</i>	22.43	
		<i>For Elevated Installation >20' To 25', Add</i>	28.04	
		<i>For Elevated Installation >25' To 30', Add</i>	39.25	
		<i>For Elevated Installation >30' To 35', Add</i>	44.86	
		<i>For Elevated Installation >35' To 40', Add</i>	56.07	
		<i>For Elevated Installation >40', Add</i>	61.68	
		<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0889	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	666.49	76.38
		<i>For Elevated Installation >10' To 15', Add</i>	15.28	
		<i>For Elevated Installation >15' To 20', Add</i>	30.55	
		<i>For Elevated Installation >20' To 25', Add</i>	38.19	
		<i>For Elevated Installation >25' To 30', Add</i>	53.47	
		<i>For Elevated Installation >30' To 35', Add</i>	61.11	
		<i>For Elevated Installation >35' To 40', Add</i>	76.39	
		<i>For Elevated Installation >40', Add</i>	84.02	
		<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-0890	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	780.88	86.13
		<i>For Elevated Installation >10' To 15', Add</i>	17.23	
		<i>For Elevated Installation >15' To 20', Add</i>	34.45	
		<i>For Elevated Installation >20' To 25', Add</i>	43.07	
		<i>For Elevated Installation >25' To 30', Add</i>	60.29	
		<i>For Elevated Installation >30' To 35', Add</i>	68.91	
		<i>For Elevated Installation >35' To 40', Add</i>	86.14	
		<i>For Elevated Installation >40', Add</i>	94.75	
		<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0891	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	909.79	112.14
		<i>For Elevated Installation >10' To 15', Add</i>	22.43	
		<i>For Elevated Installation >15' To 20', Add</i>	44.85	
		<i>For Elevated Installation >20' To 25', Add</i>	56.07	
		<i>For Elevated Installation >25' To 30', Add</i>	78.49	
		<i>For Elevated Installation >30' To 35', Add</i>	89.71	
		<i>For Elevated Installation >35' To 40', Add</i>	112.14	
		<i>For Elevated Installation >40', Add</i>	123.35	
		<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0892	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,417.25	182.83
		<i>For Elevated Installation >10' To 15', Add</i>	36.57	
		<i>For Elevated Installation >15' To 20', Add</i>	73.13	
		<i>For Elevated Installation >20' To 25', Add</i>	91.42	
		<i>For Elevated Installation >25' To 30', Add</i>	127.98	
		<i>For Elevated Installation >30' To 35', Add</i>	146.27	
		<i>For Elevated Installation >35' To 40', Add</i>	182.84	
		<i>For Elevated Installation >40', Add</i>	201.12	
		<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-0893	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,952.35	274.66
		<i>For Elevated Installation >10' To 15', Add</i>	54.93	
		<i>For Elevated Installation >15' To 20', Add</i>	109.86	
		<i>For Elevated Installation >20' To 25', Add</i>	137.33	
		<i>For Elevated Installation >25' To 30', Add</i>	192.26	
		<i>For Elevated Installation >30' To 35', Add</i>	219.73	
		<i>For Elevated Installation >35' To 40', Add</i>	274.66	
		<i>For Elevated Installation >40', Add</i>	302.13	
		<i>For Work In Restricted Working Space, Add</i>	164.80	
26 05 33 13-0894		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0895	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	280.54	30.88
		<i>For Elevated Installation >10' To 15', Add</i>	6.18	
		<i>For Elevated Installation >15' To 20', Add</i>	12.35	
		<i>For Elevated Installation >20' To 25', Add</i>	15.44	
		<i>For Elevated Installation >25' To 30', Add</i>	21.62	
		<i>For Elevated Installation >30' To 35', Add</i>	24.70	
		<i>For Elevated Installation >35' To 40', Add</i>	30.88	
		<i>For Elevated Installation >40', Add</i>	33.97	
		<i>For Work In Restricted Working Space, Add</i>	18.53	

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0896	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	295.68	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-0897	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	348.27	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0898	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	435.74	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0899	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	605.87	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0900	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	770.46	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.55	
			<i>For Elevated Installation >20' To 25', Add</i>	38.19	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.02	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-0901	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	937.39	86.13
			<i>For Elevated Installation >10' To 15', Add</i>	17.23	
			<i>For Elevated Installation >15' To 20', Add</i>	34.45	
			<i>For Elevated Installation >20' To 25', Add</i>	43.07	
			<i>For Elevated Installation >25' To 30', Add</i>	60.29	
			<i>For Elevated Installation >30' To 35', Add</i>	68.91	
			<i>For Elevated Installation >35' To 40', Add</i>	86.14	
			<i>For Elevated Installation >40', Add</i>	94.75	
			<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0902	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,105.35	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.71	
			<i>For Elevated Installation >35' To 40', Add</i>	112.14	
			<i>For Elevated Installation >40', Add</i>	123.35	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0903	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,647.06	182.83
			<i>For Elevated Installation >10' To 15', Add</i>	36.57	
			<i>For Elevated Installation >15' To 20', Add</i>	73.13	
			<i>For Elevated Installation >20' To 25', Add</i>	91.42	
			<i>For Elevated Installation >25' To 30', Add</i>	127.98	
			<i>For Elevated Installation >30' To 35', Add</i>	146.27	
			<i>For Elevated Installation >35' To 40', Add</i>	182.84	
			<i>For Elevated Installation >40', Add</i>	201.12	
			<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-0904	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	2,057.84	274.66
			<i>For Elevated Installation >10' To 15', Add</i>	54.93	
			<i>For Elevated Installation >15' To 20', Add</i>	109.86	
			<i>For Elevated Installation >20' To 25', Add</i>	137.33	
			<i>For Elevated Installation >25' To 30', Add</i>	192.26	
			<i>For Elevated Installation >30' To 35', Add</i>	219.73	
			<i>For Elevated Installation >35' To 40', Add</i>	274.66	
			<i>For Elevated Installation >40', Add</i>	302.13	
			<i>For Work In Restricted Working Space, Add</i>	164.80	

26 05 33 13-0905 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0802)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0906 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	289.90	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0907 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	341.21	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-0908 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	386.33	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0909 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	453.48	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0910 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	626.72	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0911 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	802.43	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-0912 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,022.63	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0913 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,149.70	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0914 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,708.79	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0915	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	2,111.44	274.66
			<i>For Elevated Installation >10' To 15', Add</i>	54.93	
			<i>For Elevated Installation >15' To 20', Add</i>	109.86	
			<i>For Elevated Installation >20' To 25', Add</i>	137.33	
			<i>For Elevated Installation >25' To 30', Add</i>	192.26	
			<i>For Elevated Installation >30' To 35', Add</i>	219.73	
			<i>For Elevated Installation >35' To 40', Add</i>	274.66	
			<i>For Elevated Installation >40', Add</i>	302.13	
			<i>For Work In Restricted Working Space, Add</i>	164.80	
26 05 33 13-0916			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fittings <small>(26 05 33 13-0902)</small>		
26 05 33 13-0917	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	110.75	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-0918	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	136.32	26.82
			<i>For Elevated Installation >10' To 15', Add</i>	5.36	
			<i>For Elevated Installation >15' To 20', Add</i>	10.73	
			<i>For Elevated Installation >20' To 25', Add</i>	13.41	
			<i>For Elevated Installation >25' To 30', Add</i>	18.77	
			<i>For Elevated Installation >30' To 35', Add</i>	21.45	
			<i>For Elevated Installation >35' To 40', Add</i>	26.82	
			<i>For Elevated Installation >40', Add</i>	29.50	
			<i>For Work In Restricted Working Space, Add</i>	16.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.09	
26 05 33 13-0919	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	179.84	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0920	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	289.54	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0921	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	320.14	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0922	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	401.92	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.28	
			<i>For Elevated Installation >30' To 35', Add</i>	35.75	
			<i>For Elevated Installation >35' To 40', Add</i>	44.69	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0923	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,069.52	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0924 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,280.21	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.56	
For Elevated Installation >20' To 25', Add	38.20	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.03	
For Work In Restricted Working Space, Add	45.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.83	
26 05 33 13-0925 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,705.14	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.70	
For Elevated Installation >35' To 40', Add	112.13	
For Elevated Installation >40', Add	123.34	
For Work In Restricted Working Space, Add	67.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.28	
26 05 33 13-0926 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fittings		
(26 05 33 13-0802)		
26 05 33 13-0927 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	106.48	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0928 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	131.50	26.82
For Elevated Installation >10' To 15', Add	5.36	
For Elevated Installation >15' To 20', Add	10.73	
For Elevated Installation >20' To 25', Add	13.41	
For Elevated Installation >25' To 30', Add	18.77	
For Elevated Installation >30' To 35', Add	21.45	
For Elevated Installation >35' To 40', Add	26.82	
For Elevated Installation >40', Add	29.50	
For Work In Restricted Working Space, Add	16.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.09	
26 05 33 13-0929 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	179.84	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-0930 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	287.06	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.45	
26 05 33 13-0931 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	310.15	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-0932 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	402.04	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.28	
For Elevated Installation >30' To 35', Add	35.75	
For Elevated Installation >35' To 40', Add	44.69	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.81	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-0933	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting		1,026.87	56.07
		<i>For Elevated Installation >10' To 15', Add</i>		11.21	
		<i>For Elevated Installation >15' To 20', Add</i>		22.43	
		<i>For Elevated Installation >20' To 25', Add</i>		28.03	
		<i>For Elevated Installation >25' To 30', Add</i>		39.25	
		<i>For Elevated Installation >30' To 35', Add</i>		44.85	
		<i>For Elevated Installation >35' To 40', Add</i>		56.07	
		<i>For Elevated Installation >40', Add</i>		61.67	
		<i>For Work In Restricted Working Space, Add</i>		33.64	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		33.64	
26 05 33 13-0934	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting		1,249.10	76.38
		<i>For Elevated Installation >10' To 15', Add</i>		15.28	
		<i>For Elevated Installation >15' To 20', Add</i>		30.56	
		<i>For Elevated Installation >20' To 25', Add</i>		38.20	
		<i>For Elevated Installation >25' To 30', Add</i>		53.47	
		<i>For Elevated Installation >30' To 35', Add</i>		61.11	
		<i>For Elevated Installation >35' To 40', Add</i>		76.39	
		<i>For Elevated Installation >40', Add</i>		84.03	
		<i>For Work In Restricted Working Space, Add</i>		45.83	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		45.83	
26 05 33 13-0935	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting		1,705.06	112.14
		<i>For Elevated Installation >10' To 15', Add</i>		22.43	
		<i>For Elevated Installation >15' To 20', Add</i>		44.85	
		<i>For Elevated Installation >20' To 25', Add</i>		56.07	
		<i>For Elevated Installation >25' To 30', Add</i>		78.49	
		<i>For Elevated Installation >30' To 35', Add</i>		89.70	
		<i>For Elevated Installation >35' To 40', Add</i>		112.13	
		<i>For Elevated Installation >40', Add</i>		123.34	
		<i>For Work In Restricted Working Space, Add</i>		67.28	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		67.28	
26 05 33 13-0936 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fittings <small>(26 05 33 13-0802)</small>					
26 05 33 13-0937	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting		97.05	20.32
		<i>For Elevated Installation >10' To 15', Add</i>		4.06	
		<i>For Elevated Installation >15' To 20', Add</i>		8.13	
		<i>For Elevated Installation >20' To 25', Add</i>		10.16	
		<i>For Elevated Installation >25' To 30', Add</i>		14.22	
		<i>For Elevated Installation >30' To 35', Add</i>		16.25	
		<i>For Elevated Installation >35' To 40', Add</i>		20.32	
		<i>For Elevated Installation >40', Add</i>		22.35	
		<i>For Work In Restricted Working Space, Add</i>		12.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.19	
26 05 33 13-0938	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting		117.17	26.82
		<i>For Elevated Installation >10' To 15', Add</i>		5.36	
		<i>For Elevated Installation >15' To 20', Add</i>		10.73	
		<i>For Elevated Installation >20' To 25', Add</i>		13.41	
		<i>For Elevated Installation >25' To 30', Add</i>		18.77	
		<i>For Elevated Installation >30' To 35', Add</i>		21.45	
		<i>For Elevated Installation >35' To 40', Add</i>		26.82	
		<i>For Elevated Installation >40', Add</i>		29.50	
		<i>For Work In Restricted Working Space, Add</i>		16.09	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.09	
26 05 33 13-0939	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting		137.97	30.88
		<i>For Elevated Installation >10' To 15', Add</i>		6.18	
		<i>For Elevated Installation >15' To 20', Add</i>		12.35	
		<i>For Elevated Installation >20' To 25', Add</i>		15.44	
		<i>For Elevated Installation >25' To 30', Add</i>		21.62	
		<i>For Elevated Installation >30' To 35', Add</i>		24.70	
		<i>For Elevated Installation >35' To 40', Add</i>		30.88	
		<i>For Elevated Installation >40', Add</i>		33.97	
		<i>For Work In Restricted Working Space, Add</i>		18.53	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		18.53	
26 05 33 13-0940	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting		192.84	35.75
		<i>For Elevated Installation >10' To 15', Add</i>		7.15	
		<i>For Elevated Installation >15' To 20', Add</i>		14.30	
		<i>For Elevated Installation >20' To 25', Add</i>		17.88	
		<i>For Elevated Installation >25' To 30', Add</i>		25.03	
		<i>For Elevated Installation >30' To 35', Add</i>		28.60	
		<i>For Elevated Installation >35' To 40', Add</i>		35.76	
		<i>For Elevated Installation >40', Add</i>		39.33	
		<i>For Work In Restricted Working Space, Add</i>		21.45	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		21.45	
26 05 33 13-0941	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting		224.82	40.63
		<i>For Elevated Installation >10' To 15', Add</i>		8.13	
		<i>For Elevated Installation >15' To 20', Add</i>		16.25	
		<i>For Elevated Installation >20' To 25', Add</i>		20.32	
		<i>For Elevated Installation >25' To 30', Add</i>		28.44	
		<i>For Elevated Installation >30' To 35', Add</i>		32.50	
		<i>For Elevated Installation >35' To 40', Add</i>		40.63	
		<i>For Elevated Installation >40', Add</i>		44.69	
		<i>For Work In Restricted Working Space, Add</i>		24.38	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		24.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0942 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	340.37	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.28	
For Elevated Installation >30' To 35', Add	35.75	
For Elevated Installation >35' To 40', Add	44.69	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.81	
26 05 33 13-0943 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	908.12	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.03	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.85	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.67	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-0944 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	1,027.29	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.56	
For Elevated Installation >20' To 25', Add	38.20	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.03	
For Work In Restricted Working Space, Add	45.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.83	
26 05 33 13-0945 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	1,317.50	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.70	
For Elevated Installation >35' To 40', Add	112.13	
For Elevated Installation >40', Add	123.34	
For Work In Restricted Working Space, Add	67.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.28	
26 05 33 13-0946 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fittings <small>(26 05 33 13-0902)</small>		
26 05 33 13-0947 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	160.18	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0948 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	239.95	26.82
For Elevated Installation >10' To 15', Add	5.36	
For Elevated Installation >15' To 20', Add	10.73	
For Elevated Installation >20' To 25', Add	13.41	
For Elevated Installation >25' To 30', Add	18.77	
For Elevated Installation >30' To 35', Add	21.45	
For Elevated Installation >35' To 40', Add	26.82	
For Elevated Installation >40', Add	29.50	
For Work In Restricted Working Space, Add	16.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.09	
26 05 33 13-0949 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	300.57	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0950	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	346.99	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0951	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	394.09	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0952	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	515.23	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.28	
			<i>For Elevated Installation >30' To 35', Add</i>	35.75	
			<i>For Elevated Installation >35' To 40', Add</i>	44.69	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0953	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,588.60	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0954	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,859.13	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.56	
			<i>For Elevated Installation >20' To 25', Add</i>	38.20	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.03	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0955	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,292.87	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.70	
			<i>For Elevated Installation >35' To 40', Add</i>	112.13	
			<i>For Elevated Installation >40', Add</i>	123.34	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0956			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings <small>(26 05 33 13-0902)</small>		
26 05 33 13-0957	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	176.94	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0958 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	255.77	26.82
<i>For Elevated Installation >10' To 15', Add</i>	5.36	
<i>For Elevated Installation >15' To 20', Add</i>	10.73	
<i>For Elevated Installation >20' To 25', Add</i>	13.41	
<i>For Elevated Installation >25' To 30', Add</i>	18.77	
<i>For Elevated Installation >30' To 35', Add</i>	21.45	
<i>For Elevated Installation >35' To 40', Add</i>	26.82	
<i>For Elevated Installation >40', Add</i>	29.50	
<i>For Work In Restricted Working Space, Add</i>	16.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.09	
26 05 33 13-0959 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	303.58	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0960 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	351.95	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0961 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	407.69	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0962 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	634.81	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.28	
<i>For Elevated Installation >30' To 35', Add</i>	35.75	
<i>For Elevated Installation >35' To 40', Add</i>	44.69	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0963 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	1,769.02	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.03	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.85	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.67	
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0964 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,489.02	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.56	
<i>For Elevated Installation >20' To 25', Add</i>	38.20	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.03	
<i>For Work In Restricted Working Space, Add</i>	45.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0965	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,611.74	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.70	
			<i>For Elevated Installation >35' To 40', Add</i>	112.13	
			<i>For Elevated Installation >40', Add</i>	123.34	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0966			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fittings <small>(26 05 33 13-0962)</small>		
26 05 33 13-0967	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	141.71	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-0968	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	179.27	26.82
			<i>For Elevated Installation >10' To 15', Add</i>	5.36	
			<i>For Elevated Installation >15' To 20', Add</i>	10.73	
			<i>For Elevated Installation >20' To 25', Add</i>	13.41	
			<i>For Elevated Installation >25' To 30', Add</i>	18.77	
			<i>For Elevated Installation >30' To 35', Add</i>	21.45	
			<i>For Elevated Installation >35' To 40', Add</i>	26.82	
			<i>For Elevated Installation >40', Add</i>	29.50	
			<i>For Work In Restricted Working Space, Add</i>	16.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.09	
26 05 33 13-0969	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	214.30	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0970	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	238.06	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0971	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	317.64	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0972	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	443.96	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.28	
			<i>For Elevated Installation >30' To 35', Add</i>	35.75	
			<i>For Elevated Installation >35' To 40', Add</i>	44.69	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0973 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,439.17	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.03	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.85	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.67	
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0974 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,625.47	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.56	
<i>For Elevated Installation >20' To 25', Add</i>	38.20	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.03	
<i>For Work In Restricted Working Space, Add</i>	45.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0975 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,940.07	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.70	
<i>For Elevated Installation >35' To 40', Add</i>	112.13	
<i>For Elevated Installation >40', Add</i>	123.34	
<i>For Work In Restricted Working Space, Add</i>	67.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0976 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0902)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0977 EA 1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	136.41	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.51	
<i>For Elevated Installation >25' To 30', Add</i>	27.31	
<i>For Elevated Installation >30' To 35', Add</i>	31.21	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.41	
26 05 33 13-0978 EA 3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	154.13	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.28	
<i>For Elevated Installation >30' To 35', Add</i>	35.75	
<i>For Elevated Installation >35' To 40', Add</i>	44.69	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0979 EA 1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	189.02	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-0980 EA 1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	244.40	59.32
<i>For Elevated Installation >10' To 15', Add</i>	11.86	
<i>For Elevated Installation >15' To 20', Add</i>	23.73	
<i>For Elevated Installation >20' To 25', Add</i>	29.66	
<i>For Elevated Installation >25' To 30', Add</i>	41.52	
<i>For Elevated Installation >30' To 35', Add</i>	47.46	
<i>For Elevated Installation >35' To 40', Add</i>	59.32	
<i>For Elevated Installation >40', Add</i>	65.25	
<i>For Work In Restricted Working Space, Add</i>	35.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0981	EA		1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	283.58	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.50	
			<i>For Elevated Installation >25' To 30', Add</i>	45.50	
			<i>For Elevated Installation >30' To 35', Add</i>	52.00	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.00	
26 05 33 13-0982	EA		2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	382.43	78.01
			<i>For Elevated Installation >10' To 15', Add</i>	15.60	
			<i>For Elevated Installation >15' To 20', Add</i>	31.20	
			<i>For Elevated Installation >20' To 25', Add</i>	39.01	
			<i>For Elevated Installation >25' To 30', Add</i>	54.61	
			<i>For Elevated Installation >30' To 35', Add</i>	62.41	
			<i>For Elevated Installation >35' To 40', Add</i>	78.01	
			<i>For Elevated Installation >40', Add</i>	85.81	
			<i>For Work In Restricted Working Space, Add</i>	46.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	
26 05 33 13-0983	EA		2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	634.91	109.70
			<i>For Elevated Installation >10' To 15', Add</i>	21.94	
			<i>For Elevated Installation >15' To 20', Add</i>	43.88	
			<i>For Elevated Installation >20' To 25', Add</i>	54.85	
			<i>For Elevated Installation >25' To 30', Add</i>	76.79	
			<i>For Elevated Installation >30' To 35', Add</i>	87.76	
			<i>For Elevated Installation >35' To 40', Add</i>	109.71	
			<i>For Elevated Installation >40', Add</i>	120.68	
			<i>For Work In Restricted Working Space, Add</i>	65.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.82	
26 05 33 13-0984	EA		3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	815.22	146.27
			<i>For Elevated Installation >10' To 15', Add</i>	29.26	
			<i>For Elevated Installation >15' To 20', Add</i>	58.51	
			<i>For Elevated Installation >20' To 25', Add</i>	73.14	
			<i>For Elevated Installation >25' To 30', Add</i>	102.39	
			<i>For Elevated Installation >30' To 35', Add</i>	117.02	
			<i>For Elevated Installation >35' To 40', Add</i>	146.28	
			<i>For Elevated Installation >40', Add</i>	160.90	
			<i>For Work In Restricted Working Space, Add</i>	87.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.77	
26 05 33 13-0985	EA		3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,125.06	182.83
			<i>For Elevated Installation >10' To 15', Add</i>	36.57	
			<i>For Elevated Installation >15' To 20', Add</i>	73.13	
			<i>For Elevated Installation >20' To 25', Add</i>	91.42	
			<i>For Elevated Installation >25' To 30', Add</i>	127.98	
			<i>For Elevated Installation >30' To 35', Add</i>	146.27	
			<i>For Elevated Installation >35' To 40', Add</i>	182.84	
			<i>For Elevated Installation >40', Add</i>	201.12	
			<i>For Work In Restricted Working Space, Add</i>	109.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.70	
26 05 33 13-0986	EA		4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,296.53	222.65
			<i>For Elevated Installation >10' To 15', Add</i>	44.53	
			<i>For Elevated Installation >15' To 20', Add</i>	89.06	
			<i>For Elevated Installation >20' To 25', Add</i>	111.33	
			<i>For Elevated Installation >25' To 30', Add</i>	155.86	
			<i>For Elevated Installation >30' To 35', Add</i>	178.12	
			<i>For Elevated Installation >35' To 40', Add</i>	222.66	
			<i>For Elevated Installation >40', Add</i>	244.92	
			<i>For Work In Restricted Working Space, Add</i>	133.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.59	
26 05 33 13-0987			Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0802)</small>		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0988	EA		1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	178.30	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.83	
			<i>For Elevated Installation >30' To 35', Add</i>	40.95	
			<i>For Elevated Installation >35' To 40', Add</i>	51.19	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0989 EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	202.67	56.88
For Elevated Installation >10' To 15', Add	11.38	
For Elevated Installation >15' To 20', Add	22.75	
For Elevated Installation >20' To 25', Add	28.44	
For Elevated Installation >25' To 30', Add	39.82	
For Elevated Installation >30' To 35', Add	45.51	
For Elevated Installation >35' To 40', Add	56.89	
For Elevated Installation >40', Add	62.57	
For Work In Restricted Working Space, Add	34.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.13	
26 05 33 13-0990 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	244.88	62.57
For Elevated Installation >10' To 15', Add	12.51	
For Elevated Installation >15' To 20', Add	25.03	
For Elevated Installation >20' To 25', Add	31.29	
For Elevated Installation >25' To 30', Add	43.80	
For Elevated Installation >30' To 35', Add	50.06	
For Elevated Installation >35' To 40', Add	62.57	
For Elevated Installation >40', Add	68.83	
For Work In Restricted Working Space, Add	37.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.54	
26 05 33 13-0991 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	324.44	71.51
For Elevated Installation >10' To 15', Add	14.30	
For Elevated Installation >15' To 20', Add	28.60	
For Elevated Installation >20' To 25', Add	35.75	
For Elevated Installation >25' To 30', Add	50.05	
For Elevated Installation >30' To 35', Add	57.20	
For Elevated Installation >35' To 40', Add	71.51	
For Elevated Installation >40', Add	78.66	
For Work In Restricted Working Space, Add	42.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.90	
26 05 33 13-0992 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	380.91	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.81	
26 05 33 13-0993 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	514.81	95.89
For Elevated Installation >10' To 15', Add	19.18	
For Elevated Installation >15' To 20', Add	38.35	
For Elevated Installation >20' To 25', Add	47.94	
For Elevated Installation >25' To 30', Add	67.12	
For Elevated Installation >30' To 35', Add	76.71	
For Elevated Installation >35' To 40', Add	95.89	
For Elevated Installation >40', Add	105.47	
For Work In Restricted Working Space, Add	57.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.53	
26 05 33 13-0994 Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0802)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0995 EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	156.79	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.82	
26 05 33 13-0996 EA 3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	179.28	52.01
For Elevated Installation >10' To 15', Add	10.40	
For Elevated Installation >15' To 20', Add	20.80	
For Elevated Installation >20' To 25', Add	26.00	
For Elevated Installation >25' To 30', Add	36.40	
For Elevated Installation >30' To 35', Add	41.60	
For Elevated Installation >35' To 40', Add	52.01	
For Elevated Installation >40', Add	57.21	
For Work In Restricted Working Space, Add	31.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.20	
26 05 33 13-0997 EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	214.61	56.88
For Elevated Installation >10' To 15', Add	11.38	
For Elevated Installation >15' To 20', Add	22.75	
For Elevated Installation >20' To 25', Add	28.44	
For Elevated Installation >25' To 30', Add	39.82	
For Elevated Installation >30' To 35', Add	45.51	
For Elevated Installation >35' To 40', Add	56.89	
For Elevated Installation >40', Add	62.57	
For Work In Restricted Working Space, Add	34.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0998	EA	1-1/4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	271.99	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 33 13-0999	EA	1-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	320.31	71.51
			<i>For Elevated Installation >10' To 15', Add</i>	14.30	
			<i>For Elevated Installation >15' To 20', Add</i>	28.60	
			<i>For Elevated Installation >20' To 25', Add</i>	35.76	
			<i>For Elevated Installation >25' To 30', Add</i>	50.06	
			<i>For Elevated Installation >30' To 35', Add</i>	57.21	
			<i>For Elevated Installation >35' To 40', Add</i>	71.51	
			<i>For Elevated Installation >40', Add</i>	78.66	
			<i>For Work In Restricted Working Space, Add</i>	42.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.91	
26 05 33 13-1000	EA	2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	424.85	83.70
			<i>For Elevated Installation >10' To 15', Add</i>	16.74	
			<i>For Elevated Installation >15' To 20', Add</i>	33.48	
			<i>For Elevated Installation >20' To 25', Add</i>	41.85	
			<i>For Elevated Installation >25' To 30', Add</i>	58.59	
			<i>For Elevated Installation >30' To 35', Add</i>	66.96	
			<i>For Elevated Installation >35' To 40', Add</i>	83.70	
			<i>For Elevated Installation >40', Add</i>	92.07	
			<i>For Work In Restricted Working Space, Add</i>	50.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.22	
26 05 33 13-1001	EA	2-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	678.67	121.89
			<i>For Elevated Installation >10' To 15', Add</i>	24.38	
			<i>For Elevated Installation >15' To 20', Add</i>	48.76	
			<i>For Elevated Installation >20' To 25', Add</i>	60.95	
			<i>For Elevated Installation >25' To 30', Add</i>	85.33	
			<i>For Elevated Installation >30' To 35', Add</i>	97.52	
			<i>For Elevated Installation >35' To 40', Add</i>	121.90	
			<i>For Elevated Installation >40', Add</i>	134.08	
			<i>For Work In Restricted Working Space, Add</i>	73.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.14	
26 05 33 13-1002	EA	3"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	897.22	158.46
			<i>For Elevated Installation >10' To 15', Add</i>	31.69	
			<i>For Elevated Installation >15' To 20', Add</i>	63.38	
			<i>For Elevated Installation >20' To 25', Add</i>	79.23	
			<i>For Elevated Installation >25' To 30', Add</i>	110.92	
			<i>For Elevated Installation >30' To 35', Add</i>	126.76	
			<i>For Elevated Installation >35' To 40', Add</i>	158.45	
			<i>For Elevated Installation >40', Add</i>	174.30	
			<i>For Work In Restricted Working Space, Add</i>	95.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.07	
26 05 33 13-1003	EA	3-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,224.14	195.03
			<i>For Elevated Installation >10' To 15', Add</i>	39.00	
			<i>For Elevated Installation >15' To 20', Add</i>	78.01	
			<i>For Elevated Installation >20' To 25', Add</i>	97.51	
			<i>For Elevated Installation >25' To 30', Add</i>	136.51	
			<i>For Elevated Installation >30' To 35', Add</i>	156.02	
			<i>For Elevated Installation >35' To 40', Add</i>	195.02	
			<i>For Elevated Installation >40', Add</i>	214.52	
			<i>For Work In Restricted Working Space, Add</i>	117.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.01	
26 05 33 13-1004	EA	4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,374.59	234.84
			<i>For Elevated Installation >10' To 15', Add</i>	46.97	
			<i>For Elevated Installation >15' To 20', Add</i>	93.94	
			<i>For Elevated Installation >20' To 25', Add</i>	117.43	
			<i>For Elevated Installation >25' To 30', Add</i>	164.40	
			<i>For Elevated Installation >30' To 35', Add</i>	187.88	
			<i>For Elevated Installation >35' To 40', Add</i>	234.85	
			<i>For Elevated Installation >40', Add</i>	258.34	
			<i>For Work In Restricted Working Space, Add</i>	140.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.91	
26 05 33 13-1005			Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined		
			<small>(26 05 33 13-0902)</small>		
26 05 33 13-1006	EA	1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	30.46	4.87
			<i>For Elevated Installation >10' To 15', Add</i>	0.98	
			<i>For Elevated Installation >15' To 20', Add</i>	1.95	
			<i>For Elevated Installation >20' To 25', Add</i>	2.44	
			<i>For Elevated Installation >25' To 30', Add</i>	3.41	
			<i>For Elevated Installation >30' To 35', Add</i>	3.90	
			<i>For Elevated Installation >35' To 40', Add</i>	4.88	
			<i>For Elevated Installation >40', Add</i>	5.36	
			<i>For Work In Restricted Working Space, Add</i>	2.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1007 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	34.25	5.69
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.98	
For Elevated Installation >30' To 35', Add	4.55	
For Elevated Installation >35' To 40', Add	5.69	
For Elevated Installation >40', Add	6.26	
For Work In Restricted Working Space, Add	3.41	
26 05 33 13-1008 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	44.62	7.32
For Elevated Installation >10' To 15', Add	1.46	
For Elevated Installation >15' To 20', Add	2.92	
For Elevated Installation >20' To 25', Add	3.66	
For Elevated Installation >25' To 30', Add	5.12	
For Elevated Installation >30' To 35', Add	5.85	
For Elevated Installation >35' To 40', Add	7.31	
For Elevated Installation >40', Add	8.04	
For Work In Restricted Working Space, Add	4.39	
26 05 33 13-1009 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	57.22	8.94
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.47	
For Elevated Installation >25' To 30', Add	6.26	
For Elevated Installation >30' To 35', Add	7.15	
For Elevated Installation >35' To 40', Add	8.94	
For Elevated Installation >40', Add	9.83	
For Work In Restricted Working Space, Add	5.36	
26 05 33 13-1010 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	64.28	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
26 05 33 13-1011 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	79.22	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
26 05 33 13-1012 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	101.79	13.81
For Elevated Installation >10' To 15', Add	2.76	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.91	
For Elevated Installation >25' To 30', Add	9.67	
For Elevated Installation >30' To 35', Add	11.05	
For Elevated Installation >35' To 40', Add	13.82	
For Elevated Installation >40', Add	15.20	
For Work In Restricted Working Space, Add	8.29	
26 05 33 13-1013 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	113.17	19.50
For Elevated Installation >10' To 15', Add	3.90	
For Elevated Installation >15' To 20', Add	7.80	
For Elevated Installation >20' To 25', Add	9.75	
For Elevated Installation >25' To 30', Add	13.65	
For Elevated Installation >30' To 35', Add	15.60	
For Elevated Installation >35' To 40', Add	19.51	
For Elevated Installation >40', Add	21.46	
For Work In Restricted Working Space, Add	11.70	
26 05 33 13-1014 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	136.87	21.94
For Elevated Installation >10' To 15', Add	4.39	
For Elevated Installation >15' To 20', Add	8.78	
For Elevated Installation >20' To 25', Add	10.97	
For Elevated Installation >25' To 30', Add	15.36	
For Elevated Installation >30' To 35', Add	17.55	
For Elevated Installation >35' To 40', Add	21.94	
For Elevated Installation >40', Add	24.13	
For Work In Restricted Working Space, Add	13.16	
26 05 33 13-1015 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	148.24	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
26 05 33 13-1016 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1017	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	152.10	39.01
			<i>For Elevated Installation >10' To 15', Add</i>	7.80	
			<i>For Elevated Installation >15' To 20', Add</i>	15.60	
			<i>For Elevated Installation >20' To 25', Add</i>	19.50	
			<i>For Elevated Installation >25' To 30', Add</i>	27.30	
			<i>For Elevated Installation >30' To 35', Add</i>	31.20	
			<i>For Elevated Installation >35' To 40', Add</i>	39.01	
			<i>For Elevated Installation >40', Add</i>	42.91	
			<i>For Work In Restricted Working Space, Add</i>	23.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.40	
26 05 33 13-1018	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	169.07	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-1019	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	197.04	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-1020	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	233.28	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	
26 05 33 13-1021	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	286.72	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 33 13-1022	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	347.16	78.01
			<i>For Elevated Installation >10' To 15', Add</i>	15.60	
			<i>For Elevated Installation >15' To 20', Add</i>	31.20	
			<i>For Elevated Installation >20' To 25', Add</i>	39.01	
			<i>For Elevated Installation >25' To 30', Add</i>	54.61	
			<i>For Elevated Installation >30' To 35', Add</i>	62.41	
			<i>For Elevated Installation >35' To 40', Add</i>	78.01	
			<i>For Elevated Installation >40', Add</i>	85.81	
			<i>For Work In Restricted Working Space, Add</i>	46.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	
26 05 33 13-1023	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	501.38	109.70
			<i>For Elevated Installation >10' To 15', Add</i>	21.94	
			<i>For Elevated Installation >15' To 20', Add</i>	43.88	
			<i>For Elevated Installation >20' To 25', Add</i>	54.85	
			<i>For Elevated Installation >25' To 30', Add</i>	76.79	
			<i>For Elevated Installation >30' To 35', Add</i>	87.76	
			<i>For Elevated Installation >35' To 40', Add</i>	109.70	
			<i>For Elevated Installation >40', Add</i>	120.67	
			<i>For Work In Restricted Working Space, Add</i>	65.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.82	
26 05 33 13-1024	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	645.22	146.27
			<i>For Elevated Installation >10' To 15', Add</i>	29.25	
			<i>For Elevated Installation >15' To 20', Add</i>	58.51	
			<i>For Elevated Installation >20' To 25', Add</i>	73.14	
			<i>For Elevated Installation >25' To 30', Add</i>	102.39	
			<i>For Elevated Installation >30' To 35', Add</i>	117.02	
			<i>For Elevated Installation >35' To 40', Add</i>	146.27	
			<i>For Elevated Installation >40', Add</i>	160.90	
			<i>For Work In Restricted Working Space, Add</i>	87.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1025 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,245.45	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.70	
26 05 33 13-1026 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,805.26	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.59	
26 05 33 13-1027 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		
26 05 33 13-1028 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	248.53	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33 13-1029 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	268.77	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.82	
26 05 33 13-1030 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	306.99	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.72	
26 05 33 13-1031 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	344.47	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59	
26 05 33 13-1032 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	414.72	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-1033 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	468.92	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1034	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	659.70	109.70
			<i>For Elevated Installation >10' To 15', Add</i>	21.94	
			<i>For Elevated Installation >15' To 20', Add</i>	43.88	
			<i>For Elevated Installation >20' To 25', Add</i>	54.85	
			<i>For Elevated Installation >25' To 30', Add</i>	76.79	
			<i>For Elevated Installation >30' To 35', Add</i>	87.76	
			<i>For Elevated Installation >35' To 40', Add</i>	109.70	
			<i>For Elevated Installation >40', Add</i>	120.67	
			<i>For Work In Restricted Working Space, Add</i>	65.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.82	
26 05 33 13-1035	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	916.34	146.27
			<i>For Elevated Installation >10' To 15', Add</i>	29.25	
			<i>For Elevated Installation >15' To 20', Add</i>	58.51	
			<i>For Elevated Installation >20' To 25', Add</i>	73.14	
			<i>For Elevated Installation >25' To 30', Add</i>	102.39	
			<i>For Elevated Installation >30' To 35', Add</i>	117.02	
			<i>For Elevated Installation >35' To 40', Add</i>	146.27	
			<i>For Elevated Installation >40', Add</i>	160.90	
			<i>For Work In Restricted Working Space, Add</i>	87.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.76	
26 05 33 13-1036	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,324.19	182.83
			<i>For Elevated Installation >10' To 15', Add</i>	36.57	
			<i>For Elevated Installation >15' To 20', Add</i>	73.13	
			<i>For Elevated Installation >20' To 25', Add</i>	91.42	
			<i>For Elevated Installation >25' To 30', Add</i>	127.98	
			<i>For Elevated Installation >30' To 35', Add</i>	146.27	
			<i>For Elevated Installation >35' To 40', Add</i>	182.84	
			<i>For Elevated Installation >40', Add</i>	201.12	
			<i>For Work In Restricted Working Space, Add</i>	109.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.70	
26 05 33 13-1037	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,908.30	222.65
			<i>For Elevated Installation >10' To 15', Add</i>	44.53	
			<i>For Elevated Installation >15' To 20', Add</i>	89.06	
			<i>For Elevated Installation >20' To 25', Add</i>	111.33	
			<i>For Elevated Installation >25' To 30', Add</i>	155.86	
			<i>For Elevated Installation >30' To 35', Add</i>	178.12	
			<i>For Elevated Installation >35' To 40', Add</i>	222.66	
			<i>For Elevated Installation >40', Add</i>	244.92	
			<i>For Work In Restricted Working Space, Add</i>	133.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.59	
26 05 33 13-1038			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		
26 05 33 13-1039	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	202.11	39.01
			<i>For Elevated Installation >10' To 15', Add</i>	7.80	
			<i>For Elevated Installation >15' To 20', Add</i>	15.60	
			<i>For Elevated Installation >20' To 25', Add</i>	19.50	
			<i>For Elevated Installation >25' To 30', Add</i>	27.30	
			<i>For Elevated Installation >30' To 35', Add</i>	31.20	
			<i>For Elevated Installation >35' To 40', Add</i>	39.01	
			<i>For Elevated Installation >40', Add</i>	42.91	
			<i>For Work In Restricted Working Space, Add</i>	23.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.40	
26 05 33 13-1040	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	216.79	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-1041	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	249.00	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-1042	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	278.71	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1043 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	376.44	65.01
<i>For Elevated Installation >10' To 15', Add</i>	13.00	
<i>For Elevated Installation >15' To 20', Add</i>	26.00	
<i>For Elevated Installation >20' To 25', Add</i>	32.51	
<i>For Elevated Installation >25' To 30', Add</i>	45.51	
<i>For Elevated Installation >30' To 35', Add</i>	52.01	
<i>For Elevated Installation >35' To 40', Add</i>	65.01	
<i>For Elevated Installation >40', Add</i>	71.51	
<i>For Work In Restricted Working Space, Add</i>	39.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 33 13-1044 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	471.23	78.01
<i>For Elevated Installation >10' To 15', Add</i>	15.60	
<i>For Elevated Installation >15' To 20', Add</i>	31.20	
<i>For Elevated Installation >20' To 25', Add</i>	39.01	
<i>For Elevated Installation >25' To 30', Add</i>	54.61	
<i>For Elevated Installation >30' To 35', Add</i>	62.41	
<i>For Elevated Installation >35' To 40', Add</i>	78.01	
<i>For Elevated Installation >40', Add</i>	85.81	
<i>For Work In Restricted Working Space, Add</i>	46.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	
26 05 33 13-1045 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	727.02	109.70
<i>For Elevated Installation >10' To 15', Add</i>	21.94	
<i>For Elevated Installation >15' To 20', Add</i>	43.88	
<i>For Elevated Installation >20' To 25', Add</i>	54.85	
<i>For Elevated Installation >25' To 30', Add</i>	76.79	
<i>For Elevated Installation >30' To 35', Add</i>	87.76	
<i>For Elevated Installation >35' To 40', Add</i>	109.70	
<i>For Elevated Installation >40', Add</i>	120.67	
<i>For Work In Restricted Working Space, Add</i>	65.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.82	
26 05 33 13-1046 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,053.32	146.27
<i>For Elevated Installation >10' To 15', Add</i>	29.25	
<i>For Elevated Installation >15' To 20', Add</i>	58.51	
<i>For Elevated Installation >20' To 25', Add</i>	73.14	
<i>For Elevated Installation >25' To 30', Add</i>	102.39	
<i>For Elevated Installation >30' To 35', Add</i>	117.02	
<i>For Elevated Installation >35' To 40', Add</i>	146.27	
<i>For Elevated Installation >40', Add</i>	160.90	
<i>For Work In Restricted Working Space, Add</i>	87.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.76	
26 05 33 13-1047 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,324.19	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.70	
26 05 33 13-1048 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		
26 05 33 13-1049 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	262.16	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.50	
<i>For Elevated Installation >25' To 30', Add</i>	27.30	
<i>For Elevated Installation >30' To 35', Add</i>	31.20	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.40	
26 05 33 13-1050 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	291.51	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-1051 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	359.57	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1052	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....441.73	441.73	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	
26 05 33 13-1053	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....606.75	606.75	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 33 13-1054	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....727.21	727.21	78.01
			<i>For Elevated Installation >10' To 15', Add</i>	15.60	
			<i>For Elevated Installation >15' To 20', Add</i>	31.20	
			<i>For Elevated Installation >20' To 25', Add</i>	39.01	
			<i>For Elevated Installation >25' To 30', Add</i>	54.61	
			<i>For Elevated Installation >30' To 35', Add</i>	62.41	
			<i>For Elevated Installation >35' To 40', Add</i>	78.01	
			<i>For Elevated Installation >40', Add</i>	85.81	
			<i>For Work In Restricted Working Space, Add</i>	46.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	
26 05 33 13-1055 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0802)					
26 05 33 13-1056	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....53.81	53.81	15.63
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Work In Restricted Working Space, Add</i>	9.38	
26 05 33 13-1057	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....70.56	70.56	18.75
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
			<i>For Work In Restricted Working Space, Add</i>	11.25	
26 05 33 13-1058	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....90.14	90.14	25.01
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.00	
			<i>For Elevated Installation >40', Add</i>	27.50	
			<i>For Work In Restricted Working Space, Add</i>	15.00	
26 05 33 13-1059	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....122.75	122.75	31.25
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Work In Restricted Working Space, Add</i>	18.75	
26 05 33 13-1060	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....159.65	159.65	37.50
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.75	
			<i>For Elevated Installation >25' To 30', Add</i>	26.25	
			<i>For Elevated Installation >30' To 35', Add</i>	30.00	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	
			<i>For Work In Restricted Working Space, Add</i>	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1061 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	266.46	43.76
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Work In Restricted Working Space, Add	26.25	
26 05 33 13-1062 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	381.75	50.00
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Work In Restricted Working Space, Add	30.00	
26 05 33 13-1063 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	473.81	56.26
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Work In Restricted Working Space, Add	33.75	
26 05 33 13-1064 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	654.42	65.64
For Elevated Installation >10' To 15', Add	13.13	
For Elevated Installation >15' To 20', Add	26.25	
For Elevated Installation >20' To 25', Add	32.82	
For Elevated Installation >25' To 30', Add	45.94	
For Elevated Installation >30' To 35', Add	52.51	
For Elevated Installation >35' To 40', Add	65.64	
For Elevated Installation >40', Add	72.20	
For Work In Restricted Working Space, Add	39.38	
26 05 33 13-1065 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	792.70	75.01
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.00	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.01	
For Elevated Installation >40', Add	82.51	
For Work In Restricted Working Space, Add	45.01	
26 05 33 13-1066 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,268.21	118.77
For Elevated Installation >10' To 15', Add	23.75	
For Elevated Installation >15' To 20', Add	47.51	
For Elevated Installation >20' To 25', Add	59.38	
For Elevated Installation >25' To 30', Add	83.14	
For Elevated Installation >30' To 35', Add	95.01	
For Elevated Installation >35' To 40', Add	118.77	
For Elevated Installation >40', Add	130.64	
For Work In Restricted Working Space, Add	71.26	
26 05 33 13-1067 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,741.24	181.27
For Elevated Installation >10' To 15', Add	36.26	
For Elevated Installation >15' To 20', Add	72.51	
For Elevated Installation >20' To 25', Add	90.64	
For Elevated Installation >25' To 30', Add	126.89	
For Elevated Installation >30' To 35', Add	145.02	
For Elevated Installation >35' To 40', Add	181.28	
For Elevated Installation >40', Add	199.40	
For Work In Restricted Working Space, Add	108.77	
26 05 33 13-1068 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1069 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	191.52	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
26 05 33 13-1070 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	225.18	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1071 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	249.97	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1072 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	353.48	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1073 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	460.93	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1074 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	500.68	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1075 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,151.90	108.07
For Elevated Installation >10' To 15', Add	21.62	
For Elevated Installation >15' To 20', Add	43.23	
For Elevated Installation >20' To 25', Add	54.04	
For Elevated Installation >25' To 30', Add	75.66	
For Elevated Installation >30' To 35', Add	86.46	
For Elevated Installation >35' To 40', Add	108.08	
For Elevated Installation >40', Add	118.89	
For Work In Restricted Working Space, Add	64.85	
26 05 33 13-1076 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,228.51	146.27
For Elevated Installation >10' To 15', Add	29.26	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.28	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.77	
26 05 33 13-1077 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,986.92	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.14	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.99	
For Elevated Installation >30' To 35', Add	146.28	
For Elevated Installation >35' To 40', Add	182.85	
For Elevated Installation >40', Add	201.13	
For Work In Restricted Working Space, Add	109.71	
26 05 33 13-1078 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	2,082.29	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.07	
For Elevated Installation >20' To 25', Add	111.34	
For Elevated Installation >25' To 30', Add	155.87	
For Elevated Installation >30' To 35', Add	178.14	
For Elevated Installation >35' To 40', Add	222.67	
For Elevated Installation >40', Add	244.94	
For Work In Restricted Working Space, Add	133.60	
26 05 33 13-1079 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0802)		
26 05 33 13-1080 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	272.30	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1081 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	310.31	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1082 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	597.49	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1083 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	629.03	59.32
<i>For Elevated Installation >10' To 15', Add</i>	11.86	
<i>For Elevated Installation >15' To 20', Add</i>	23.73	
<i>For Elevated Installation >20' To 25', Add</i>	29.66	
<i>For Elevated Installation >25' To 30', Add</i>	41.52	
<i>For Elevated Installation >30' To 35', Add</i>	47.46	
<i>For Elevated Installation >35' To 40', Add</i>	59.32	
<i>For Elevated Installation >40', Add</i>	65.25	
<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-1084 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	853.46	65.01
<i>For Elevated Installation >10' To 15', Add</i>	13.00	
<i>For Elevated Installation >15' To 20', Add</i>	26.00	
<i>For Elevated Installation >20' To 25', Add</i>	32.51	
<i>For Elevated Installation >25' To 30', Add</i>	45.51	
<i>For Elevated Installation >30' To 35', Add</i>	52.01	
<i>For Elevated Installation >35' To 40', Add</i>	65.01	
<i>For Elevated Installation >40', Add</i>	71.51	
<i>For Work In Restricted Working Space, Add</i>	39.01	
26 05 33 13-1085 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	913.77	78.01
<i>For Elevated Installation >10' To 15', Add</i>	15.60	
<i>For Elevated Installation >15' To 20', Add</i>	31.20	
<i>For Elevated Installation >20' To 25', Add</i>	39.01	
<i>For Elevated Installation >25' To 30', Add</i>	54.61	
<i>For Elevated Installation >30' To 35', Add</i>	62.41	
<i>For Elevated Installation >35' To 40', Add</i>	78.01	
<i>For Elevated Installation >40', Add</i>	85.81	
<i>For Work In Restricted Working Space, Add</i>	46.81	
26 05 33 13-1086 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,740.95	109.70
<i>For Elevated Installation >10' To 15', Add</i>	21.94	
<i>For Elevated Installation >15' To 20', Add</i>	43.88	
<i>For Elevated Installation >20' To 25', Add</i>	54.85	
<i>For Elevated Installation >25' To 30', Add</i>	76.79	
<i>For Elevated Installation >30' To 35', Add</i>	87.76	
<i>For Elevated Installation >35' To 40', Add</i>	109.70	
<i>For Elevated Installation >40', Add</i>	120.67	
<i>For Work In Restricted Working Space, Add</i>	65.82	
26 05 33 13-1087 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,844.16	146.27
<i>For Elevated Installation >10' To 15', Add</i>	29.25	
<i>For Elevated Installation >15' To 20', Add</i>	58.51	
<i>For Elevated Installation >20' To 25', Add</i>	73.14	
<i>For Elevated Installation >25' To 30', Add</i>	102.39	
<i>For Elevated Installation >30' To 35', Add</i>	117.02	
<i>For Elevated Installation >35' To 40', Add</i>	146.27	
<i>For Elevated Installation >40', Add</i>	160.90	
<i>For Work In Restricted Working Space, Add</i>	87.76	
26 05 33 13-1088 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,689.17	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1089 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,051.26	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1090 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0802)		
26 05 33 13-1091 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	106.58	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
26 05 33 13-1092 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	124.64	25.19
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.63	
For Elevated Installation >30' To 35', Add	20.15	
For Elevated Installation >35' To 40', Add	25.19	
For Elevated Installation >40', Add	27.71	
For Work In Restricted Working Space, Add	15.11	
26 05 33 13-1093 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	148.83	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-1094 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	175.41	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-1095 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0802)		
26 05 33 13-1096 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	85.54	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
26 05 33 13-1097 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	99.38	25.19
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.63	
For Elevated Installation >30' To 35', Add	20.15	
For Elevated Installation >35' To 40', Add	25.19	
For Elevated Installation >40', Add	27.71	
For Work In Restricted Working Space, Add	15.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1098 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	136.52	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1099 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	175.51	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1100 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	212.78	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1101 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	300.85	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1102 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	409.27	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1103 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1104 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	106.63	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1105 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	127.55	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1106 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	148.85	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1107 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	175.46	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-1108 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0802)		
26 05 33 13-1109 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	85.61	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
26 05 33 13-1110 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	99.38	25.19
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.63	
For Elevated Installation >30' To 35', Add	20.15	
For Elevated Installation >35' To 40', Add	25.19	
For Elevated Installation >40', Add	27.71	
For Work In Restricted Working Space, Add	15.11	
26 05 33 13-1111 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	127.81	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-1112 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	158.58	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-1113 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	185.21	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-1114 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	212.55	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1115 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	386.76	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1116 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	447.78	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-1117 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	484.50	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-1118 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	599.92	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-1119 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1120 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	177.89	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.50	
<i>For Elevated Installation >25' To 30', Add</i>	27.30	
<i>For Elevated Installation >30' To 35', Add</i>	31.20	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.40	
26 05 33 13-1121 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	193.19	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-1122 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	212.33	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-1123 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	281.65	59.32
<i>For Elevated Installation >10' To 15', Add</i>	11.86	
<i>For Elevated Installation >15' To 20', Add</i>	23.73	
<i>For Elevated Installation >20' To 25', Add</i>	29.66	
<i>For Elevated Installation >25' To 30', Add</i>	41.52	
<i>For Elevated Installation >30' To 35', Add</i>	47.46	
<i>For Elevated Installation >35' To 40', Add</i>	59.32	
<i>For Elevated Installation >40', Add</i>	65.25	
<i>For Work In Restricted Working Space, Add</i>	35.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	
26 05 33 13-1124 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	354.46	65.01
<i>For Elevated Installation >10' To 15', Add</i>	13.00	
<i>For Elevated Installation >15' To 20', Add</i>	26.00	
<i>For Elevated Installation >20' To 25', Add</i>	32.51	
<i>For Elevated Installation >25' To 30', Add</i>	45.51	
<i>For Elevated Installation >30' To 35', Add</i>	52.01	
<i>For Elevated Installation >35' To 40', Add</i>	65.01	
<i>For Elevated Installation >40', Add</i>	71.51	
<i>For Work In Restricted Working Space, Add</i>	39.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1125 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1126 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	211.24	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
26 05 33 13-1127 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	228.59	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1128 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	266.80	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1129 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	376.18	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1130 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	599.41	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1131 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	650.57	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1132 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1133 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	230.16	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1134 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	260.15	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1135 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	284.81	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1136 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	394.48	59.32
<i>For Elevated Installation >10' To 15', Add</i>	11.86	
<i>For Elevated Installation >15' To 20', Add</i>	23.73	
<i>For Elevated Installation >20' To 25', Add</i>	29.66	
<i>For Elevated Installation >25' To 30', Add</i>	41.52	
<i>For Elevated Installation >30' To 35', Add</i>	47.46	
<i>For Elevated Installation >35' To 40', Add</i>	59.32	
<i>For Elevated Installation >40', Add</i>	65.25	
<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-1137 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	643.06	65.01
<i>For Elevated Installation >10' To 15', Add</i>	13.00	
<i>For Elevated Installation >15' To 20', Add</i>	26.00	
<i>For Elevated Installation >20' To 25', Add</i>	32.51	
<i>For Elevated Installation >25' To 30', Add</i>	45.51	
<i>For Elevated Installation >30' To 35', Add</i>	52.01	
<i>For Elevated Installation >35' To 40', Add</i>	65.01	
<i>For Elevated Installation >40', Add</i>	71.51	
<i>For Work In Restricted Working Space, Add</i>	39.01	
26 05 33 13-1138 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	690.64	78.01
<i>For Elevated Installation >10' To 15', Add</i>	15.60	
<i>For Elevated Installation >15' To 20', Add</i>	31.20	
<i>For Elevated Installation >20' To 25', Add</i>	39.01	
<i>For Elevated Installation >25' To 30', Add</i>	54.61	
<i>For Elevated Installation >30' To 35', Add</i>	62.41	
<i>For Elevated Installation >35' To 40', Add</i>	78.01	
<i>For Elevated Installation >40', Add</i>	85.81	
<i>For Work In Restricted Working Space, Add</i>	46.81	
26 05 33 13-1139 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1140 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	230.32	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.51	
<i>For Elevated Installation >25' To 30', Add</i>	27.31	
<i>For Elevated Installation >30' To 35', Add</i>	31.21	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.41	
26 05 33 13-1141 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	254.57	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1142 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	302.19	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1143 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	408.42	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1144 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	663.86	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1145 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	716.28	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1146 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1147 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	282.71	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.51	
For Elevated Installation >25' To 30', Add	27.31	
For Elevated Installation >30' To 35', Add	31.21	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.41	
26 05 33 13-1148 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	312.81	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1149 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	340.07	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1150 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	831.87	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	

26 05 33 13-1151 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0802)
 Note: Excludes cover.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1152 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	143.01	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.51	
<i>For Elevated Installation >25' To 30', Add</i>	27.31	
<i>For Elevated Installation >30' To 35', Add</i>	31.21	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.41	
26 05 33 13-1153 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	157.89	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1154 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	176.77	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1155 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	157.21	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.51	
<i>For Elevated Installation >25' To 30', Add</i>	27.31	
<i>For Elevated Installation >30' To 35', Add</i>	31.21	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.41	
26 05 33 13-1156 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	170.32	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1157 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	194.03	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1158 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes <small>(26 05 33 13-0802)</small>		
Note: Excludes cover.		
26 05 33 13-1159 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	149.73	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.51	
<i>For Elevated Installation >25' To 30', Add</i>	27.31	
<i>For Elevated Installation >30' To 35', Add</i>	31.21	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.41	
26 05 33 13-1160 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	165.45	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1161 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	181.99	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1162	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	166.82	39.01
			<i>For Elevated Installation >10' To 15', Add</i>	7.80	
			<i>For Elevated Installation >15' To 20', Add</i>	15.60	
			<i>For Elevated Installation >20' To 25', Add</i>	19.51	
			<i>For Elevated Installation >25' To 30', Add</i>	27.31	
			<i>For Elevated Installation >30' To 35', Add</i>	31.21	
			<i>For Elevated Installation >35' To 40', Add</i>	39.01	
			<i>For Elevated Installation >40', Add</i>	42.91	
			<i>For Work In Restricted Working Space, Add</i>	23.41	
26 05 33 13-1163	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	182.72	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1164	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	206.79	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers					
<small>(26 05 33 13-0802)</small>					
26 05 33 13-1166	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover.....	49.96	4.87
			<i>For Elevated Installation >10' To 15', Add</i>	0.98	
			<i>For Elevated Installation >15' To 20', Add</i>	1.95	
			<i>For Elevated Installation >20' To 25', Add</i>	2.44	
			<i>For Elevated Installation >25' To 30', Add</i>	3.41	
			<i>For Elevated Installation >30' To 35', Add</i>	3.90	
			<i>For Elevated Installation >35' To 40', Add</i>	4.88	
			<i>For Elevated Installation >40', Add</i>	5.36	
			<i>For Work In Restricted Working Space, Add</i>	2.93	
26 05 33 13-1167	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	67.63	5.69
			<i>For Elevated Installation >10' To 15', Add</i>	1.14	
			<i>For Elevated Installation >15' To 20', Add</i>	2.28	
			<i>For Elevated Installation >20' To 25', Add</i>	2.85	
			<i>For Elevated Installation >25' To 30', Add</i>	3.98	
			<i>For Elevated Installation >30' To 35', Add</i>	4.55	
			<i>For Elevated Installation >35' To 40', Add</i>	5.69	
			<i>For Elevated Installation >40', Add</i>	6.26	
			<i>For Work In Restricted Working Space, Add</i>	3.41	
26 05 33 13-1168	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	63.94	5.69
			<i>For Elevated Installation >10' To 15', Add</i>	1.14	
			<i>For Elevated Installation >15' To 20', Add</i>	2.28	
			<i>For Elevated Installation >20' To 25', Add</i>	2.85	
			<i>For Elevated Installation >25' To 30', Add</i>	3.98	
			<i>For Elevated Installation >30' To 35', Add</i>	4.55	
			<i>For Elevated Installation >35' To 40', Add</i>	5.69	
			<i>For Elevated Installation >40', Add</i>	6.26	
			<i>For Work In Restricted Working Space, Add</i>	3.41	
26 05 33 13-1169	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	57.06	5.69
			<i>For Elevated Installation >10' To 15', Add</i>	1.14	
			<i>For Elevated Installation >15' To 20', Add</i>	2.28	
			<i>For Elevated Installation >20' To 25', Add</i>	2.85	
			<i>For Elevated Installation >25' To 30', Add</i>	3.98	
			<i>For Elevated Installation >30' To 35', Add</i>	4.55	
			<i>For Elevated Installation >35' To 40', Add</i>	5.69	
			<i>For Elevated Installation >40', Add</i>	6.26	
			<i>For Work In Restricted Working Space, Add</i>	3.41	
26 05 33 13-1170	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	271.49	8.13
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.07	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
26 05 33 13-1171	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover.....	241.63	8.13
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.07	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	4.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1172				Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies <small>(26 05 33 13-0802)</small>		
				Note: Includes covers.		
26 05 33 13-1173	EA			1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	298.34	51.20
				For Elevated Installation >10' To 15', Add	10.24	
				For Elevated Installation >15' To 20', Add	20.48	
				For Elevated Installation >20' To 25', Add	25.60	
				For Elevated Installation >25' To 30', Add	35.84	
				For Elevated Installation >30' To 35', Add	40.96	
				For Elevated Installation >35' To 40', Add	51.20	
				For Elevated Installation >40', Add	56.31	
				For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1174	EA			1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	335.73	59.32
				For Elevated Installation >10' To 15', Add	11.86	
				For Elevated Installation >15' To 20', Add	23.73	
				For Elevated Installation >20' To 25', Add	29.66	
				For Elevated Installation >25' To 30', Add	41.52	
				For Elevated Installation >30' To 35', Add	47.46	
				For Elevated Installation >35' To 40', Add	59.32	
				For Elevated Installation >40', Add	65.25	
				For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1175	EA			1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	457.75	65.01
				For Elevated Installation >10' To 15', Add	13.00	
				For Elevated Installation >15' To 20', Add	26.00	
				For Elevated Installation >20' To 25', Add	32.51	
				For Elevated Installation >25' To 30', Add	45.51	
				For Elevated Installation >30' To 35', Add	52.01	
				For Elevated Installation >35' To 40', Add	65.01	
				For Elevated Installation >40', Add	71.51	
				For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1176	EA			2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	545.63	78.01
				For Elevated Installation >10' To 15', Add	15.60	
				For Elevated Installation >15' To 20', Add	31.20	
				For Elevated Installation >20' To 25', Add	39.01	
				For Elevated Installation >25' To 30', Add	54.61	
				For Elevated Installation >30' To 35', Add	62.41	
				For Elevated Installation >35' To 40', Add	78.01	
				For Elevated Installation >40', Add	85.81	
				For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1177	EA			2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	787.22	109.70
				For Elevated Installation >10' To 15', Add	21.94	
				For Elevated Installation >15' To 20', Add	43.88	
				For Elevated Installation >20' To 25', Add	54.85	
				For Elevated Installation >25' To 30', Add	76.79	
				For Elevated Installation >30' To 35', Add	87.76	
				For Elevated Installation >35' To 40', Add	109.70	
				For Elevated Installation >40', Add	120.67	
				For Work In Restricted Working Space, Add	65.82	
26 05 33 13-1178	EA			3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	996.02	146.27
				For Elevated Installation >10' To 15', Add	29.25	
				For Elevated Installation >15' To 20', Add	58.51	
				For Elevated Installation >20' To 25', Add	73.14	
				For Elevated Installation >25' To 30', Add	102.39	
				For Elevated Installation >30' To 35', Add	117.02	
				For Elevated Installation >35' To 40', Add	146.27	
				For Elevated Installation >40', Add	160.90	
				For Work In Restricted Working Space, Add	87.76	
26 05 33 13-1179	EA			3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,449.11	182.83
				For Elevated Installation >10' To 15', Add	36.57	
				For Elevated Installation >15' To 20', Add	73.13	
				For Elevated Installation >20' To 25', Add	91.42	
				For Elevated Installation >25' To 30', Add	127.98	
				For Elevated Installation >30' To 35', Add	146.27	
				For Elevated Installation >35' To 40', Add	182.84	
				For Elevated Installation >40', Add	201.12	
				For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1180	EA			4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,796.62	222.65
				For Elevated Installation >10' To 15', Add	44.53	
				For Elevated Installation >15' To 20', Add	89.06	
				For Elevated Installation >20' To 25', Add	111.33	
				For Elevated Installation >25' To 30', Add	155.86	
				For Elevated Installation >30' To 35', Add	178.12	
				For Elevated Installation >35' To 40', Add	222.66	
				For Elevated Installation >40', Add	244.92	
				For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1181	EA			1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	298.34	51.20
				For Elevated Installation >10' To 15', Add	10.24	
				For Elevated Installation >15' To 20', Add	20.48	
				For Elevated Installation >20' To 25', Add	25.60	
				For Elevated Installation >25' To 30', Add	35.84	
				For Elevated Installation >30' To 35', Add	40.96	
				For Elevated Installation >35' To 40', Add	51.20	
				For Elevated Installation >40', Add	56.31	
				For Work In Restricted Working Space, Add	30.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1182 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	335.73	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1183 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	456.55	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1184 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	533.47	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1185 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	798.42	109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
26 05 33 13-1186 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,046.25	146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
26 05 33 13-1187 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,509.74	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1188 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,834.38	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1189 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	298.34	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1190 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	335.73	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1191 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 456.55		65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1192 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 533.47		78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1193 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 798.42		109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
26 05 33 13-1194 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 1,046.25		146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
26 05 33 13-1195 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 1,509.74		182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1196 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 1,834.38		222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1197 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body 298.34		51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1198 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body 335.73		59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1199 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body 457.75		65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1200 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	540.02	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1201 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	787.22	109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
26 05 33 13-1202 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	996.02	146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
26 05 33 13-1203 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,449.11	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1204 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,812.34	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1205 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers <small>(26 05 33 13-0802)</small>		
26 05 33 13-1206 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	142.28	7.32
For Elevated Installation >10' To 15', Add	1.46	
For Elevated Installation >15' To 20', Add	2.92	
For Elevated Installation >20' To 25', Add	3.66	
For Elevated Installation >25' To 30', Add	5.12	
For Elevated Installation >30' To 35', Add	5.85	
For Elevated Installation >35' To 40', Add	7.31	
For Elevated Installation >40', Add	8.04	
For Work In Restricted Working Space, Add	4.39	
26 05 33 13-1207 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	143.92	8.13
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Work In Restricted Working Space, Add	4.88	
26 05 33 13-1208 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	203.41	11.38
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.55	
For Elevated Installation >20' To 25', Add	5.69	
For Elevated Installation >25' To 30', Add	7.96	
For Elevated Installation >30' To 35', Add	9.10	
For Elevated Installation >35' To 40', Add	11.38	
For Elevated Installation >40', Add	12.51	
For Work In Restricted Working Space, Add	6.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1209 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	206.66	13.00
<i>For Elevated Installation >10' To 15', Add</i>	2.60	
<i>For Elevated Installation >15' To 20', Add</i>	5.20	
<i>For Elevated Installation >20' To 25', Add</i>	6.50	
<i>For Elevated Installation >25' To 30', Add</i>	9.10	
<i>For Elevated Installation >30' To 35', Add</i>	10.40	
<i>For Elevated Installation >35' To 40', Add</i>	13.00	
<i>For Elevated Installation >40', Add</i>	14.30	
<i>For Work In Restricted Working Space, Add</i>	7.80	
26 05 33 13-1210 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	358.71	15.43
<i>For Elevated Installation >10' To 15', Add</i>	3.09	
<i>For Elevated Installation >15' To 20', Add</i>	6.18	
<i>For Elevated Installation >20' To 25', Add</i>	7.72	
<i>For Elevated Installation >25' To 30', Add</i>	10.81	
<i>For Elevated Installation >30' To 35', Add</i>	12.35	
<i>For Elevated Installation >35' To 40', Add</i>	15.44	
<i>For Elevated Installation >40', Add</i>	16.98	
<i>For Work In Restricted Working Space, Add</i>	9.26	
26 05 33 13-1211 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	366.84	19.50
<i>For Elevated Installation >10' To 15', Add</i>	3.90	
<i>For Elevated Installation >15' To 20', Add</i>	7.80	
<i>For Elevated Installation >20' To 25', Add</i>	9.75	
<i>For Elevated Installation >25' To 30', Add</i>	13.65	
<i>For Elevated Installation >30' To 35', Add</i>	15.60	
<i>For Elevated Installation >35' To 40', Add</i>	19.51	
<i>For Elevated Installation >40', Add</i>	21.46	
<i>For Work In Restricted Working Space, Add</i>	11.70	
26 05 33 13-1212 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	550.03	21.94
<i>For Elevated Installation >10' To 15', Add</i>	4.39	
<i>For Elevated Installation >15' To 20', Add</i>	8.78	
<i>For Elevated Installation >20' To 25', Add</i>	10.97	
<i>For Elevated Installation >25' To 30', Add</i>	15.36	
<i>For Elevated Installation >30' To 35', Add</i>	17.55	
<i>For Elevated Installation >35' To 40', Add</i>	21.94	
<i>For Elevated Installation >40', Add</i>	24.13	
<i>For Work In Restricted Working Space, Add</i>	13.16	
26 05 33 13-1213 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	563.03	28.44
<i>For Elevated Installation >10' To 15', Add</i>	5.69	
<i>For Elevated Installation >15' To 20', Add</i>	11.38	
<i>For Elevated Installation >20' To 25', Add</i>	14.22	
<i>For Elevated Installation >25' To 30', Add</i>	19.91	
<i>For Elevated Installation >30' To 35', Add</i>	22.75	
<i>For Elevated Installation >35' To 40', Add</i>	28.44	
<i>For Elevated Installation >40', Add</i>	31.28	
<i>For Work In Restricted Working Space, Add</i>	17.06	
26 05 33 13-1214 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0802)</small>		
26 05 33 13-1215 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	247.61	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1216 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	292.95	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1217 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	347.11	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1218 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	426.86	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-1219 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	568.25	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-1220 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	782.92	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1221 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,115.56	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-1222 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,389.35	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-1223 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,942.33	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-1224 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,242.87	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-1225 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper <small>(26 05 33 13-0802)</small>		
26 05 33 13-1226 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	389.41	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1227 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	405.73	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1228 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	456.55	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1229 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	551.92	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1230 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	668.10	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1231 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	851.67	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1232 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,254.04	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1233 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,574.39	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-1234 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,002.07	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1235 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,507.44	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-1236 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0802)		
26 05 33 13-1237 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	82.83	9.75
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.75	
For Elevated Installation >40', Add	10.73	
For Work In Restricted Working Space, Add	5.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.85	
26 05 33 13-1238 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	90.37	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1239 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	99.86	14.62
For Elevated Installation >10' To 15', Add	2.93	
For Elevated Installation >15' To 20', Add	5.85	
For Elevated Installation >20' To 25', Add	7.32	
For Elevated Installation >25' To 30', Add	10.24	
For Elevated Installation >30' To 35', Add	11.70	
For Elevated Installation >35' To 40', Add	14.63	
For Elevated Installation >40', Add	16.09	
For Work In Restricted Working Space, Add	8.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 05 33 13-1240 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	113.43	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1241 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	151.27	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1242 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	184.12	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1243 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	262.13	28.44
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.38	
For Elevated Installation >20' To 25', Add	14.22	
For Elevated Installation >25' To 30', Add	19.91	
For Elevated Installation >30' To 35', Add	22.75	
For Elevated Installation >35' To 40', Add	28.44	
For Elevated Installation >40', Add	31.28	
For Work In Restricted Working Space, Add	17.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1244 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	342.57	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1245 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	435.41	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1246 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	548.30	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-1247 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	689.26	91.01
For Elevated Installation >10' To 15', Add	18.20	
For Elevated Installation >15' To 20', Add	36.40	
For Elevated Installation >20' To 25', Add	45.51	
For Elevated Installation >25' To 30', Add	63.71	
For Elevated Installation >30' To 35', Add	72.81	
For Elevated Installation >35' To 40', Add	91.01	
For Elevated Installation >40', Add	100.11	
For Work In Restricted Working Space, Add	54.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.61	
26 05 33 13-1248 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	1,039.54	137.33
For Elevated Installation >10' To 15', Add	27.47	
For Elevated Installation >15' To 20', Add	54.93	
For Elevated Installation >20' To 25', Add	68.67	
For Elevated Installation >25' To 30', Add	96.13	
For Elevated Installation >30' To 35', Add	109.86	
For Elevated Installation >35' To 40', Add	137.33	
For Elevated Installation >40', Add	151.06	
For Work In Restricted Working Space, Add	82.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.40	
26 05 33 13-1249 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0802)</small>		
26 05 33 13-1250 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	123.11	9.75
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.75	
For Elevated Installation >40', Add	10.73	
For Work In Restricted Working Space, Add	5.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.85	
26 05 33 13-1251 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	130.94	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1252 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	141.32	14.62
For Elevated Installation >10' To 15', Add	2.93	
For Elevated Installation >15' To 20', Add	5.85	
For Elevated Installation >20' To 25', Add	7.32	
For Elevated Installation >25' To 30', Add	10.24	
For Elevated Installation >30' To 35', Add	11.70	
For Elevated Installation >35' To 40', Add	14.63	
For Elevated Installation >40', Add	16.09	
For Work In Restricted Working Space, Add	8.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1253	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	161.78	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1254	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	174.10	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1255	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	196.83	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1256	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	297.81	28.44
			<i>For Elevated Installation >10' To 15', Add</i>	5.69	
			<i>For Elevated Installation >15' To 20', Add</i>	11.38	
			<i>For Elevated Installation >20' To 25', Add</i>	14.22	
			<i>For Elevated Installation >25' To 30', Add</i>	19.91	
			<i>For Elevated Installation >30' To 35', Add</i>	22.75	
			<i>For Elevated Installation >35' To 40', Add</i>	28.44	
			<i>For Elevated Installation >40', Add</i>	31.28	
			<i>For Work In Restricted Working Space, Add</i>	17.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.06	
26 05 33 13-1257	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	357.95	38.20
			<i>For Elevated Installation >10' To 15', Add</i>	7.64	
			<i>For Elevated Installation >15' To 20', Add</i>	15.28	
			<i>For Elevated Installation >20' To 25', Add</i>	19.10	
			<i>For Elevated Installation >25' To 30', Add</i>	26.73	
			<i>For Elevated Installation >30' To 35', Add</i>	30.55	
			<i>For Elevated Installation >35' To 40', Add</i>	38.19	
			<i>For Elevated Installation >40', Add</i>	42.01	
			<i>For Work In Restricted Working Space, Add</i>	22.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	
26 05 33 13-1258	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	438.74	43.07
			<i>For Elevated Installation >10' To 15', Add</i>	8.61	
			<i>For Elevated Installation >15' To 20', Add</i>	17.23	
			<i>For Elevated Installation >20' To 25', Add</i>	21.53	
			<i>For Elevated Installation >25' To 30', Add</i>	30.15	
			<i>For Elevated Installation >30' To 35', Add</i>	34.45	
			<i>For Elevated Installation >35' To 40', Add</i>	43.07	
			<i>For Elevated Installation >40', Add</i>	47.37	
			<i>For Work In Restricted Working Space, Add</i>	25.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1259	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	569.75	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-1260	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	887.67	91.01
			<i>For Elevated Installation >10' To 15', Add</i>	18.20	
			<i>For Elevated Installation >15' To 20', Add</i>	36.40	
			<i>For Elevated Installation >20' To 25', Add</i>	45.51	
			<i>For Elevated Installation >25' To 30', Add</i>	63.71	
			<i>For Elevated Installation >30' To 35', Add</i>	72.81	
			<i>For Elevated Installation >35' To 40', Add</i>	91.01	
			<i>For Elevated Installation >40', Add</i>	100.11	
			<i>For Work In Restricted Working Space, Add</i>	54.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1261 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,448.42	137.33
<i>For Elevated Installation >10' To 15', Add</i>	27.47	
<i>For Elevated Installation >15' To 20', Add</i>	54.93	
<i>For Elevated Installation >20' To 25', Add</i>	68.67	
<i>For Elevated Installation >25' To 30', Add</i>	96.13	
<i>For Elevated Installation >30' To 35', Add</i>	109.86	
<i>For Elevated Installation >35' To 40', Add</i>	137.33	
<i>For Elevated Installation >40', Add</i>	151.06	
<i>For Work In Restricted Working Space, Add</i>	82.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.40	
26 05 33 13-1262 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0802)</small>		
26 05 33 13-1263 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	132.07	9.75
<i>For Elevated Installation >10' To 15', Add</i>	1.95	
<i>For Elevated Installation >15' To 20', Add</i>	3.90	
<i>For Elevated Installation >20' To 25', Add</i>	4.88	
<i>For Elevated Installation >25' To 30', Add</i>	6.83	
<i>For Elevated Installation >30' To 35', Add</i>	7.80	
<i>For Elevated Installation >35' To 40', Add</i>	9.75	
<i>For Elevated Installation >40', Add</i>	10.73	
<i>For Work In Restricted Working Space, Add</i>	5.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.85	
26 05 33 13-1264 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	139.44	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1265 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	150.21	14.62
<i>For Elevated Installation >10' To 15', Add</i>	2.93	
<i>For Elevated Installation >15' To 20', Add</i>	5.85	
<i>For Elevated Installation >20' To 25', Add</i>	7.32	
<i>For Elevated Installation >25' To 30', Add</i>	10.24	
<i>For Elevated Installation >30' To 35', Add</i>	11.70	
<i>For Elevated Installation >35' To 40', Add</i>	14.63	
<i>For Elevated Installation >40', Add</i>	16.09	
<i>For Work In Restricted Working Space, Add</i>	8.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.78	
26 05 33 13-1266 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	188.74	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1267 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	206.65	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1268 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	219.30	22.75
<i>For Elevated Installation >10' To 15', Add</i>	4.55	
<i>For Elevated Installation >15' To 20', Add</i>	9.10	
<i>For Elevated Installation >20' To 25', Add</i>	11.38	
<i>For Elevated Installation >25' To 30', Add</i>	15.93	
<i>For Elevated Installation >30' To 35', Add</i>	18.20	
<i>For Elevated Installation >35' To 40', Add</i>	22.75	
<i>For Elevated Installation >40', Add</i>	25.03	
<i>For Work In Restricted Working Space, Add</i>	13.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	

26 05 33 13-1269 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0802)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1270	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	102.78	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33	13-1271	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	113.66	25.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.08	
			<i>For Elevated Installation >20' To 25', Add</i>	12.60	
			<i>For Elevated Installation >25' To 30', Add</i>	17.63	
			<i>For Elevated Installation >30' To 35', Add</i>	20.15	
			<i>For Elevated Installation >35' To 40', Add</i>	25.19	
			<i>For Elevated Installation >40', Add</i>	27.71	
			<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33	13-1272	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	146.59	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33	13-1273	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	208.04	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33	13-1274	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	245.93	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33	13-1275	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	308.84	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33	13-1276	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	409.24	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33	13-1277	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	521.74	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33	13-1278	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	680.35	86.13
			<i>For Elevated Installation >10' To 15', Add</i>	17.23	
			<i>For Elevated Installation >15' To 20', Add</i>	34.45	
			<i>For Elevated Installation >20' To 25', Add</i>	43.07	
			<i>For Elevated Installation >25' To 30', Add</i>	60.29	
			<i>For Elevated Installation >30' To 35', Add</i>	68.91	
			<i>For Elevated Installation >35' To 40', Add</i>	86.14	
			<i>For Elevated Installation >40', Add</i>	94.75	
			<i>For Work In Restricted Working Space, Add</i>	51.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1279 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	876.65	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-1280 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,585.05	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-1281 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	2,001.59	274.66
<i>For Elevated Installation >10' To 15', Add</i>	54.93	
<i>For Elevated Installation >15' To 20', Add</i>	109.86	
<i>For Elevated Installation >20' To 25', Add</i>	137.33	
<i>For Elevated Installation >25' To 30', Add</i>	192.26	
<i>For Elevated Installation >30' To 35', Add</i>	219.73	
<i>For Elevated Installation >35' To 40', Add</i>	274.66	
<i>For Elevated Installation >40', Add</i>	302.13	
<i>For Work In Restricted Working Space, Add</i>	164.80	
26 05 33 13-1282 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0802)</small>		
26 05 33 13-1283 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	104.87	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1284 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	121.65	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1285 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	150.85	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1286 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	215.86	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1287 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	256.79	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1288 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	332.29	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1289	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	459.42	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1290	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	572.76	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1291	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	772.60	86.13
			<i>For Elevated Installation >10' To 15', Add</i>	17.23	
			<i>For Elevated Installation >15' To 20', Add</i>	34.45	
			<i>For Elevated Installation >20' To 25', Add</i>	43.07	
			<i>For Elevated Installation >25' To 30', Add</i>	60.29	
			<i>For Elevated Installation >30' To 35', Add</i>	68.91	
			<i>For Elevated Installation >35' To 40', Add</i>	86.14	
			<i>For Elevated Installation >40', Add</i>	94.75	
			<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-1292	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	968.56	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.71	
			<i>For Elevated Installation >35' To 40', Add</i>	112.14	
			<i>For Elevated Installation >40', Add</i>	123.35	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-1293	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,753.53	182.83
			<i>For Elevated Installation >10' To 15', Add</i>	36.57	
			<i>For Elevated Installation >15' To 20', Add</i>	73.13	
			<i>For Elevated Installation >20' To 25', Add</i>	91.42	
			<i>For Elevated Installation >25' To 30', Add</i>	127.98	
			<i>For Elevated Installation >30' To 35', Add</i>	146.27	
			<i>For Elevated Installation >35' To 40', Add</i>	182.84	
			<i>For Elevated Installation >40', Add</i>	201.12	
			<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-1294	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,273.63	274.66
			<i>For Elevated Installation >10' To 15', Add</i>	54.93	
			<i>For Elevated Installation >15' To 20', Add</i>	109.86	
			<i>For Elevated Installation >20' To 25', Add</i>	137.33	
			<i>For Elevated Installation >25' To 30', Add</i>	192.26	
			<i>For Elevated Installation >30' To 35', Add</i>	219.73	
			<i>For Elevated Installation >35' To 40', Add</i>	274.66	
			<i>For Elevated Installation >40', Add</i>	302.13	
			<i>For Work In Restricted Working Space, Add</i>	164.80	
26 05 33 13-1295			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings <small>(26 05 33 13-0802)</small>		
26 05 33 13-1296	EA		3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	55.04	6.50
			<i>For Elevated Installation >10' To 15', Add</i>	1.30	
			<i>For Elevated Installation >15' To 20', Add</i>	2.60	
			<i>For Elevated Installation >20' To 25', Add</i>	3.25	
			<i>For Elevated Installation >25' To 30', Add</i>	4.55	
			<i>For Elevated Installation >30' To 35', Add</i>	5.20	
			<i>For Elevated Installation >35' To 40', Add</i>	6.50	
			<i>For Elevated Installation >40', Add</i>	7.15	
			<i>For Work In Restricted Working Space, Add</i>	3.90	
26 05 33 13-1297	EA		1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	60.83	8.13
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.07	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
26 05 33 13-1298	EA		1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	68.68	8.13
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.07	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	4.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1299 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	84.38	8.94
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.47	
For Elevated Installation >25' To 30', Add	6.26	
For Elevated Installation >30' To 35', Add	7.15	
For Elevated Installation >35' To 40', Add	8.94	
For Elevated Installation >40', Add	9.83	
For Work In Restricted Working Space, Add	5.36	
26 05 33 13-1300 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	88.91	8.94
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.47	
For Elevated Installation >25' To 30', Add	6.26	
For Elevated Installation >30' To 35', Add	7.15	
For Elevated Installation >35' To 40', Add	8.94	
For Elevated Installation >40', Add	9.83	
For Work In Restricted Working Space, Add	5.36	
26 05 33 13-1301 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	77.64	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
26 05 33 13-1302 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	87.76	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
26 05 33 13-1303 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	133.24	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
26 05 33 13-1304 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	148.30	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
26 05 33 13-1305 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	144.38	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
26 05 33 13-1306 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	151.67	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
26 05 33 13-1307 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	170.02	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1308	EA		2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	169.97	14.62
			<i>For Elevated Installation >10' To 15', Add</i>	2.93	
			<i>For Elevated Installation >15' To 20', Add</i>	5.85	
			<i>For Elevated Installation >20' To 25', Add</i>	7.32	
			<i>For Elevated Installation >25' To 30', Add</i>	10.24	
			<i>For Elevated Installation >30' To 35', Add</i>	11.70	
			<i>For Elevated Installation >35' To 40', Add</i>	14.63	
			<i>For Elevated Installation >40', Add</i>	16.09	
			<i>For Work In Restricted Working Space, Add</i>	8.78	
26 05 33 13-1309	EA		3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	217.46	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1310	EA		3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	317.41	23.56
			<i>For Elevated Installation >10' To 15', Add</i>	4.71	
			<i>For Elevated Installation >15' To 20', Add</i>	9.43	
			<i>For Elevated Installation >20' To 25', Add</i>	11.78	
			<i>For Elevated Installation >25' To 30', Add</i>	16.50	
			<i>For Elevated Installation >30' To 35', Add</i>	18.85	
			<i>For Elevated Installation >35' To 40', Add</i>	23.57	
			<i>For Elevated Installation >40', Add</i>	25.92	
			<i>For Work In Restricted Working Space, Add</i>	14.14	
26 05 33 13-1311	EA		4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	425.11	32.50
			<i>For Elevated Installation >10' To 15', Add</i>	6.50	
			<i>For Elevated Installation >15' To 20', Add</i>	13.00	
			<i>For Elevated Installation >20' To 25', Add</i>	16.26	
			<i>For Elevated Installation >25' To 30', Add</i>	22.76	
			<i>For Elevated Installation >30' To 35', Add</i>	26.01	
			<i>For Elevated Installation >35' To 40', Add</i>	32.51	
			<i>For Elevated Installation >40', Add</i>	35.76	
			<i>For Work In Restricted Working Space, Add</i>	19.51	
26 05 33 13-1312	EA		5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	533.37	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1313 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples <small>(26 05 33 13-0802)</small>					
26 05 33 13-1314	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.13	9.75
			<i>For Elevated Installation >10' To 15', Add</i>	1.95	
			<i>For Elevated Installation >15' To 20', Add</i>	3.90	
			<i>For Elevated Installation >20' To 25', Add</i>	4.88	
			<i>For Elevated Installation >25' To 30', Add</i>	6.83	
			<i>For Elevated Installation >30' To 35', Add</i>	7.80	
			<i>For Elevated Installation >35' To 40', Add</i>	9.75	
			<i>For Elevated Installation >40', Add</i>	10.73	
			<i>For Work In Restricted Working Space, Add</i>	5.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.85	
26 05 33 13-1315	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.33	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1316	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.83	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1317 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.06	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1318 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.70	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1319 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.02	10.56
<i>For Elevated Installation >10' To 15', Add</i>	2.11	
<i>For Elevated Installation >15' To 20', Add</i>	4.23	
<i>For Elevated Installation >20' To 25', Add</i>	5.28	
<i>For Elevated Installation >25' To 30', Add</i>	7.40	
<i>For Elevated Installation >30' To 35', Add</i>	8.45	
<i>For Elevated Installation >35' To 40', Add</i>	10.57	
<i>For Elevated Installation >40', Add</i>	11.62	
<i>For Work In Restricted Working Space, Add</i>	6.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1320 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.74	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1321 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.26	15.43
<i>For Elevated Installation >10' To 15', Add</i>	3.09	
<i>For Elevated Installation >15' To 20', Add</i>	6.18	
<i>For Elevated Installation >20' To 25', Add</i>	7.72	
<i>For Elevated Installation >25' To 30', Add</i>	10.81	
<i>For Elevated Installation >30' To 35', Add</i>	12.35	
<i>For Elevated Installation >35' To 40', Add</i>	15.44	
<i>For Elevated Installation >40', Add</i>	16.98	
<i>For Work In Restricted Working Space, Add</i>	9.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1322 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.63	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1323 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.48	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1324 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	73.55	22.75
<i>For Elevated Installation >10' To 15', Add</i>	4.55	
<i>For Elevated Installation >15' To 20', Add</i>	9.10	
<i>For Elevated Installation >20' To 25', Add</i>	11.38	
<i>For Elevated Installation >25' To 30', Add</i>	15.93	
<i>For Elevated Installation >30' To 35', Add</i>	18.20	
<i>For Elevated Installation >35' To 40', Add</i>	22.75	
<i>For Elevated Installation >40', Add</i>	25.03	
<i>For Work In Restricted Working Space, Add</i>	13.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1325	EA		1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.19	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1326	EA		3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.91	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1327	EA		1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.57	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1328	EA		1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.97	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1329	EA		1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	67.81	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1330	EA		2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	74.42	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1331	EA		1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.47	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1332	EA		3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.20	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1333 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.03	15.43
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.72	
For Elevated Installation >25' To 30', Add	10.81	
For Elevated Installation >30' To 35', Add	12.35	
For Elevated Installation >35' To 40', Add	15.44	
For Elevated Installation >40', Add	16.98	
For Work In Restricted Working Space, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-1334 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.37	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1335 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.36	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1336 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	77.12	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1337 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	105.43	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1338 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	137.78	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1339 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.64	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1340 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.51	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1341	EA		1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.37	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1342	EA		1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	64.76	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1343	EA		1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	70.90	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1344	EA		2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	79.81	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1345	EA		2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	107.81	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.81	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.10	
			<i>For Elevated Installation >35' To 40', Add</i>	27.63	
			<i>For Elevated Installation >40', Add</i>	30.39	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-1346	EA		3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	142.91	38.20
			<i>For Elevated Installation >10' To 15', Add</i>	7.64	
			<i>For Elevated Installation >15' To 20', Add</i>	15.28	
			<i>For Elevated Installation >20' To 25', Add</i>	19.10	
			<i>For Elevated Installation >25' To 30', Add</i>	26.73	
			<i>For Elevated Installation >30' To 35', Add</i>	30.55	
			<i>For Elevated Installation >35' To 40', Add</i>	38.19	
			<i>For Elevated Installation >40', Add</i>	42.01	
			<i>For Work In Restricted Working Space, Add</i>	22.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	
26 05 33 13-1347	EA		3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	169.10	43.07
			<i>For Elevated Installation >10' To 15', Add</i>	8.61	
			<i>For Elevated Installation >15' To 20', Add</i>	17.23	
			<i>For Elevated Installation >20' To 25', Add</i>	21.53	
			<i>For Elevated Installation >25' To 30', Add</i>	30.15	
			<i>For Elevated Installation >30' To 35', Add</i>	34.45	
			<i>For Elevated Installation >35' To 40', Add</i>	43.07	
			<i>For Elevated Installation >40', Add</i>	47.37	
			<i>For Work In Restricted Working Space, Add</i>	25.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1348	EA		4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	200.91	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1349 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.96	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1350 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.85	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1351 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.73	15.43
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.72	
For Elevated Installation >25' To 30', Add	10.81	
For Elevated Installation >30' To 35', Add	12.35	
For Elevated Installation >35' To 40', Add	15.44	
For Elevated Installation >40', Add	16.98	
For Work In Restricted Working Space, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-1352 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	65.41	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1353 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	71.57	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1354 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	81.28	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1355 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	117.30	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1356 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	150.59	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1357	EA		3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	170.74	43.07
			<i>For Elevated Installation >10' To 15', Add</i>	8.61	
			<i>For Elevated Installation >15' To 20', Add</i>	17.23	
			<i>For Elevated Installation >20' To 25', Add</i>	21.53	
			<i>For Elevated Installation >25' To 30', Add</i>	30.15	
			<i>For Elevated Installation >30' To 35', Add</i>	34.45	
			<i>For Elevated Installation >35' To 40', Add</i>	43.07	
			<i>For Elevated Installation >40', Add</i>	47.37	
			<i>For Work In Restricted Working Space, Add</i>	25.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1358	EA		4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	205.29	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-1359	EA		5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	299.29	77.19
			<i>For Elevated Installation >10' To 15', Add</i>	15.44	
			<i>For Elevated Installation >15' To 20', Add</i>	30.88	
			<i>For Elevated Installation >20' To 25', Add</i>	38.60	
			<i>For Elevated Installation >25' To 30', Add</i>	54.04	
			<i>For Elevated Installation >30' To 35', Add</i>	61.76	
			<i>For Elevated Installation >35' To 40', Add</i>	77.20	
			<i>For Elevated Installation >40', Add</i>	84.91	
			<i>For Work In Restricted Working Space, Add</i>	46.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 05 33 13-1360	EA		1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.56	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1361	EA		3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.45	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1362	EA		1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.38	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1363	EA		1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.62	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1364	EA		1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	73.02	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1365 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	82.75	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1366 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	126.93	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1367 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	160.80	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1368 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	179.94	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1369 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	220.80	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.03	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.85	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.67	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-1370 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	322.48	77.19
For Elevated Installation >10' To 15', Add	15.44	
For Elevated Installation >15' To 20', Add	30.88	
For Elevated Installation >20' To 25', Add	38.60	
For Elevated Installation >25' To 30', Add	54.04	
For Elevated Installation >30' To 35', Add	61.76	
For Elevated Installation >35' To 40', Add	77.20	
For Elevated Installation >40', Add	84.91	
For Work In Restricted Working Space, Add	46.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.32	
26 05 33 13-1371 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.50	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1372 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.36	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1373	EA		1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.82	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1374	EA		1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	66.93	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1375	EA		1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	75.95	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1376	EA		2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	89.92	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1377	EA		2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	138.78	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.81	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.10	
			<i>For Elevated Installation >35' To 40', Add</i>	27.63	
			<i>For Elevated Installation >40', Add</i>	30.39	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-1378	EA		3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	174.76	38.20
			<i>For Elevated Installation >10' To 15', Add</i>	7.64	
			<i>For Elevated Installation >15' To 20', Add</i>	15.28	
			<i>For Elevated Installation >20' To 25', Add</i>	19.10	
			<i>For Elevated Installation >25' To 30', Add</i>	26.73	
			<i>For Elevated Installation >30' To 35', Add</i>	30.55	
			<i>For Elevated Installation >35' To 40', Add</i>	38.19	
			<i>For Elevated Installation >40', Add</i>	42.01	
			<i>For Work In Restricted Working Space, Add</i>	22.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	
26 05 33 13-1379	EA		3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	202.96	43.07
			<i>For Elevated Installation >10' To 15', Add</i>	8.61	
			<i>For Elevated Installation >15' To 20', Add</i>	17.23	
			<i>For Elevated Installation >20' To 25', Add</i>	21.53	
			<i>For Elevated Installation >25' To 30', Add</i>	30.15	
			<i>For Elevated Installation >30' To 35', Add</i>	34.45	
			<i>For Elevated Installation >35' To 40', Add</i>	43.07	
			<i>For Elevated Installation >40', Add</i>	47.37	
			<i>For Work In Restricted Working Space, Add</i>	25.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1380	EA		4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	244.08	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1381 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	338.37	77.19
For Elevated Installation >10' To 15', Add	15.44	
For Elevated Installation >15' To 20', Add	30.88	
For Elevated Installation >20' To 25', Add	38.60	
For Elevated Installation >25' To 30', Add	54.04	
For Elevated Installation >30' To 35', Add	61.76	
For Elevated Installation >35' To 40', Add	77.20	
For Elevated Installation >40', Add	84.91	
For Work In Restricted Working Space, Add	46.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.32	
26 05 33 13-1382 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.48	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1383 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	50.33	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1384 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.24	15.43
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.72	
For Elevated Installation >25' To 30', Add	10.81	
For Elevated Installation >30' To 35', Add	12.35	
For Elevated Installation >35' To 40', Add	15.44	
For Elevated Installation >40', Add	16.98	
For Work In Restricted Working Space, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-1385 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	71.27	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1386 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	82.94	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1387 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	100.47	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1388 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	151.30	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1389	EA		3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	192.66	38.20
			<i>For Elevated Installation >10' To 15', Add</i>	7.64	
			<i>For Elevated Installation >15' To 20', Add</i>	15.28	
			<i>For Elevated Installation >20' To 25', Add</i>	19.10	
			<i>For Elevated Installation >25' To 30', Add</i>	26.73	
			<i>For Elevated Installation >30' To 35', Add</i>	30.55	
			<i>For Elevated Installation >35' To 40', Add</i>	38.19	
			<i>For Elevated Installation >40', Add</i>	42.01	
			<i>For Work In Restricted Working Space, Add</i>	22.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	
26 05 33 13-1390	EA		3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	227.13	43.07
			<i>For Elevated Installation >10' To 15', Add</i>	8.61	
			<i>For Elevated Installation >15' To 20', Add</i>	17.23	
			<i>For Elevated Installation >20' To 25', Add</i>	21.53	
			<i>For Elevated Installation >25' To 30', Add</i>	30.15	
			<i>For Elevated Installation >30' To 35', Add</i>	34.45	
			<i>For Elevated Installation >35' To 40', Add</i>	43.07	
			<i>For Elevated Installation >40', Add</i>	47.37	
			<i>For Work In Restricted Working Space, Add</i>	25.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1391	EA		4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	284.82	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-1392	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	370.09	77.19
			<i>For Elevated Installation >10' To 15', Add</i>	15.44	
			<i>For Elevated Installation >15' To 20', Add</i>	30.88	
			<i>For Elevated Installation >20' To 25', Add</i>	38.60	
			<i>For Elevated Installation >25' To 30', Add</i>	54.04	
			<i>For Elevated Installation >30' To 35', Add</i>	61.76	
			<i>For Elevated Installation >35' To 40', Add</i>	77.20	
			<i>For Elevated Installation >40', Add</i>	84.91	
			<i>For Work In Restricted Working Space, Add</i>	46.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 05 33 13-1393	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.50	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1394	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	51.46	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1395	EA		1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	62.86	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1396	EA		1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	78.39	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1397 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	91.39	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1398 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	108.95	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1399 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	168.01	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1400 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	219.48	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1401 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	241.97	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1402 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	297.32	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.03	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.85	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.67	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-1403 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	374.61	77.19
For Elevated Installation >10' To 15', Add	15.44	
For Elevated Installation >15' To 20', Add	30.88	
For Elevated Installation >20' To 25', Add	38.60	
For Elevated Installation >25' To 30', Add	54.04	
For Elevated Installation >30' To 35', Add	61.76	
For Elevated Installation >35' To 40', Add	77.20	
For Elevated Installation >40', Add	84.91	
For Work In Restricted Working Space, Add	46.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.32	
26 05 33 13-1404 Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1405 Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1404)</small>		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1406 LF 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.28	2.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.94	
For Work In Restricted Working Space, Add	1.88	
26 05 33 13-1407 LF 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.25	2.75
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.03	
For Work In Restricted Working Space, Add	2.06	
26 05 33 13-1408 LF 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.45	3.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.13	
For Work In Restricted Working Space, Add	2.25	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1409	LF		1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.69 1.22 2.44	3.25
26 05 33 13-1410	LF		1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	11.93 1.31 2.63	3.50
26 05 33 13-1411	LF		2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	14.25 1.50 3.00	4.00
26 05 33 13-1412	LF		2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.21 1.88 3.75	5.00
26 05 33 13-1413	LF		3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.82 2.25 4.50	6.00
26 05 33 13-1414	LF		3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	29.33 2.81 5.63	7.50
26 05 33 13-1415	LF		4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	36.29 3.56 7.13	9.50
26 05 33 13-1416	LF		5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	47.95 4.50 9.00	12.00
26 05 33 13-1417	LF		6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	61.11 5.63 11.25	15.00
26 05 33 13-1418 Aluminum 90 Degree Elbows <small>(26 05 33 13-1404)</small>					
26 05 33 13-1419	EA		1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	43.43 9.75	13.00
26 05 33 13-1420	EA		1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.24 11.06	14.75
26 05 33 13-1421	EA		1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	65.61 12.75	17.00
26 05 33 13-1422	EA		2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.77 14.63	19.50
26 05 33 13-1423	EA		2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	116.69 17.81	23.75
26 05 33 13-1424	EA		3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.41 23.06	30.75
26 05 33 13-1425	EA		3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	224.33 25.88	34.51
26 05 33 13-1426	EA		4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	271.85 32.44	43.26
26 05 33 13-1427	EA		5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	660.34 52.88	70.51
26 05 33 13-1428	EA		6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	934.78 79.51	106.01
26 05 33 13-1429 Aluminum Bushing Set With Locknut <small>(26 05 33 13-1404)</small>					
26 05 33 13-1430	EA		1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.33 3.75 3.75	5.00
26 05 33 13-1431	EA		3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.61 4.88 4.88	6.50
26 05 33 13-1432	EA		1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.54 6.00 6.00	8.00
26 05 33 13-1433	EA		1-1/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.10 6.75 6.75	9.00
26 05 33 13-1434	EA		1-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.27 8.25 8.25	11.00
26 05 33 13-1435	EA		2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.39 9.94 9.94	13.25
26 05 33 13-1436	EA		2-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.97 11.81 11.81	15.76
26 05 33 13-1437	EA		3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.84 13.50 13.50	18.00
26 05 33 13-1438	EA		3-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.84 14.63 14.63	19.50
26 05 33 13-1439	EA		4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.41 15.75 15.75	21.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1440 EA 5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.14 21.00 21.00	28.00
26 05 33 13-1441 EA 6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.44 31.51 31.51	42.00
26 05 33 13-1442 Schedule 40 Polyvinyl Chloride (PVC) Conduit <small>(26 05 33 13-0058)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1443 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings <small>(26 05 33 13-1442)</small> Note: Includes field bend conduit up to 1".		
26 05 33 13-1444 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.23 0.40 0.70	1.81
26 05 33 13-1445 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.91 0.49 0.83	1.98
26 05 33 13-1446 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	7.21 0.64 1.08	2.31
26 05 33 13-1447 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	8.52 0.81 1.33	2.64
26 05 33 13-1448 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	9.99 0.95 1.57	3.08
26 05 33 13-1449 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	11.82 1.19 1.93	3.53
26 05 33 13-1450 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	15.26 1.72 2.72	4.19
26 05 33 13-1451 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	17.82 2.03 3.20	4.85
26 05 33 13-1452 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	21.61 2.54 3.98	5.74
26 05 33 13-1453 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.65 2.88 4.57	7.06
26 05 33 13-1454 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	36.48 4.16 6.57	9.93
26 05 33 13-1455 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	48.49 5.51 8.70	13.23
26 05 33 13-1456 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows <small>(26 05 33 13-1442)</small> See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1457 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	23.30 1.41 2.64	8.82
26 05 33 13-1458 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.74 1.58 2.94	9.71
26 05 33 13-1459 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	29.88 1.96 3.57	11.03
26 05 33 13-1460 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	38.63 2.60 4.70	14.11
26 05 33 13-1461 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	48.64 3.34 6.00	17.65
26 05 33 13-1462 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	61.40 4.32 7.71	22.06
26 05 33 13-1463 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	77.27 6.08 10.50	26.47
26 05 33 13-1464 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	95.36 8.40 14.08	30.88

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1465	EA		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	119.00 11.00 18.22	37.50
26 05 33 13-1466	EA		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	142.79 13.64 22.40	44.11
26 05 33 13-1467	EA		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	195.08 21.20 33.82	55.14
26 05 33 13-1468	EA		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	238.40 26.51 42.08	66.17
26 05 33 13-1469 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows <small>(26 05 33 13-1442)</small>					
26 05 33 13-1470	EA		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	23.30 1.41 2.64	8.82
26 05 33 13-1471	EA		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.65 1.56 2.91	9.71
26 05 33 13-1472	EA		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	29.76 1.93 3.52	11.03
26 05 33 13-1473	EA		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	38.27 2.51 4.57	14.11
26 05 33 13-1474	EA		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	47.83 3.14 5.71	17.65
26 05 33 13-1475	EA		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	60.96 4.21 7.55	22.06
26 05 33 13-1476	EA		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	76.45 5.88 10.22	26.47
26 05 33 13-1477	EA		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	94.33 8.14 13.72	30.88
26 05 33 13-1478	EA		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	116.12 10.28 17.21	37.50
26 05 33 13-1479	EA		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	140.32 13.02 21.54	44.11
26 05 33 13-1480	EA		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	191.88 20.40 32.70	55.14
26 05 33 13-1481	EA		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	228.85 24.13 38.74	66.17
26 05 33 13-1482 Polyvinyl Chloride (PVC) Conduit Female Adapters <small>(26 05 33 13-1442)</small>					
26 05 33 13-1483	EA		1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.01 4.63	6.18
26 05 33 13-1484	EA		3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.42 5.30	7.06
26 05 33 13-1485	EA		1" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.91 5.96	7.94
26 05 33 13-1486	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.52 6.62	8.82
26 05 33 13-1487	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.16 8.27	11.03
26 05 33 13-1488	EA		2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.34 9.92	13.23
26 05 33 13-1489	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.29 13.23	17.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1490 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	60.84	22.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.54	
26 05 33 13-1491 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	78.93	28.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.51	
26 05 33 13-1492 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	95.78	35.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.47	
26 05 33 13-1493 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	125.53	44.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.09	
26 05 33 13-1494 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	156.24	55.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.36	
26 05 33 13-1495 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug <small>(26 05 33 13-1442)</small>		
26 05 33 13-1496 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	17.89	5.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.97	
26 05 33 13-1497 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	20.42	6.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 05 33 13-1498 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	22.99	7.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1499 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	27.18	7.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.96	
26 05 33 13-1500 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	30.29	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-1501 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	36.17	10.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.61	
26 05 33 13-1502 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	40.53	11.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.60	
26 05 33 13-1503 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	45.97	13.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 05 33 13-1504 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	54.38	15.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 05 33 13-1505 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	60.20	17.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-1506 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	75.07	19.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.89	
26 05 33 13-1507 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	84.30	22.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.54	
26 05 33 13-1508 Polyvinyl Chloride (PVC) Conduit Terminal Adapters <small>(26 05 33 13-1442)</small>		
26 05 33 13-1509 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	17.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.09	
26 05 33 13-1510 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	21.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-1511 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	23.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.77	
26 05 33 13-1512 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	26.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.55	
26 05 33 13-1513 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	28.96	11.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.27	
26 05 33 13-1514 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	35.07	13.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 05 33 13-1515 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	47.74	17.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-1516 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	60.07	22.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.54	
26 05 33 13-1517 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	77.95	28.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.51	
26 05 33 13-1518 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	94.78	35.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.47	
26 05 33 13-1519 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	123.55	44.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.09	
26 05 33 13-1520 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	153.87	55.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.36	
26 05 33 13-1521 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover <small>(26 05 33 13-1442)</small>		
26 05 33 13-1522 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	49.44	17.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-1523 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	57.16	19.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.89	
26 05 33 13-1524 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	63.48	22.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.54	
26 05 33 13-1525 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover	78.08	26.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.85	
26 05 33 13-1526 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover	96.65	33.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.81	
26 05 33 13-1527 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	123.97	39.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.78	
26 05 33 13-1528 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover	203.08	44.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.09	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1529 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	217.34	48.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.40	
26 05 33 13-1530 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	237.08	55.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.36	
26 05 33 13-1531 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	265.60	63.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.97	
26 05 33 13-1532 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1442)</small>		
26 05 33 13-1533 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	69.60	25.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-1534 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	77.63	27.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-1535 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	84.09	30.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.50	
26 05 33 13-1536 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	103.90	35.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-1537 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	125.62	42.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-1538 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	153.30	50.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-1539 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1442)</small>		
26 05 33 13-1540 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	100.68	22.06
26 05 33 13-1541 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	112.86	26.47
26 05 33 13-1542 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	125.72	30.88
26 05 33 13-1543 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	137.90	35.29
26 05 33 13-1544 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	149.81	39.70
26 05 33 13-1545 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	163.88	44.11
26 05 33 13-1546 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	199.30	50.73
26 05 33 13-1547 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	237.42	57.35
26 05 33 13-1548 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	277.54	66.17
26 05 33 13-1549 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	329.57	77.20
26 05 33 13-1550 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	432.06	92.64
26 05 33 13-1551 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	567.10	119.10
26 05 33 13-1552 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1442)</small>		
26 05 33 13-1553 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap	13.42	4.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.31	
26 05 33 13-1554 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap	15.89	5.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-1555 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap	18.31	6.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 05 33 13-1556 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap	21.78	7.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-1557 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	25.28	7.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.96	
26 05 33 13-1558 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap	29.65	8.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-1559 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	41.46	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.61	
26 05 33 13-1560 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap	45.55	11.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-1561 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	57.55	12.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.59	
26 05 33 13-1562 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap	69.00	13.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.26	
26 05 33 13-1563 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap	79.99	15.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 05 33 13-1564 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap	100.53	17.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33 13-1565 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-1442)</small>		
26 05 33 13-1566 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	129.51	39.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.78	
26 05 33 13-1567 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121).....	127.25	26.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.85	
26 05 33 13-1568 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251).....	297.53	44.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.09	
26 05 33 13-1569 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401).....	567.33	63.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.97	
26 05 33 13-1570 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0058)</small>		
Note: Exposed installation. Excludes supporting strap, hanger and fastening.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1571				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1570)</small>		
			LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	7.20	1.81
			LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	7.98	1.98
			LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	8.98	2.29
			LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	9.99	2.64
			LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.36	3.08
			LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.56	3.53
			LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.96	4.19
			LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	17.50	4.85
			LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	20.37	5.74
			LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	24.36	7.06
			LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	33.20	9.93
			LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	43.57	13.23
26 05 33 13-1584				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>		
			EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	71.62	8.82
				For 24" Radius, Add	4.82	
				For 36" Radius, Add	7.16	
				For 48" Radius, Add	9.50	
			EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	79.75	9.71
				For 24" Radius, Add	5.37	
				For 36" Radius, Add	7.98	
				For 48" Radius, Add	10.58	
			EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	83.62	11.03
				For 24" Radius, Add	5.58	
				For 36" Radius, Add	8.36	
				For 48" Radius, Add	11.14	
			EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	91.89	14.11
				For 24" Radius, Add	6.01	
				For 36" Radius, Add	9.19	
				For 48" Radius, Add	12.37	
			EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	101.27	17.65
				For 24" Radius, Add	6.49	
				For 36" Radius, Add	10.13	
				For 48" Radius, Add	13.76	
			EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	120.18	22.06
				For 24" Radius, Add	7.64	
				For 36" Radius, Add	12.02	
				For 48" Radius, Add	16.40	
			EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	144.02	26.47
				For 24" Radius, Add	9.15	
				For 36" Radius, Add	14.40	
				For 48" Radius, Add	19.66	
			EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	170.62	30.88
				For 24" Radius, Add	10.87	
				For 36" Radius, Add	17.06	
				For 48" Radius, Add	23.26	
			EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	198.84	37.50
				For 24" Radius, Add	12.57	
				For 36" Radius, Add	19.88	
				For 48" Radius, Add	27.20	
			EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	227.07	44.11
				For 24" Radius, Add	14.27	
				For 36" Radius, Add	22.71	
				For 48" Radius, Add	31.14	
			EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	283.82	55.14
				For 24" Radius, Add	17.84	
				For 36" Radius, Add	28.38	
				For 48" Radius, Add	38.92	
			EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	347.90	66.17
				For 24" Radius, Add	21.96	
				For 36" Radius, Add	34.79	
				For 48" Radius, Add	47.62	
26 05 33 13-1597				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>		
			EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	62.70	8.82
				For 24" Radius, Add	4.15	
				For 36" Radius, Add	6.27	
				For 48" Radius, Add	8.39	
			EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	69.76	9.71
				For 24" Radius, Add	4.63	
				For 36" Radius, Add	6.98	
				For 48" Radius, Add	9.33	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1600	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	73.53	11.03
			<i>For 24" Radius, Add</i>	4.83	
			<i>For 36" Radius, Add</i>	7.35	
			<i>For 48" Radius, Add</i>	9.88	
26 05 33 13-1601	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	81.70	14.11
			<i>For 24" Radius, Add</i>	5.25	
			<i>For 36" Radius, Add</i>	8.17	
			<i>For 48" Radius, Add</i>	11.09	
26 05 33 13-1602	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	90.98	17.65
			<i>For 24" Radius, Add</i>	5.72	
			<i>For 36" Radius, Add</i>	9.10	
			<i>For 48" Radius, Add</i>	12.48	
26 05 33 13-1603	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	108.48	22.06
			<i>For 24" Radius, Add</i>	6.76	
			<i>For 36" Radius, Add</i>	10.85	
			<i>For 48" Radius, Add</i>	14.94	
26 05 33 13-1604	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	130.01	26.47
			<i>For 24" Radius, Add</i>	8.10	
			<i>For 36" Radius, Add</i>	13.00	
			<i>For 48" Radius, Add</i>	17.91	
26 05 33 13-1605	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	153.81	30.88
			<i>For 24" Radius, Add</i>	9.61	
			<i>For 36" Radius, Add</i>	15.38	
			<i>For 48" Radius, Add</i>	21.16	
26 05 33 13-1606	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	179.92	37.50
			<i>For 24" Radius, Add</i>	11.15	
			<i>For 36" Radius, Add</i>	17.99	
			<i>For 48" Radius, Add</i>	24.83	
26 05 33 13-1607	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	206.05	44.11
			<i>For 24" Radius, Add</i>	12.70	
			<i>For 36" Radius, Add</i>	20.61	
			<i>For 48" Radius, Add</i>	28.51	
26 05 33 13-1608	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	257.55	55.14
			<i>For 24" Radius, Add</i>	15.87	
			<i>For 36" Radius, Add</i>	25.76	
			<i>For 48" Radius, Add</i>	35.64	
26 05 33 13-1609	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	315.05	66.17
			<i>For 24" Radius, Add</i>	19.49	
			<i>For 36" Radius, Add</i>	31.51	
			<i>For 48" Radius, Add</i>	43.52	
26 05 33 13-1610 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>					
26 05 33 13-1611	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	58.01	7.94
			<i>For 24" Radius, Add</i>	3.85	
			<i>For 36" Radius, Add</i>	5.80	
			<i>For 48" Radius, Add</i>	7.75	
26 05 33 13-1612	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	64.57	8.73
			<i>For 24" Radius, Add</i>	4.30	
			<i>For 36" Radius, Add</i>	6.46	
			<i>For 48" Radius, Add</i>	8.62	
26 05 33 13-1613	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	67.97	9.93
			<i>For 24" Radius, Add</i>	4.48	
			<i>For 36" Radius, Add</i>	6.80	
			<i>For 48" Radius, Add</i>	9.12	
26 05 33 13-1614	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	75.34	12.70
			<i>For 24" Radius, Add</i>	4.86	
			<i>For 36" Radius, Add</i>	7.53	
			<i>For 48" Radius, Add</i>	10.21	
26 05 33 13-1615	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	83.71	15.89
			<i>For 24" Radius, Add</i>	5.29	
			<i>For 36" Radius, Add</i>	8.37	
			<i>For 48" Radius, Add</i>	11.46	
26 05 33 13-1616	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	99.71	19.85
			<i>For 24" Radius, Add</i>	6.24	
			<i>For 36" Radius, Add</i>	9.97	
			<i>For 48" Radius, Add</i>	13.70	
26 05 33 13-1617	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	119.51	23.82
			<i>For 24" Radius, Add</i>	7.47	
			<i>For 36" Radius, Add</i>	11.95	
			<i>For 48" Radius, Add</i>	16.43	
26 05 33 13-1618	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	141.42	27.80
			<i>For 24" Radius, Add</i>	8.87	
			<i>For 36" Radius, Add</i>	14.14	
			<i>For 48" Radius, Add</i>	19.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1619 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	165.30	33.74
<i>For 24" Radius, Add</i>	10.29	
<i>For 36" Radius, Add</i>	16.53	
<i>For 48" Radius, Add</i>	22.77	
26 05 33 13-1620 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	189.18	39.70
<i>For 24" Radius, Add</i>	11.71	
<i>For 36" Radius, Add</i>	18.92	
<i>For 48" Radius, Add</i>	26.13	
26 05 33 13-1621 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	236.47	49.63
<i>For 24" Radius, Add</i>	14.63	
<i>For 36" Radius, Add</i>	23.65	
<i>For 48" Radius, Add</i>	32.66	
26 05 33 13-1622 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	289.38	59.56
<i>For 24" Radius, Add</i>	17.98	
<i>For 36" Radius, Add</i>	28.94	
<i>For 48" Radius, Add</i>	39.89	
26 05 33 13-1623 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>		
26 05 33 13-1624 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	55.54	7.94
<i>For 24" Radius, Add</i>	3.67	
<i>For 36" Radius, Add</i>	5.55	
<i>For 48" Radius, Add</i>	7.44	
26 05 33 13-1625 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	61.79	8.73
<i>For 24" Radius, Add</i>	4.09	
<i>For 36" Radius, Add</i>	6.18	
<i>For 48" Radius, Add</i>	8.27	
26 05 33 13-1626 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	65.17	9.93
<i>For 24" Radius, Add</i>	4.27	
<i>For 36" Radius, Add</i>	6.52	
<i>For 48" Radius, Add</i>	8.77	
26 05 33 13-1627 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	72.51	12.70
<i>For 24" Radius, Add</i>	4.64	
<i>For 36" Radius, Add</i>	7.25	
<i>For 48" Radius, Add</i>	9.86	
26 05 33 13-1628 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	80.86	15.89
<i>For 24" Radius, Add</i>	5.07	
<i>For 36" Radius, Add</i>	8.09	
<i>For 48" Radius, Add</i>	11.10	
26 05 33 13-1629 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	96.46	19.85
<i>For 24" Radius, Add</i>	5.99	
<i>For 36" Radius, Add</i>	9.65	
<i>For 48" Radius, Add</i>	13.30	
26 05 33 13-1630 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	115.61	23.82
<i>For 24" Radius, Add</i>	7.18	
<i>For 36" Radius, Add</i>	11.56	
<i>For 48" Radius, Add</i>	15.94	
26 05 33 13-1631 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	136.74	27.80
<i>For 24" Radius, Add</i>	8.52	
<i>For 36" Radius, Add</i>	13.67	
<i>For 48" Radius, Add</i>	18.83	
26 05 33 13-1632 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	160.04	33.74
<i>For 24" Radius, Add</i>	9.89	
<i>For 36" Radius, Add</i>	16.00	
<i>For 48" Radius, Add</i>	22.11	
26 05 33 13-1633 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	183.34	39.70
<i>For 24" Radius, Add</i>	11.27	
<i>For 36" Radius, Add</i>	18.33	
<i>For 48" Radius, Add</i>	25.40	
26 05 33 13-1634 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	229.17	49.63
<i>For 24" Radius, Add</i>	14.09	
<i>For 36" Radius, Add</i>	22.92	
<i>For 48" Radius, Add</i>	31.75	
26 05 33 13-1635 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	280.26	59.56
<i>For 24" Radius, Add</i>	17.30	
<i>For 36" Radius, Add</i>	28.03	
<i>For 48" Radius, Add</i>	38.75	
26 05 33 13-1636 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-1570)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1637 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	35.96	6.18
26 05 33 13-1638 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	40.52	7.06
26 05 33 13-1639 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	42.95	7.94
26 05 33 13-1640 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	45.36	8.82
26 05 33 13-1641 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	51.33	11.03
26 05 33 13-1642 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	61.38	13.23
26 05 33 13-1643 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	78.17	17.65
26 05 33 13-1644 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	96.01	22.06
26 05 33 13-1645 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	117.67	28.68
26 05 33 13-1646 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	139.31	35.29
26 05 33 13-1647 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	174.15	44.11
26 05 33 13-1648 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	217.65	55.14

**26 05 33 13-1649 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius
Double Bell Couplings** (26 05 33 13-1570)

26 05 33 13-1650 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	27.02	6.18
26 05 33 13-1651 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	30.51	7.06
26 05 33 13-1652 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	32.85	7.94
26 05 33 13-1653 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	35.20	8.82
26 05 33 13-1654 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	40.84	11.03
26 05 33 13-1655 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	46.43	13.23
26 05 33 13-1656 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	60.13	17.65
26 05 33 13-1657 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	74.37	22.06
26 05 33 13-1658 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	93.32	28.68
26 05 33 13-1659 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	112.26	35.29
26 05 33 13-1660 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	140.36	44.11
26 05 33 13-1661 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	175.41	55.14

**26 05 33 13-1662 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve
Couplings** (26 05 33 13-1570)

26 05 33 13-1663 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	29.83	5.07
26 05 33 13-1664 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	33.65	7.06
26 05 33 13-1665 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	36.02	7.94
26 05 33 13-1666 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	38.33	8.82
26 05 33 13-1667 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	44.21	11.03
26 05 33 13-1668 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	52.89	13.23
26 05 33 13-1669 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	67.87	17.65
26 05 33 13-1670 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	83.65	22.06
26 05 33 13-1671 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	103.76	28.68
26 05 33 13-1672 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	123.86	35.29
26 05 33 13-1673 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	154.82	44.11
26 05 33 13-1674 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	193.53	55.14

**26 05 33 13-1675 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit
Expansion Joints** (26 05 33 13-1570)

26 05 33 13-1676 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	71.00	22.06
26 05 33 13-1677 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	83.76	26.47
26 05 33 13-1678 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	94.99	30.88
26 05 33 13-1679 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	106.13	35.29
26 05 33 13-1680 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	117.57	39.70
26 05 33 13-1681 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	132.09	44.11
26 05 33 13-1682 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	152.99	50.73
26 05 33 13-1683 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	174.76	57.35
26 05 33 13-1684 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	200.75	66.17
26 05 33 13-1685 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	232.24	77.20
26 05 33 13-1686 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	269.62	88.22
26 05 33 13-1687 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	309.45	99.26

**26 05 33 13-1688 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring
Expansion Joints** (26 05 33 13-1570)

26 05 33 13-1689 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	77.44	22.06
26 05 33 13-1690 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	90.99	26.47
26 05 33 13-1691 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	102.25	30.88
26 05 33 13-1692 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	113.46	35.29
26 05 33 13-1693 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	124.97	39.70
26 05 33 13-1694 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	140.54	44.11
26 05 33 13-1695 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	163.13	50.73
26 05 33 13-1696 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	186.93	57.35
26 05 33 13-1697 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	214.44	66.17
26 05 33 13-1698 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	247.46	77.20
26 05 33 13-1699 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	288.69	88.22
26 05 33 13-1700 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	333.29	99.26

26 05 33 13-1701 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters
(26 05 33 13-1570)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 05 33 13-1702 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	68.47	6.18
				26 05 33 13-1703 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	76.56	7.06
				26 05 33 13-1704 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	80.57	7.94
				26 05 33 13-1705 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	84.67	8.82
				26 05 33 13-1706 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	91.16	11.03
				26 05 33 13-1707 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	102.72	13.23
				26 05 33 13-1708 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	127.69	17.65
				26 05 33 13-1709 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	155.37	22.06
				26 05 33 13-1710 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	184.46	28.68
				26 05 33 13-1711 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	213.52	35.29
				26 05 33 13-1712 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	266.97	44.11
				26 05 33 13-1713 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	332.48	55.14
26 05 33 13-1714				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-1570)</small>		
				26 05 33 13-1715 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	88.64	22.06
				26 05 33 13-1716 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	103.40	26.47
				26 05 33 13-1717 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	123.19	30.88
				26 05 33 13-1718 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	150.23	35.29
				26 05 33 13-1719 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	184.27	39.70
				26 05 33 13-1720 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	236.28	44.11
				26 05 33 13-1721 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	325.08	50.73
				26 05 33 13-1722 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	389.20	57.35
				26 05 33 13-1723 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	467.76	66.17
				26 05 33 13-1724 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	551.84	77.20
				26 05 33 13-1725 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	646.81	88.22
				26 05 33 13-1726 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	971.76	99.26
26 05 33 13-1727				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <small>(26 05 33 13-1570)</small>		
				26 05 33 13-1728 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	73.77	17.65
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
				26 05 33 13-1729 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	85.00	19.85
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.89	
				26 05 33 13-1730 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	109.06	22.06
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.54	
				26 05 33 13-1731 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	132.78	26.47
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.85	
				26 05 33 13-1732 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	168.35	33.08
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.81	
				26 05 33 13-1733 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	226.14	39.70
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.78	
				26 05 33 13-1734 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	353.70	46.32
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.74	
				26 05 33 13-1735 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	449.55	52.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.71	
				26 05 33 13-1736 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	539.01	61.76
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
				26 05 33 13-1737 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	628.47	70.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94	
				26 05 33 13-1738 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	737.76	79.41
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.55	
				26 05 33 13-1739 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	835.15	88.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.17	
26 05 33 13-1740				Explosion Proof Conduit Fittings <small>(26 05 33 13-0058)</small>		
				Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1741				Explosion Proof Malleable Iron Conduit Unions <small>(26 05 33 13-1740)</small>		
				26 05 33 13-1742 EA 1/2" Explosion Proof Malleable Iron Conduit Union.....	46.25	10.42
				26 05 33 13-1743 EA 3/4" Explosion Proof Malleable Iron Conduit Union.....	56.60	11.51
				26 05 33 13-1744 EA 1" Explosion Proof Malleable Iron Conduit Union.....	88.88	15.34
				26 05 33 13-1745 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union.....	116.60	16.99
				26 05 33 13-1746 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union.....	146.54	20.83
				26 05 33 13-1747 EA 2" Explosion Proof Malleable Iron Conduit Union.....	181.98	24.11
				26 05 33 13-1748 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union.....	276.26	34.48

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1749	EA	3" Explosion Proof Malleable Iron Conduit Union	350.24	41.05
26 05 33	13-1750	EA	3-1/2" Explosion Proof Malleable Iron Conduit Union	581.89	49.26
26 05 33	13-1751	EA	4" Explosion Proof Malleable Iron Conduit Union	620.57	62.94
26 05 33	13-1752		Explosion Proof Malleable Iron Conduit Bodies <small>(26 05 33 13-1740)</small>		
26 05 33	13-1753	EA	1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	162.54	32.88
26 05 33	13-1754	EA	3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	183.27	37.27
26 05 33	13-1755	EA	1" Explosion Proof Malleable Iron Two Hub Conduit Body	213.84	41.11
26 05 33	13-1756	EA	1" x 1-1/2" Explosion Proof Malleable Iron Three Hub Conduit Body.....	184.61	41.11
26 05 33	13-1757	EA	3/4" Explosion Proof Malleable Iron Three Hub Conduit Body.....	220.05	49.33
26 05 33	13-1758	EA	1" Explosion Proof Malleable Iron Three Hub Conduit Body.....	259.83	56.45
26 05 33	13-1759		Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <small>(26 05 33 13-1740)</small>		
			Note: Includes sealing gasket and lock nut.		
26 05 33	13-1760	EA	1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	134.49	27.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
26 05 33	13-1761	EA	3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	138.24	30.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.02	
26 05 33	13-1762	EA	1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	150.88	33.43
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.07	
26 05 33	13-1763	EA	1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	193.37	41.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.83	
26 05 33	13-1764	EA	1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	245.58	48.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.17	
26 05 33	13-1765	EA	2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	313.48	54.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.11	
26 05 33	13-1766	EA	2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	447.55	82.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.57	
26 05 33	13-1767	EA	3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	565.42	102.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.17	
26 05 33	13-1768	EA	3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	789.00	113.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.97	
26 05 33	13-1769	EA	4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	1,011.22	123.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.36	
26 05 33	13-1770		Explosion Proof Flexible Conduit Couplings <small>(26 05 33 13-1740)</small>		
26 05 33	13-1771	EA	1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	342.43	12.60
26 05 33	13-1772	EA	3/4" x 15" Explosion Proof Flexible Conduit Coupling.....	447.37	14.25
26 05 33	13-1773		Conduit Installed Below Grade <small>(26 05 33 13-0057)</small>		
			Note: By direct burial in trench or in concrete slabs or duct banks. Includes warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33	13-1774		Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial <small>(26 05 33 13-1773)</small>		
26 05 33	13-1775		Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <small>(26 05 33 13-1774)</small>		
			Note: Includes field bend conduit up to 1".		
26 05 33	13-1776	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.30	
			<i>For Schedule 60, Add</i>	0.36	
			<i>For Schedule 80, Add</i>	0.61	
26 05 33	13-1777	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.81	
			<i>For Schedule 60, Add</i>	0.43	
			<i>For Schedule 80, Add</i>	0.72	
26 05 33	13-1778	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	5.56	
			<i>For Schedule 60, Add</i>	0.56	
			<i>For Schedule 80, Add</i>	0.91	
26 05 33	13-1779	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.31	
			<i>For Schedule 60, Add</i>	0.70	
			<i>For Schedule 80, Add</i>	1.11	
26 05 33	13-1780	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.96	
			<i>For Schedule 60, Add</i>	0.80	
			<i>For Schedule 80, Add</i>	1.26	
26 05 33	13-1781	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.96	
			<i>For Schedule 60, Add</i>	1.00	
			<i>For Schedule 80, Add</i>	1.55	
26 05 33	13-1782	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	10.02	
			<i>For Schedule 60, Add</i>	1.46	
			<i>For Schedule 80, Add</i>	2.20	
26 05 33	13-1783	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	11.21	
			<i>For Schedule 60, Add</i>	1.70	
			<i>For Schedule 80, Add</i>	2.54	
26 05 33	13-1784	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	13.07	
			<i>For Schedule 60, Add</i>	2.11	
			<i>For Schedule 80, Add</i>	3.13	
26 05 33	13-1785	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	14.07	
			<i>For Schedule 60, Add</i>	2.30	
			<i>For Schedule 80, Add</i>	3.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1786 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	18.01	
<i>For Schedule 60, Add</i>	3.23	
<i>For Schedule 80, Add</i>	4.72	
26 05 33 13-1787 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	22.03	
<i>For Schedule 60, Add</i>	4.18	
<i>For Schedule 80, Add</i>	6.06	
26 05 33 13-1788 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial <small>(26 05 33 13-1774)</small>		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1789 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	28.81	
<i>For Schedule 60, Add</i>	1.69	
<i>For Schedule 80, Add</i>	3.19	
26 05 33 13-1790 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	34.56	
<i>For Schedule 60, Add</i>	2.02	
<i>For Schedule 80, Add</i>	3.83	
26 05 33 13-1791 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	40.91	
<i>For Schedule 60, Add</i>	2.51	
<i>For Schedule 80, Add</i>	4.67	
26 05 33 13-1792 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	47.45	
<i>For Schedule 60, Add</i>	3.04	
<i>For Schedule 80, Add</i>	5.58	
26 05 33 13-1793 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	54.16	
<i>For Schedule 60, Add</i>	3.61	
<i>For Schedule 80, Add</i>	6.55	
26 05 33 13-1794 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	61.40	
<i>For Schedule 60, Add</i>	4.32	
<i>For Schedule 80, Add</i>	7.71	
26 05 33 13-1795 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	71.76	
<i>For Schedule 60, Add</i>	5.81	
<i>For Schedule 80, Add</i>	9.95	
26 05 33 13-1796 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	84.33	
<i>For Schedule 60, Add</i>	7.85	
<i>For Schedule 80, Add</i>	12.97	
26 05 33 13-1797 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	102.46	
<i>For Schedule 60, Add</i>	10.18	
<i>For Schedule 80, Add</i>	16.56	
26 05 33 13-1798 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	120.72	
<i>For Schedule 60, Add</i>	12.54	
<i>For Schedule 80, Add</i>	20.20	
26 05 33 13-1799 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	156.49	
<i>For Schedule 60, Add</i>	19.27	
<i>For Schedule 80, Add</i>	29.96	
26 05 33 13-1800 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	183.26	
<i>For Schedule 60, Add</i>	23.76	
<i>For Schedule 80, Add</i>	36.57	
26 05 33 13-1801 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial <small>(26 05 33 13-1774)</small>		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1802 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	28.81	
<i>For Schedule 60, Add</i>	1.69	
<i>For Schedule 80, Add</i>	3.19	
26 05 33 13-1803 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	34.47	
<i>For Schedule 60, Add</i>	2.00	
<i>For Schedule 80, Add</i>	3.79	
26 05 33 13-1804 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	40.79	
<i>For Schedule 60, Add</i>	2.48	
<i>For Schedule 80, Add</i>	4.63	
26 05 33 13-1805 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	47.09	
<i>For Schedule 60, Add</i>	2.95	
<i>For Schedule 80, Add</i>	5.45	
26 05 33 13-1806 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	53.35	
<i>For Schedule 60, Add</i>	3.41	
<i>For Schedule 80, Add</i>	6.27	
26 05 33 13-1807 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	60.96	
<i>For Schedule 60, Add</i>	4.21	
<i>For Schedule 80, Add</i>	7.55	
26 05 33 13-1808 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	70.94	
<i>For Schedule 60, Add</i>	5.60	
<i>For Schedule 80, Add</i>	9.66	
26 05 33 13-1809 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	83.30	
<i>For Schedule 60, Add</i>	7.59	
<i>For Schedule 80, Add</i>	12.61	
26 05 33 13-1810 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	99.58	
<i>For Schedule 60, Add</i>	9.46	
<i>For Schedule 80, Add</i>	15.55	
26 05 33 13-1811 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	118.25	
<i>For Schedule 60, Add</i>	11.92	
<i>For Schedule 80, Add</i>	19.33	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1812 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	153.29	
For Schedule 60, Add	18.47	
For Schedule 80, Add	28.84	
26 05 33 13-1813 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	173.71	
For Schedule 60, Add	21.37	
For Schedule 80, Add	33.23	
26 05 33 13-1814 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial <small>(26 05 33 13-1774)</small>		
26 05 33 13-1815 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	16.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 05 33 13-1816 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	18.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1817 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	20.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.96	
26 05 33 13-1818 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	23.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-1819 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	25.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.28	
26 05 33 13-1820 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	28.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.94	
26 05 33 13-1821 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	33.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.93	
26 05 33 13-1822 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	38.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 05 33 13-1823 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	45.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 05 33 13-1824 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	51.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-1825 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	64.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.89	
26 05 33 13-1826 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	73.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.54	
26 05 33 13-1827 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial <small>(26 05 33 13-1774)</small>		
26 05 33 13-1828 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	17.89	
26 05 33 13-1829 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	20.42	
26 05 33 13-1830 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	22.99	
26 05 33 13-1831 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	29.39	
26 05 33 13-1832 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	32.49	
26 05 33 13-1833 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	36.17	
26 05 33 13-1834 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	40.53	
26 05 33 13-1835 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	45.97	
26 05 33 13-1836 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	54.38	
26 05 33 13-1837 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	60.20	
26 05 33 13-1838 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	75.07	
26 05 33 13-1839 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	84.30	
26 05 33 13-1840 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial <small>(26 05 33 13-1774)</small>		
26 05 33 13-1841 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	15.91	
26 05 33 13-1842 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	18.42	
26 05 33 13-1843 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	20.78	
26 05 33 13-1844 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	23.30	
26 05 33 13-1845 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	25.65	
26 05 33 13-1846 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	28.46	
26 05 33 13-1847 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	33.41	
26 05 33 13-1848 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	38.01	
26 05 33 13-1849 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	44.86	
26 05 33 13-1850 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	50.67	
26 05 33 13-1851 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	62.89	
26 05 33 13-1852 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	71.16	
26 05 33 13-1853 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1773)</small>		
Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		
26 05 33 13-1854 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1853)</small>		
Note: Includes field bending for conduit up to 1".		
26 05 33 13-1855 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	12.51	2.63
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.77	
For >1,000, Deduct	-1.08	
26 05 33 13-1856 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	14.03	3.25
For >250 To 500, Deduct	-0.51	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1857 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	17.20 -0.64 -1.07 -1.50	3.63
26 05 33 13-1858 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	20.71 -0.79 -1.30 -1.82	4.87
26 05 33 13-1859 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	24.29 -0.93 -1.54 -2.15	5.50
26 05 33 13-1860 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	30.73 -1.19 -1.96 -2.73	6.00
26 05 33 13-1861 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	44.49 -1.76 -2.87 -3.98	9.00
26 05 33 13-1862 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	57.47 -2.25 -3.69 -5.12	11.26
26 05 33 13-1863 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	70.96 -2.77 -4.54 -6.31	11.88
26 05 33 13-1864 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	84.31 -3.28 -5.39 -7.49	13.13
26 05 33 13-1865 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	130.46 -5.34 -8.60 -11.86	18.13
26 05 33 13-1866 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	173.68 -7.18 -11.53 -15.87	23.75

26 05 33 13-1867 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-1853)

26 05 33 13-1868 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.45	3.75
26 05 33 13-1869 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	16.24	5.00
26 05 33 13-1870 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.60	6.25
26 05 33 13-1871 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	23.19	6.88
26 05 33 13-1872 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	27.48	8.13
26 05 33 13-1873 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	35.17	9.38
26 05 33 13-1874 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	63.14	11.26
26 05 33 13-1875 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	80.62	15.63
26 05 33 13-1876 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	99.58	18.13
26 05 33 13-1877 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	124.05	25.01
26 05 33 13-1878 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	310.03	34.38
26 05 33 13-1879 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	308.27	19.37

26 05 33 13-1880 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-1853)

Note: 90, 45, or 30 degree.

26 05 33 13-1881 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	52.10	15.63
26 05 33 13-1882 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	60.41	19.37
26 05 33 13-1883 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	72.33	23.75
26 05 33 13-1884 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	85.51	27.50
26 05 33 13-1885 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	100.00	31.25
26 05 33 13-1886 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	121.07	34.38
26 05 33 13-1887 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	184.84	43.13
26 05 33 13-1888 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	275.03	58.76
26 05 33 13-1889 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	339.21	66.26
26 05 33 13-1890 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	391.01	86.26
26 05 33 13-1891 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	807.80	140.65

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1892 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,268.89	211.28
26 05 33 13-1893 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1894 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	121.48	23.75
26 05 33 13-1895 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	136.82	27.50
26 05 33 13-1896 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	156.18	31.25
26 05 33 13-1897 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	185.89	34.38
26 05 33 13-1898 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	258.20	43.13
26 05 33 13-1899 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1900 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	134.77	23.75
26 05 33 13-1901 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	158.78	27.50
26 05 33 13-1902 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	171.92	31.25
26 05 33 13-1903 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	220.23	34.38
26 05 33 13-1904 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	291.31	43.13
26 05 33 13-1905 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	373.22	58.76
26 05 33 13-1906 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1907 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	150.66	23.75
26 05 33 13-1908 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	170.22	27.50
26 05 33 13-1909 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	192.12	31.25
26 05 33 13-1910 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	231.62	34.38
26 05 33 13-1911 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	329.36	43.13
26 05 33 13-1912 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	417.89	58.76
26 05 33 13-1913 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	526.28	66.26
26 05 33 13-1914 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	594.81	86.26
26 05 33 13-1915 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1916 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	178.11	23.75
26 05 33 13-1917 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	197.06	27.50
26 05 33 13-1918 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	222.61	31.25
26 05 33 13-1919 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	275.51	34.38
26 05 33 13-1920 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	397.45	43.13
26 05 33 13-1921 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	493.57	58.76
26 05 33 13-1922 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	572.48	66.26
26 05 33 13-1923 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	679.64	86.26
26 05 33 13-1924 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1925 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	199.47	23.75
26 05 33 13-1926 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	222.06	27.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1927 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	252.61	31.25
26 05 33 13-1928 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	313.72	34.38
26 05 33 13-1929 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	434.60	43.13
26 05 33 13-1930 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	554.10	58.76
26 05 33 13-1931 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	684.83	66.26
26 05 33 13-1932 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	757.51	86.26
26 05 33 13-1933 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,262.41	140.65
26 05 33 13-1934 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1935 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	227.40	23.75
26 05 33 13-1936 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	252.25	27.50
26 05 33 13-1937 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	285.50	31.25
26 05 33 13-1938 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	356.10	34.38
26 05 33 13-1939 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	496.51	43.13
26 05 33 13-1940 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	631.23	58.76
26 05 33 13-1941 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	741.13	66.26
26 05 33 13-1942 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	858.04	86.26
26 05 33 13-1943 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,332.86	140.65
26 05 33 13-1944 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,825.58	211.28
26 05 33 13-1945 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1946 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	266.29	23.75
26 05 33 13-1947 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	279.17	27.50
26 05 33 13-1948 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	329.52	31.25
26 05 33 13-1949 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	415.10	34.38
26 05 33 13-1950 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	579.99	43.13
26 05 33 13-1951 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	735.20	58.76
26 05 33 13-1952 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	897.64	66.26
26 05 33 13-1953 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,053.60	86.26
26 05 33 13-1954 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,562.67	140.65
26 05 33 13-1955 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,931.07	211.28
26 05 33 13-1956 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1957 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	275.65	23.75
26 05 33 13-1958 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	324.70	27.50
26 05 33 13-1959 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	367.58	31.25
26 05 33 13-1960 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	432.84	34.38
26 05 33 13-1961 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	600.84	43.13
26 05 33 13-1962 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	767.17	58.76
26 05 33 13-1963 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	982.88	66.26
26 05 33 13-1964 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,097.95	86.26

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1965 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,624.40	140.65
26 05 33 13-1966 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,984.67	211.28
26 05 33 13-1967 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1968 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	93.40	15.63
26 05 33 13-1969 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	102.04	19.37
26 05 33 13-1970 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	132.34	23.75
26 05 33 13-1971 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	191.53	27.50
26 05 33 13-1972 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	227.18	31.25
26 05 33 13-1973 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	288.20	34.38
26 05 33 13-1974 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	383.36	43.13
26 05 33 13-1975 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	495.86	43.13
26 05 33 13-1976 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	640.60	66.26
26 05 33 13-1977 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	824.90	86.26
26 05 33 13-1978 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,500.66	140.65
26 05 33 13-1979 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,874.82	211.28
26 05 33 13-1980 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1981 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	95.49	15.63
26 05 33 13-1982 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	110.03	19.37
26 05 33 13-1983 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	136.60	23.75
26 05 33 13-1984 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	199.35	27.50
26 05 33 13-1985 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	238.04	31.25
26 05 33 13-1986 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	311.65	34.38
26 05 33 13-1987 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	433.54	43.13
26 05 33 13-1988 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	546.88	43.13
26 05 33 13-1989 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	732.85	66.26
26 05 33 13-1990 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	916.81	86.26
26 05 33 13-1991 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,669.14	140.65
26 05 33 13-1992 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,146.86	211.28
26 05 33 13-1993 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1994 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	32.63	7.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-1995 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.71	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-1996 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.70	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-1997 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	50.81	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-1998 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.32	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-1999 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.15	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2000 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.12	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2001 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.13	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2002 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.38	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2003 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.10	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2004 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.06	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2005 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.31	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2006 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.29	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2007 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.44	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2008 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.72	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2009 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.43	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2010 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.92	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2011 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.59	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2012 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.58	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2013 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.90	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2014 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.12	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2015 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.98	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2016 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.62	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2017 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	92.69	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2018 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	120.15	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2019 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.76	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2020 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.89	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2021 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.24	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2022 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.51	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2023 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.52	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2024 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	69.31	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2025 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.07	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2026 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.28	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2027 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	149.22	33.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2028 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	175.03	43.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-2029 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.08	8.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2030 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.23	9.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-2031 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.60	11.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-2032 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.16	13.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2033 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.19	15.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-2034 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.78	17.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-2035 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	104.56	21.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-2036 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	132.96	29.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-2037 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	150.86	33.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	
26 05 33 13-2038 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	179.41	43.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-2039 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	263.66	59.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63	
26 05 33 13-2040 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.68	8.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2041 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.83	9.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-2042 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.25	11.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-2043 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.37	13.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2044 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.64	15.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-2045 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.25	17.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-2046 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	114.19	21.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-2047 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	143.17	29.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-2048 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.06	33.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	
26 05 33 13-2049 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	194.92	43.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-2050 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	286.85	59.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63	
26 05 33 13-2051 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.62	8.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2052 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.74	9.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-2053 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.69	11.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-2054 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.68	13.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2055 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.57	15.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2056 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.42	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2057 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	126.04	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2058 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	157.13	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2059 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	183.08	33.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-2060 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	218.20	43.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-2061 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	302.74	59.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-2062 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.60	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2063 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.71	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2064 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.11	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2065 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.02	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2066 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	73.56	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2067 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	89.97	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2068 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	138.56	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2069 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	175.03	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2070 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	207.25	33.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-2071 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	258.94	43.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-2072 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	334.46	59.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-2073 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.62	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2074 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.84	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2075 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.73	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2076 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.14	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2077 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	82.01	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2078 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	98.45	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2079 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	155.27	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2080 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	201.85	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2081 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	222.09	33.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-2082 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	271.44	43.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-2083 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	338.98	59.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2084			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1773)</small> Note: Direct burial or encased application.		
26 05 33 13-2085			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2084)</small>		
26 05 33 13-2086	LF		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	6.27 1.08	1.43
26 05 33 13-2087	LF		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	6.88 1.16	1.54
26 05 33 13-2088	LF		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	7.33 1.24	1.65
26 05 33 13-2089	LF		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	7.78 1.32	1.76
26 05 33 13-2090	LF		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	8.33 1.41	1.87
26 05 33 13-2091	LF		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	8.70 1.49	1.98
26 05 33 13-2092	LF		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	9.72 1.57	2.09
26 05 33 13-2093	LF		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	10.89 1.66	2.20
26 05 33 13-2094	LF		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	11.83 1.74	2.31
26 05 33 13-2095	LF		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	12.78 1.82	2.42
26 05 33 13-2096	LF		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	14.73 1.90	2.53
26 05 33 13-2097	LF		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial <i>For Work In Restricted Working Space, Add</i>	17.11 1.99	2.64
26 05 33 13-2098			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-2084)</small>		
26 05 33 13-2099	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	77.13 8.27 5.10 7.71 10.33	11.03
26 05 33 13-2100	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	88.57 9.92 5.82 8.86 11.90	13.23
26 05 33 13-2101	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	94.65 11.58 6.13 9.47 12.80	15.44
26 05 33 13-2102	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	100.71 13.23 6.45 10.07 13.69	17.65
26 05 33 13-2103	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	106.79 14.89 6.77 10.68 14.59	19.85
26 05 33 13-2104	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	120.18 16.54 7.64 12.02 16.40	22.06
26 05 33 13-2105	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	138.51 18.20 8.87 13.85 18.83	24.26
26 05 33 13-2106	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial <i>For Work In Restricted Working Space, Add</i> <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	159.59 19.85 10.32 15.96 21.60	26.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2107 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	182.30	30.88
<i>For Work In Restricted Working Space, Add</i>	23.16	
<i>For 24" Radius, Add</i>	11.74	
<i>For 36" Radius, Add</i>	18.23	
<i>For 48" Radius, Add</i>	24.72	
26 05 33 13-2108 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	205.00	39.70
<i>For Work In Restricted Working Space, Add</i>	26.47	
<i>For 24" Radius, Add</i>	13.17	
<i>For 36" Radius, Add</i>	20.50	
<i>For 48" Radius, Add</i>	27.83	
26 05 33 13-2109 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	245.23	39.70
<i>For Work In Restricted Working Space, Add</i>	29.78	
<i>For 24" Radius, Add</i>	15.91	
<i>For 36" Radius, Add</i>	24.52	
<i>For 48" Radius, Add</i>	33.14	
26 05 33 13-2110 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	292.76	44.11
<i>For Work In Restricted Working Space, Add</i>	33.09	
<i>For 24" Radius, Add</i>	19.20	
<i>For 36" Radius, Add</i>	29.28	
<i>For 48" Radius, Add</i>	39.35	
26 05 33 13-2111 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-2084)</small>		
26 05 33 13-2112 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	35.96	6.18
<i>For Work In Restricted Working Space, Add</i>	4.63	
26 05 33 13-2113 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	40.52	7.06
<i>For Work In Restricted Working Space, Add</i>	5.30	
26 05 33 13-2114 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	42.95	7.94
<i>For Work In Restricted Working Space, Add</i>	5.96	
26 05 33 13-2115 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	45.36	8.82
<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2116 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	48.02	9.71
<i>For Work In Restricted Working Space, Add</i>	7.28	
26 05 33 13-2117 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	54.77	10.59
<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33 13-2118 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	63.84	11.91
<i>For Work In Restricted Working Space, Add</i>	8.93	
26 05 33 13-2119 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	73.95	13.23
<i>For Work In Restricted Working Space, Add</i>	9.92	
26 05 33 13-2120 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	84.58	15.44
<i>For Work In Restricted Working Space, Add</i>	11.58	
26 05 33 13-2121 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	95.20	17.65
<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33 13-2122 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	113.49	19.85
<i>For Work In Restricted Working Space, Add</i>	14.89	
26 05 33 13-2123 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	134.94	22.06
<i>For Work In Restricted Working Space, Add</i>	16.54	
26 05 33 13-2124 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-2084)</small>		
26 05 33 13-2125 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	27.02	6.18
<i>For Work In Restricted Working Space, Add</i>	4.63	
26 05 33 13-2126 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	30.51	7.06
<i>For Work In Restricted Working Space, Add</i>	5.30	
26 05 33 13-2127 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	32.85	7.94
<i>For Work In Restricted Working Space, Add</i>	5.96	
26 05 33 13-2128 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	35.20	8.82
<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2129 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	37.53	9.71
<i>For Work In Restricted Working Space, Add</i>	7.28	
26 05 33 13-2130 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	39.82	10.59
<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33 13-2131 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	45.80	11.91
<i>For Work In Restricted Working Space, Add</i>	8.93	
26 05 33 13-2132 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	52.31	13.23
<i>For Work In Restricted Working Space, Add</i>	9.92	
26 05 33 13-2133 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	60.23	15.44
<i>For Work In Restricted Working Space, Add</i>	11.58	
26 05 33 13-2134 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	68.15	17.65
<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33 13-2135 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	79.70	19.85
<i>For Work In Restricted Working Space, Add</i>	14.89	
26 05 33 13-2136 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	92.70	22.06
<i>For Work In Restricted Working Space, Add</i>	16.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2137			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-2084)</small>		
26 05 33 13-2138	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	23.21	3.53
			<i>For Work In Restricted Working Space, Add</i>	2.65	
26 05 33 13-2139	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	25.93	3.97
			<i>For Work In Restricted Working Space, Add</i>	2.98	
26 05 33 13-2140	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	27.20	4.41
			<i>For Work In Restricted Working Space, Add</i>	3.31	
26 05 33 13-2141	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	28.40	4.85
			<i>For Work In Restricted Working Space, Add</i>	3.64	
26 05 33 13-2142	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	29.87	5.30
			<i>For Work In Restricted Working Space, Add</i>	3.97	
26 05 33 13-2143	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	35.25	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.63	
26 05 33 13-2144	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	42.51	7.50
			<i>For Work In Restricted Working Space, Add</i>	5.63	
26 05 33 13-2145	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	50.57	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2146	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	59.64	11.03
			<i>For Work In Restricted Working Space, Add</i>	8.27	
26 05 33 13-2147	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	68.72	13.23
			<i>For Work In Restricted Working Space, Add</i>	9.92	
26 05 33 13-2148	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	83.13	15.44
			<i>For Work In Restricted Working Space, Add</i>	11.58	
26 05 33 13-2149	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	99.79	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33 13-2150			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-2084)</small>		
26 05 33 13-2151	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	71.00	22.06
			<i>For Work In Restricted Working Space, Add</i>	16.54	
26 05 33 13-2152	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	83.76	26.47
			<i>For Work In Restricted Working Space, Add</i>	19.85	
26 05 33 13-2153	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	94.99	30.88
			<i>For Work In Restricted Working Space, Add</i>	23.16	
26 05 33 13-2154	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	106.13	35.29
			<i>For Work In Restricted Working Space, Add</i>	26.47	
26 05 33 13-2155	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	112.05	37.50
			<i>For Work In Restricted Working Space, Add</i>	28.12	
26 05 33 13-2156	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	121.06	39.70
			<i>For Work In Restricted Working Space, Add</i>	29.78	
26 05 33 13-2157	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	130.93	41.91
			<i>For Work In Restricted Working Space, Add</i>	31.43	
26 05 33 13-2158	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	141.68	44.11
			<i>For Work In Restricted Working Space, Add</i>	33.09	
26 05 33 13-2159	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	151.12	46.32
			<i>For Work In Restricted Working Space, Add</i>	34.74	
26 05 33 13-2160	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	160.56	48.53
			<i>For Work In Restricted Working Space, Add</i>	36.40	
26 05 33 13-2161	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	175.88	50.73
			<i>For Work In Restricted Working Space, Add</i>	38.05	
26 05 33 13-2162	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	193.66	52.94
			<i>For Work In Restricted Working Space, Add</i>	39.71	
26 05 33 13-2163			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-2084)</small>		
26 05 33 13-2164	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	77.44	22.06
			<i>For Work In Restricted Working Space, Add</i>	16.54	
26 05 33 13-2165	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	90.99	26.47
			<i>For Work In Restricted Working Space, Add</i>	19.85	
26 05 33 13-2166	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	102.25	30.88
			<i>For Work In Restricted Working Space, Add</i>	23.16	
26 05 33 13-2167	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	113.46	35.29
			<i>For Work In Restricted Working Space, Add</i>	26.47	
26 05 33 13-2168	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	119.45	37.50
			<i>For Work In Restricted Working Space, Add</i>	28.12	
26 05 33 13-2169	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	129.51	39.70
			<i>For Work In Restricted Working Space, Add</i>	29.78	
26 05 33 13-2170	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	141.07	41.91
			<i>For Work In Restricted Working Space, Add</i>	31.43	
26 05 33 13-2171	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	153.85	44.11
			<i>For Work In Restricted Working Space, Add</i>	33.09	
26 05 33 13-2172	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	164.81	46.32
			<i>For Work In Restricted Working Space, Add</i>	34.74	
26 05 33 13-2173	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	175.78	48.53
			<i>For Work In Restricted Working Space, Add</i>	36.40	
26 05 33 13-2174	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	194.95	50.73
			<i>For Work In Restricted Working Space, Add</i>	38.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2175 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	217.50 39.71	52.94
26 05 33 13-2176 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-2084)</small>		
26 05 33 13-2177 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	68.47 4.63	6.18
26 05 33 13-2178 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	76.56 5.30	7.06
26 05 33 13-2179 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	80.57 5.96	7.94
26 05 33 13-2180 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	84.67 6.62	8.82
26 05 33 13-2181 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	87.85 7.28	9.71
26 05 33 13-2182 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	96.11 7.94	10.59
26 05 33 13-2183 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	113.36 8.93	11.91
26 05 33 13-2184 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	133.31 9.92	13.23
26 05 33 13-2185 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	151.37 11.58	15.44
26 05 33 13-2186 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	169.41 13.23	17.65
26 05 33 13-2187 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	206.31 14.89	19.85
26 05 33 13-2188 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	249.77 16.54	22.06
26 05 33 13-2189 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-2084)</small>		
26 05 33 13-2190 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	88.64 16.54	22.06
26 05 33 13-2191 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	103.40 19.85	26.47
26 05 33 13-2192 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	123.19 23.16	30.88
26 05 33 13-2193 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	150.23 26.47	35.29
26 05 33 13-2194 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	178.75 28.12	37.50
26 05 33 13-2195 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	225.25 29.78	39.70
26 05 33 13-2196 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	303.02 31.43	41.91
26 05 33 13-2197 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	356.12 33.09	44.11
26 05 33 13-2198 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	418.13 34.74	46.32
26 05 33 13-2199 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	480.16 36.40	48.53
26 05 33 13-2200 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	553.07 38.05	50.73
26 05 33 13-2201 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	855.97 39.71	52.94
26 05 33 13-2202 Spacers <small>(26 05 33 13-1773)</small> Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1773 for conduit.		
26 05 33 13-2203 EA 1" Base Spacers, Average 4" Wide, Direct Burial	11.61	
26 05 33 13-2204 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	12.48	
26 05 33 13-2205 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	13.82	
26 05 33 13-2206 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	14.88	
26 05 33 13-2207 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial	13.94	
26 05 33 13-2208 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	14.96	
26 05 33 13-2209 EA 2" Base Spacer, Average 4" Wide, Direct Burial	17.32	
26 05 33 13-2210 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial	16.07	
26 05 33 13-2211 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial	19.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2212	EA	2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	18.51	
26 05 33	13-2213	EA	3" Base Spacer, Average 4" Wide, Direct Burial	21.90	
26 05 33	13-2214	EA	3" Intermediate Spacers, Average 4" Wide, Direct Burial	20.91	
26 05 33	13-2215	EA	3-1/2" Base Spacer, Average 4" Wide, Direct Burial	23.74	
26 05 33	13-2216	EA	3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	22.69	
26 05 33	13-2217	EA	4" Base Spacer, Average 4" Wide, Direct Burial	24.45	
26 05 33	13-2218	EA	4" Intermediate Spacers, Average 4" Wide, Direct Burial	23.33	
26 05 33	13-2219	EA	5" Base Spacer, Average 4" Wide, Direct Burial	27.04	
26 05 33	13-2220	EA	5" Intermediate Spacers, Average 4" Wide, Direct Burial	25.71	
26 05 33	13-2221	EA	6" Base Spacer, Average 4" Wide, Direct Burial	30.46	
26 05 33	13-2222	EA	6" Intermediate Spacers, Average 4" Wide, Direct Burial	29.35	
26 05 33	13-2223		Conduit Field Bending <small>(26 05 33 13-0057)</small>		
26 05 33	13-2224		Metallic Conduit Field Bending <small>(26 05 33 13-2223)</small>		
			Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33	13-2225	EA	1-1/4" Metallic Conduit Field Bending	21.01	
26 05 33	13-2226	EA	1-1/2" Metallic Conduit Field Bending	28.01	
26 05 33	13-2227	EA	2" Metallic Conduit Field Bending	35.01	
26 05 33	13-2228	EA	2-1/2" Metallic Conduit Field Bending	49.02	
26 05 33	13-2229	EA	3" Metallic Conduit Field Bending	63.03	
26 05 33	13-2230	EA	3-1/2" Metallic Conduit Field Bending	77.04	
26 05 33	13-2231	EA	4" Metallic Conduit Field Bending	91.04	
26 05 33	13-2232	EA	5" Metallic Conduit Field Bending	112.05	
26 05 33	13-2233	EA	6" Metallic Conduit Field Bending	133.06	
26 05 33	13-2234		Plastic Conduit Field Bending <small>(26 05 33 13-2223)</small>		
			Note: For PVC conduits.		
26 05 33	13-2235	EA	1" Plastic Conduit Field Bending	32.22	
26 05 33	13-2236	EA	1-1/4" Plastic Conduit Field Bending	35.01	
26 05 33	13-2237	EA	1-1/2" Plastic Conduit Field Bending	42.02	
26 05 33	13-2238	EA	2" Plastic Conduit Field Bending	56.03	
26 05 33	13-2239	EA	2-1/2" Plastic Conduit Field Bending	70.04	
26 05 33	13-2240	EA	3" Plastic Conduit Field Bending	84.04	
26 05 33	13-2241	EA	3-1/2" Plastic Conduit Field Bending	98.05	
26 05 33	13-2242	EA	4" Plastic Conduit Field Bending	112.05	
26 05 33	13-2243	EA	5" Plastic Conduit Field Bending	126.06	
26 05 33	13-2244	EA	6" Plastic Conduit Field Bending	140.06	
26 05 33	13-2245		Cut And Thread Existing In-Place Threaded Conduit <small>(26 05 33 13-0057)</small>		
			Note: For use when connecting conduit to an existing in-place system.		
26 05 33	13-2246	EA	1/2", Cut And Thread Existing In-Place Threaded Conduit	41.11	
			<i>For Work In Restricted Working Space, Add</i>	12.33	
26 05 33	13-2247	EA	3/4", Cut And Thread Existing In-Place Threaded Conduit	45.21	
			<i>For Work In Restricted Working Space, Add</i>	13.56	
26 05 33	13-2248	EA	1", Cut And Thread Existing In-Place Threaded Conduit	49.33	
			<i>For Work In Restricted Working Space, Add</i>	14.80	
26 05 33	13-2249	EA	1-1/4", Cut And Thread Existing In-Place Threaded Conduit	53.44	
			<i>For Work In Restricted Working Space, Add</i>	16.03	
26 05 33	13-2250	EA	1-1/2", Cut And Thread Existing In-Place Threaded Conduit	56.18	
			<i>For Work In Restricted Working Space, Add</i>	16.85	
26 05 33	13-2251	EA	2", Cut And Thread Existing In-Place Threaded Conduit	58.92	
			<i>For Work In Restricted Working Space, Add</i>	17.68	
26 05 33	13-2252	EA	2-1/2", Cut And Thread Existing In-Place Threaded Conduit	61.66	
			<i>For Work In Restricted Working Space, Add</i>	18.50	
26 05 33	13-2253	EA	3", Cut And Thread Existing In-Place Threaded Conduit	64.40	
			<i>For Work In Restricted Working Space, Add</i>	19.32	
26 05 33	13-2254	EA	3-1/2", Cut And Thread Existing In-Place Threaded Conduit	65.77	
			<i>For Work In Restricted Working Space, Add</i>	19.73	
26 05 33	13-2255	EA	4", Cut And Thread Existing In-Place Threaded Conduit	67.14	
			<i>For Work In Restricted Working Space, Add</i>	20.14	
26 05 33	13-2256	EA	5", Cut And Thread Existing In-Place Threaded Conduit	69.89	
			<i>For Work In Restricted Working Space, Add</i>	20.97	
26 05 33	13-2257	EA	6", Cut And Thread Existing In-Place Threaded Conduit	72.63	
			<i>For Work In Restricted Working Space, Add</i>	21.79	
26 05 33	13-2258		Flexible Conduit <small>(26 05 33 13-0057)</small>		
26 05 33	13-2259		Flexible Liquid Tight Metallic Conduit And Connectors <small>(26 05 33 13-2258)</small>		
			Note: Steel inner core with PVC cover.		
26 05 33	13-2260		Flexible Liquid Tight Metallic Conduit <small>(26 05 33 13-2259)</small>		
26 05 33	13-2261	LF	3/8" Flexible Liquid Tight Metallic Conduit	4.75	1.50
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	1.13	
26 05 33	13-2262	LF	1/2" Flexible Liquid Tight Metallic Conduit	4.90	1.50
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	1.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2263 LF 3/4" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	6.56 0.75 1.50	2.00
26 05 33 13-2264 LF 1" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	7.35 0.75 1.50	2.00
26 05 33 13-2265 LF 1-1/4" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	9.45 0.94 1.88	2.50
26 05 33 13-2266 LF 1-1/2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	12.00 1.13 2.25	3.00
26 05 33 13-2267 LF 2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	15.82 1.50 3.00	4.00
26 05 33 13-2268 LF 2-1/2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	20.87 1.69 3.38	4.50
26 05 33 13-2269 LF 3" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	29.92 2.06 4.13	5.50
26 05 33 13-2270 LF 4" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	40.57 2.63 5.25	7.01
 26 05 33 13-2271 Straight Liquid Tight Connector <small>(26 05 33 13-2259)</small>		
26 05 33 13-2272 EA 3/8" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.85 3.00 3.00	4.00
26 05 33 13-2273 EA 1/2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.85 3.00 3.00	4.00
26 05 33 13-2274 EA 3/4" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35 3.38 3.38	4.50
26 05 33 13-2275 EA 1" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79 3.75 3.75	5.00
26 05 33 13-2276 EA 1-1/4" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.77 4.13 4.13	5.50
26 05 33 13-2277 EA 1-1/2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.73 4.50 4.50	6.00
26 05 33 13-2278 EA 2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.46 5.25 5.25	7.01
26 05 33 13-2279 EA 2-1/2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.26 6.75 6.75	9.00
26 05 33 13-2280 EA 3" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.78 7.13 7.13	9.50
26 05 33 13-2281 EA 4" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.02 10.50 10.50	14.00
 26 05 33 13-2282 90 Degree Angle Liquid Tight Connector <small>(26 05 33 13-2259)</small>		
26 05 33 13-2283 EA 3/8" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.51 4.13 4.13	5.50
26 05 33 13-2284 EA 1/2" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.13 4.13 4.13	5.50
26 05 33 13-2285 EA 3/4" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.47 4.50 4.50	6.00
26 05 33 13-2286 EA 1" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.26 5.25 5.25	7.01
26 05 33 13-2287 EA 1-1/4" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.95 5.63 5.63	7.50
26 05 33 13-2288 EA 1-1/2" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.84 6.00 6.00	8.00
26 05 33 13-2289 EA 2" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.57 6.75 6.75	9.00
26 05 33 13-2290 EA 2-1/2" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.24 7.13 7.13	9.50

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2291	EA	3" 90 Degree Angle Liquid Tight Connector.....	214.00	11.00
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33	13-2292	EA	4" 90 Degree Angle Liquid Tight Connector.....	297.64	17.50
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33	13-2293		45 Degree Angle Connector <small>(26 05 33 13-2259)</small>		
26 05 33	13-2294	EA	3/8" 45 Degree Angle Liquid Tight Connector.....	18.31	5.50
			<i>For Work In Restricted Working Space, Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33	13-2295	EA	1/2" 45 Degree Angle Liquid Tight Connector.....	18.45	5.50
			<i>For Work In Restricted Working Space, Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33	13-2296	EA	3/4" 45 Degree Angle Liquid Tight Connector.....	21.47	6.00
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33	13-2297	EA	1" 45 Degree Angle Liquid Tight Connector.....	30.93	7.01
			<i>For Work In Restricted Working Space, Add</i>	5.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33	13-2298	EA	1-1/4" 45 Degree Angle Liquid Tight Connector.....	34.86	7.50
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33	13-2299	EA	1-1/2" 45 Degree Angle Liquid Tight Connector.....	38.78	8.00
			<i>For Work In Restricted Working Space, Add</i>	6.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33	13-2300		Flexible Metallic Conduit And Connectors <small>(26 05 33 13-2258)</small>		
26 05 33	13-2301		Flexible Steel Conduit <small>(26 05 33 13-2300)</small>		
26 05 33	13-2302	LF	3/8" Flexible Metallic Conduit.....	4.59	1.64
			<i>For Flexible Aluminum Conduit, Add</i>	0.10	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.60	
			<i>For Installation In Metal Stud Wall, Add</i>	0.40	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.00	
			<i>For Work In Restricted Working Space, Add</i>	1.20	
26 05 33	13-2303	LF	1/2" Flexible Metallic Conduit.....	4.75	1.64
			<i>For Flexible Aluminum Conduit, Add</i>	0.11	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.62	
			<i>For Installation In Metal Stud Wall, Add</i>	0.41	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.03	
			<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 33	13-2304	LF	3/4" Flexible Metallic Conduit.....	5.32	2.18
			<i>For Flexible Aluminum Conduit, Add</i>	0.14	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.67	
			<i>For Installation In Metal Stud Wall, Add</i>	0.45	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.11	
			<i>For Work In Restricted Working Space, Add</i>	1.34	
26 05 33	13-2305	LF	1" Flexible Metallic Conduit.....	6.42	2.18
			<i>For Flexible Aluminum Conduit, Add</i>	0.27	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.72	
			<i>For Installation In Metal Stud Wall, Add</i>	0.48	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	1.44	
26 05 33	13-2306	LF	1-1/4" Flexible Metallic Conduit.....	7.18	2.74
			<i>For Flexible Aluminum Conduit, Add</i>	0.35	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.76	
			<i>For Installation In Metal Stud Wall, Add</i>	0.51	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.27	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
26 05 33	13-2307	LF	1-1/2" Flexible Metallic Conduit.....	8.99	3.29
			<i>For Flexible Aluminum Conduit, Add</i>	0.61	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.79	
			<i>For Installation In Metal Stud Wall, Add</i>	0.53	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.32	
			<i>For Work In Restricted Working Space, Add</i>	1.58	
26 05 33	13-2308	LF	2" Flexible Metallic Conduit.....	10.04	4.38
			<i>For Flexible Aluminum Conduit, Add</i>	0.75	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.82	
			<i>For Installation In Metal Stud Wall, Add</i>	0.55	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.37	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 33	13-2309	LF	2-1/2" Flexible Steel Conduit.....	12.36	4.93
			<i>For Flexible Aluminum Conduit, Add</i>	0.91	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.03	
			<i>For Installation In Metal Stud Wall, Add</i>	0.68	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.71	
			<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 33	13-2310	LF	3" Flexible Metallic Conduit.....	17.81	6.02
			<i>For Flexible Aluminum Conduit, Add</i>	1.58	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.23	
			<i>For Installation In Metal Stud Wall, Add</i>	0.82	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.05	
			<i>For Work In Restricted Working Space, Add</i>	2.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2311 LF 3-1/2" Flexible Metallic Conduit	21.68	6.56
For Flexible Aluminum Conduit, Add	2.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.44	
For Installation In Metal Stud Wall, Add	0.96	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.40	
For Work In Restricted Working Space, Add	2.87	
26 05 33 13-2312 LF 4" Flexible Metallic Conduit.....	24.90	7.67
For Flexible Aluminum Conduit, Add	2.30	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.64	
For Installation In Metal Stud Wall, Add	1.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.74	
For Work In Restricted Working Space, Add	3.28	
26 05 33 13-2313 Plain Squeeze Type Straight Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2314 EA 3/8" Flexible Straight Connectors, Plain.....	7.63	4.38
For Work In Restricted Working Space, Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.85	
26 05 33 13-2315 EA 1/2" Flexible Straight Connectors, Plain.....	9.18	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2316 EA 3/4" Flexible Straight Connectors, Plain.....	10.67	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2317 EA 1" Flexible Straight Connectors, Plain.....	16.34	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2318 EA 1-1/4" Flexible Straight Connectors, Plain	22.54	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2319 EA 1-1/2" Flexible Straight Connectors, Plain	29.39	9.31
For Work In Restricted Working Space, Add	5.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-2320 EA 2" Flexible Straight Connectors, Plain.....	37.99	9.31
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2321 EA 2-1/2" Flexible Straight Connectors, Plain	58.27	11.49
For Work In Restricted Working Space, Add	7.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.19	
26 05 33 13-2322 EA 3" Flexible Straight Connectors, Plain.....	74.95	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2323 EA 3-1/2" Flexible Straight Connectors, Plain	214.82	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2324 EA 4" Flexible Straight Connectors, Plain.....	267.02	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2325 Insulated Throat Squeeze Type Straight Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2326 EA 1/2" Flexible Straight Connectors, Insulated.....	9.98	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2327 EA 3/4" Flexible Straight Connectors, Insulated.....	11.73	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2328 EA 1" Flexible Straight Connectors, Insulated.....	17.78	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2329 EA 1-1/4" Flexible Straight Connectors, Insulated.....	25.18	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2330 EA 1-1/2" Flexible Straight Connectors, Insulated.....	34.08	8.21
For Work In Restricted Working Space, Add	5.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-2331 EA 2" Flexible Straight Connectors, Insulated.....	46.28	9.31
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2332 EA 2-1/2" Flexible Straight Connectors, Insulated.....	76.02	11.49
For Work In Restricted Working Space, Add	7.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.19	
26 05 33 13-2333 EA 3" Flexible Straight Connectors, Insulated.....	95.87	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2334 EA 3-1/2" Flexible Straight Connectors, Insulated.....	247.06	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2335 EA 4" Flexible Straight Connectors, Insulated.....	315.50	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2336 Plain Squeeze Type 90 Degree Connector <small>(26 05 33 13-2300)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2337 EA 3/8" Flexible 90 Degree Connector, Plain.....	10.57	5.47
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2338 EA 1/2" Flexible 90 Degree Connector, Plain.....	13.53	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2339 EA 3/4" Flexible 90 Degree Connector, Plain.....	17.12	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2340 EA 1" Flexible 90 Degree Connector, Plain.....	23.44	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2341 EA 1-1/4" Flexible 90 Degree Connector, Plain.....	34.94	8.21
For Work In Restricted Working Space, Add	4.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 05 33 13-2342 EA 1-1/2" Flexible 90 Degree Connector, Plain.....	52.88	9.58
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2343 EA 2" Flexible 90 Degree Connector, Plain.....	63.29	11.76
For Work In Restricted Working Space, Add	6.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98	
26 05 33 13-2344 EA 2-1/2" Flexible 90 Degree Connector, Plain.....	131.68	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2345 EA 3" Flexible 90 Degree Connector, Plain.....	167.74	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2346 EA 3-1/2" Flexible 90 Degree Connector, Plain.....	345.65	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2347 EA 4" Flexible 90 Degree Connector, Plain.....	610.95	20.52
For Work In Restricted Working Space, Add	12.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 33 13-2348 Insulated Throat Squeeze Type 90 Degree Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2349 EA 1/2" Flexible 90 Degree Connector, Insulated.....	14.64	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2350 EA 3/4" Flexible 90 Degree Connector, Insulated.....	18.50	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2351 EA 1" Flexible 90 Degree Connector, Insulated.....	23.44	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2352 EA 1-1/4" Flexible 90 Degree Connector, Insulated.....	39.83	8.21
For Work In Restricted Working Space, Add	4.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 05 33 13-2353 EA 1-1/2" Flexible 90 Degree Connector, Insulated.....	61.77	9.58
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2354 EA 2" Flexible 90 Degree Connector, Insulated.....	77.74	11.76
For Work In Restricted Working Space, Add	6.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98	
26 05 33 13-2355 EA 2-1/2" Flexible 90 Degree Connector, Insulated.....	176.86	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2356 EA 3" Flexible 90 Degree Connector, Insulated.....	216.69	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2357 EA 3-1/2" Flexible 90 Degree Connector, Insulated.....	567.51	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2358 EA 4" Flexible 90 Degree Connector, Insulated.....	843.32	20.52
For Work In Restricted Working Space, Add	12.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 33 13-2359 Plain Squeeze Type 45 Degree Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2360 EA 3/8" Flexible 45 Degree Connector, Plain.....	11.47	5.47
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2361 EA 1/2" Flexible 45 Degree Connector, Plain.....	14.97	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2362 EA 3/4" Flexible 45 Degree Connector, Plain.....	18.73	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2363 Insulated Squeeze Type 45 Degree Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2364 EA 3/8" Flexible 45 Degree Connector, Insulated.....	12.09	6.56
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2365 EA 1/2" Flexible 45 Degree Connector, Insulated	15.99	6.02
<i>For Work In Restricted Working Space, Add</i>	2.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.87	
26 05 33 13-2366 EA 3/4" Flexible 45 Degree Connector, Insulated	20.18	6.56
<i>For Work In Restricted Working Space, Add</i>	3.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.28	
26 05 33 13-2367 Plain Screw-In Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2368 EA 3/8" Flexible Steel Screw-in Connector, Plain.....	6.70	4.38
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.85	
26 05 33 13-2369 EA 1/2" Flexible Steel Screw-in Connector, Plain.....	7.29	4.93
<i>For Work In Restricted Working Space, Add</i>	2.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.05	
26 05 33 13-2370 EA 3/4" Flexible Steel Screw-in Connector, Plain.....	9.13	6.02
<i>For Work In Restricted Working Space, Add</i>	2.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.46	
26 05 33 13-2371 EA 1" Flexible Steel Screw-in Connector, Plain.....	12.78	6.56
<i>For Work In Restricted Working Space, Add</i>	3.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.28	
26 05 33 13-2372 EA 1-1/4" Flexible Steel Screw-in Connector, Plain	18.00	7.67
<i>For Work In Restricted Working Space, Add</i>	4.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 33 13-2373 EA 1-1/2" Flexible Steel Screw-in Connector, Plain	22.12	8.21
<i>For Work In Restricted Working Space, Add</i>	5.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.13	
26 05 33 13-2374 EA 2" Flexible Steel Screw-in Connector, Plain.....	30.95	9.31
<i>For Work In Restricted Working Space, Add</i>	6.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.16	
26 05 33 13-2375 Insulated Screw-In Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2376 EA 3/8" Flexible Steel Screw-in Connector, Insulated	6.97	4.38
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.85	
26 05 33 13-2377 EA 1/2" Flexible Steel Screw-in Connector, Insulated.....	7.50	4.93
<i>For Work In Restricted Working Space, Add</i>	2.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.05	
26 05 33 13-2378 EA 3/4" Flexible Steel Screw-in Connector, Insulated	9.67	6.02
<i>For Work In Restricted Working Space, Add</i>	2.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.46	
26 05 33 13-2379 EA 1" Flexible Steel Screw-in Connector, Insulated.....	13.62	6.56
<i>For Work In Restricted Working Space, Add</i>	3.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.28	
26 05 33 13-2380 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated.....	19.19	7.67
<i>For Work In Restricted Working Space, Add</i>	4.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 33 13-2381 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated.....	23.55	8.21
<i>For Work In Restricted Working Space, Add</i>	5.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.13	
26 05 33 13-2382 EA 2" Flexible Steel Screw-in Connector, Insulated.....	32.21	9.31
<i>For Work In Restricted Working Space, Add</i>	6.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.16	
26 05 33 13-2383 Screw-In Coupling <small>(26 05 33 13-2300)</small>		
26 05 33 13-2384 EA 1/2" Flexible Steel Screw-in Coupling	7.81	4.93
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 33 13-2385 EA 3/4" Flexible Steel Screw-in Coupling	9.99	6.02
<i>For Work In Restricted Working Space, Add</i>	2.46	
26 05 33 13-2386 Flexible To Electrical Metallic Tubing (EMT) Coupling <small>(26 05 33 13-2300)</small>		
26 05 33 13-2387 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	9.48	4.38
<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 33 13-2388 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	12.37	4.93
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 33 13-2389 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	16.07	6.02
<i>For Work In Restricted Working Space, Add</i>	2.46	
26 05 33 13-2390 Die Cast Squeeze Type Straight Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2391 EA 3/8" Flexible Straight Connector, Die Cast.....	6.87	4.38
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.85	
26 05 33 13-2392 EA 1/2" Flexible Straight Connector, Die Cast.....	7.73	4.93
<i>For Work In Restricted Working Space, Add</i>	2.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.05	
26 05 33 13-2393 EA 3/4" Flexible Straight Connector, Die Cast.....	9.49	6.02
<i>For Work In Restricted Working Space, Add</i>	2.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.46	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2394 EA 1" Flexible Straight Connector, Die Cast.....	13.81	6.56
<i>For Work In Restricted Working Space, Add</i>	3.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.28	
26 05 33 13-2395 EA 1-1/4" Flexible Straight Connector, Die Cast.....	18.26	7.67
<i>For Work In Restricted Working Space, Add</i>	4.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 33 13-2396 EA 1-1/2" Flexible Straight Connector, Die Cast.....	24.27	8.21
<i>For Work In Restricted Working Space, Add</i>	5.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.13	
26 05 33 13-2397 EA 2" Flexible Straight Connector, Die Cast.....	30.84	9.31
<i>For Work In Restricted Working Space, Add</i>	6.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.16	
26 05 33 13-2398 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-2300)		
26 05 33 13-2399 EA 3/8" Flexible 90 Degree Connector, Die Cast.....	9.11	5.47
<i>For Work In Restricted Working Space, Add</i>	2.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.46	
26 05 33 13-2400 EA 1/2" Flexible 90 Degree Connector, Die Cast.....	11.10	6.02
<i>For Work In Restricted Working Space, Add</i>	2.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.87	
26 05 33 13-2401 EA 3/4" Flexible 90 Degree Connector, Die Cast.....	13.23	6.56
<i>For Work In Restricted Working Space, Add</i>	3.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.28	
26 05 33 13-2402 EA 1" Flexible 90 Degree Connector, Die Cast.....	19.74	7.67
<i>For Work In Restricted Working Space, Add</i>	4.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 33 13-2403 EA 1-1/4" Flexible 90 Degree Connector, Die Cast.....	26.99	8.21
<i>For Work In Restricted Working Space, Add</i>	4.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.93	
26 05 33 13-2404 EA 1-1/2" Flexible 90 Degree Connector, Die Cast.....	40.25	9.58
<i>For Work In Restricted Working Space, Add</i>	6.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.16	
26 05 33 13-2405 EA 2" Flexible 90 Degree Connector, Die Cast.....	47.70	11.76
<i>For Work In Restricted Working Space, Add</i>	6.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.98	
26 05 33 13-2406 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-2258)		
26 05 33 13-2407 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2406)		
26 05 33 13-2408 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit.....	4.51	1.50
<i>For Work In Restricted Working Space, Add</i>	1.13	
26 05 33 13-2409 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit.....	4.57	1.50
<i>For Work In Restricted Working Space, Add</i>	1.13	
26 05 33 13-2410 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit.....	6.14	2.00
<i>For Work In Restricted Working Space, Add</i>	1.50	
26 05 33 13-2411 LF 1" Flexible Liquid Tight Non-Metallic Conduit.....	7.30	2.00
<i>For Work In Restricted Working Space, Add</i>	1.50	
26 05 33 13-2412 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit.....	9.25	2.50
<i>For Work In Restricted Working Space, Add</i>	1.88	
26 05 33 13-2413 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit.....	11.67	3.00
<i>For Work In Restricted Working Space, Add</i>	2.25	
26 05 33 13-2414 LF 2" Flexible Liquid Tight Non-Metallic Conduit.....	15.08	4.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
26 05 33 13-2415 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2406)		
26 05 33 13-2416 EA 3/8" Liquid Tight Non-Metallic Straight Connector.....	12.80	4.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.00	
26 05 33 13-2417 EA 1/2" Liquid Tight Non-Metallic Straight Connector.....	12.80	4.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.00	
26 05 33 13-2418 EA 3/4" Liquid Tight Non-Metallic Straight Connector.....	15.41	4.50
<i>For Work In Restricted Working Space, Add</i>	3.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.38	
26 05 33 13-2419 EA 1" Liquid Tight Non-Metallic Straight Connector.....	18.73	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 33 13-2420 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector.....	24.93	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2421 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector.....	30.56	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-2422 EA 2" Liquid Tight Non-Metallic Straight Connector.....	46.04	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33 13-2423 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2406)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2424 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	18.31 4.13	5.50
26 05 33 13-2425 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	18.31 4.13	5.50
26 05 33 13-2426 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	22.01 4.50	6.00
26 05 33 13-2427 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	30.15 5.25	7.01
26 05 33 13-2428 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	31.34 5.63	7.50
26 05 33 13-2429 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	47.00 6.00	8.00
26 05 33 13-2430 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	62.00 6.75	9.00
26 05 33 13-2431 Liquid Tight Non-Metallic 45 Degree Angle Connector <small>(26 05 33 13-2406)</small>		
26 05 33 13-2432 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	18.31 4.13	5.50
26 05 33 13-2433 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	18.31 4.13	5.50
26 05 33 13-2434 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	22.01 4.50	6.00
26 05 33 13-2435 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	30.15 5.25	7.01
26 05 33 13-2436 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	31.34 5.63	7.50
26 05 33 13-2437 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	47.00 6.00	8.00
26 05 33 13-2438 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i>	62.00 6.75	9.00
26 05 33 13-2439 Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-2258)</small> Note: Carlon - FLEX-PLUS.		
26 05 33 13-2440 Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-2439)</small>		
26 05 33 13-2441 LF 1/2" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	5.24 1.23	1.64
26 05 33 13-2442 LF 3/4" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	7.04 1.64	2.18
26 05 33 13-2443 LF 1" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	8.01 1.64	2.18
26 05 33 13-2444 Terminal Adapter <small>(26 05 33 13-2439)</small>		
26 05 33 13-2445 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	12.79 3.28	4.38
26 05 33 13-2446 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	15.69 3.69	4.93
26 05 33 13-2447 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	18.04 4.11	5.47
26 05 33 13-2448 Coupling <small>(26 05 33 13-2439)</small>		
26 05 33 13-2449 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	12.55 3.28	4.38
26 05 33 13-2450 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	14.40 3.69	4.93
26 05 33 13-2451 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	16.83 4.11	5.47
26 05 33 13-2452 Conduit Bodies <small>(26 05 33 13-0057)</small>		
26 05 33 13-2453 Threaded, Cast Aluminum Conduit Body <small>(26 05 33 13-2452)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-2454	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body <small>(26 05 33 13-2453)</small>		
26 05 33 13-2455	EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	68.16	24.00
	For Mogul LB, Add	3.11	
	For Work In Restricted Working Space, Add	18.00	
	For Elevated Installation >10' To 15', Add	6.00	
	For Elevated Installation >15' To 20', Add	12.00	
	For Elevated Installation >20' To 25', Add	15.00	
	For Elevated Installation >25' To 30', Add	21.00	
	For Elevated Installation >30' To 35', Add	24.00	
	For Elevated Installation >35' To 40', Add	30.01	
	For Elevated Installation >40', Add	33.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2456	EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	79.82	27.50
	For Mogul LB, Add	4.87	
	For Work In Restricted Working Space, Add	20.63	
	For Elevated Installation >10' To 15', Add	6.88	
	For Elevated Installation >15' To 20', Add	13.75	
	For Elevated Installation >20' To 25', Add	17.19	
	For Elevated Installation >25' To 30', Add	24.06	
	For Elevated Installation >30' To 35', Add	27.50	
	For Elevated Installation >35' To 40', Add	34.38	
	For Elevated Installation >40', Add	37.81	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2457	EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	95.77	32.00
	For Mogul LB, Add	7.82	
	For Work In Restricted Working Space, Add	24.00	
	For Elevated Installation >10' To 15', Add	8.00	
	For Elevated Installation >15' To 20', Add	16.00	
	For Elevated Installation >20' To 25', Add	20.00	
	For Elevated Installation >25' To 30', Add	28.00	
	For Elevated Installation >30' To 35', Add	32.00	
	For Elevated Installation >35' To 40', Add	40.01	
	For Elevated Installation >40', Add	44.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	
26 05 33 13-2458	EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	114.80	36.50
	For Mogul LB, Add	13.08	
	For Work In Restricted Working Space, Add	27.38	
	For Elevated Installation >10' To 15', Add	9.13	
	For Elevated Installation >15' To 20', Add	18.25	
	For Elevated Installation >20' To 25', Add	22.82	
	For Elevated Installation >25' To 30', Add	31.94	
	For Elevated Installation >30' To 35', Add	36.51	
	For Elevated Installation >35' To 40', Add	45.64	
	For Elevated Installation >40', Add	50.20	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 33 13-2459	EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	130.37	40.00
	For Mogul LB, Add	17.77	
	For Work In Restricted Working Space, Add	30.00	
	For Elevated Installation >10' To 15', Add	10.00	
	For Elevated Installation >15' To 20', Add	20.00	
	For Elevated Installation >20' To 25', Add	25.00	
	For Elevated Installation >25' To 30', Add	35.00	
	For Elevated Installation >30' To 35', Add	40.00	
	For Elevated Installation >35' To 40', Add	50.01	
	For Elevated Installation >40', Add	55.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-2460	EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	169.05	48.01
	For Mogul LB, Add	30.78	
	For Work In Restricted Working Space, Add	36.00	
	For Elevated Installation >10' To 15', Add	12.00	
	For Elevated Installation >15' To 20', Add	24.00	
	For Elevated Installation >20' To 25', Add	30.00	
	For Elevated Installation >25' To 30', Add	42.00	
	For Elevated Installation >30' To 35', Add	48.00	
	For Elevated Installation >35' To 40', Add	60.01	
	For Elevated Installation >40', Add	66.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.00	
26 05 33 13-2461	EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	277.31	67.51
	For Mogul LB, Add	72.97	
	For Work In Restricted Working Space, Add	50.63	
	For Elevated Installation >10' To 15', Add	16.88	
	For Elevated Installation >15' To 20', Add	33.75	
	For Elevated Installation >20' To 25', Add	42.19	
	For Elevated Installation >25' To 30', Add	59.07	
	For Elevated Installation >30' To 35', Add	67.51	
	For Elevated Installation >35' To 40', Add	84.39	
	For Elevated Installation >40', Add	92.82	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2462 EA 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	365.17	90.01
For Mogul LB, Add	93.85	
For Work In Restricted Working Space, Add	67.51	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	45.01	
For Elevated Installation >20' To 25', Add	56.26	
For Elevated Installation >25' To 30', Add	78.76	
For Elevated Installation >30' To 35', Add	90.01	
For Elevated Installation >35' To 40', Add	112.52	
For Elevated Installation >40', Add	123.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.51	
26 05 33 13-2463 EA 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	481.70	112.51
For Mogul LB, Add	136.25	
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2464 EA 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	621.04	137.02
For Mogul LB, Add	191.75	
For Work In Restricted Working Space, Add	102.76	
For Elevated Installation >10' To 15', Add	34.25	
For Elevated Installation >15' To 20', Add	68.51	
For Elevated Installation >20' To 25', Add	85.64	
For Elevated Installation >25' To 30', Add	119.89	
For Elevated Installation >30' To 35', Add	137.02	
For Elevated Installation >35' To 40', Add	171.27	
For Elevated Installation >40', Add	188.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.76	
26 05 33 13-2465 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2463)</small>		
26 05 33 13-2466 EA 1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	69.15	24.00
For Mogul LB, Add	3.85	
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2467 EA 3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	80.79	27.50
For Mogul LB, Add	5.59	
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2468 EA 1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	97.72	32.00
For Mogul LB, Add	9.28	
For Work In Restricted Working Space, Add	24.00	
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.01	
For Elevated Installation >40', Add	44.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	
26 05 33 13-2469 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	117.18	36.50
For Mogul LB, Add	14.87	
For Work In Restricted Working Space, Add	27.38	
For Elevated Installation >10' To 15', Add	9.13	
For Elevated Installation >15' To 20', Add	18.25	
For Elevated Installation >20' To 25', Add	22.82	
For Elevated Installation >25' To 30', Add	31.94	
For Elevated Installation >30' To 35', Add	36.51	
For Elevated Installation >35' To 40', Add	45.64	
For Elevated Installation >40', Add	50.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2470	EA	1-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.41 20.80 30.00 10.00 20.00 25.00 35.00 40.00 50.01 55.01 30.00	40.00
26 05 33 13-2471	EA	2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.72 37.28 36.00 12.00 24.00 30.00 42.00 48.00 60.01 66.01 36.00	48.01
26 05 33 13-2472	EA	2-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	272.93 69.68 50.63 16.88 33.75 42.19 59.07 67.51 84.39 92.82 50.63	67.51
26 05 33 13-2473	EA	3"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	350.46 82.82 67.51 22.50 45.01 56.26 78.76 90.01 112.52 123.77 67.51	90.01
26 05 33 13-2474	EA	3-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	494.24 145.66 84.38 28.13 56.26 70.32 98.45 112.51 140.64 154.70 84.38	112.51
26 05 33 13-2475	EA	4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	646.67 210.97 102.76 34.25 68.51 85.64 119.89 137.02 171.27 188.40 102.76	137.02
26 05 33 13-2476			Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2453)</small>		
26 05 33 13-2477	EA	1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.56 20.63 6.88 13.75 17.19 24.06 27.50 34.38 37.81 20.63	27.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2478 EA 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	93.93	32.00
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.01	
<i>For Elevated Installation >40', Add</i>	44.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-2479 EA 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	107.20	35.01
<i>For Work In Restricted Working Space, Add</i>	26.25	
<i>For Elevated Installation >10' To 15', Add</i>	8.75	
<i>For Elevated Installation >15' To 20', Add</i>	17.50	
<i>For Elevated Installation >20' To 25', Add</i>	21.88	
<i>For Elevated Installation >25' To 30', Add</i>	30.63	
<i>For Elevated Installation >30' To 35', Add</i>	35.00	
<i>For Elevated Installation >35' To 40', Add</i>	43.76	
<i>For Elevated Installation >40', Add</i>	48.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-2480 EA 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	129.86	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-2481 EA 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	148.82	44.01
<i>For Work In Restricted Working Space, Add</i>	33.01	
<i>For Elevated Installation >10' To 15', Add</i>	11.00	
<i>For Elevated Installation >15' To 20', Add</i>	22.00	
<i>For Elevated Installation >20' To 25', Add</i>	27.51	
<i>For Elevated Installation >25' To 30', Add</i>	38.51	
<i>For Elevated Installation >30' To 35', Add</i>	44.01	
<i>For Elevated Installation >35' To 40', Add</i>	55.01	
<i>For Elevated Installation >40', Add</i>	60.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.01	
26 05 33 13-2482 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	195.13	51.51
<i>For Work In Restricted Working Space, Add</i>	38.63	
<i>For Elevated Installation >10' To 15', Add</i>	12.88	
<i>For Elevated Installation >15' To 20', Add</i>	25.75	
<i>For Elevated Installation >20' To 25', Add</i>	32.19	
<i>For Elevated Installation >25' To 30', Add</i>	45.07	
<i>For Elevated Installation >30' To 35', Add</i>	51.51	
<i>For Elevated Installation >35' To 40', Add</i>	64.39	
<i>For Elevated Installation >40', Add</i>	70.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.63	
26 05 33 13-2483 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	304.77	75.01
<i>For Work In Restricted Working Space, Add</i>	56.26	
<i>For Elevated Installation >10' To 15', Add</i>	18.75	
<i>For Elevated Installation >15' To 20', Add</i>	37.50	
<i>For Elevated Installation >20' To 25', Add</i>	46.88	
<i>For Elevated Installation >25' To 30', Add</i>	65.63	
<i>For Elevated Installation >30' To 35', Add</i>	75.01	
<i>For Elevated Installation >35' To 40', Add</i>	93.76	
<i>For Elevated Installation >40', Add</i>	103.14	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.26	
26 05 33 13-2484 EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	394.09	97.51
<i>For Work In Restricted Working Space, Add</i>	73.13	
<i>For Elevated Installation >10' To 15', Add</i>	24.38	
<i>For Elevated Installation >15' To 20', Add</i>	48.76	
<i>For Elevated Installation >20' To 25', Add</i>	60.95	
<i>For Elevated Installation >25' To 30', Add</i>	85.32	
<i>For Elevated Installation >30' To 35', Add</i>	97.51	
<i>For Elevated Installation >35' To 40', Add</i>	121.89	
<i>For Elevated Installation >40', Add</i>	134.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.13	
26 05 33 13-2485 EA 3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	612.21	120.01
<i>For Work In Restricted Working Space, Add</i>	90.01	
<i>For Elevated Installation >10' To 15', Add</i>	30.00	
<i>For Elevated Installation >15' To 20', Add</i>	60.01	
<i>For Elevated Installation >20' To 25', Add</i>	75.01	
<i>For Elevated Installation >25' To 30', Add</i>	105.01	
<i>For Elevated Installation >30' To 35', Add</i>	120.01	
<i>For Elevated Installation >35' To 40', Add</i>	150.02	
<i>For Elevated Installation >40', Add</i>	165.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.01	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2486	EA	4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	705.02 108.39 36.13 72.26 90.32 126.45 144.52 180.65 198.71 108.39	144.52
26 05 33	13-2487		Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33)</small>		
26 05 33	13-2488	EA	1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.35 18.00 6.00 12.00 15.00 21.00 24.00 30.01 33.01 18.00	24.00
26 05 33	13-2489	EA	3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.10 20.63 6.88 13.75 17.19 24.06 27.50 34.38 37.81 20.63	27.50
26 05 33	13-2490	EA	1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.68 23.63 7.88 15.75 19.69 27.57 31.50 39.38 43.32 23.63	31.50
26 05 33	13-2491	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.23 27.38 9.13 18.25 22.82 31.94 36.51 45.64 50.20 27.38	36.50
26 05 33	13-2492	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.71 30.00 10.00 20.00 25.00 35.00 40.00 50.01 55.01 30.00	40.00
26 05 33	13-2493	EA	2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.12 36.00 12.00 24.00 30.00 42.00 48.00 60.01 66.01 36.00	48.01
26 05 33	13-2494	EA	2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.25 50.63 16.88 33.75 42.19 59.07 67.51 84.39 92.82 50.63	67.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2495 EA 3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	348.11	90.01
For Work In Restricted Working Space, Add	67.51	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	45.01	
For Elevated Installation >20' To 25', Add	56.26	
For Elevated Installation >25' To 30', Add	78.76	
For Elevated Installation >30' To 35', Add	90.01	
For Elevated Installation >35' To 40', Add	112.52	
For Elevated Installation >40', Add	123.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.51	
26 05 33 13-2496 EA 3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	486.70	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2497 EA 4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	623.39	137.02
For Work In Restricted Working Space, Add	102.76	
For Elevated Installation >10' To 15', Add	34.25	
For Elevated Installation >15' To 20', Add	68.51	
For Elevated Installation >20' To 25', Add	85.64	
For Elevated Installation >25' To 30', Add	119.89	
For Elevated Installation >30' To 35', Add	137.02	
For Elevated Installation >35' To 40', Add	171.27	
For Elevated Installation >40', Add	188.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.76	
26 05 33 13-2498 Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2498)</small>		
26 05 33 13-2499 EA 1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	92.03	31.50
For Work In Restricted Working Space, Add	23.63	
For Elevated Installation >10' To 15', Add	7.88	
For Elevated Installation >15' To 20', Add	15.75	
For Elevated Installation >20' To 25', Add	19.69	
For Elevated Installation >25' To 30', Add	27.57	
For Elevated Installation >30' To 35', Add	31.50	
For Elevated Installation >35' To 40', Add	39.38	
For Elevated Installation >40', Add	43.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	
26 05 33 13-2500 EA 3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	105.46	35.01
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.25	
26 05 33 13-2501 EA 1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	126.63	38.51
For Work In Restricted Working Space, Add	28.88	
For Elevated Installation >10' To 15', Add	9.63	
For Elevated Installation >15' To 20', Add	19.25	
For Elevated Installation >20' To 25', Add	24.07	
For Elevated Installation >25' To 30', Add	33.69	
For Elevated Installation >30' To 35', Add	38.51	
For Elevated Installation >35' To 40', Add	48.14	
For Elevated Installation >40', Add	52.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.88	
26 05 33 13-2502 EA 1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	145.77	44.01
For Work In Restricted Working Space, Add	33.01	
For Elevated Installation >10' To 15', Add	11.00	
For Elevated Installation >15' To 20', Add	22.00	
For Elevated Installation >20' To 25', Add	27.51	
For Elevated Installation >25' To 30', Add	38.51	
For Elevated Installation >30' To 35', Add	44.01	
For Elevated Installation >35' To 40', Add	55.01	
For Elevated Installation >40', Add	60.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 05 33 13-2503 EA 1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	182.62	48.01
For Work In Restricted Working Space, Add	36.00	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.00	
For Elevated Installation >25' To 30', Add	42.00	
For Elevated Installation >30' To 35', Add	48.00	
For Elevated Installation >35' To 40', Add	60.01	
For Elevated Installation >40', Add	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.00	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2504 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	221.36	59.00
For Work In Restricted Working Space, Add	44.26	
For Elevated Installation >10' To 15', Add	14.75	
For Elevated Installation >15' To 20', Add	29.50	
For Elevated Installation >20' To 25', Add	36.88	
For Elevated Installation >25' To 30', Add	51.63	
For Elevated Installation >30' To 35', Add	59.01	
For Elevated Installation >35' To 40', Add	73.76	
For Elevated Installation >40', Add	81.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.26	
26 05 33 13-2505 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	399.48	86.51
For Work In Restricted Working Space, Add	64.88	
For Elevated Installation >10' To 15', Add	21.63	
For Elevated Installation >15' To 20', Add	43.26	
For Elevated Installation >20' To 25', Add	54.07	
For Elevated Installation >25' To 30', Add	75.70	
For Elevated Installation >30' To 35', Add	86.51	
For Elevated Installation >35' To 40', Add	108.14	
For Elevated Installation >40', Add	118.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.88	
26 05 33 13-2506 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	495.89	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2507 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	696.18	139.01
For Work In Restricted Working Space, Add	105.02	
For Elevated Installation >10' To 15', Add	35.01	
For Elevated Installation >15' To 20', Add	70.01	
For Elevated Installation >20' To 25', Add	87.51	
For Elevated Installation >25' To 30', Add	122.52	
For Elevated Installation >30' To 35', Add	140.02	
For Elevated Installation >35' To 40', Add	175.03	
For Elevated Installation >40', Add	192.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.02	
26 05 33 13-2508 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	839.81	167.02
For Work In Restricted Working Space, Add	125.27	
For Elevated Installation >10' To 15', Add	41.76	
For Elevated Installation >15' To 20', Add	83.51	
For Elevated Installation >20' To 25', Add	104.39	
For Elevated Installation >25' To 30', Add	146.14	
For Elevated Installation >30' To 35', Add	167.02	
For Elevated Installation >35' To 40', Add	208.78	
For Elevated Installation >40', Add	229.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.27	
26 05 33 13-2509 Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2452)</small>		
26 05 33 13-2510 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33 13-2511 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	70.94	24.00
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2512 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	82.15	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2513 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	99.98	32.00
For Work In Restricted Working Space, Add	24.00	
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.01	
For Elevated Installation >40', Add	44.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2514 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	127.08	36.50
<i>For Work In Restricted Working Space, Add</i>	27.38	
<i>For Elevated Installation >10' To 15', Add</i>	9.13	
<i>For Elevated Installation >15' To 20', Add</i>	18.25	
<i>For Elevated Installation >20' To 25', Add</i>	22.82	
<i>For Elevated Installation >25' To 30', Add</i>	31.94	
<i>For Elevated Installation >30' To 35', Add</i>	36.50	
<i>For Elevated Installation >35' To 40', Add</i>	45.63	
<i>For Elevated Installation >40', Add</i>	50.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.38	
26 05 33 13-2515 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	143.95	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-2516 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	193.55	48.01
<i>For Work In Restricted Working Space, Add</i>	36.01	
<i>For Elevated Installation >10' To 15', Add</i>	12.00	
<i>For Elevated Installation >15' To 20', Add</i>	24.00	
<i>For Elevated Installation >20' To 25', Add</i>	30.01	
<i>For Elevated Installation >25' To 30', Add</i>	42.01	
<i>For Elevated Installation >30' To 35', Add</i>	48.01	
<i>For Elevated Installation >35' To 40', Add</i>	60.01	
<i>For Elevated Installation >40', Add</i>	66.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.01	
26 05 33 13-2517 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	319.29	67.51
<i>For Work In Restricted Working Space, Add</i>	50.63	
<i>For Elevated Installation >10' To 15', Add</i>	16.88	
<i>For Elevated Installation >15' To 20', Add</i>	33.76	
<i>For Elevated Installation >20' To 25', Add</i>	42.20	
<i>For Elevated Installation >25' To 30', Add</i>	59.07	
<i>For Elevated Installation >30' To 35', Add</i>	67.51	
<i>For Elevated Installation >35' To 40', Add</i>	84.39	
<i>For Elevated Installation >40', Add</i>	92.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.63	
26 05 33 13-2518 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	449.57	90.01
<i>For Work In Restricted Working Space, Add</i>	67.51	
<i>For Elevated Installation >10' To 15', Add</i>	22.50	
<i>For Elevated Installation >15' To 20', Add</i>	45.01	
<i>For Elevated Installation >20' To 25', Add</i>	56.26	
<i>For Elevated Installation >25' To 30', Add</i>	78.76	
<i>For Elevated Installation >30' To 35', Add</i>	90.02	
<i>For Elevated Installation >35' To 40', Add</i>	112.52	
<i>For Elevated Installation >40', Add</i>	123.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33 13-2519 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	613.68	112.51
<i>For Work In Restricted Working Space, Add</i>	84.38	
<i>For Elevated Installation >10' To 15', Add</i>	28.13	
<i>For Elevated Installation >15' To 20', Add</i>	56.26	
<i>For Elevated Installation >20' To 25', Add</i>	70.32	
<i>For Elevated Installation >25' To 30', Add</i>	98.45	
<i>For Elevated Installation >30' To 35', Add</i>	112.51	
<i>For Elevated Installation >35' To 40', Add</i>	140.64	
<i>For Elevated Installation >40', Add</i>	154.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.38	
26 05 33 13-2520 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	735.61	137.02
<i>For Work In Restricted Working Space, Add</i>	102.77	
<i>For Elevated Installation >10' To 15', Add</i>	34.26	
<i>For Elevated Installation >15' To 20', Add</i>	68.51	
<i>For Elevated Installation >20' To 25', Add</i>	85.64	
<i>For Elevated Installation >25' To 30', Add</i>	119.89	
<i>For Elevated Installation >30' To 35', Add</i>	137.02	
<i>For Elevated Installation >35' To 40', Add</i>	171.28	
<i>For Elevated Installation >40', Add</i>	188.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.77	
26 05 33 13-2521 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33 13-2522 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	73.47	24.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.00	
26 05 33 13-2523 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	82.89	27.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-2524 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	103.84	32.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-2525 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	129.67	36.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.38	
26 05 33 13-2526 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	147.11	40.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-2527 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	187.05	48.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.01	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2528	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	283.20 50.63	67.51
26 05 33	13-2529	EA	3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.67 67.51	90.01
26 05 33	13-2530	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	651.90 84.38	112.51
26 05 33	13-2531	EA	4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	763.80 102.77	137.02
26 05 33 13-2532 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2532)</small>					
26 05 33	13-2533	EA	1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.79 20.63 6.88 13.75 17.19 24.06 27.50 34.38 37.81 20.63	27.50
26 05 33	13-2534	EA	3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.36 24.38 8.13 16.25 20.32 28.44 32.50 40.63 44.69 24.38	32.00
26 05 33	13-2535	EA	1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	119.42 26.25 8.75 17.50 21.88 30.63 35.00 43.76 48.13 26.25	35.01
26 05 33	13-2536	EA	1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.20 29.63 9.88 19.75 24.69 34.57 39.50 49.38 54.32 29.63	40.00
26 05 33	13-2537	EA	1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.43 33.01 11.00 22.00 27.51 38.51 44.01 55.01 60.51 33.01	44.01
26 05 33	13-2538	EA	2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	221.85 38.63 12.88 25.75 32.19 45.07 51.51 64.39 70.82 38.63	51.51
26 05 33	13-2539	EA	2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	285.17 56.26 18.75 37.50 46.88 65.63 75.01 93.76 103.14 56.26	75.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2540 EA 3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	406.06	97.51
For Work In Restricted Working Space, Add	73.13	
For Elevated Installation >10' To 15', Add	24.38	
For Elevated Installation >15' To 20', Add	48.76	
For Elevated Installation >20' To 25', Add	60.95	
For Elevated Installation >25' To 30', Add	85.32	
For Elevated Installation >30' To 35', Add	97.51	
For Elevated Installation >35' To 40', Add	121.89	
For Elevated Installation >40', Add	134.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.13	
26 05 33 13-2541 EA 3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	688.30	120.01
For Work In Restricted Working Space, Add	90.01	
For Elevated Installation >10' To 15', Add	30.00	
For Elevated Installation >15' To 20', Add	60.01	
For Elevated Installation >20' To 25', Add	75.01	
For Elevated Installation >25' To 30', Add	105.01	
For Elevated Installation >30' To 35', Add	120.01	
For Elevated Installation >35' To 40', Add	150.02	
For Elevated Installation >40', Add	165.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.01	
26 05 33 13-2542 EA 4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	799.05	144.52
For Work In Restricted Working Space, Add	108.77	
For Elevated Installation >10' To 15', Add	36.26	
For Elevated Installation >15' To 20', Add	72.51	
For Elevated Installation >20' To 25', Add	90.64	
For Elevated Installation >25' To 30', Add	126.89	
For Elevated Installation >30' To 35', Add	145.02	
For Elevated Installation >35' To 40', Add	181.28	
For Elevated Installation >40', Add	199.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.77	
26 05 33 13-2543 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33 13-2544 EA 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	71.13	24.00
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2545 EA 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	85.43	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.07	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2546 EA 1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	99.64	31.50
For Work In Restricted Working Space, Add	23.63	
For Elevated Installation >10' To 15', Add	7.88	
For Elevated Installation >15' To 20', Add	15.75	
For Elevated Installation >20' To 25', Add	19.69	
For Elevated Installation >25' To 30', Add	27.57	
For Elevated Installation >30' To 35', Add	31.50	
For Elevated Installation >35' To 40', Add	39.38	
For Elevated Installation >40', Add	43.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	
26 05 33 13-2547 EA 1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	131.85	36.50
For Work In Restricted Working Space, Add	27.38	
For Elevated Installation >10' To 15', Add	9.13	
For Elevated Installation >15' To 20', Add	18.25	
For Elevated Installation >20' To 25', Add	22.82	
For Elevated Installation >25' To 30', Add	31.94	
For Elevated Installation >30' To 35', Add	36.51	
For Elevated Installation >35' To 40', Add	45.64	
For Elevated Installation >40', Add	50.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 33 13-2548 EA 1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	152.88	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2549	EA	2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	196.10	48.01
			<i>For Work In Restricted Working Space, Add</i>	36.01	
			<i>For Elevated Installation >10' To 15', Add</i>	12.00	
			<i>For Elevated Installation >15' To 20', Add</i>	24.00	
			<i>For Elevated Installation >20' To 25', Add</i>	30.01	
			<i>For Elevated Installation >25' To 30', Add</i>	42.01	
			<i>For Elevated Installation >30' To 35', Add</i>	48.01	
			<i>For Elevated Installation >35' To 40', Add</i>	60.01	
			<i>For Elevated Installation >40', Add</i>	66.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.01	
26 05 33	13-2550	EA	2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	447.23	126.64
			<i>For Work In Restricted Working Space, Add</i>	94.94	
			<i>For Elevated Installation >10' To 15', Add</i>	31.65	
			<i>For Elevated Installation >15' To 20', Add</i>	63.29	
			<i>For Elevated Installation >20' To 25', Add</i>	79.12	
			<i>For Elevated Installation >25' To 30', Add</i>	110.76	
			<i>For Elevated Installation >30' To 35', Add</i>	126.58	
			<i>For Elevated Installation >35' To 40', Add</i>	158.23	
			<i>For Elevated Installation >40', Add</i>	174.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.94	
26 05 33	13-2551	EA	3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	411.93	90.01
			<i>For Work In Restricted Working Space, Add</i>	67.51	
			<i>For Elevated Installation >10' To 15', Add</i>	22.50	
			<i>For Elevated Installation >15' To 20', Add</i>	45.01	
			<i>For Elevated Installation >20' To 25', Add</i>	56.26	
			<i>For Elevated Installation >25' To 30', Add</i>	78.76	
			<i>For Elevated Installation >30' To 35', Add</i>	90.02	
			<i>For Elevated Installation >35' To 40', Add</i>	112.52	
			<i>For Elevated Installation >40', Add</i>	123.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33	13-2552	EA	3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	651.90	112.51
			<i>For Work In Restricted Working Space, Add</i>	84.38	
			<i>For Elevated Installation >10' To 15', Add</i>	28.13	
			<i>For Elevated Installation >15' To 20', Add</i>	56.26	
			<i>For Elevated Installation >20' To 25', Add</i>	70.32	
			<i>For Elevated Installation >25' To 30', Add</i>	98.45	
			<i>For Elevated Installation >30' To 35', Add</i>	112.51	
			<i>For Elevated Installation >35' To 40', Add</i>	140.64	
			<i>For Elevated Installation >40', Add</i>	154.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.38	
26 05 33	13-2553	EA	4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	763.78	137.02
			<i>For Work In Restricted Working Space, Add</i>	102.76	
			<i>For Elevated Installation >10' To 15', Add</i>	34.25	
			<i>For Elevated Installation >15' To 20', Add</i>	68.51	
			<i>For Elevated Installation >20' To 25', Add</i>	85.63	
			<i>For Elevated Installation >25' To 30', Add</i>	119.89	
			<i>For Elevated Installation >30' To 35', Add</i>	137.01	
			<i>For Elevated Installation >35' To 40', Add</i>	171.27	
			<i>For Elevated Installation >40', Add</i>	188.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.76	
26 05 33	13-2554		Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33	13-2555	EA	1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	98.76	31.50
			<i>For Work In Restricted Working Space, Add</i>	23.63	
			<i>For Elevated Installation >10' To 15', Add</i>	7.88	
			<i>For Elevated Installation >15' To 20', Add</i>	15.75	
			<i>For Elevated Installation >20' To 25', Add</i>	19.69	
			<i>For Elevated Installation >25' To 30', Add</i>	27.57	
			<i>For Elevated Installation >30' To 35', Add</i>	31.50	
			<i>For Elevated Installation >35' To 40', Add</i>	39.38	
			<i>For Elevated Installation >40', Add</i>	43.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.63	
26 05 33	13-2556	EA	3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	108.26	35.01
			<i>For Work In Restricted Working Space, Add</i>	26.25	
			<i>For Elevated Installation >10' To 15', Add</i>	8.75	
			<i>For Elevated Installation >15' To 20', Add</i>	17.50	
			<i>For Elevated Installation >20' To 25', Add</i>	21.88	
			<i>For Elevated Installation >25' To 30', Add</i>	30.63	
			<i>For Elevated Installation >30' To 35', Add</i>	35.00	
			<i>For Elevated Installation >35' To 40', Add</i>	43.76	
			<i>For Elevated Installation >40', Add</i>	48.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33	13-2557	EA	1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	124.74	38.51
			<i>For Work In Restricted Working Space, Add</i>	28.88	
			<i>For Elevated Installation >10' To 15', Add</i>	9.63	
			<i>For Elevated Installation >15' To 20', Add</i>	19.25	
			<i>For Elevated Installation >20' To 25', Add</i>	24.07	
			<i>For Elevated Installation >25' To 30', Add</i>	33.69	
			<i>For Elevated Installation >30' To 35', Add</i>	38.51	
			<i>For Elevated Installation >35' To 40', Add</i>	48.14	
			<i>For Elevated Installation >40', Add</i>	52.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2558 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	147.61	44.01
For Work In Restricted Working Space, Add	33.01	
For Elevated Installation >10' To 15', Add	11.00	
For Elevated Installation >15' To 20', Add	22.00	
For Elevated Installation >20' To 25', Add	27.51	
For Elevated Installation >25' To 30', Add	38.51	
For Elevated Installation >30' To 35', Add	44.01	
For Elevated Installation >35' To 40', Add	55.01	
For Elevated Installation >40', Add	60.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 05 33 13-2559 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	169.06	48.01
For Work In Restricted Working Space, Add	36.00	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.00	
For Elevated Installation >25' To 30', Add	42.00	
For Elevated Installation >30' To 35', Add	48.00	
For Elevated Installation >35' To 40', Add	60.01	
For Elevated Installation >40', Add	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.00	
26 05 33 13-2560 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	232.91	59.00
For Work In Restricted Working Space, Add	44.26	
For Elevated Installation >10' To 15', Add	14.75	
For Elevated Installation >15' To 20', Add	29.50	
For Elevated Installation >20' To 25', Add	36.88	
For Elevated Installation >25' To 30', Add	51.63	
For Elevated Installation >30' To 35', Add	59.01	
For Elevated Installation >35' To 40', Add	73.76	
For Elevated Installation >40', Add	81.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.26	
26 05 33 13-2561 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	368.74	86.51
For Work In Restricted Working Space, Add	64.88	
For Elevated Installation >10' To 15', Add	21.63	
For Elevated Installation >15' To 20', Add	43.26	
For Elevated Installation >20' To 25', Add	54.07	
For Elevated Installation >25' To 30', Add	75.70	
For Elevated Installation >30' To 35', Add	86.51	
For Elevated Installation >35' To 40', Add	108.14	
For Elevated Installation >40', Add	118.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.88	
26 05 33 13-2562 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	534.63	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2563 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	785.65	139.01
For Work In Restricted Working Space, Add	104.26	
For Elevated Installation >10' To 15', Add	34.75	
For Elevated Installation >15' To 20', Add	69.51	
For Elevated Installation >20' To 25', Add	86.89	
For Elevated Installation >25' To 30', Add	121.64	
For Elevated Installation >30' To 35', Add	139.02	
For Elevated Installation >35' To 40', Add	173.77	
For Elevated Installation >40', Add	191.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.26	
26 05 33 13-2564 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	882.71	167.02
For Work In Restricted Working Space, Add	125.27	
For Elevated Installation >10' To 15', Add	41.76	
For Elevated Installation >15' To 20', Add	83.51	
For Elevated Installation >20' To 25', Add	104.39	
For Elevated Installation >25' To 30', Add	146.14	
For Elevated Installation >30' To 35', Add	167.02	
For Elevated Installation >35' To 40', Add	208.78	
For Elevated Installation >40', Add	229.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.27	
26 05 33 13-2565 Set Screw, Cast Aluminum Conduit Body <small>(26 05 33 13-2482)</small>		
26 05 33 13-2566 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2565)</small>		
26 05 33 13-2567 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	33.24	9.50
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2568	EA		3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....42.65		12.50
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2569	EA		1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....57.17		15.50
			<i>For Work In Restricted Working Space, Add</i>	11.63	
			<i>For Elevated Installation >10' To 15', Add</i>	3.88	
			<i>For Elevated Installation >15' To 20', Add</i>	7.75	
			<i>For Elevated Installation >20' To 25', Add</i>	9.69	
			<i>For Elevated Installation >25' To 30', Add</i>	13.57	
			<i>For Elevated Installation >30' To 35', Add</i>	15.50	
			<i>For Elevated Installation >35' To 40', Add</i>	19.38	
			<i>For Elevated Installation >40', Add</i>	21.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.63	
26 05 33 13-2570	EA		1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....73.69		19.00
			<i>For Work In Restricted Working Space, Add</i>	14.25	
			<i>For Elevated Installation >10' To 15', Add</i>	4.75	
			<i>For Elevated Installation >15' To 20', Add</i>	9.50	
			<i>For Elevated Installation >20' To 25', Add</i>	11.88	
			<i>For Elevated Installation >25' To 30', Add</i>	16.63	
			<i>For Elevated Installation >30' To 35', Add</i>	19.00	
			<i>For Elevated Installation >35' To 40', Add</i>	23.76	
			<i>For Elevated Installation >40', Add</i>	26.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.25	
26 05 33 13-2571	EA		1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....95.72		22.00
			<i>For Work In Restricted Working Space, Add</i>	16.50	
			<i>For Elevated Installation >10' To 15', Add</i>	5.50	
			<i>For Elevated Installation >15' To 20', Add</i>	11.00	
			<i>For Elevated Installation >20' To 25', Add</i>	13.75	
			<i>For Elevated Installation >25' To 30', Add</i>	19.25	
			<i>For Elevated Installation >30' To 35', Add</i>	22.00	
			<i>For Elevated Installation >35' To 40', Add</i>	27.50	
			<i>For Elevated Installation >40', Add</i>	30.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50	
26 05 33 13-2572	EA		2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....125.18		25.01
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-2573			Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover		
			<small>(26 05 33 13-2565)</small>		
26 05 33 13-2574	EA		1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....33.50		9.50
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2575	EA		3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....43.65		12.50
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2576	EA		1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....53.68		15.50
			<i>For Work In Restricted Working Space, Add</i>	11.63	
			<i>For Elevated Installation >10' To 15', Add</i>	3.88	
			<i>For Elevated Installation >15' To 20', Add</i>	7.75	
			<i>For Elevated Installation >20' To 25', Add</i>	9.69	
			<i>For Elevated Installation >25' To 30', Add</i>	13.57	
			<i>For Elevated Installation >30' To 35', Add</i>	15.50	
			<i>For Elevated Installation >35' To 40', Add</i>	19.38	
			<i>For Elevated Installation >40', Add</i>	21.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2577 EA 1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	73.39	19.00
<i>For Work In Restricted Working Space, Add</i>	14.25	
<i>For Elevated Installation >10' To 15', Add</i>	4.75	
<i>For Elevated Installation >15' To 20', Add</i>	9.50	
<i>For Elevated Installation >20' To 25', Add</i>	11.88	
<i>For Elevated Installation >25' To 30', Add</i>	16.63	
<i>For Elevated Installation >30' To 35', Add</i>	19.00	
<i>For Elevated Installation >35' To 40', Add</i>	23.76	
<i>For Elevated Installation >40', Add</i>	26.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.25	
26 05 33 13-2578 EA 1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	89.93	22.00
<i>For Work In Restricted Working Space, Add</i>	16.50	
<i>For Elevated Installation >10' To 15', Add</i>	5.50	
<i>For Elevated Installation >15' To 20', Add</i>	11.00	
<i>For Elevated Installation >20' To 25', Add</i>	13.75	
<i>For Elevated Installation >25' To 30', Add</i>	19.25	
<i>For Elevated Installation >30' To 35', Add</i>	22.00	
<i>For Elevated Installation >35' To 40', Add</i>	27.50	
<i>For Elevated Installation >40', Add</i>	30.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50	
26 05 33 13-2579 EA 2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	124.69	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-2580 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ⁽²⁶⁾		
<small>(05 33 13-2580)</small>		
26 05 33 13-2581 EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	43.19	12.50
<i>For Work In Restricted Working Space, Add</i>	9.38	
<i>For Elevated Installation >10' To 15', Add</i>	3.13	
<i>For Elevated Installation >15' To 20', Add</i>	6.25	
<i>For Elevated Installation >20' To 25', Add</i>	7.81	
<i>For Elevated Installation >25' To 30', Add</i>	10.94	
<i>For Elevated Installation >30' To 35', Add</i>	12.50	
<i>For Elevated Installation >35' To 40', Add</i>	15.63	
<i>For Elevated Installation >40', Add</i>	17.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2582 EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	55.97	15.50
<i>For Work In Restricted Working Space, Add</i>	11.63	
<i>For Elevated Installation >10' To 15', Add</i>	3.88	
<i>For Elevated Installation >15' To 20', Add</i>	7.75	
<i>For Elevated Installation >20' To 25', Add</i>	9.69	
<i>For Elevated Installation >25' To 30', Add</i>	13.57	
<i>For Elevated Installation >30' To 35', Add</i>	15.50	
<i>For Elevated Installation >35' To 40', Add</i>	19.38	
<i>For Elevated Installation >40', Add</i>	21.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.63	
26 05 33 13-2583 EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	67.63	19.00
<i>For Work In Restricted Working Space, Add</i>	14.25	
<i>For Elevated Installation >10' To 15', Add</i>	4.75	
<i>For Elevated Installation >15' To 20', Add</i>	9.50	
<i>For Elevated Installation >20' To 25', Add</i>	11.88	
<i>For Elevated Installation >25' To 30', Add</i>	16.63	
<i>For Elevated Installation >30' To 35', Add</i>	19.00	
<i>For Elevated Installation >35' To 40', Add</i>	23.76	
<i>For Elevated Installation >40', Add</i>	26.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.25	
26 05 33 13-2584 EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	92.24	22.00
<i>For Work In Restricted Working Space, Add</i>	17.25	
<i>For Elevated Installation >10' To 15', Add</i>	5.75	
<i>For Elevated Installation >15' To 20', Add</i>	11.50	
<i>For Elevated Installation >20' To 25', Add</i>	14.38	
<i>For Elevated Installation >25' To 30', Add</i>	20.13	
<i>For Elevated Installation >30' To 35', Add</i>	23.00	
<i>For Elevated Installation >35' To 40', Add</i>	28.76	
<i>For Elevated Installation >40', Add</i>	31.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.25	
26 05 33 13-2585 EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	117.29	25.01
<i>For Work In Restricted Working Space, Add</i>	20.25	
<i>For Elevated Installation >10' To 15', Add</i>	6.75	
<i>For Elevated Installation >15' To 20', Add</i>	13.50	
<i>For Elevated Installation >20' To 25', Add</i>	16.88	
<i>For Elevated Installation >25' To 30', Add</i>	23.63	
<i>For Elevated Installation >30' To 35', Add</i>	27.00	
<i>For Elevated Installation >35' To 40', Add</i>	33.76	
<i>For Elevated Installation >40', Add</i>	37.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.25	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2586	EA	2"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 155.74		28.00
			<i>For Work In Restricted Working Space, Add</i> 23.25		
			<i>For Elevated Installation >10' To 15', Add</i> 7.75		
			<i>For Elevated Installation >15' To 20', Add</i> 15.50		
			<i>For Elevated Installation >20' To 25', Add</i> 19.38		
			<i>For Elevated Installation >25' To 30', Add</i> 27.13		
			<i>For Elevated Installation >30' To 35', Add</i> 31.00		
			<i>For Elevated Installation >35' To 40', Add</i> 38.76		
			<i>For Elevated Installation >40', Add</i> 42.63		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 23.25		
26 05 33 13-2587			Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2585)</small>		
26 05 33 13-2588	EA	1/2"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 34.35		9.50
			<i>For Work In Restricted Working Space, Add</i> 7.13		
			<i>For Elevated Installation >10' To 15', Add</i> 2.38		
			<i>For Elevated Installation >15' To 20', Add</i> 4.75		
			<i>For Elevated Installation >20' To 25', Add</i> 5.94		
			<i>For Elevated Installation >25' To 30', Add</i> 8.31		
			<i>For Elevated Installation >30' To 35', Add</i> 9.50		
			<i>For Elevated Installation >35' To 40', Add</i> 11.88		
			<i>For Elevated Installation >40', Add</i> 13.06		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.13		
26 05 33 13-2589	EA	3/4"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 45.88		12.50
			<i>For Work In Restricted Working Space, Add</i> 9.38		
			<i>For Elevated Installation >10' To 15', Add</i> 3.13		
			<i>For Elevated Installation >15' To 20', Add</i> 6.25		
			<i>For Elevated Installation >20' To 25', Add</i> 7.81		
			<i>For Elevated Installation >25' To 30', Add</i> 10.94		
			<i>For Elevated Installation >30' To 35', Add</i> 12.50		
			<i>For Elevated Installation >35' To 40', Add</i> 15.63		
			<i>For Elevated Installation >40', Add</i> 17.19		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.38		
26 05 33 13-2590	EA	1"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 58.43		15.50
			<i>For Work In Restricted Working Space, Add</i> 11.63		
			<i>For Elevated Installation >10' To 15', Add</i> 3.88		
			<i>For Elevated Installation >15' To 20', Add</i> 7.75		
			<i>For Elevated Installation >20' To 25', Add</i> 9.69		
			<i>For Elevated Installation >25' To 30', Add</i> 13.57		
			<i>For Elevated Installation >30' To 35', Add</i> 15.50		
			<i>For Elevated Installation >35' To 40', Add</i> 19.38		
			<i>For Elevated Installation >40', Add</i> 21.32		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.63		
26 05 33 13-2591	EA	1-1/4"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 75.20		19.00
			<i>For Work In Restricted Working Space, Add</i> 14.25		
			<i>For Elevated Installation >10' To 15', Add</i> 4.75		
			<i>For Elevated Installation >15' To 20', Add</i> 9.50		
			<i>For Elevated Installation >20' To 25', Add</i> 11.88		
			<i>For Elevated Installation >25' To 30', Add</i> 16.63		
			<i>For Elevated Installation >30' To 35', Add</i> 19.00		
			<i>For Elevated Installation >35' To 40', Add</i> 23.76		
			<i>For Elevated Installation >40', Add</i> 26.13		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.25		
26 05 33 13-2592	EA	1-1/2"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 90.97		22.00
			<i>For Work In Restricted Working Space, Add</i> 16.50		
			<i>For Elevated Installation >10' To 15', Add</i> 5.50		
			<i>For Elevated Installation >15' To 20', Add</i> 11.00		
			<i>For Elevated Installation >20' To 25', Add</i> 13.75		
			<i>For Elevated Installation >25' To 30', Add</i> 19.25		
			<i>For Elevated Installation >30' To 35', Add</i> 22.00		
			<i>For Elevated Installation >35' To 40', Add</i> 27.50		
			<i>For Elevated Installation >40', Add</i> 30.25		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 16.50		
26 05 33 13-2593	EA	2"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 134.35		25.01
			<i>For Work In Restricted Working Space, Add</i> 18.75		
			<i>For Elevated Installation >10' To 15', Add</i> 6.25		
			<i>For Elevated Installation >15' To 20', Add</i> 12.50		
			<i>For Elevated Installation >20' To 25', Add</i> 15.63		
			<i>For Elevated Installation >25' To 30', Add</i> 21.88		
			<i>For Elevated Installation >30' To 35', Add</i> 25.00		
			<i>For Elevated Installation >35' To 40', Add</i> 31.26		
			<i>For Elevated Installation >40', Add</i> 34.38		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 18.75		
26 05 33 13-2594			Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-2452)</small>		
26 05 33 13-2595	EA	3/4" To 1-1/4"	Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) 149.61		27.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 20.55		
26 05 33 13-2596	EA	1-1/2" To 2-1/2"	Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) 525.42		50.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 37.99		
26 05 33 13-2597	EA	3" To 4"	Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) 1,014.16		102.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 77.07		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2598				Replacement Covers And Gaskets For Conduit Body <small>(26 05 33 13-2452)</small>		
26 05 33 13-2599				Replacement Stamped Aluminum Conduit Body Cover <small>(26 05 33 13-2598)</small>		
	EA			1/2" Replacement Stamped Aluminum Conduit Body Cover	12.42	4.87
	EA			3/4" Replacement Stamped Aluminum Conduit Body Cover	15.11	5.69
	EA			1" Replacement Stamped Aluminum Conduit Body Cover	19.36	7.32
	EA			1-1/4" Replacement Stamped Aluminum Conduit Body Cover	23.59	8.94
	EA			1-1/2" Replacement Stamped Aluminum Conduit Body Cover	28.86	10.56
	EA			2" Replacement Stamped Aluminum Conduit Body Cover	34.10	12.19
	EA			2-1/2" Replacement Stamped Aluminum Conduit Body Cover	44.47	13.81
	EA			3" Replacement Stamped Aluminum Conduit Body Cover	58.11	19.50
	EA			3-1/2" Replacement Stamped Aluminum Conduit Body Cover	63.15	21.94
	EA			4" Replacement Stamped Aluminum Conduit Body Cover	79.53	27.63
26 05 33 13-2610				Replacement Cast Steel Conduit Body Cover <small>(26 05 33 13-2598)</small>		
	EA			1/2" Replacement Cast Steel Conduit Body Cover	14.24	4.87
	EA			3/4" Replacement Cast Steel Conduit Body Cover	16.70	5.69
	EA			1" Replacement Cast Steel Conduit Body Cover	23.27	7.32
	EA			1-1/4" Replacement Cast Steel Conduit Body Cover	28.88	8.94
	EA			1-1/2" Replacement Cast Steel Conduit Body Cover	35.02	10.56
	EA			2" Replacement Cast Steel Conduit Body Cover	41.16	12.19
	EA			2-1/2" Replacement Cast Steel Conduit Body Cover	47.26	13.81
	EA			3" Replacement Cast Steel Conduit Body Cover	64.73	19.50
	EA			3-1/2" Replacement Cast Steel Conduit Body Cover	73.57	21.94
	EA			4" Replacement Cast Steel Conduit Body Cover	92.71	27.63
26 05 33 13-2621				Replacement Velbuna Composition Conduit Body Gasket <small>(26 05 33 13-2598)</small>		
	EA			1/2" Replacement Velbuna Composition Conduit Body Gasket	11.60	4.87
	EA			3/4" Replacement Velbuna Composition Conduit Body Gasket	13.29	5.69
	EA			1" Replacement Velbuna Composition Conduit Body Gasket	17.33	7.32
	EA			1-1/4" Replacement Velbuna Composition Conduit Body Gasket	22.36	8.94
	EA			1-1/2" Replacement Velbuna Composition Conduit Body Gasket	25.61	10.56
	EA			2" Replacement Velbuna Composition Conduit Body Gasket	30.35	12.19
	EA			2-1/2" Replacement Velbuna Composition Conduit Body Gasket	39.33	13.81
	EA			3" Replacement Velbuna Composition Conduit Body Gasket	51.70	19.50
	EA			3-1/2" Replacement Velbuna Composition Conduit Body Gasket	57.07	21.94
	EA			4" Replacement Velbuna Composition Conduit Body Gasket	68.31	27.63
26 05 33 13-2632				Replacement Neoprene Conduit Body Gasket <small>(26 05 33 13-2598)</small>		
	EA			1/2" Replacement Neoprene Conduit Body Gasket	12.87	4.87
	EA			3/4" Replacement Neoprene Conduit Body Gasket	14.50	5.69
	EA			1" Replacement Neoprene Conduit Body Gasket	18.91	7.32
	EA			1-1/4" Replacement Neoprene Conduit Body Gasket	23.16	8.94
	EA			1-1/2" Replacement Neoprene Conduit Body Gasket	26.41	10.56
	EA			2" Replacement Neoprene Conduit Body Gasket	30.43	12.19
	EA			2-1/2" Replacement Neoprene Conduit Body Gasket	39.53	13.81
	EA			3" Replacement Neoprene Conduit Body Gasket	51.90	19.50
	EA			3-1/2" Replacement Neoprene Conduit Body Gasket	58.42	21.94
	EA			4" Replacement Neoprene Conduit Body Gasket	69.66	27.63
26 05 33 16				Boxes for Electrical Systems <small>(26 05 33)</small>		
				See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.		
26 05 33 16-0001				Steel Junction, Device, And Fixture Boxes, Rings And Covers <small>(26 05 33 16)</small>		
				Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0134 for steel box/switch assemblies.		
26 05 33 16-0002				4" Square Steel Boxes, Rings And Covers <small>(26 05 33 16-0001)</small>		
	EA			1-1/2" Depth, 4" Square Steel Box	45.10	20.52
				<i>For Stud Bracket, Add</i>	0.99	
	EA			2-1/8" Depth, 4" Square Steel Box	46.93	20.52
				<i>For Stud Bracket, Add</i>	1.78	
	EA			3-1/2" Depth, 4" Square Steel Box	53.24	20.52
				<i>For Stud Bracket, Add</i>	1.94	
	EA			1-1/2" Depth, 4" Square Steel Extension Ring	36.35	13.69
	EA			2-1/8" Depth, 4" Square Steel Extension Ring	29.97	13.69
	EA			1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	15.62	6.84
	EA			5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	15.91	6.84
	EA			3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	16.12	6.84
	EA			1" Depth, 1 Gang, 4" Square Steel Mud Ring	16.81	6.84
	EA			1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	17.01	6.84
	EA			1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	19.19	6.84
	EA			1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	16.45	6.84
	EA			5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	16.66	6.84
	EA			3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	16.92	6.84
	EA			1" Depth, 2 Gang, 4" Square Steel Mud Ring	19.15	6.84
	EA			1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring	19.61	6.84

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0019	EA		1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	22.45	6.84
26 05 33 16-0020	EA		3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	17.53	6.84
26 05 33 16-0021	EA		1" Depth, Fixture Cover, 4" Square Mud Rings.....	19.34	6.84
26 05 33 16-0022	EA		One Toggle Switch, 4" Square Steel Exposed Work Cover.....	16.41	6.84
26 05 33 16-0023	EA		Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	16.58	6.84
26 05 33 16-0024	EA		One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	16.37	6.84
26 05 33 16-0025	EA		Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	16.85	6.84
26 05 33 16-0026	EA		One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	17.26	6.84
26 05 33 16-0027	EA		One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0028	EA		One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	17.19	6.84
26 05 33 16-0029	EA		Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0030	EA		One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	17.19	6.84
26 05 33 16-0031	EA		One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.36	6.84
26 05 33 16-0032	EA		One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0033	EA		One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0034	EA		Flat, 4" Square Steel Exposed Work Cover.....	14.98	6.84
26 05 33 16-0035			4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036	EA		1-1/2" Depth, 4-11/16" Square Steel Box.....	51.90	20.52
26 05 33 16-0037	EA		2-1/8" Depth, 4-11/16" Square Steel Box.....	47.74	20.52
			<i>For Stud Bracket, Add</i>	0.94	
26 05 33 16-0038	EA		3-1/4" Depth, 4-11/16" Square Steel Box.....	68.62	20.52
26 05 33 16-0039	EA		1-1/2" Depth, 4-11/16" Square Extension Ring.....	38.09	13.69
26 05 33 16-0040	EA		2-1/8" Depth, 4-11/16" Square Extension Ring.....	39.11	13.69
26 05 33 16-0041	EA		1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.77	6.84
26 05 33 16-0042	EA		5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.82	6.84
26 05 33 16-0043	EA		3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	21.60	6.84
26 05 33 16-0044	EA		1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	20.89	6.84
26 05 33 16-0045	EA		1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	20.73	6.84
26 05 33 16-0046	EA		1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	28.10	6.84
26 05 33 16-0047	EA		1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.19	6.84
26 05 33 16-0048	EA		5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.57	6.84
26 05 33 16-0049	EA		3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.60	6.84
26 05 33 16-0050	EA		1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.20	6.84
26 05 33 16-0051	EA		1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.75	6.84
26 05 33 16-0052	EA		1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	31.06	6.84
26 05 33 16-0053	EA		1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	20.84	6.84
26 05 33 16-0054	EA		5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	21.03	6.84
26 05 33 16-0055	EA		One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	25.92	6.84
26 05 33 16-0056	EA		Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	27.29	6.84
26 05 33 16-0057	EA		One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	25.52	6.84
26 05 33 16-0058	EA		Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	24.03	6.84
26 05 33 16-0059	EA		One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	29.02	6.84
26 05 33 16-0060	EA		One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.28	6.84
26 05 33 16-0061	EA		One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.28	6.84
26 05 33 16-0062	EA		One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.28	6.84
26 05 33 16-0063	EA		Flat, 4-11/16" Square Steel Exposed Work Cover.....	16.10	6.84
26 05 33 16-0064			Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065	EA		16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	22.41	10.27
26 05 33 16-0066	EA		Single Box Bracket, One 4" Or 4-11/16" Square Box.....	16.59	6.85
26 05 33 16-0067	EA		16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	26.84	10.27
26 05 33 16-0068	EA		24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	29.12	10.27
26 05 33 16-0069			4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070	EA		1-1/2" Depth, 4" Steel Octagon Box.....	37.52	17.10
			<i>For Stud Bracket, Add</i>	2.41	
26 05 33 16-0071	EA		2-1/8" Depth, 4" Steel Octagon Box.....	39.13	17.10
26 05 33 16-0072	EA		Flat, 4" Octagon Steel Exposed Work Cover.....	14.88	6.84
26 05 33 16-0073			4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
			Note: Placed in concrete slabs or walls.		
26 05 33 16-0074	EA		2" Depth, 4" Steel Octagonal Concrete Ring.....	62.00	
26 05 33 16-0075	EA		2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	65.93	
26 05 33 16-0076	EA		3" Depth, 4" Steel Octagonal Concrete Ring.....	68.98	
26 05 33 16-0077	EA		3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	71.93	
26 05 33 16-0078	EA		4" Depth, 4" Steel Octagonal Concrete Ring.....	79.09	
26 05 33 16-0079	EA		5" Depth, 4" Steel Octagonal Concrete Ring.....	86.53	
26 05 33 16-0080	EA		6" Depth, 4" Steel Octagonal Concrete Ring.....	92.21	
26 05 33 16-0081	EA		Flat, 4" Steel Octagonal Concrete Cover.....	17.09	6.84
26 05 33 16-0082			4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083	EA		2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	60.29	17.10
26 05 33 16-0084	EA		3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	66.34	18.48
26 05 33 16-0085	EA		4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	80.40	20.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	106.51	22.57
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	161.29	24.63
26 05 33 16-0088 EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	85.12	17.10
26 05 33 16-0089 EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	92.80	18.48
26 05 33 16-0090 EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	125.08	20.52
26 05 33 16-0091 EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	162.06	22.57
26 05 33 16-0092 EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	271.13	24.63
26 05 33 16-0093 EA 2 Device, Gang Box Mud Ring.....	26.60	6.84
26 05 33 16-0094 EA 3 Device, Gang Box Mud Ring.....	27.02	6.84
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring.....	31.81	6.84
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring.....	40.03	6.84
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring.....	58.07	6.84
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover	22.49	6.84
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover	26.97	6.84
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover	32.92	6.84
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover	40.49	6.84
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover	59.35	6.84
26 05 33 16-0103 Steel Switch Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	40.62	17.10
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	41.31	17.10
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	44.90	17.10
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	52.95	17.10
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	53.65	17.10
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	64.57	17.10
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers <small>(26 05 33 16-0001)</small>		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box.....	37.35	17.10
<i>For Stud Bracket, Add</i>	3.88	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box.....	38.09	17.10
<i>For Stud Bracket, Add</i>	1.67	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box.....	39.74	17.10
<i>For Stud Bracket, Add</i>	2.28	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	25.03	10.26
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	24.28	10.26
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	8.47	3.42
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	8.61	3.42
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.91	3.42
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	7.95	3.42
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	9.37	3.42
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover	7.95	3.42
26 05 33 16-0122 3"-1/2" Depth, 3-3/4" Steel Masonry Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0123 EA 1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	56.62	23.95
26 05 33 16-0124 EA 2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	63.80	25.31
26 05 33 16-0125 EA 3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	73.63	27.36
26 05 33 16-0126 EA 4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	84.21	30.10
26 05 33 16-0127 Cast Boxes <small>(26 05 33 16)</small>		
<i>Note: For flush or surface mount.</i>		
26 05 33 16-0128 Cast Iron Alloy Boxes <small>(26 05 33 16-0127)</small>		
<i>See CSI section 26 27 26 00-0271 for box covers.</i>		
26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes <small>(26 05 33 16-0128)</small>		
<i>Note: Up to 2" deep boxes.</i>		
26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	107.78	41.05
<i>Note: One hub.</i>		
26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	118.10	47.89
<i>Note: One hub.</i>		
26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	140.03	58.15
<i>Note: One hub.</i>		
26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	136.57	54.73
<i>Note: Two hub.</i>		
26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	171.87	65.00
<i>Note: Two hub.</i>		
26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	136.13	54.73
<i>Note: Two hub.</i>		
26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	163.25	65.00
<i>Note: Two hubs.</i>		
26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	138.90	54.73
<i>Note: Two hubs.</i>		
26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	163.28	65.00
<i>Note: Two hubs.</i>		
26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	136.13	54.73
<i>Note: Two hubs.</i>		
26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	159.86	65.00
<i>Note: Two hubs.</i>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	163.95	68.41
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	194.64	82.10
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	169.27	68.41
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	214.92	82.10
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	172.74	68.41
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	206.58	82.10
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	163.50	68.41
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	208.93	82.10
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	205.62	82.10
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	248.16	99.20
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	111.70	41.05
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	128.97	47.89
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	152.57	58.15
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	143.72	54.73
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	166.93	65.00
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	200.95	78.67
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	176.69	65.00
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	226.48	82.10
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	126.93	44.47
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	141.77	51.31
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	165.78	61.57
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	156.19	58.15
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	178.72	68.41
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	138.69	44.47
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	152.83	51.31
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	173.88	58.15
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	197.41	68.41
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0271 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	94.09	34.21
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	108.81	41.05
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	124.09	51.31
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	89.53	34.21
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	112.02	41.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	121.90	47.89
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	146.80	58.15
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	183.57	71.83
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	129.84	47.89
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	142.94	58.15
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	125.32	47.89
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	145.63	58.15
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	122.41	47.89
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	145.63	58.15
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	115.68	47.89
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	152.79	58.15
26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	147.68	61.57
26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	179.68	75.26
26 05 33 16-0191 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	154.66	61.57
26 05 33 16-0192 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	203.85	75.26
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	154.07	61.57
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	188.87	75.26
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	190.95	75.26
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	187.97	75.26
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	229.72	92.36
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	102.18	34.21
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	122.46	41.05
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	142.86	51.31
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	129.85	41.05
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	132.36	47.89
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	159.65	58.15
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	182.37	71.83
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	161.36	58.15
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	199.66	75.26
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	120.36	37.62
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	138.60	44.47
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	152.75	54.73
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	152.83	51.31
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	161.05	61.57
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	198.48	75.26
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	120.27	37.62

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	139.70	44.47
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	155.36	51.31
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	177.96	61.57
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	155.36	51.31
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	177.96	61.57
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	163.55	54.73
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	185.50	65.00
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	178.33	47.89
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	201.46	58.15
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	187.43	54.73
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	228.84	61.57
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	216.01	68.41
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body	208.21	61.57
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA	250.19	68.41
26 05 33 16-0234 Non Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0271 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	68.04	28.74
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	77.95	33.53
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	89.54	40.71
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	87.53	38.32
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	102.98	45.50
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	124.88	55.07
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	87.81	38.32
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	102.23	45.50
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	122.32	55.07
26 05 33 16-0245 EA 1/2" Depth, Type FSFC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	110.75	47.89
26 05 33 16-0246 EA 3/4" Depth, Type FSFC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	126.94	57.46
26 05 33 16-0247 EA 1" Depth, Type FSFC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	150.01	69.44
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	68.86	28.74
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	67.42	28.74
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	79.91	33.53
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	90.34	40.71
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	89.15	38.32
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	100.86	45.50
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	120.75	55.07



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0256				Shallow, Two Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
	26 05 33 16-0257	EA		1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	73.26	31.13
	26 05 33 16-0258	EA		3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	83.99	35.92
	26 05 33 16-0259	EA		1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	94.48	43.10
	26 05 33 16-0260	EA		1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	90.52	40.71
	26 05 33 16-0261	EA		3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	111.29	47.89
	26 05 33 16-0262	EA		1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	131.89	57.46
	26 05 33 16-0263	EA		1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	92.44	40.71
	26 05 33 16-0264	EA		3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	116.60	47.89
	26 05 33 16-0265	EA		1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	127.64	57.46
	26 05 33 16-0266	EA		1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	113.16	50.29
	26 05 33 16-0267	EA		3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	147.22	59.86
	26 05 33 16-0268	EA		1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	154.67	71.83
26 05 33 16-0269				Poke Thru Units <small>(26 05 33 16)</small>		
26 05 33 16-0270				Surface Poke Thru Units <small>(26 05 33 16-0269)</small>		
				Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
	26 05 33 16-0271	EA		Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	613.87	51.31
	26 05 33 16-0272	EA		Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	392.07	
	26 05 33 16-0273	EA		20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC37REC.	54.14	13.69
	26 05 33 16-0274	EA		Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTGBK.	65.74	6.84
	26 05 33 16-0275	EA		Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	694.39	54.73
	26 05 33 16-0276	EA		Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	367.03	
	26 05 33 16-0277	EA		Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	92.91	20.52
	26 05 33 16-0278	EA		Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTGBK.	65.74	6.84
	26 05 33 16-0279	EA		Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	191.76	13.69
	26 05 33 16-0280	EA		Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	549.33	47.89
	26 05 33 16-0281	EA		Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTGBK.	45.62	6.84
	26 05 33 16-0282	EA		Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	546.79	47.89
	26 05 33 16-0283	EA		Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	63.54	6.84
26 05 33 16-0284				Recessed Poke Thru Units <small>(26 05 33 16-0269)</small>		
				Note: Excludes concrete drilling.		
26 05 33 16-0285				Evolution 6AT Poke Thru Units <small>(26 05 33 16-0284)</small>		
				Note: Excludes concrete drilling.		
	26 05 33 16-0286	EA		Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.35	54.73
	26 05 33 16-0287	EA		Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.45	54.73

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	787.59	54.73
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	787.59	54.73
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.35	54.73
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.35	54.73
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	755.62	54.73
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	479.96	51.31
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	513.36	51.31
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	516.67	51.31
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	151.14	27.36
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	329.59	13.69
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	329.59	13.69
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	274.82	13.69
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	40.28	3.42
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	21.63	6.84
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	24.60	6.84
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	21.55	6.84
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	21.60	6.84
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	21.48	6.84
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	24.91	6.84
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	24.67	6.84
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	25.21	6.84
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	21.19	6.84
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	21.21	6.84
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	20.95	6.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC)..... Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.	20.95	6.84
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.	48.18	10.26
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)..... Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.	19.39	6.84
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.	19.81	6.84
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated	144.28	12.31
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A)..... Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	24.40	6.84
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA)..... Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	25.33	6.84
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH)..... Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	25.98	6.84
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA)..... Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.	41.04	13.69
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA)..... Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	47.55	17.10
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA)..... Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	51.80	17.10
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA)..... Note: One-gang 1 1/4" trade size conduit housing assembly.	39.61	13.69
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA)..... Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	25.17	6.84
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH)..... Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	25.17	6.84
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA)..... Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	26.39	6.84
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA)..... Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	27.22	6.84
26 05 33 16-0328 Evolution 8AT Poke Thru Units <small>(26 05 33 16-0284)</small> Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,076.54	54.73
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,025.58	54.73
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,088.08	54.73
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,015.99	54.73
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,006.90	54.73
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	614.80	51.31
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	686.58	51.31
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	179.15	27.36
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	356.02	13.69

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT).....	356.02	13.69
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.		
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS).....	62.08	3.42
Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.		
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B).....	22.27	6.84
Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.		
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP).....	22.38	6.84
Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC).....	22.51	6.84
Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCI's, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A).....	25.69	6.84
Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS).....	30.60	6.84
Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.		
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST).....	30.55	6.84
Note: Device plate accepts Crestron double-gang decorator style devices.		
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1).....	21.67	6.84
Note: Receptacle opening 1 3/8". For 8" poke-thru units only.		
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2).....	21.92	6.84
Note: Receptacle opening 1 9/16". For 8" poke-thru units only.		
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC).....	21.67	6.84
Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER).....	21.67	6.84
Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP).....	30.16	6.84
Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP).....	25.55	6.84
Note: Two-gang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV).....	29.08	6.84
Note: Divider allows for separation of services when required.		
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA).....	41.04	13.69
Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.		

26 05 33 23 Surface Raceways for Electrical Systems (26 05 33)**26 05 33 23-0001 Raceways (26 05 33 23)****26 05 33 23-0002 Wireway With Screw Cover (26 05 33 23-0001)**

Note: Also known as wire trough. Galvanized steel construction. Mounted exposed on flat wall surface.

26 05 33 23-0003 2-1/2" x 2-1/2", Wireway With Screw Cover (26 05 33 23-0002)

26 05 33 23-0004 LF 2-1/2" x 2-1/2", NEMA 1, Surface Mounted Wireway With Screw Cover.....	24.99	6.25
For Combination Hinged Screw Cover, Add	0.62	
For Concrete Or Masonry Surface, Add	0.63	
26 05 33 23-0005 EA 2-1/2" x 2-1/2", End Plate For Surface Mounted Wireway With Screw Cover.....	23.28	9.38
For Combination Hinged Screw Cover, Add	0.23	
26 05 33 23-0006 EA 2-1/2" x 2-1/2", Coupling For Surface Mounted Wireway With Screw Cover.....	27.91	11.69
For Combination Hinged Screw Cover, Add	0.23	
26 05 33 23-0007 EA 2-1/2" x 2-1/2", Panel Adapter For Surface Mounted Wireway With Screw Cover.....	57.04	21.88
For Combination Hinged Screw Cover, Add	0.66	
26 05 33 23-0008 EA 2-1/2" x 2-1/2", Elbow For Surface Mounted Wireway With Screw Cover.....	83.49	21.88
For Combination Hinged Screw Cover, Add	1.99	
26 05 33 23-0009 EA 2-1/2" x 2-1/2", Tee For Surface Mounted Wireway With Screw Cover.....	122.83	31.13
For Combination Hinged Screw Cover, Add	3.03	
26 05 33 23-0010 EA 2-1/2" x 2-1/2", Cross For Surface Mounted Wireway With Screw Cover.....	137.57	34.38
For Combination Hinged Screw Cover, Add	3.44	

26 05 33 23-0011 4" x 4", Wireway With Screw Cover (26 05 33 23-0002)

26 05 33 23-0012 LF 4" x 4", NEMA 1, Surface Mounted Wireway With Screw Cover.....	30.71	7.88
For Combination Hinged Screw Cover, Add	0.75	
For Concrete Or Masonry Surface, Add	0.78	
26 05 33 23-0013 LF 4" x 4", NEMA 3R, Surface Mounted Wireway With Screw Cover.....	51.23	7.88
For Combination Hinged Screw Cover, Add	1.78	
For Concrete Or Masonry Surface, Add	0.78	
26 05 33 23-0014 EA 4" x 4", End Plate For Surface Mounted Wireway With Screw Cover.....	18.48	6.88
For Combination Hinged Screw Cover, Add	0.24	
26 05 33 23-0015 EA 4" x 4", Coupling For Surface Mounted Wireway With Screw Cover.....	30.98	13.13
For Combination Hinged Screw Cover, Add	0.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0016 EA 4" x 4", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	67.96 0.72	26.75
26 05 33 23-0017 EA 4" x 4", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	97.04 2.17	26.75
26 05 33 23-0018 EA 4" x 4", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	135.44 3.29	34.76
26 05 33 23-0019 EA 4" x 4", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	156.75 3.77	40.63
26 05 33 23-0020 6" x 6", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0021 LF 6" x 6", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	44.46 1.28 0.94	9.38
26 05 33 23-0022 LF 6" x 6", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	80.45 3.08 0.94	9.38
26 05 33 23-0023 EA 6" x 6", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	22.61 0.38	7.50
26 05 33 23-0024 EA 6" x 6", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	38.86 0.38	15.63
26 05 33 23-0025 EA 6" x 6", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	91.69 1.48	31.13
26 05 33 23-0026 EA 6" x 6", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	122.40 3.01	31.13
26 05 33 23-0027 EA 6" x 6", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	185.97 5.42	38.88
26 05 33 23-0028 EA 6" x 6", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	203.43 5.67	45.00
26 05 33 23-0029 8" x 8", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0030 LF 8" x 8", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	68.60 2.41 1.02	10.25
26 05 33 23-0031 LF 8" x 8", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	119.84 4.97 1.02	10.25
26 05 33 23-0032 EA 8" x 8", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	24.82 0.43	8.13
26 05 33 23-0033 EA 8" x 8", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	42.32 0.43	16.88
26 05 33 23-0034 EA 8" x 8", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	102.06 1.68	34.26
26 05 33 23-0035 EA 8" x 8", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	151.94 4.17	34.26
26 05 33 23-0036 EA 8" x 8", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	220.80 6.82	42.26
26 05 33 23-0037 EA 8" x 8", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	303.31 10.04	51.26
26 05 33 23-0038 10" x 10", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0039 LF 10" x 10", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	97.69 3.69 1.19	11.88
26 05 33 23-0040 LF 10" x 10", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	167.04 7.16 1.19	11.88
26 05 33 23-0041 EA 10" x 10", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	33.44 0.73	9.38
26 05 33 23-0042 EA 10" x 10", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	52.19 0.73	18.75
26 05 33 23-0043 EA 10" x 10", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	130.75 2.81	37.25
26 05 33 23-0044 EA 10" x 10", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	229.71 7.76	37.25
26 05 33 23-0045 EA 10" x 10", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	341.38 12.37	47.01
26 05 33 23-0046 EA 10" x 10", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	478.11 18.59	53.13
26 05 33 23-0047 12" x 12", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0048 LF 12" x 12", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	114.98 4.31 1.44	14.37
26 05 33 23-0049 LF 12" x 12", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	184.67 7.80 1.44	14.37
26 05 33 23-0050 EA 12" x 12", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	42.46 1.12	10.00

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 23-0051	EA	12" x 12", Coupling For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	62.47 1.12	20.00
26 05 33 23-0052	EA	12" x 12", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	166.19 4.25	40.63
26 05 33 23-0053	EA	12" x 12", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	297.24 10.80	40.63
26 05 33 23-0054	EA	12" x 12", Tee For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	381.80 14.09	50.00
26 05 33 23-0055	EA	12" x 12", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	605.89 24.67	56.26

- 26 05 33 23-0056 **Surface Metal Raceways** (26 05 33 23-0001)
Note: Exposed on flat wall surface.
- 26 05 33 23-0057 **One Piece Surface Metal Raceways** (26 05 33 23-0056)
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).

26 05 33 23-0058 3/4" x 17/32" One Piece Surface Metal Raceways (Wiremold #500) (26 05 33 23-0057)

Note: Available in ivory.

26 05 33 23-0059	LF	3/4" x 17/32" One Piece Surface Metal Raceway (Wiremold #500)..... <i>For Concrete Or Masonry Surface, Add</i>	5.13 0.19	1.87
26 05 33 23-0060	EA	Bushing (Wiremold #502)	5.33	2.50
26 05 33 23-0061	EA	One Or Two Hole Strap (Wiremold #504)	5.37	2.50
26 05 33 23-0062	EA	Connection Cover (Wiremold #506).....	5.53	2.50
26 05 33 23-0063	EA	Flat 90 Degree Elbow (Wiremold #511)	8.04	3.00
26 05 33 23-0064	EA	Flat 45 Degree Elbow (Wiremold #512)	12.49	3.13
26 05 33 23-0065	EA	Adjustable Internal Elbow (Wiremold #517)	10.01	3.75
26 05 33 23-0066	EA	Adjustable External Elbow (Wiremold #518).....	9.83	3.75

26 05 33 23-0067 3/4" x 21/32" One Piece Surface Metal Raceways (Wiremold #700) (26 05 33 23-0057)

Note: Available in ivory and white.

26 05 33 23-0068	LF	3/4" x 21/32" One Piece Surface Metal Raceway (Wiremold #700)..... <i>For Concrete Or Masonry Surface, Add</i>	6.52 0.25	2.50
26 05 33 23-0069	EA	Bushing (Wiremold #702)	5.44	2.50
26 05 33 23-0070	EA	One Or Two Hole Strap (Wiremold #704)	5.57	2.50
26 05 33 23-0071	EA	Connection Cover (Wiremold #706).....	5.59	2.50
26 05 33 23-0072	EA	Flat 90 Degree Elbow (Wiremold #711)	12.08	5.00
26 05 33 23-0073	EA	Flat 45 Degree Elbow (Wiremold #712)	17.62	5.00
26 05 33 23-0074	EA	Adjustable Internal Elbow (Wiremold #717)	12.85	5.00
26 05 33 23-0075	EA	Adjustable External Elbow (Wiremold #718).....	12.50	5.00

26 05 33 23-0076 One Piece Surface Metal Raceways Fittings (Wiremold #500 And 700 Fittings) (26 05 33 23-0057)

Note: Available in ivory.

26 05 33 23-0077	EA	18" Flex Fitting, For #500 Or 700 (Wiremold #5700F)	30.61	3.75
26 05 33 23-0078	EA	Galvanized Coupling For #500 Or 700 (Wiremold #5701)	5.54	2.50
26 05 33 23-0079	EA	Supporting Clip, For #500 Or 700 (Wiremold #5703).....	5.54	2.50
26 05 33 23-0080	EA	Ground Clamp (Wiremold #5709)	14.38	3.75
26 05 33 23-0081	EA	Grounding Connector (Wiremold #5709GC).....	12.42	3.75
26 05 33 23-0082	EA	L Or R (Left Or Right) Twisted Internal Ell (Wiremold #5711)	14.47	5.00
26 05 33 23-0083	EA	Tee (Wiremold #5715)	16.58	6.25
26 05 33 23-0084	EA	2-1/2" x 2-3/8" x 2-1/2" Corner Box (Wiremold #5719).....	25.99	5.00
26 05 33 23-0085	EA	Utility Box For #500 Or #700 (Wiremold #57242)	20.56	5.00
26 05 33 23-0086	EA	2-3/8" Diameter, Blank Cover (Wiremold #5731)	11.26	3.13
26 05 33 23-0087	EA	3" Diameter, Outlet Box (Wiremold #5733).....	24.87	5.00
26 05 33 23-0088	EA	4-3/4" Square x 1-3/8" Deep, Distribution Box (Wiremold #5735).....	24.79	5.00
26 05 33 23-0089	EA	4-3/8" Blank Cover (Wiremold #5736).....	11.85	3.13
26 05 33 23-0090	EA	4-3/4" Diameter, Extension Box/Open Base (Wiremold #5737).....	22.75	5.00
26 05 33 23-0091	EA	5-1/2" Diameter, Extension Box/Open Base (Wiremold #5737A).....	22.04	5.00
26 05 33 23-0092	EA	4-3/4" Diameter, Fixture Box/Solid Base (Wiremold #5738)	22.20	5.00
26 05 33 23-0093	EA	5-1/2" Diameter, Fixture Box/Solid Base (Wiremold #5738A).....	22.20	5.00
26 05 33 23-0094	EA	5-1/2" Diameter, Fan Box/Solid Base (Wiremold #5738AF).....	24.79	5.00
26 05 33 23-0095	EA	6-3/8" Diameter, Fixture Box/Solid Base (Wiremold #5739).....	24.52	5.00
26 05 33 23-0096	EA	6-3/8" Diameter, Extension Box/Open Base (Wiremold #5739A).....	26.00	5.00
26 05 33 23-0097	EA	Standard Switch Box For #500, Or #700 (Wiremold #57240).....	30.53	8.13
26 05 33 23-0098	EA	Duplex Receptacle And Box, Ground, For #500 Or #700 (Wiremold #57243G)	49.60	15.63
26 05 33 23-0099	EA	2-13/16" x 4-5/8" x 1-3/8" Switch And Receptacle Box For Shallow Type Switches (Wiremold #5741).....	24.00	8.13
26 05 33 23-0100	EA	1 Gang, 4-5/8" x 2-7/8" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744)	35.75	8.13
26 05 33 23-0101	EA	2 Gang, 4-3/4" x 4-3/4" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-2).....	40.41	8.13
26 05 33 23-0102	EA	3 Gang, 4-5/8" x 6-1/2" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-3).....	59.37	8.13
26 05 33 23-0103	EA	1 Gang, Signal Box (Wiremold #5744S)	32.15	6.88
26 05 33 23-0104	EA	2 Gang, Signal Box (Wiremold #5744S-2).....	35.51	6.88
26 05 33 23-0105	EA	3 Gang, Signal Box (Wiremold #5744S-3).....	55.00	6.88
26 05 33 23-0106	EA	4-5/8" x 2-7/8" x 1-3/4" Combination Switch And Receptacle Box With 1/2" KO's (Wiremold #5745).....	24.89	8.13
26 05 33 23-0107	EA	4-5/8" x 2-7/8" x 1-3/8", 1 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747)	22.35	8.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0108 EA 4-3/4" x 4-3/4" x 1-3/8", 2 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-2).....	29.88	8.13
26 05 33 23-0109 EA 4-5/8" x 6-1/2" x 2-3/4", 3 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-3).....	54.52	8.13
26 05 33 23-0110 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748).....	23.63	8.13
26 05 33 23-0111 EA 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-2).....	31.41	8.13
26 05 33 23-0112 EA 4-5/8" x 6-1/2" x 1-3/4", 3 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-3).....	53.10	8.13
26 05 33 23-0113 EA 4-5/8" x 8-11/32" x 1-3/4", 4 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-4).....	76.97	8.13
26 05 33 23-0114 EA 4-5/8" x 10-5/32" x 1-3/4", 5 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-5).....	124.44	8.13
26 05 33 23-0115 EA 4-5/8" x 11-31/32" x 1-3/4", 6 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-6).....	126.56	8.13
26 05 33 23-0116 EA 4-3/8" x 2-7/8" x 15/16" Shallow Switch And Receptacle Box For Shallow Duplex Devices (Wiremold #5748-S).....	23.38	8.13
26 05 33 23-0117 EA 4-5/8" x 2-7/8" x 15/16", 1 Gang, Flush-Type Extension Adapter (Wiremold #5751).....	22.84	8.13
26 05 33 23-0118 EA 4-3/4" x 4-3/4" x 15/16", 2 Gang, Flush-Type Extension Adapter (Wiremold #5751-2).....	29.12	8.13
26 05 33 23-0119 EA 4-5/8" x 6-1/2" x 15/16", 3 Gang, Flush-Type Extension Adapter (Wiremold #5751-3).....	53.58	8.13
26 05 33 23-0120 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Deep Flush-Type Extension Adapter (Wiremold #5751A).....	24.38	8.13
26 05 33 23-0121 EA 4-11/16" x 4-11/16" x 1-3/8", 2 Gang, Alarm Device Box (Wiremold #5752).....	30.44	8.13
26 05 33 23-0122 EA 4-11/16" x 4-11/16" x 2-3/4", 2 Gang, Extra Deep Alarm Device Box (Wiremold #5753).....	42.17	8.13
26 05 33 23-0123 EA Blank Extension Box (Wiremold #5760).....	14.79	3.13
26 05 33 23-0124 EA 1/2" Special Nipple (Wiremold #5780).....	14.16	3.13
26 05 33 23-0125 EA 1/2" Box Connector (Wiremold #5781).....	9.91	3.13
26 05 33 23-0126 EA 3/4" Box Connector (Wiremold #5781A).....	17.69	3.75
26 05 33 23-0127 EA 1/2" Conduit Connector (Wiremold #5782).....	9.98	3.13
26 05 33 23-0128 EA 3/4" Conduit Connector (Wiremold #5782A).....	21.73	3.75
26 05 33 23-0129 EA 1/2" Elbow Conduit Connector (Wiremold #5784).....	19.64	3.75
26 05 33 23-0130 EA Combination Connector, To Any 3-1/4" Or 4" Outlet Box (Wiremold #5785).....	11.71	3.75
26 05 33 23-0131 EA Offset Connector (Wiremold #5786).....	18.37	3.75
26 05 33 23-0132 EA Armor Cable Connector (Wiremold #5790B).....	10.11	3.13
26 05 33 23-0133 EA 1/2" Electrical Metallic Tubing (EMT) Connector, For #500 Or 700 (Wiremold #5791).....	8.83	2.50

26 05 33 23-0134 1-9/16" x 11/32" One Piece Surface Metal Raceways (Wiremold #1500) (26 05 33 23-0057)

Note: Galvanized finish.

26 05 33 23-0135 LF 1-9/16" x 11/32" One Piece Surface Metal Raceway (Wiremold #1500-10).....	9.16	3.13
<i>For Concrete Or Masonry Surface, Add 0.31</i>		
26 05 33 23-0136 EA Wire Clip (Wiremold #1500WC).....	5.96	2.50
26 05 33 23-0137 EA Bushing (Wiremold #1502).....	7.14	3.13
26 05 33 23-0138 EA 2-Hole Strap (Wiremold #1504).....	8.18	3.75
26 05 33 23-0139 EA Flat Elbow (Wiremold #1511).....	30.41	11.88
26 05 33 23-0140 EA Internal Elbow (Wiremold #1517).....	31.23	11.88
26 05 33 23-0141 EA Adapter Fitting (Wiremold #1517B).....	33.15	11.88
26 05 33 23-0142 EA External Elbow (Wiremold #1518).....	32.99	11.88
26 05 33 23-0143 EA Utility Box (Wiremold #1528).....	28.57	8.13
26 05 33 23-0144 EA Junction Box (Wiremold #1542D).....	29.34	8.13
26 05 33 23-0145 EA Duplex Receptacle (Wiremold #1543GL).....	57.34	15.63
26 05 33 23-0146 EA Single Receptacle Box (Wiremold #1546A).....	30.10	8.13
26 05 33 23-0147 EA Duplex Receptacle Box (Wiremold #1546B).....	35.96	8.13
26 05 33 23-0148 EA Telephone Box (Wiremold #1546T).....	35.35	8.13
26 05 33 23-0149 EA Combination Connection (Wiremold #1585).....	17.00	3.75

26 05 33 23-0150 2-7/32" x 28/32" One Piece Surface Metal Raceways (Wiremold #2600) (26 05 33 23-0057)

Note: Galvanized finish.

26 05 33 23-0151 LF 2-7/32" x 28/32" One Piece Surface Metal Raceway (Wiremold #2600-10).....	15.80	5.62
<i>For Concrete Or Masonry Surface, Add 0.56</i>		
26 05 33 23-0152 EA Wire Clip (Wiremold #2600WC).....	6.09	2.50
26 05 33 23-0153 EA Fiber Bushing (Wiremold #2602).....	6.70	2.50
26 05 33 23-0154 EA 2-5/8", 90 Degree Flat Elbow (Wiremold #2611).....	22.31	4.38
26 05 33 23-0155 EA 5" Diameter, Junction Box (Wiremold #2642D).....	33.29	6.25
26 05 33 23-0156 EA Service Fitting (Wiremold #2686FO).....	33.14	7.50

26 05 33 23-0157 Two Piece Surface Metal Raceways (26 05 33 23-0056)

Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).

26 05 33 23-0158 1-9/32" x 3/4" Two Piece Surface Metal Raceways (Wiremold #2000) (26 05 33 23-0157)

26 05 33 23-0159 LF 1-9/32" x 3/4" Two Piece Surface Metal Raceway Base And Cover (Wiremold #2000BC).....	9.18	3.13
<i>For Concrete Or Masonry Surface, Add 0.31</i>		
26 05 33 23-0160 EA Wire Clip (Wiremold #2000WC).....	4.51	2.50
26 05 33 23-0161 EA Coupling (Wiremold #2001).....	12.20	3.13
26 05 33 23-0162 EA Supporting Clip (Wiremold #2003).....	5.67	1.87
26 05 33 23-0163 EA Cover Clip (Wiremold #2006).....	5.30	1.87
26 05 33 23-0164 EA Ground Clamp (Wiremold #2009).....	13.26	3.13
26 05 33 23-0165 EA Entrance End Fitting (Wiremold #2010A2).....	27.12	9.38
26 05 33 23-0166 EA Entrance End Fitting (Wiremold #2010A3).....	45.39	12.50
26 05 33 23-0167 EA Blank End Fitting (Wiremold #2010B).....	7.38	3.13
26 05 33 23-0168 EA Flat 90 Degree Elbow (Wiremold #2011).....	23.36	8.13
26 05 33 23-0169 EA Tee (Wiremold #2015).....	41.96	11.75
26 05 33 23-0170 EA Internal Corner Coupling (Wiremold #2017TC).....	15.25	6.25
26 05 33 23-0171 EA Single Gang Device Box (Wiremold #2048).....	35.04	11.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0243 EA Duplex Receptacle Cover (Wiremold #3043BE).....	19.67	3.75
26 05 33 23-0244 EA 15 Amperes, 125 Volt Duplex Grounding Receptacle And Cover (Wiremold #3043GE).....	54.80	16.26
26 05 33 23-0245 EA 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #3044-2).....	60.47	11.88
26 05 33 23-0246 EA Duplex Receptacle Cover (Wiremold #3046BE).....	17.58	3.75
26 05 33 23-0247 EA Tap Off Fitting (Wiremold #3046H-2).....	19.04	3.13
26 05 33 23-0248 EA 1-15/16" Deep x 6" Long, Circuit Breaker Housing (Wiremold #3046KD).....	72.92	7.50
26 05 33 23-0249 EA 2-3/4" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046KTSQ).....	173.07	7.50
26 05 33 23-0250 EA 1-13/16" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046QOU).....	63.94	7.50
26 05 33 23-0251 EA 1-13/16" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046S).....	68.91	7.50
26 05 33 23-0252 EA 1-13/32" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046U).....	68.91	7.50
26 05 33 23-0253 EA Rectangular Receptacle Cover (Wiremold #3048R).....	22.53	3.75
26 05 33 23-0254 4-3/4" x 1-3/4" Two Piece Surface Metal Raceways (Wiremold #4000) ^{(26 05 33}		
<small>23-0157)</small>		
<small>Note: Available in gray enamel (G) or ivory (V).</small>		
26 05 33 23-0255 LF 4-3/4" x 1-3/4" Two Piece Surface Metal Raceway Base (Wiremold #4000B-10).....	17.62	5.62
<i>For Concrete Or Masonry Surface, Add</i>	<i>0.61</i>	
26 05 33 23-0256 LF Raceway Cover (Wiremold #4000C).....	5.69	0.62
26 05 33 23-0257 LF Divider (Wiremold #4000D).....	2.96	0.62
26 05 33 23-0258 EA Wire Clips For Conductors (Wiremold #4000WC).....	6.49	3.13
26 05 33 23-0259 EA Couplings (Wiremold #4001A).....	17.33	3.75
26 05 33 23-0260 EA Divider Clip (Wiremold #4001D).....	8.81	3.75
26 05 33 23-0261 EA Seam Clip (Wiremold #4006).....	8.92	3.75
26 05 33 23-0262 EA Single Device Fitting (Wiremold #4007C-1R).....	31.71	8.13
26 05 33 23-0263 EA Blank End Fittings (Wiremold #4010B).....	17.84	5.00
26 05 33 23-0264 EA Entrance End Fitting (Wiremold #4010DFO).....	68.55	19.25
26 05 33 23-0265 EA Flat 90 Degree Elbow (Wiremold #4011).....	62.41	15.63
26 05 33 23-0266 EA Radiused Flat 90 Degree Elbow (Wiremold #4011FO).....	72.07	15.63
26 05 33 23-0267 EA Internal Or External 45 Degree Elbow (Wiremold #4012TX).....	69.33	19.37
26 05 33 23-0268 EA Wall Box Connector (Wiremold #4014A).....	88.66	19.37
26 05 33 23-0269 EA Tee Fitting (Wiremold #4015).....	97.13	19.37
26 05 33 23-0270 EA Divided Tee Fitting (Wiremold #4015D).....	100.54	19.37
26 05 33 23-0271 EA Radiused Full Capacity Divided Tee Fitting (Wiremold #4015DFO).....	117.88	19.37
26 05 33 23-0272 EA Radiused Tee Fitting (Wiremold #4015FO).....	118.21	19.37
26 05 33 23-0273 EA Internal Elbow (Wiremold #4017).....	58.45	19.37
26 05 33 23-0274 EA Internal Elbow (Wiremold #4017FO).....	95.63	19.37
26 05 33 23-0275 EA Inverted Internal Elbow (Wiremold #4017N).....	63.56	19.37
26 05 33 23-0276 EA Internal Corner Coupling (Wiremold #4017TCA).....	55.74	19.37
26 05 33 23-0277 EA External Elbow (Wiremold #4018).....	81.68	19.37
26 05 33 23-0278 EA Radiused External Elbow (Wiremold #4018FO).....	92.98	19.37
26 05 33 23-0279 EA Single Locking Receptacle And Two RJ11/45 Modular Connectors Outlet Cover (Wiremold #4046ARJ).....	73.87	8.13
26 05 33 23-0280 EA Double Duplex Receptacle Outlet Cover (Wiremold #4046B-2).....	78.05	8.13
26 05 33 23-0281 EA Duplex Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046DRJ).....	78.05	8.13
26 05 33 23-0282 EA Double Duplex Receptacle And Four RJ11/45 Modular Connector Cover (Wiremold #4046DRJ-2).....	102.77	8.13
26 05 33 23-0283 EA Tap-Off Fitting (Wiremold #4046H-2).....	25.28	8.13
26 05 33 23-0284 EA Combination Single Receptacle And Phone Outlet Center (Wiremold #4046JRJ).....	65.11	3.75
26 05 33 23-0285 EA Rectangular Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046RRJ).....	79.78	8.13
26 05 33 23-0286 EA 1 Gang Device Plate (Wiremold #G4047C-1).....	24.03	8.13
26 05 33 23-0287 EA 2 Gang Device Plate (Wiremold #G4047C-2).....	27.44	8.13
26 05 33 23-0288 EA Device Mounting Bracket (Wiremold #4050).....	26.77	6.25
26 05 33 23-0289 EA #4000 To #3000 Take-off Connector (Wiremold #4074A).....	119.53	19.37
26 05 33 23-0290 EA Bridge Fitting (Wiremold #4075D).....	108.81	19.37
26 05 33 23-0291 EA Bridge Fitting (Wiremold #4075DA).....	108.81	19.37
26 05 33 23-0292 EA Panel Connector (Wiremold #4086A).....	99.82	36.88
26 05 33 23-0293 EA Reducing Connector Fitting (Wiremold #4089).....	59.52	19.37
26 05 33 23-0294 4-3/4" x 3-9/16" Two Piece Surface Metal Raceways (Wiremold #6000) ^{(26 05}		
<small>33 23-0157)</small>		
<small>Note: Available in gray enamel (G) or ivory (V).</small>		
26 05 33 23-0295 LF 4-3/4" x 3-9/16" Two Piece Surface Metal Raceway Base (Wiremold #6000B-10).....	24.55	6.88
<i>For Concrete Or Masonry Surface, Add</i>	<i>0.69</i>	
26 05 33 23-0296 LF Raceway Cover (Wiremold #6000C).....	6.82	1.87
26 05 33 23-0297 LF Divider (Wiremold #6000DA).....	6.95	1.87
26 05 33 23-0298 EA Wire Clips For Conductors (Wiremold #6000WC).....	7.33	3.13
26 05 33 23-0299 EA Couplings (Wiremold #6001A).....	21.56	6.25
26 05 33 23-0300 EA Divider Clip (Wiremold #6001D).....	9.78	3.13
26 05 33 23-0301 EA Converter Coupling (Wiremold #6001TX).....	26.77	8.13
26 05 33 23-0302 EA Connection Cover (Wiremold #6006).....	25.65	8.13
26 05 33 23-0303 EA Single Gang Device Plate (Wiremold #6007C-1).....	26.67	8.13
26 05 33 23-0304 EA Two Gang Device Plate (Wiremold #6007C-2).....	28.75	8.13
26 05 33 23-0305 EA C-Hanger (Wiremold #6008A).....	41.82	11.88
26 05 33 23-0306 EA Blank End Fittings (Wiremold #6010B).....	48.56	18.75
26 05 33 23-0307 EA Combination Flat Elbow (Wiremold #6011TX).....	81.60	18.75
26 05 33 23-0308 EA Internal-External 45 Degree Elbow (Wiremold #6012TX).....	82.39	18.00
26 05 33 23-0309 EA Connector Fitting (Wiremold #6014A).....	113.87	19.37
26 05 33 23-0310 EA Combination Internal-External Elbow (Wiremold #6017TX).....	85.58	21.25
26 05 33 23-0311 EA Circuit Breaker Housing (Wiremold #6046KD).....	139.95	21.25
26 05 33 23-0312 EA #6000 To #6000 Take-off Connector (Wiremold #6074).....	134.04	18.75
26 05 33 23-0313 EA #6000 To #4000 Take-off Connector (Wiremold #6074A).....	144.13	18.75
26 05 33 23-0314 EA Panel Connector (Wiremold #6086).....	106.02	43.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 33 23-0315 Two Piece Surface Aluminum Raceways (26 05 33 23-0056)
 Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).

26 05 33 23-0316 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceways (Wiremold #AL2000) (26 05 33 23-0315)

26 05 33 23-0317	LF	1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2000B)	11.29	3.13
		<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0318	LF	Aluminum Raceway Cover (Wiremold #AL2000C)	5.25	0.62
26 05 33 23-0319	EA	Wire Clip (Wiremold #AL2000WC)	5.63	2.50
26 05 33 23-0320	EA	Coupling (Wiremold #AL2001)	13.04	3.13
26 05 33 23-0321	EA	Supporting Clip (Wiremold #AL2003)	6.02	1.87
26 05 33 23-0322	EA	Cover Clip (Wiremold #AL2006)	7.43	1.87
26 05 33 23-0323	EA	Ground Clamp (Wiremold #AL2009)	10.82	3.13
26 05 33 23-0324	EA	Entrance End Fitting (Wiremold #AL2010A)	30.47	9.38
26 05 33 23-0325	EA	Blank End Fitting (Wiremold #AL2010B)	9.90	3.13
26 05 33 23-0326	EA	Flat 90 Degree Elbow (Wiremold #AL2011)	34.23	8.13
26 05 33 23-0327	EA	Tee (Wiremold #AL2015)	46.73	11.75
26 05 33 23-0328	EA	Internal Corner Elbow (Wiremold #AL2017)	30.51	6.25
26 05 33 23-0329	EA	External Corner Elbow (Wiremold #AL2018)	30.45	6.25
26 05 33 23-0330	EA	2 To 15 Amperes, In-Line Receptacle (Wiremold #AL2043)	50.73	12.38
26 05 33 23-0331	EA	4-13/16" Round Fixture Box (Wiremold #AL2038)	110.31	11.12
26 05 33 23-0332	EA	4-1/2" x 3" x 2-1/4" D Box (Wiremold #AL2044)	51.59	11.12
26 05 33 23-0333	EA	4-5/8" x 4-7/8" x 2-1/2" D Box (Wiremold #AL2044-2)	102.46	12.38
26 05 33 23-0334	EA	Single Gang Shallow Device Box (Wiremold #AL2047)	53.26	11.12
26 05 33 23-0335	EA	2-Gang Shallow Device Box (Wiremold #AL2047-2)	91.16	12.38
26 05 33 23-0336	EA	Flush Plate Adapter (Wiremold #AL2051H)	41.97	12.38

26 05 33 23-0337 2" x 1-9/32" Two Piece Surface Aluminum Raceways (Wiremold #AL2400) (26 05 33 23-0315)

26 05 33 23-0338	LF	2" x 1-9/32" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2400B)	12.59	3.13
		<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0339	LF	Aluminum Raceway Cover (Wiremold #AL2400C)	5.47	0.62
26 05 33 23-0340	EA	Wire Clip (Wiremold #AL2400WC)	7.46	2.50
26 05 33 23-0341	EA	Coupling (Wiremold #AL2401)	14.78	3.13
26 05 33 23-0342	EA	Cover Clip (Wiremold #AL2406)	9.50	1.87
26 05 33 23-0343	EA	Ground Clamp (Wiremold #AL2409)	8.44	2.50
26 05 33 23-0344	EA	Blank End (Wiremold #AL2410B)	10.88	3.13
26 05 33 23-0345	EA	End Fitting (Wiremold #AL2410B2)	24.35	9.38
26 05 33 23-0346	EA	Flat 90 Degree Elbow (Wiremold #AL2411)	41.49	9.38
26 05 33 23-0347	EA	Tee (Wiremold #AL2415)	44.89	9.25
26 05 33 23-0348	EA	Fourway Fitting (Wiremold #AL2416)	52.11	9.25
26 05 33 23-0349	EA	Internal Coupling (Wiremold #AL2417)	41.33	9.25
26 05 33 23-0350	EA	External Coupling (Wiremold #AL2418)	44.22	9.25
26 05 33 23-0351	EA	4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #AL2451H)	37.38	9.38

26 05 33 23-0352 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceways (Wiremold #AL3300) (26 05 33 23-0315)

26 05 33 23-0353	LF	2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL3300B)	20.82	5.62
		<i>For Concrete Or Masonry Surface, Add</i>	0.56	
26 05 33 23-0354	LF	Aluminum Raceway Cover (Wiremold #AL3300CE)	5.59	0.62
26 05 33 23-0355	LF	Raceway Divider (Wiremold #AL3300D)	4.67	5.62
26 05 33 23-0356	EA	Wire Clips For Conductors (Wiremold #AL3300WC)	9.46	2.50
26 05 33 23-0357	EA	Couplings (Wiremold #AL3301)	18.39	2.50
26 05 33 23-0358	EA	Divider Coupling (Wiremold #AL3301D)	14.48	3.13
26 05 33 23-0359	EA	Ground Clamp (Wiremold #AL3309)	9.95	2.50
26 05 33 23-0360	EA	Blank End Fittings (Wiremold #AL3310B)	20.58	5.00
26 05 33 23-0361	EA	End Fitting (Wiremold #AL3310B1)	35.40	11.88
26 05 33 23-0362	EA	Flat 90 Degree Elbow (Wiremold #AL3311)	96.83	15.50
		Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0363	EA	Tee Fitting (Wiremold #AL3315)	111.94	19.37
		Note: Includes three (3) AL3301 couplings.		
26 05 33 23-0364	EA	Cross Fitting (Wiremold #AL3316)	125.27	19.37
		Note: Includes four (4) AL3301 couplings.		
26 05 33 23-0365	EA	Internal Elbow (Wiremold #AL3317)	89.35	11.88
		Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0366	EA	External Elbow (Wiremold #AL3318)	89.44	11.88
		Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0367	EA	Duplex Receptacle Cover (Wiremold #AL3346D)	20.41	3.75
26 05 33 23-0368	EA	Single Receptacle Cover (Wiremold #AL3346E)	20.29	3.75
26 05 33 23-0369	EA	GFCl/Surge Receptacle Cover (Wiremold #AL3346G)	20.10	3.75
26 05 33 23-0370	EA	Single Device Cover Plate (Wiremold #AL3356R)	19.79	3.13

26 05 33 23-0371 5" x 2" Two Piece Surface Aluminum Raceways (Wiremold #AL5200) (26 05 33 23-0315)

26 05 33 23-0372	LF	5" x 2" Two Piece Surface Aluminum Raceway Base (Wiremold #AL5200B-10)	26.21	5.62
		<i>For Concrete Or Masonry Surface, Add</i>	0.61	

26 Electrical
26 05 Common Work Results for Electrical
 26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0430 EA Single Receptacle Cover Plate, 1.59" Diameter Opening (Wiremold #ALA-F).....	22.32	3.75
26 05 33 23-0431 EA GFCI/ Surge/Decorator Cover Plate (Wiremold #ALA-G)	20.05	3.75
26 05 33 23-0432 EA Single Receptacle Cover Plate, 2.13" Diameter Opening (Wiremold #ALA-J)	20.67	3.75
26 05 33 23-0433 EA Toggle Switch Cover Plate (Wiremold #ALA-N).....	21.17	3.75
26 05 33 23-0434 EA Active LPB Cover Plate (Wiremold #ALA-LPB)	26.71	3.75
26 05 33 23-0435 EA Active MAB Cover Plate (Wiremold #ALA-MAB).....	25.20	3.75
26 05 33 23-0436 EA Ortronics Cover Plate (Wiremold #ALA-MABRT).....	28.81	3.75
26 05 33 23-0437 EA 1-3/4" x 2-3/4" Cover Plate (Wiremold #ALA-SG).....	21.38	3.75
26 05 33 23-0438 EA Active 2A Cover Plate (Wiremold #ALA-2A)	27.88	3.75
26 05 33 23-0439 EA Ortronics Communications Cover Plate (Wiremold #ALA-ABRT)	25.64	3.75
26 05 33 23-0440 EA 3/4" Grommet/Mousehole Cover Plate (Wiremold #ALA-Z).....	21.12	3.75
26 05 33 23-0441 EA Ortronics Low Profile Cover Plate (Wiremold #ALA-LPB3S2)	25.86	3.75
26 05 33 23-0442 Surface Non-Metallic Raceways (26 05 33 23-0001) Note: Exposed on flat wall surface.		
26 05 33 23-0443 One Piece Surface Non-Metallic Raceways (26 05 33 23-0442) Note: Exposed on flat wall surface. (Wiremold or approved equal).		
26 05 33 23-0444 7/8" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #400) (26 05 33 23-0443)		
26 05 33 23-0445 LF 7/8" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #400BAC)	7.30	2.50
For Concrete Or Masonry Surface, Add	0.25	
26 05 33 23-0446 EA Wire Clip (Wiremold #400WC).....	5.49	2.50
26 05 33 23-0447 EA Cover Clip (Wiremold #406).....	5.79	2.50
26 05 33 23-0448 EA Blank End Clip (Wiremold #410B).....	11.13	5.00
26 05 33 23-0449 EA Flat 90 Degree Elbow (Wiremold #411).....	13.04	5.00
26 05 33 23-0450 EA Tee (Wiremold #415).....	16.42	6.25
26 05 33 23-0451 EA Internal Elbow (Wiremold #417).....	12.80	5.00
26 05 33 23-0452 EA External Elbow (Wiremold #418).....	12.80	5.00
26 05 33 23-0453 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #800) (26 05 33 23-0443)		
26 05 33 23-0454 LF 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #800BAC)	7.64	2.50
For Concrete Or Masonry Surface, Add	0.25	
26 05 33 23-0455 EA Wire Clip (Wiremold #800WC).....	5.44	2.50
26 05 33 23-0456 EA Cover Clip (Wiremold #806).....	5.53	2.50
26 05 33 23-0457 EA Entrance End Fitting (Wiremold #810A2).....	15.85	5.00
26 05 33 23-0458 EA Blank End Fitting (Wiremold #810B).....	10.95	5.00
26 05 33 23-0459 EA Flat 90 Degree Elbow (Wiremold #811).....	12.37	5.00
26 05 33 23-0460 EA Tee (Wiremold #815).....	15.52	6.25
26 05 33 23-0461 EA Internal Elbow (Wiremold #817).....	12.16	5.00
26 05 33 23-0462 EA External Elbow (Wiremold #818).....	12.16	5.00
26 05 33 23-0463 EA End Reducer, #800 To #400 (Wiremold #889A)	13.50	5.00
26 05 33 23-0464 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceways (Wiremold #2300) (26 05 33 23-0443)		
26 05 33 23-0465 LF 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2300BAC)	8.60	2.50
For Concrete Or Masonry Surface, Add	0.25	
26 05 33 23-0466 LF 2-1/4" x 11/16" One Piece Surface Non-Metallic Divided Raceway Base And Cover (Wiremold #2300BACD).....	9.09	2.50
For Concrete Or Masonry Surface, Add	0.25	
26 05 33 23-0467 EA Wire Clip (Wiremold #2300WC).....	5.65	2.50
26 05 33 23-0468 EA Cover Clip (Wiremold #2306).....	5.90	2.50
26 05 33 23-0469 EA Entrance End Fitting (Wiremold #2310A).....	16.95	5.00
26 05 33 23-0470 EA Blank End Fitting (Wiremold #2310B).....	11.41	5.00
26 05 33 23-0471 EA Divided Entrance End Fitting (Wiremold #2310DFO).....	18.84	5.00
26 05 33 23-0472 EA Flat 90 Degree Elbow (Wiremold #2311).....	12.52	5.00
26 05 33 23-0473 EA Divided Flat 90 Degree Elbow (Wiremold #2311DFO).....	13.33	5.00
26 05 33 23-0474 EA Tee (Wiremold #2315).....	15.59	6.25
26 05 33 23-0475 EA Internal Elbow (Wiremold #2317).....	12.52	5.00
26 05 33 23-0476 EA Divided Internal Elbow (Wiremold #2317DFO)	13.34	5.00
26 05 33 23-0477 EA External Elbow (Wiremold #2318).....	12.55	5.00
26 05 33 23-0478 EA Divided External Elbow (Wiremold #2318DFO).....	13.48	5.00
26 05 33 23-0479 EA End Reducer, #2300 To #400 (Wiremold #2389).....	13.49	5.00
26 05 33 23-0480 EA End Reducer, #2300 To #800 (Wiremold #2389A)	14.01	5.00
26 05 33 23-0481 One Piece Surface Non-Metallic Raceway Fittings (Wiremold #400, #800 Or #2300) (26 05 33 23-0443)		
26 05 33 23-0482 EA Blank Cover, 4-1/2" Diameter (Wiremold #2336).....	14.59	4.38
26 05 33 23-0483 EA Extension Box, 5-1/2" Diameter (Wiremold #2337A)	23.14	5.00
26 05 33 23-0484 EA -A Fixture Box, 5-1/2" Diameter (Wiremold #2333).....	23.26	5.00
26 05 33 23-0485 EA Extra Deep Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344).....	21.16	5.00
26 05 33 23-0486 EA Extra Deep Device Box, 2 Gang, 2-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344-2)	24.24	5.00
26 05 33 23-0487 EA Extra Deep Divided Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344D)	22.90	5.00
26 05 33 23-0488 EA Deep Divided Device Box, 2 Gang, 2-1/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344SD-2A)	24.72	5.00
26 05 33 23-0489 EA 1-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2347).....	22.27	8.13
26 05 33 23-0490 EA 2-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2347-2)	24.97	8.13
26 05 33 23-0491 EA 1-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348).....	23.06	8.13



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 23-0492	EA	2-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2348-2)		27.14	8.13
26 05 33 23-0493	EA	3-Gang Deep Device Box, 1-3/4" Deep x 5" Long x 7" Wide (Wiremold #2348-3)		31.87	8.13
26 05 33 23-0494	EA	1-Gang Deep Device Box With Magnetic Backing, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348AMP)		30.37	8.13
26 05 33 23-0495	EA	1-Gang Divided Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348D)		27.78	8.13
26 05 33 23-0496	EA	Shallow Device And Extension Box, 7/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348S/51)		21.86	8.13
26 05 33 23-0497 3/4" x 3/8" One Piece Surface Non-Metallic Raceways (Wiremold #2700) ⁽²⁶⁾					
<small>^{05 33 23-0443}</small>					
26 05 33 23-0498	LF	3/4" x 3/8" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2700)		6.53	2.50
		<i>For Concrete Or Masonry Surface, Add</i>		0.25	
26 05 33 23-0499	EA	3/4" Wire Clip (Wiremold #2700WC)		2.83	1.25
26 05 33 23-0500	EA	Cover Clip (Wiremold #2706)		4.13	1.25
26 05 33 23-0501	EA	Blank End (Wiremold #2710B)		6.61	2.50
26 05 33 23-0502	EA	Flat 90 Degree Elbow (Wiremold #2711)		7.91	3.13
26 05 33 23-0503	EA	Tee (Wiremold #2715)		12.93	5.62
26 05 33 23-0504	EA	Internal Elbow (Wiremold #2717)		9.16	3.75
26 05 33 23-0505	EA	External Elbow (Wiremold #2718)		9.14	3.75
26 05 33 23-0506	EA	Drop Ceiling Connector (Wiremold #2786)		10.78	4.38
26 05 33 23-0507 1" x 1/2" One Piece Surface Non-Metallic Raceways (Wiremold #2800) ^(26 05 33)					
<small>²³⁻⁰⁴⁴³</small>					
26 05 33 23-0508	LF	1" x 1/2" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2800)		8.18	3.13
		<i>For Concrete Or Masonry Surface, Add</i>		0.31	
26 05 33 23-0509	EA	1" Wire Clip (Wiremold #2800WC)		4.17	1.87
26 05 33 23-0510	EA	Cover Clip (Wiremold #2806)		5.32	1.87
26 05 33 23-0511	EA	Blank End (Wiremold #2810B)		7.82	3.13
26 05 33 23-0512	EA	Flat 90 Degree Elbow (Wiremold #2811)		10.39	4.38
26 05 33 23-0513	EA	Radiused Flat 90 Degree Elbow (Wiremold #2811FO)		10.95	4.38
26 05 33 23-0514	EA	Tee (Wiremold #2815)		15.39	6.88
26 05 33 23-0515	EA	Internal Elbow (Wiremold #2817)		11.61	5.00
26 05 33 23-0516	EA	External Elbow (Wiremold #2818)		11.64	5.00
26 05 33 23-0517	EA	Radiused Tee (Wiremold #2815FO)		16.15	6.88
26 05 33 23-0518	EA	Radiused Internal Elbow (Wiremold #2817FO)		12.30	5.00
26 05 33 23-0519	EA	Radiused External Elbow (Wiremold #2818FO)		12.20	5.00
26 05 33 23-0520	EA	Drop Ceiling Connector (Wiremold #2886)		13.11	5.62
26 05 33 23-0521	EA	Reducer, #2800 To #2700 (Wiremold #2889)		11.77	5.00
26 05 33 23-0522 1-1/2" x 3/4" One Piece Surface Non-Metallic Raceways (Wiremold #2900)					
<small>^(26 05 33 23-0443)</small>					
26 05 33 23-0523	LF	1-1/2" x 3/4" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2900)		9.97	3.75
		<i>For Concrete Or Masonry Surface, Add</i>		0.38	
26 05 33 23-0524	EA	1-1/2" Wire Clip (Wiremold #2900WC)		5.52	2.50
26 05 33 23-0525	EA	Cover Clip (Wiremold #2906)		6.71	2.50
26 05 33 23-0526	EA	Blank End (Wiremold #2910B)		9.21	3.75
26 05 33 23-0527	EA	Flat 90 Degree Elbow (Wiremold #2911)		11.72	5.00
26 05 33 23-0528	EA	Radiused Flat 90 Degree Elbow (Wiremold #2911FO)		12.63	5.00
26 05 33 23-0529	EA	Tee (Wiremold #2915)		16.72	7.50
26 05 33 23-0530	EA	Radiused Tee (Wiremold #2915FO)		17.65	7.50
26 05 33 23-0531	EA	Radiused External Elbow (Wiremold #2918FO)		14.19	5.62
26 05 33 23-0532	EA	Internal Elbow (Wiremold #2917)		12.98	5.62
26 05 33 23-0533	EA	Radiused Internal Elbow (Wiremold #2917FO)		13.93	5.62
26 05 33 23-0534	EA	External Elbow (Wiremold #2918)		12.97	5.62
26 05 33 23-0535	EA	Drop Ceiling Connector (Wiremold #2986)		13.13	5.62
26 05 33 23-0536	EA	Reducer, #2900 To #2800 (Wiremold #2989)		14.58	6.25
26 05 33 23-0537	EA	Reducer, #2900 To #2700 (Wiremold #2989A)		14.27	6.25
26 05 33 23-0538 Two Piece Surface Non-Metallic Raceways ^(26 05 33 23-0442)					
<i>Note: Exposed on flat wall surface. (Wiremold or approved equal).</i>					
26 05 33 23-0539 5" x 1" Two Piece Surface Non-Metallic Raceways (Wiremold #500) ^(26 05 33 23-0538)					
<small>⁰⁵³⁸</small>					
26 05 33 23-0540	LF	5" x 1" Two Piece Surface Non-Metallic Raceway Base (Wiremold #5000B)		15.58	5.62
		<i>For Concrete Or Masonry Surface, Add</i>		0.56	
26 05 33 23-0541	LF	Black, Gray Or White, Cover (Wiremold #5000C)		14.91	5.62
26 05 33 23-0542	LF	Oak Veneer, Cover (Wiremold #5000COA)		26.13	5.62
26 05 33 23-0543	LF	Maple Wood Veneer, Cover (Wiremold #5000CW)		21.70	5.62
26 05 33 23-0544	LF	Black, Gray Or White, Quarter Round Trim (Wiremold #5000T)		2.05	0.62
26 05 33 23-0545	LF	Oak Veneer, Quarter Round Trim (Wiremold #5000TOA)		7.67	0.62
26 05 33 23-0546	LF	Maple Wood Veneer, Quarter Round Trim (Wiremold #5000TW)		4.85	0.62
26 05 33 23-0547	EA	Base Coupling (Wiremold #5001)		14.78	6.25
26 05 33 23-0548	EA	Blank/Coax Adapter (Wiremold #5004)		8.14	3.13
26 05 33 23-0549	EA	Low Voltage Blank Plate (Wiremold #5005)		10.71	3.75
26 05 33 23-0550	EA	Cover Clip (Wiremold #5006)		15.72	6.25
26 05 33 23-0551	EA	Internal Wire Guard (Wiremold #5006A)		14.86	6.25
26 05 33 23-0552	EA	Device Bracket (Wiremold #5007C)		16.62	6.25
26 05 33 23-0553	EA	Device Plate (Wiremold #5007C-1)		30.58	12.50
26 05 33 23-0554	EA	Deep Device Plate (Wiremold #5007C-2)		31.48	12.50
26 05 33 23-0555	EA	Right Or Left End Cap (Wiremold #5010)		27.06	11.88
26 05 33 23-0556	EA	Entrance End Feed (Wiremold #5010A)		50.93	19.37

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0557 EA Internal Base Elbow (Wiremold #5017B)	36.25	15.63
26 05 33 23-0558 EA Internal Cover Elbow (Wiremold #5017C).....	32.07	12.50
26 05 33 23-0559 EA Internal Elbow Wire Guard (Wiremold #5017WG)	22.29	9.38
26 05 33 23-0560 EA External Base Elbow (Wiremold #5018B).....	36.19	15.63
26 05 33 23-0561 EA External Cover Elbow (Wiremold #5018C)	32.31	12.50
26 05 33 23-0562 EA External Elbow Wire Guard (Wiremold #5018WG).....	14.62	6.25
26 05 33 23-0563 5-1/4" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5400) (26 05 33 23-0538)		
26 05 33 23-0564 LF 5-1/4" x 1-11/16", Two Compartment, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5400TB)	16.48	5.62
<i>For Concrete Or Masonry Surface, Add</i>	0.56	
26 05 33 23-0565 LF Full Width Cover (Wiremold #5400C)	5.08	0.62
26 05 33 23-0566 LF Twin Snap Cover (Wiremold #5400TC)	3.38	0.62
26 05 33 23-0567 EA Twin Snap Cover Wire Clips (Wiremold #5400TWC).....	6.81	3.13
26 05 33 23-0568 EA Cover Clip (Wiremold #5406A)	10.75	3.75
26 05 33 23-0569 EA Twin Cover Clip (Wiremold #5406T).....	9.34	3.75
26 05 33 23-0570 EA Base Seam Clip (Wiremold #5406TB).....	8.55	3.75
26 05 33 23-0571 EA L Or R (Left Or Right) Transition Fitting (Wiremold #5408).....	60.32	19.37
26 05 33 23-0572 EA End Cap (Wiremold #5410)	30.72	11.88
26 05 33 23-0573 EA Radiused Divided Entrance Cap Fitting (Wiremold #5410DFO)	58.22	19.37
26 05 33 23-0574 EA Radiused Flat 90 Degree Elbow (Wiremold #5411FO).....	52.18	15.63
26 05 33 23-0575 EA Tee Fitting (Wiremold #5415)	60.81	19.37
26 05 33 23-0576 EA Radiused Tee Fitting (Wiremold #5415FO)	63.24	19.37
26 05 33 23-0577 EA Radiused Internal Elbow (Wiremold #5417FO).....	51.91	19.37
26 05 33 23-0578 EA External Elbow (Wiremold #5418).....	52.52	19.37
26 05 33 23-0579 EA Radiused External Elbow (Wiremold #5418FO)	53.08	19.37
26 05 33 23-0580 EA 5-5/32" x 6" Device Bracket (Wiremold #5450).....	23.63	6.25
26 05 33 23-0581 EA 7-19/32" x 7-1/2" Device Bracket (Wiremold #5450A3)	30.25	6.25
26 05 33 23-0582 EA 2-1/2" x 4-7/8" Twin Snap Device Bracket (Wiremold #5450T).....	18.74	6.25
26 05 33 23-0583 EA Transition Fitting (Wiremold #5474).....	54.22	19.37
26 05 33 23-0584 6-11/16" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5500) (26 05 33 23-0538)		
26 05 33 23-0585 LF 6-11/16" x 1-11/16", Three Compartment Divided, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5500BD3)	20.07	5.62
<i>For Concrete Or Masonry Surface, Add</i>	0.56	
26 05 33 23-0586 LF Cover (Wiremold #5500C)	6.66	0.62
26 05 33 23-0587 EA Wire Clips (Wiremold #5500WC)	7.71	3.13
26 05 33 23-0588 EA Cover Clip (Wiremold #5506).....	11.93	3.75
26 05 33 23-0589 EA Base Seam Clip Fitting (Wiremold #5506B).....	8.94	3.75
26 05 33 23-0590 EA Modular Furniture Adapter (Wiremold #5507AD).....	11.23	3.75
26 05 33 23-0591 EA Blank Faceplate (Wiremold #5507B)	11.27	3.75
26 05 33 23-0592 EA Duplex Receptacle Faceplate (Wiremold #5507D)	11.32	3.75
26 05 33 23-0593 EA Dual RJ Connector Faceplate (Wiremold #5507FRJ).....	11.32	3.75
26 05 33 23-0594 EA Rectangular Receptacle Faceplate (Wiremold #5507R)	11.22	3.75
26 05 33 23-0595 EA Dual RJ Connector Faceplate (Wiremold #5507RJ).....	11.25	3.75
26 05 33 23-0596 EA Rectangular Spacer Fitting (Wiremold #5507S).....	11.17	3.75
26 05 33 23-0597 EA Switch Faceplate (Wiremold #5507SW)	11.20	3.75
26 05 33 23-0598 EA Twistlock Faceplate (Wiremold #5507T1).....	11.27	3.75
26 05 33 23-0599 EA Single Receptacle Faceplate (Wiremold #5507T2).....	11.07	3.75
26 05 33 23-0600 EA 6-5/8" x 6" Device Bracket (Wiremold #5550).....	27.91	6.25
26 05 33 23-0601 EA 9-5/8" x 7-1/2" Device Bracket (Wiremold #5550A4)	36.58	6.25
26 05 33 23-0602 EA End Cap (Wiremold #5510)	32.99	11.88
26 05 33 23-0603 EA Entrance End Fitting (Wiremold #5510D)	65.45	19.37
26 05 33 23-0604 EA Radiused Flat 90 Degree Elbow (Wiremold #5511FO).....	58.88	15.63
26 05 33 23-0605 EA Backfeed Connector (Wiremold #5514A).....	48.65	15.63
26 05 33 23-0606 EA Tee Fitting (Wiremold #5515)	68.40	19.37
26 05 33 23-0607 EA Radiused Internal Elbow (Wiremold #5517FO).....	56.54	19.37
26 05 33 23-0608 EA External Elbow (Wiremold #5518).....	57.73	19.37
26 05 33 23-0609 EA Radiused External Elbow (Wiremold #5518FO)	60.23	19.37
26 05 33 23-0610 EA Transition Fitting (Wiremold #5574)	55.35	19.37
26 05 33 23-0611 EA Transition Fitting (Wiremold #5574A).....	71.55	19.37
26 05 33 23-0612 Surface Cable Protection System (26 05 33 23)		
26 05 33 23-0613 EA 35-1/2" Long x 18-9/16" Wide x 3" High, Three Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-3).....	519.36	
Note: Modular interlocking design with hinged lid.		
26 05 33 23-0614 EA 35-3/4" Long x 19-3/4" Wide x 1-7/8" High, Five Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-5).....	392.89	
Note: Modular interlocking design with hinged lid.		
26 05 36 Cable Trays for Electrical Systems (26 05)		
26 05 36 00-0001 Cable Trays (26 05 36)		
Note: Excludes supporting hangers.		
26 05 36 00-0002 Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0003 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0002)</small>		
26 05 36 00-0004 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>		
26 05 36 00-0005 LF 6" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 42.34 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.14	42.34	13.14
26 05 36 00-0006 LF 9" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 45.71 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.40	45.71	14.10
26 05 36 00-0007 LF 12" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 49.93 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.72	49.93	15.19
26 05 36 00-0008 LF 18" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 55.35 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -4.19	55.35	16.14
26 05 36 00-0009 LF 24" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 60.50 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -4.66	60.50	16.69
26 05 36 00-0010 LF 30" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 73.46 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -5.74	73.46	19.29
26 05 36 00-0011 LF 36" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 82.53 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -6.42	82.53	22.03
26 05 36 00-0012 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>		
26 05 36 00-0013 LF 6" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 40.05 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.93	40.05	12.87
26 05 36 00-0014 LF 9" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 43.28 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.18	43.28	13.69
26 05 36 00-0015 LF 12" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 46.25 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.38	46.25	14.91
26 05 36 00-0016 LF 18" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 50.53 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.75	50.53	15.73
26 05 36 00-0017 LF 24" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 54.32 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -4.08	54.32	16.28
26 05 36 00-0018 LF 30" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 63.76 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -4.82	63.76	18.75
26 05 36 00-0019 LF 36" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 69.70 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -5.26	69.70	20.52
26 05 36 00-0020 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>		
26 05 36 00-0021 LF 6" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 38.65 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.81	38.65	12.72
26 05 36 00-0022 LF 9" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 39.84 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.89	39.84	13.14
26 05 36 00-0023 LF 12" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 43.74 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.21	43.74	13.96
26 05 36 00-0024 LF 18" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 47.77 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.55	47.77	14.64
26 05 36 00-0025 LF 24" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 51.56 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.90	51.56	15.05
26 05 36 00-0026 LF 30" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 56.18 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -4.25	56.18	16.42
26 05 36 00-0027 LF 36" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 60.41 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -4.56	60.41	17.78
26 05 36 00-0028 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>		
26 05 36 00-0029 LF 6" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 37.47 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.73	37.47	12.17
26 05 36 00-0030 LF 9" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 38.25 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.79	38.25	12.45
26 05 36 00-0031 LF 12" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 40.49 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.96	40.49	13.14
26 05 36 00-0032 LF 18" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 42.87 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.14	42.87	13.82
26 05 36 00-0033 LF 24" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 44.50 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.30	44.50	13.82
26 05 36 00-0034 LF 30" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 49.10 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.67	49.10	14.91
26 05 36 00-0035 LF 36" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 51.70 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -3.87	51.70	15.60
26 05 36 00-0036 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>		
26 05 36 00-0037 LF 6" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 36.94 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.70	36.94	11.90
26 05 36 00-0038 LF 9" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray..... 37.60 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> -2.74	37.60	12.17

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0039	LF		12" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	39.84 -2.91	12.87
26 05 36 00-0040	LF		18" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	41.82 -3.06	13.41
26 05 36 00-0041	LF		24" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	42.48 -3.12	13.55
26 05 36 00-0042	LF		30" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	45.17 -3.30	14.51
26 05 36 00-0043	LF		36" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	47.15 -3.44	15.32
26 05 36 00-0044			4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small>		
26 05 36 00-0045			12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0046	EA		6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	339.04 -22.47	137.24
26 05 36 00-0047	EA		9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	379.66 -24.94	156.26
26 05 36 00-0048	EA		12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	417.58 -27.36	172.81
26 05 36 00-0049	EA		18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	521.21 -34.47	211.80
26 05 36 00-0050	EA		24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	594.51 -39.19	243.15
26 05 36 00-0051	EA		30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	704.88 -47.68	273.66
26 05 36 00-0052	EA		36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	812.12 -55.15	312.78
26 05 36 00-0053			24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0054	EA		6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	465.64 -34.67	142.71
26 05 36 00-0055	EA		9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	508.21 -37.15	164.05
26 05 36 00-0056	EA		12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	547.59 -39.56	182.39
26 05 36 00-0057	EA		18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	640.37 -45.16	226.58
26 05 36 00-0058	EA		24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	720.07 -50.11	262.84
26 05 36 00-0059	EA		30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	803.80 -55.52	298.28
26 05 36 00-0060	EA		36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	940.29 -65.24	345.49
26 05 36 00-0061			36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0062	EA		6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	500.89 -37.66	149.14
26 05 36 00-0063	EA		9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	554.00 -41.02	172.68
26 05 36 00-0064	EA		12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	600.67 -43.96	193.20
26 05 36 00-0065	EA		18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	724.16 -52.15	243.15
26 05 36 00-0066	EA		24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	826.16 -58.83	285.42



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-0067	EA	30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	967.80	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.41	
26 05 36 00-0068	EA	36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,102.01	385.86
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.05	
26 05 36 00-0069		12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0070	EA	6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	251.58	99.47
		<i>For 60 Degree Bend, Deduct</i>	-44.90	
		<i>For 30 Degree Bend, Deduct</i>	-80.36	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.87	
26 05 36 00-0071	EA	9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	288.11	119.31
		<i>For 60 Degree Bend, Deduct</i>	-49.36	
		<i>For 30 Degree Bend, Deduct</i>	-88.89	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.87	
26 05 36 00-0072	EA	12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	320.91	136.83
		<i>For 60 Degree Bend, Deduct</i>	-53.45	
		<i>For 30 Degree Bend, Deduct</i>	-96.68	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.69	
26 05 36 00-0073	EA	18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	386.28	172.95
		<i>For 60 Degree Bend, Deduct</i>	-61.19	
		<i>For 30 Degree Bend, Deduct</i>	-111.59	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.22	
26 05 36 00-0074	EA	24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	479.16	211.80
		<i>For 60 Degree Bend, Deduct</i>	-76.93	
		<i>For 30 Degree Bend, Deduct</i>	-139.98	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.27	
26 05 36 00-0075	EA	30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	566.48	243.15
		<i>For 60 Degree Bend, Deduct</i>	-93.72	
		<i>For 30 Degree Bend, Deduct</i>	-169.71	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.38	
26 05 36 00-0076	EA	36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	643.95	285.42
		<i>For 60 Degree Bend, Deduct</i>	-103.08	
		<i>For 30 Degree Bend, Deduct</i>	-187.66	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.61	
26 05 36 00-0077		24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0078	EA	6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	279.57	102.62
		<i>For 60 Degree Bend, Deduct</i>	-52.94	
		<i>For 30 Degree Bend, Deduct</i>	-93.93	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.41	
26 05 36 00-0079	EA	9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	321.82	123.69
		<i>For 60 Degree Bend, Deduct</i>	-58.78	
		<i>For 30 Degree Bend, Deduct</i>	-104.83	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.87	
26 05 36 00-0080	EA	12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	367.70	142.85
		<i>For 60 Degree Bend, Deduct</i>	-66.59	
		<i>For 30 Degree Bend, Deduct</i>	-118.92	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.87	
26 05 36 00-0081	EA	18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	437.21	182.39
		<i>For 60 Degree Bend, Deduct</i>	-74.35	
		<i>For 30 Degree Bend, Deduct</i>	-134.04	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.52	
26 05 36 00-0082	EA	24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	538.75	226.58
		<i>For 60 Degree Bend, Deduct</i>	-90.95	
		<i>For 30 Degree Bend, Deduct</i>	-164.17	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.00	
26 05 36 00-0083	EA	30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	630.71	262.84
		<i>For 60 Degree Bend, Deduct</i>	-107.40	
		<i>For 30 Degree Bend, Deduct</i>	-193.59	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.17	
26 05 36 00-0084	EA	36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	742.20	312.92
		<i>For 60 Degree Bend, Deduct</i>	-124.99	
		<i>For 30 Degree Bend, Deduct</i>	-225.71	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.15	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 36 00-0085		36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>			
26 05 36 00-0086	EA	6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	332.35		105.91
		For 60 Degree Bend, Deduct	-69.10		
		For 30 Degree Bend, Deduct	-121.05		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.41		
26 05 36 00-0087	EA	9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	379.02		128.62
		For 60 Degree Bend, Deduct	-75.78		
		For 30 Degree Bend, Deduct	-133.45		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.19		
26 05 36 00-0088	EA	12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	416.98		149.28
		For 60 Degree Bend, Deduct	-80.38		
		For 30 Degree Bend, Deduct	-142.27		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.26		
26 05 36 00-0089	EA	18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	504.31		193.20
		For 60 Degree Bend, Deduct	-92.34		
		For 30 Degree Bend, Deduct	-164.64		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.33		
26 05 36 00-0090	EA	24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	598.01		243.15
		For 60 Degree Bend, Deduct	-104.13		
		For 30 Degree Bend, Deduct	-187.05		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.54		
26 05 36 00-0091	EA	30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	724.54		285.42
		For 60 Degree Bend, Deduct	-129.68		
		For 30 Degree Bend, Deduct	-231.98		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.67		
26 05 36 00-0092	EA	36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	852.69		345.49
		For 60 Degree Bend, Deduct	-148.94		
		For 30 Degree Bend, Deduct	-267.43		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.48		
26 05 36 00-0093		12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>			
26 05 36 00-0094	EA	6" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	364.15		136.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.01		
26 05 36 00-0095	EA	9" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.74		156.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.95		
26 05 36 00-0096	EA	12" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	431.85		172.81
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.79		
26 05 36 00-0097	EA	18" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	503.18		211.80
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.67		
26 05 36 00-0098	EA	24" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	561.72		243.15
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.91		
26 05 36 00-0099	EA	30" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	625.04		273.66
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.70		
26 05 36 00-0100	EA	36" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	695.85		312.37
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.55		
26 05 36 00-0101		24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>			
26 05 36 00-0102	EA	6" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	430.29		142.71
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.14		
26 05 36 00-0103	EA	9" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	470.76		164.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.39		
26 05 36 00-0104	EA	12" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	508.99		182.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.70		
26 05 36 00-0105	EA	18" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	593.44		226.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.47		
26 05 36 00-0106	EA	24" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	664.82		262.84
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.58		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0107 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	736.53	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.79	
26 05 36 00-0108 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	844.93	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.70	
26 05 36 00-0109 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0110 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	508.28	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.40	
26 05 36 00-0111 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	556.99	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.30	
26 05 36 00-0112 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	594.29	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.32	
26 05 36 00-0113 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	699.38	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.67	
26 05 36 00-0114 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	772.97	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.51	
26 05 36 00-0115 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	885.20	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.15	
26 05 36 00-0116 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,002.77	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.13	
26 05 36 00-0117 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0118 EA 6" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	655.99	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.70	
26 05 36 00-0119 EA 9" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	710.02	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.21	
26 05 36 00-0120 EA 12" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	744.48	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.59	
26 05 36 00-0121 EA 18" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	830.39	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.67	
26 05 36 00-0122 EA 24" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	939.47	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.57	
26 05 36 00-0123 EA 30" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,041.15	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.91	
26 05 36 00-0124 EA 36" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,178.38	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.37	
26 05 36 00-0125 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0126 EA 6" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	817.40	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.95	
26 05 36 00-0127 EA 9" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	879.36	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.86	
26 05 36 00-0128 EA 12" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	918.24	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.46	
26 05 36 00-0129 EA 18" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,007.80	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.40	
26 05 36 00-0130 EA 24" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,120.15	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.81	
26 05 36 00-0131 EA 30" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,204.41	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.97	
26 05 36 00-0132 EA 36" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,450.99	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.97	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-0133		36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0134	EA	6" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,032.28	312.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.16	
26 05 36 00-0135	EA	9" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,106.24	345.49
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.83	
26 05 36 00-0136	EA	12" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,173.74	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.00	
26 05 36 00-0137	EA	18" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,292.60	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.05	
26 05 36 00-0138	EA	24" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,467.53	468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.70	
26 05 36 00-0139	EA	30" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,590.90	505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-116.96	
26 05 36 00-0140	EA	36" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,798.06	596.57
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.09	
26 05 36 00-0141		12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0142	EA	6" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	776.22	243.15
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.36	
26 05 36 00-0143	EA	9" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	795.44	252.71
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.48	
26 05 36 00-0144	EA	12" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	815.43	262.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.64	
26 05 36 00-0145	EA	18" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	859.70	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.18	
26 05 36 00-0146	EA	24" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	887.64	298.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.90	
26 05 36 00-0147	EA	30" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	963.79	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.01	
26 05 36 00-0148	EA	36" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,040.33	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.65	
26 05 36 00-0149		24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0150	EA	6" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,108.27	262.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.93	
26 05 36 00-0151	EA	9" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,136.13	273.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.81	
26 05 36 00-0152	EA	12" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,165.55	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.77	
26 05 36 00-0153	EA	18" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,230.76	312.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.00	
26 05 36 00-0154	EA	24" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.16	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.25	
26 05 36 00-0155	EA	30" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,355.95	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.22	
26 05 36 00-0156	EA	36" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,465.05	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.30	
26 05 36 00-0157		36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0158	EA	6" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,728.46	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-149.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0159	EA		9" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,766.17	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-151.76	
26 05 36 00-0160	EA		12" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,806.68	312.92
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.60	
26 05 36 00-0161	EA		18" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,877.38	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.94	
26 05 36 00-0162	EA		24" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,925.36	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-162.16	
26 05 36 00-0163	EA		30" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,050.73	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-170.87	
26 05 36 00-0164	EA		36" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,163.84	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-177.34	
26 05 36 00-0165			12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0166	EA		6" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	817.37	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.37	
26 05 36 00-0167	EA		9" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	858.95	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.10	
26 05 36 00-0168	EA		12" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	916.69	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.29	
26 05 36 00-0169	EA		18" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	982.58	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.05	
26 05 36 00-0170	EA		24" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,106.80	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.21	
26 05 36 00-0171	EA		30" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,233.26	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.28	
26 05 36 00-0172	EA		36" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,346.87	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.56	
26 05 36 00-0173			24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0174	EA		6" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,131.44	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.77	
26 05 36 00-0175	EA		9" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,184.32	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.22	
26 05 36 00-0176	EA		12" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,240.54	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.85	
26 05 36 00-0177	EA		18" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,321.55	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.69	
26 05 36 00-0178	EA		24" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,473.76	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.25	
26 05 36 00-0179	EA		30" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,585.71	547.31
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.96	
26 05 36 00-0180	EA		36" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,775.29	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.81	
26 05 36 00-0181			36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0182	EA		6" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,416.24	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.42	
26 05 36 00-0183	EA		9" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,494.00	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.93	
26 05 36 00-0184	EA		12" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,578.16	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.77	
26 05 36 00-0185	EA		18" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,721.05	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-129.98	

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0186	EA		24" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,970.51	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.33	
26 05 36 00-0187	EA		30" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,150.35	655.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-160.39	
26 05 36 00-0188	EA		36" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,356.14	730.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-174.75	
26 05 36 00-0189			12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0190	EA		6" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	938.90	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.52	
26 05 36 00-0191	EA		9" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	986.53	345.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.85	
26 05 36 00-0192	EA		12" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,055.68	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.19	
26 05 36 00-0193	EA		18" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,135.11	386.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.29	
26 05 36 00-0194	EA		24" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.65	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.20	
26 05 36 00-0195	EA		30" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,437.13	468.77
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-104.65	
26 05 36 00-0196	EA		36" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,572.79	504.89
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.20	
26 05 36 00-0197			24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0198	EA		6" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,367.18	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.34	
26 05 36 00-0199	EA		9" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,427.38	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.53	
26 05 36 00-0200	EA		12" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,490.92	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.89	
26 05 36 00-0201	EA		18" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,588.03	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-122.34	
26 05 36 00-0202	EA		24" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,757.82	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-133.66	
26 05 36 00-0203	EA		30" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,888.80	547.31
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-143.27	
26 05 36 00-0204	EA		36" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,126.70	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-162.95	
26 05 36 00-0205			36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0206	EA		6" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,745.69	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-140.36	
26 05 36 00-0207	EA		9" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,838.09	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.34	
26 05 36 00-0208	EA		12" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,936.89	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.64	
26 05 36 00-0209	EA		18" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,116.39	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-169.51	
26 05 36 00-0210	EA		24" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,409.78	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-191.26	
26 05 36 00-0211	EA		30" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,626.22	655.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-207.98	
26 05 36 00-0212	EA		36" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,868.61	730.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-226.00	



MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST

26 05 36 00-0213		6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)			
26 05 36 00-0214		12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)			
26 05 36 00-0215	EA	6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	323.27		137.24
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.89		
26 05 36 00-0216	EA	9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	362.64		156.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.24		
26 05 36 00-0217	EA	12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.06		172.81
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.51		
26 05 36 00-0218	EA	18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	497.18		211.80
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.07		
26 05 36 00-0219	EA	24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	567.48		243.15
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.48		
26 05 36 00-0220	EA	30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	669.34		273.66
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.13		
26 05 36 00-0221	EA	36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	770.57		312.78
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.99		
26 05 36 00-0222		24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)			
26 05 36 00-0223	EA	6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	433.11		142.71
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.42		
26 05 36 00-0224	EA	9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	474.67		164.05
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.80		
26 05 36 00-0225	EA	12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	512.80		182.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.08		
26 05 36 00-0226	EA	18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	602.82		226.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.40		
26 05 36 00-0227	EA	24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	679.77		262.84
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.08		
26 05 36 00-0228	EA	30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	760.00		298.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.14		
26 05 36 00-0229	EA	36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	888.23		345.49
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.03		
26 05 36 00-0230		36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)			
26 05 36 00-0231	EA	6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	464.85		149.14
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.06		
26 05 36 00-0232	EA	9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	515.96		172.68
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.21		
26 05 36 00-0233	EA	12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	560.88		193.20
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.98		
26 05 36 00-0234	EA	18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	678.61		243.15
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.60		
26 05 36 00-0235	EA	24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	776.10		285.42
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.82		
26 05 36 00-0236	EA	30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	907.73		328.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.41		
26 05 36 00-0237	EA	36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,036.44		385.86
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.50		
26 05 36 00-0238		12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)			

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0239	EA		6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	239.32	99.47
			<i>For 60 Degree Bend, Deduct</i>	-40.86	
			<i>For 30 Degree Bend, Deduct</i>	-73.62	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.65	
26 05 36 00-0240	EA		9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	275.35	119.31
			<i>For 60 Degree Bend, Deduct</i>	-45.15	
			<i>For 30 Degree Bend, Deduct</i>	-81.88	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.60	
26 05 36 00-0241	EA		12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	307.64	136.83
			<i>For 60 Degree Bend, Deduct</i>	-49.07	
			<i>For 30 Degree Bend, Deduct</i>	-89.38	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.36	
26 05 36 00-0242	EA		18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	372.27	172.95
			<i>For 60 Degree Bend, Deduct</i>	-56.57	
			<i>For 30 Degree Bend, Deduct</i>	-103.89	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.82	
26 05 36 00-0243	EA		24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	461.14	211.80
			<i>For 60 Degree Bend, Deduct</i>	-70.98	
			<i>For 30 Degree Bend, Deduct</i>	-130.07	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.46	
26 05 36 00-0244	EA		30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	543.45	243.15
			<i>For 60 Degree Bend, Deduct</i>	-86.12	
			<i>For 30 Degree Bend, Deduct</i>	-157.05	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.08	
26 05 36 00-0245	EA		36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	619.92	285.42
			<i>For 60 Degree Bend, Deduct</i>	-95.15	
			<i>For 30 Degree Bend, Deduct</i>	-174.44	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.20	
26 05 36 00-0246			24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0247	EA		6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	264.05	102.62
			<i>For 60 Degree Bend, Deduct</i>	-47.82	
			<i>For 30 Degree Bend, Deduct</i>	-85.40	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.86	
26 05 36 00-0248	EA		9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	305.31	123.69
			<i>For 60 Degree Bend, Deduct</i>	-53.33	
			<i>For 30 Degree Bend, Deduct</i>	-95.75	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.22	
26 05 36 00-0249	EA		12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	349.18	142.85
			<i>For 60 Degree Bend, Deduct</i>	-60.48	
			<i>For 30 Degree Bend, Deduct</i>	-108.73	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.02	
26 05 36 00-0250	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	418.19	182.39
			<i>For 60 Degree Bend, Deduct</i>	-68.07	
			<i>For 30 Degree Bend, Deduct</i>	-123.58	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.62	
26 05 36 00-0251	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	515.72	226.58
			<i>For 60 Degree Bend, Deduct</i>	-83.35	
			<i>For 30 Degree Bend, Deduct</i>	-151.50	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.69	
26 05 36 00-0252	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	603.18	262.84
			<i>For 60 Degree Bend, Deduct</i>	-98.31	
			<i>For 30 Degree Bend, Deduct</i>	-178.45	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.42	
26 05 36 00-0253	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	710.66	312.92
			<i>For 60 Degree Bend, Deduct</i>	-114.59	
			<i>For 30 Degree Bend, Deduct</i>	-208.36	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.99	
26 05 36 00-0254			36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0255	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	310.08	105.91
			<i>For 60 Degree Bend, Deduct</i>	-61.75	
			<i>For 30 Degree Bend, Deduct</i>	-108.80	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0256	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	355.49	128.62
			<i>For 60 Degree Bend, Deduct</i>	-68.02	
			<i>For 30 Degree Bend, Deduct</i>	-120.50	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.83	
26 05 36 00-0257	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	392.95	149.28
			<i>For 60 Degree Bend, Deduct</i>	-72.45	
			<i>For 30 Degree Bend, Deduct</i>	-129.05	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.86	
26 05 36 00-0258	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	478.28	193.20
			<i>For 60 Degree Bend, Deduct</i>	-83.75	
			<i>For 30 Degree Bend, Deduct</i>	-150.32	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.72	
26 05 36 00-0259	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	570.48	243.15
			<i>For 60 Degree Bend, Deduct</i>	-95.04	
			<i>For 30 Degree Bend, Deduct</i>	-171.91	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.78	
26 05 36 00-0260	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	689.00	285.42
			<i>For 60 Degree Bend, Deduct</i>	-117.95	
			<i>For 30 Degree Bend, Deduct</i>	-212.44	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.11	
26 05 36 00-0261	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	813.15	345.49
			<i>For 60 Degree Bend, Deduct</i>	-135.89	
			<i>For 30 Degree Bend, Deduct</i>	-245.68	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.52	
26 05 36 00-0262			12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0263	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	353.26	136.83
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.92	
26 05 36 00-0264	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	388.61	156.26
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.84	
26 05 36 00-0265	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	420.33	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.64	
26 05 36 00-0266	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	491.17	211.80
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.47	
26 05 36 00-0267	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	549.21	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.66	
26 05 36 00-0268	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	611.52	273.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.35	
26 05 36 00-0269	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	681.84	312.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.15	
26 05 36 00-0270			24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0271	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	414.90	142.71
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.60	
26 05 36 00-0272	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	455.00	164.19
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.82	
26 05 36 00-0273	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	492.59	182.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.06	
26 05 36 00-0274	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	576.17	226.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.74	
26 05 36 00-0275	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	646.67	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.77	
26 05 36 00-0276	EA		30" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	717.38	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.88	
26 05 36 00-0277	EA		36" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	823.41	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.55	
26 05 36 00-0278			36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		

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Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. It lists various electrical work items such as cable tray fitting, tees, and rungs with their respective costs.



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0305	EA 12" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,130.19	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.64	
26 05 36 00-0306	EA 18" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,245.79	410.48
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.37	
26 05 36 00-0307	EA 24" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,414.72	468.63
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.42	
26 05 36 00-0308	EA 30" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,533.33	505.58
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-111.21	
26 05 36 00-0309	EA 36" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,736.24	596.57
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.91	
26 05 36 00-0310	12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-02 13)		
26 05 36 00-0311	EA 6" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	747.69	243.15
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.50	
26 05 36 00-0312	EA 9" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	766.66	252.71
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.60	
26 05 36 00-0313	EA 12" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	786.40	262.84
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.74	
26 05 36 00-0314	EA 18" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	830.16	285.42
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.23	
26 05 36 00-0315	EA 24" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	857.61	298.28
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.90	
26 05 36 00-0316	EA 30" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	931.76	328.38
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.81	
26 05 36 00-0317	EA 36" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,007.04	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.33	
26 05 36 00-0318	24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-02 13)		
26 05 36 00-0319	EA 6" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,056.71	262.84
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.77	
26 05 36 00-0320	EA 9" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,083.82	273.66
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.58	
26 05 36 00-0321	EA 12" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,112.49	285.42
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.46	
26 05 36 00-0322	EA 18" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,176.20	312.92
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.55	
26 05 36 00-0323	EA 24" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,220.09	328.38
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.64	
26 05 36 00-0324	EA 30" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,298.38	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.46	
26 05 36 00-0325	EA 36" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,404.98	410.48
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.29	
26 05 36 00-0326	36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-02 13)		
26 05 36 00-0327	EA 6" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,632.09	285.42
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.42	
26 05 36 00-0328	EA 9" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,668.55	298.28
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-142.00	
26 05 36 00-0329	EA 12" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,707.82	312.92
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-144.71	
26 05 36 00-0330	EA 18" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,777.27	345.49
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-148.93	
26 05 36 00-0331	EA 24" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,823.99	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.02	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0332	EA	30" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,945.61	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-160.35	
26 05 36 00-0333	EA	36" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,057.46	468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-166.70	
26 05 36 00-0334 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0335	EA	6" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	796.60	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.29	
26 05 36 00-0336	EA	9" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	837.17	345.49
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.92	
26 05 36 00-0337	EA	12" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	892.91	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.91	
26 05 36 00-0338	EA	18" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	956.55	386.54
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.45	
26 05 36 00-0339	EA	24" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,077.77	437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.31	
26 05 36 00-0340	EA	30" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,198.47	468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.80	
26 05 36 00-0341	EA	36" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,308.07	505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.68	
26 05 36 00-0342 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0343	EA	6" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,091.14	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.74	
26 05 36 00-0344	EA	9" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,142.77	386.54
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.07	
26 05 36 00-0345	EA	12" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,197.74	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.57	
26 05 36 00-0346	EA	18" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.00	437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.13	
26 05 36 00-0347	EA	24" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,425.21	505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.39	
26 05 36 00-0348	EA	30" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,533.90	547.31
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.78	
26 05 36 00-0349	EA	36" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,715.22	596.57
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.80	
26 05 36 00-0350 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0351	EA	6" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,359.93	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.79	
26 05 36 00-0352	EA	9" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,435.18	437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.05	
26 05 36 00-0353	EA	12" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,516.84	468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.64	
26 05 36 00-0354	EA	18" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,653.47	505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.22	
26 05 36 00-0355	EA	24" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,895.43	596.57
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.82	
26 05 36 00-0356	EA	30" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,069.00	655.67
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.26	
26 05 36 00-0357	EA	36" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,268.54	730.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-165.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0358			12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0359	EA		6" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	908.78	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-63.51</i>	
26 05 36 00-0360	EA		9" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	954.96	345.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-66.69</i>	
26 05 36 00-0361	EA		12" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,021.20	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-71.75</i>	
26 05 36 00-0362	EA		18" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,097.37	386.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-77.52</i>	
26 05 36 00-0363	EA		24" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,234.55	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-86.99</i>	
26 05 36 00-0364	EA		30" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,386.68	468.77
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-99.60</i>	
26 05 36 00-0365	EA		36" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,516.53	504.89
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-109.58</i>	
26 05 36 00-0366			24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0367	EA		6" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,308.75	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-100.50</i>	
26 05 36 00-0368	EA		9" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,367.13	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-104.50</i>	
26 05 36 00-0369	EA		12" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,428.86	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-108.68</i>	
26 05 36 00-0370	EA		18" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,521.98	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-115.73</i>	
26 05 36 00-0371	EA		24" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,687.41	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-126.61</i>	
26 05 36 00-0372	EA		30" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,813.68	547.31
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-135.76</i>	
26 05 36 00-0373	EA		36" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,039.60	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-154.24</i>	
26 05 36 00-0374			36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0375	EA		6" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,664.03	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-132.20</i>	
26 05 36 00-0376	EA		9" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,752.80	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-138.81</i>	
26 05 36 00-0377	EA		12" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,847.97	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-145.75</i>	
26 05 36 00-0378	EA		18" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,018.40	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-159.71</i>	
26 05 36 00-0379	EA		24" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,300.90	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-180.37</i>	
26 05 36 00-0380	EA		30" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,508.27	655.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-196.18</i>	
26 05 36 00-0381	EA		36" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,741.59	730.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-213.29</i>	
26 05 36 00-0382			9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0383			12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		

26	Electrical
26 05	Common Work Results for Electrical
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0384 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	307.50	137.24
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.32	
26 05 36 00-0385 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	345.62	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.54	
26 05 36 00-0386 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	380.54	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.66	
26 05 36 00-0387 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	473.15	211.80
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.66	
26 05 36 00-0388 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	540.45	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.78	
26 05 36 00-0389 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	633.80	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.58	
26 05 36 00-0390 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	729.02	312.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.84	
26 05 36 00-0391 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0392 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	400.57	142.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.16	
26 05 36 00-0393 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	441.14	164.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.44	
26 05 36 00-0394 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	478.01	182.39
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.60	
26 05 36 00-0395 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	565.28	226.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.65	
26 05 36 00-0396 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	639.47	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.05	
26 05 36 00-0397 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	716.19	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.76	
26 05 36 00-0398 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	836.17	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.82	
26 05 36 00-0399 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0400 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	428.81	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.45	
26 05 36 00-0401 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	477.91	172.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.41	
26 05 36 00-0402 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	521.08	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.00	
26 05 36 00-0403 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	633.05	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.04	
26 05 36 00-0404 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	726.04	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.82	
26 05 36 00-0405 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	847.66	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.40	
26 05 36 00-0406 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	970.86	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.94	
26 05 36 00-0407 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0408 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	227.05	99.47
<i>For 60 Degree Bend, Deduct</i>	-36.81	
<i>For 30 Degree Bend, Deduct</i>	-66.87	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-14.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0409 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	262.58	119.31
<i>For 60 Degree Bend, Deduct</i>	-40.94	
<i>For 30 Degree Bend, Deduct</i>	-74.85	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.32	
26 05 36 00-0410 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	294.38	136.83
<i>For 60 Degree Bend, Deduct</i>	-44.69	
<i>For 30 Degree Bend, Deduct</i>	-82.09	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.04	
26 05 36 00-0411 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	358.25	172.95
<i>For 60 Degree Bend, Deduct</i>	-51.94	
<i>For 30 Degree Bend, Deduct</i>	-96.18	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.42	
26 05 36 00-0412 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	443.11	211.80
<i>For 60 Degree Bend, Deduct</i>	-65.03	
<i>For 30 Degree Bend, Deduct</i>	-120.16	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.66	
26 05 36 00-0413 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	520.42	243.15
<i>For 60 Degree Bend, Deduct</i>	-78.52	
<i>For 30 Degree Bend, Deduct</i>	-144.38	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.78	
26 05 36 00-0414 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	595.89	285.42
<i>For 60 Degree Bend, Deduct</i>	-87.22	
<i>For 30 Degree Bend, Deduct</i>	-161.23	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.80	
26 05 36 00-0415 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0416 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	248.53	102.62
<i>For 60 Degree Bend, Deduct</i>	-42.70	
<i>For 30 Degree Bend, Deduct</i>	-76.86	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.31	
26 05 36 00-0417 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	288.79	123.69
<i>For 60 Degree Bend, Deduct</i>	-47.88	
<i>For 30 Degree Bend, Deduct</i>	-86.67	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.57	
26 05 36 00-0418 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	330.66	142.85
<i>For 60 Degree Bend, Deduct</i>	-54.37	
<i>For 30 Degree Bend, Deduct</i>	-98.55	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.16	
26 05 36 00-0419 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.17	182.39
<i>For 60 Degree Bend, Deduct</i>	-61.79	
<i>For 30 Degree Bend, Deduct</i>	-113.12	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.71	
26 05 36 00-0420 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	492.69	226.58
<i>For 60 Degree Bend, Deduct</i>	-75.75	
<i>For 30 Degree Bend, Deduct</i>	-138.83	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.39	
26 05 36 00-0421 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	575.65	262.84
<i>For 60 Degree Bend, Deduct</i>	-89.23	
<i>For 30 Degree Bend, Deduct</i>	-163.31	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.67	
26 05 36 00-0422 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	679.12	312.92
<i>For 60 Degree Bend, Deduct</i>	-104.18	
<i>For 30 Degree Bend, Deduct</i>	-191.01	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.84	
26 05 36 00-0423 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0424 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	287.80	105.91
<i>For 60 Degree Bend, Deduct</i>	-54.40	
<i>For 30 Degree Bend, Deduct</i>	-96.54	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.96	
26 05 36 00-0425 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	331.97	128.62
<i>For 60 Degree Bend, Deduct</i>	-60.25	
<i>For 30 Degree Bend, Deduct</i>	-107.57	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.48	

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0426	EA	12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	368.92	149.28
		For 60 Degree Bend, Deduct	-64.52	
		For 30 Degree Bend, Deduct	-115.83	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.45	
26 05 36 00-0427	EA	18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	452.25	193.20
		For 60 Degree Bend, Deduct	-75.16	
		For 30 Degree Bend, Deduct	-136.00	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.12	
26 05 36 00-0428	EA	24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	542.95	243.15
		For 60 Degree Bend, Deduct	-85.96	
		For 30 Degree Bend, Deduct	-156.77	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.03	
26 05 36 00-0429	EA	30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	653.46	285.42
		For 60 Degree Bend, Deduct	-106.22	
		For 30 Degree Bend, Deduct	-192.89	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.56	
26 05 36 00-0430	EA	36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	773.60	345.49
		For 60 Degree Bend, Deduct	-122.84	
		For 30 Degree Bend, Deduct	-223.93	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.57	
26 05 36 00-0431		12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0432	EA	6" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	336.93	136.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.29	
26 05 36 00-0433	EA	9" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	371.90	156.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.16	
26 05 36 00-0434	EA	12" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	403.06	172.81
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.91	
26 05 36 00-0435	EA	18" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	473.15	211.80
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.66	
26 05 36 00-0436	EA	24" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	530.44	243.15
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.78	
26 05 36 00-0437	EA	30" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	591.25	273.66
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.32	
26 05 36 00-0438	EA	36" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	660.81	312.37
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.05	
26 05 36 00-0439		24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0440	EA	6" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	391.81	142.71
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.29	
26 05 36 00-0441	EA	9" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	431.34	164.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.45	
26 05 36 00-0442	EA	12" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	468.00	182.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.60	
26 05 36 00-0443	EA	18" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	550.26	226.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.15	
26 05 36 00-0444	EA	24" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	619.45	262.84
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.05	
26 05 36 00-0445	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	688.66	298.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.01	
26 05 36 00-0446	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	791.12	345.49
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.32	
26 05 36 00-0447		36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0448	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	456.34	149.14
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.20	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-0449	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	503.18	172.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.92	
26 05 36 00-0450	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	539.85	193.20
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.88	
26 05 36 00-0451	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	640.56	243.15
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.79	
26 05 36 00-0452	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	713.53	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.57	
26 05 36 00-0453	EA	30" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	817.62	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.40	
26 05 36 00-0454	EA	36" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	930.81	385.86
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.93	
26 05 36 00-0455		12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0456	EA	6" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	605.69	262.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.67	
26 05 36 00-0457	EA	9" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	655.96	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.81	
26 05 36 00-0458	EA	12" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	687.41	298.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.88	
26 05 36 00-0459	EA	18" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	765.06	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.14	
26 05 36 00-0460	EA	24" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	862.88	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.91	
26 05 36 00-0461	EA	30" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	949.55	386.54
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.75	
26 05 36 00-0462	EA	36" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,074.76	437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.01	
26 05 36 00-0463		24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0464	EA	6" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	738.56	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.07	
26 05 36 00-0465	EA	9" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	796.76	312.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.60	
26 05 36 00-0466	EA	12" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	832.64	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.90	
26 05 36 00-0467	EA	18" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	915.44	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.17	
26 05 36 00-0468	EA	24" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,019.53	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.75	
26 05 36 00-0469	EA	30" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,094.78	437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.01	
26 05 36 00-0470	EA	36" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,310.57	505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.93	
26 05 36 00-0471		36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0472	EA	6" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	914.40	312.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.37	
26 05 36 00-0473	EA	9" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	983.84	345.49
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.59	
26 05 36 00-0474	EA	12" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,043.09	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.93	
26 05 36 00-0475	EA	18" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,152.18	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.01	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0476	EA 24" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,309.09	468.63
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-91.86</i>	
26 05 36 00-0477	EA 30" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,418.20	505.58
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-99.69</i>	
26 05 36 00-0478	EA 36" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,612.60	596.57
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-111.54</i>	
26 05 36 00-0479	12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0480	EA 6" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	690.62	243.15
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-48.80</i>	
26 05 36 00-0481	EA 9" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	709.09	252.71
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-49.85</i>	
26 05 36 00-0482	EA 12" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	728.33	262.84
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-50.93</i>	
26 05 36 00-0483	EA 18" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	771.09	285.42
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-53.32</i>	
26 05 36 00-0484	EA 24" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	797.54	298.28
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-54.89</i>	
26 05 36 00-0485	EA 30" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	867.68	328.38
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-59.40</i>	
26 05 36 00-0486	EA 36" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	940.47	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-63.67</i>	
26 05 36 00-0487	24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0488	EA 6" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	953.59	262.84
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-73.46</i>	
26 05 36 00-0489	EA 9" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	979.20	273.66
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-75.12</i>	
26 05 36 00-0490	EA 12" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,006.37	285.42
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-76.85</i>	
26 05 36 00-0491	EA 18" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,067.07	312.92
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-80.64</i>	
26 05 36 00-0492	EA 24" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,107.96	328.38
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-83.43</i>	
26 05 36 00-0493	EA 30" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,183.25	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-87.95</i>	
26 05 36 00-0494	EA 36" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,284.84	410.48
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-94.28</i>	
26 05 36 00-0495	36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0496	EA 6" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,439.37	285.42
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-120.15</i>	
26 05 36 00-0497	EA 9" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,473.32	298.28
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-122.47</i>	
26 05 36 00-0498	EA 12" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,510.09	312.92
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-124.94</i>	
26 05 36 00-0499	EA 18" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,577.03	345.49
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-128.91</i>	
26 05 36 00-0500	EA 24" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,621.26	364.50
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-131.75</i>	
26 05 36 00-0501	EA 30" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,735.36	410.48
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-139.33</i>	
26 05 36 00-0502	EA 36" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,844.72	468.63
	<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-145.42</i>	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0503				12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0504	EA			6" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	755.05	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.14	
26 05 36 00-0505	EA			9" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	793.62	345.49
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.57	
26 05 36 00-0506	EA			12" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	845.36	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.16	
26 05 36 00-0507	EA			18" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	904.49	386.54
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.24	
26 05 36 00-0508	EA			24" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,019.70	437.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.50	
26 05 36 00-0509	EA			30" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,128.88	468.63
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.84	
26 05 36 00-0510	EA			36" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,230.48	505.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.92	
26 05 36 00-0511				24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0512	EA			6" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,010.55	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.68	
26 05 36 00-0513	EA			9" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,059.67	386.54
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.76	
26 05 36 00-0514	EA			12" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,112.14	410.48
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.01	
26 05 36 00-0515	EA			18" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,184.89	437.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.02	
26 05 36 00-0516	EA			24" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,328.09	505.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.68	
26 05 36 00-0517	EA			30" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,430.28	547.31
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.42	
26 05 36 00-0518	EA			36" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,595.08	596.57
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.79	
26 05 36 00-0519				36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0520	EA			6" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,247.29	410.48
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.52	
26 05 36 00-0521	EA			9" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,317.54	437.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.29	
26 05 36 00-0522	EA			12" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,394.19	468.63
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.37	
26 05 36 00-0523	EA			18" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,518.32	505.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.71	
26 05 36 00-0524	EA			24" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,745.25	596.57
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-124.81	
26 05 36 00-0525	EA			30" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,906.32	655.67
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-135.99	
26 05 36 00-0526	EA			36" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,093.34	730.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-148.47	
26 05 36 00-0527				12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0528	EA			6" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	848.54	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.49	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0529	EA		9" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	891.81	345.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.38	
26 05 36 00-0530	EA		12" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	952.25	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.85	
26 05 36 00-0531	EA		18" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,021.88	386.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.97	
26 05 36 00-0532	EA		24" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,150.35	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.57	
26 05 36 00-0533	EA		30" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,285.79	468.77
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.51	
26 05 36 00-0534	EA		36" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,404.03	504.89
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.33	
26 05 36 00-0535			24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0536	EA		6" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,191.88	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.81	
26 05 36 00-0537	EA		9" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,246.64	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.45	
26 05 36 00-0538	EA		12" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,304.74	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-96.27	
26 05 36 00-0539	EA		18" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,389.88	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.52	
26 05 36 00-0540	EA		24" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,546.60	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.53	
26 05 36 00-0541	EA		30" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,663.43	547.31
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.73	
26 05 36 00-0542	EA		36" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,865.39	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-136.82	
26 05 36 00-0543			36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0544	EA		6" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,500.71	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.86	
26 05 36 00-0545	EA		9" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,582.23	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.76	
26 05 36 00-0546	EA		12" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,670.14	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.97	
26 05 36 00-0547	EA		18" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,822.42	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-140.12	
26 05 36 00-0548	EA		24" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,083.15	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.60	
26 05 36 00-0549	EA		30" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,272.37	655.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-172.59	
26 05 36 00-0550	EA		36" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,487.55	730.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-187.89	
26 05 36 00-0551			12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small>		
26 05 36 00-0552			12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0553	EA		6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	301.98	137.24
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.77	
26 05 36 00-0554	EA		9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	339.66	156.26
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0555 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	374.06 -23.01	172.81
26 05 36 00-0556 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	464.74 -28.82	211.80
26 05 36 00-0557 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	530.99 -32.83	243.15
26 05 36 00-0558 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	621.36 -39.33	273.66
26 05 36 00-0559 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	714.48 -45.38	312.78
26 05 36 00-0560 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0561 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	389.18 -27.02	142.71
26 05 36 00-0562 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	429.40 -29.27	164.05
26 05 36 00-0563 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	465.84 -31.38	182.39
26 05 36 00-0564 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	552.14 -36.34	226.58
26 05 36 00-0565 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	625.37 -40.64	262.84
26 05 36 00-0566 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	700.86 -45.23	298.28
26 05 36 00-0567 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	817.95 -53.00	345.49
26 05 36 00-0568 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0569 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	416.19 -29.19	149.14
26 05 36 00-0570 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	464.60 -32.08	172.68
26 05 36 00-0571 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	507.15 -34.61	193.20
26 05 36 00-0572 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	617.11 -41.45	243.15
26 05 36 00-0573 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	708.52 -47.06	285.42
26 05 36 00-0574 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	826.63 -55.30	328.38
26 05 36 00-0575 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	947.91 -62.64	385.86
26 05 36 00-0576 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0577 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	222.76 -35.39 -64.51 -13.99	99.47
26 05 36 00-0578 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	258.12 -39.46 -72.40 -15.87	119.31
26 05 36 00-0579 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	289.73 -43.16 -79.53 -17.57	136.83

26 Electrical
26 05 Common Work Results for Electrical
 26 05 36 Cable Trays for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-0580	EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	353.35 -50.33 -93.48 -20.93	172.95
26 05 36 00-0581	EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	436.81 -62.96 -116.69 -26.03	211.80
26 05 36 00-0582	EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	512.36 -75.86 -139.95 -30.97	243.15
26 05 36 00-0583	EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	587.48 -84.45 -156.60 -34.96	285.42
26 05 36 00-0584	24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0585	EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	243.10 -40.91 -73.88 -15.76	102.62
26 05 36 00-0586	EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	283.00 -45.97 -83.48 -17.99	123.69
26 05 36 00-0587	EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	324.18 -52.23 -94.98 -20.52	142.85
26 05 36 00-0588	EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	392.51 -59.59 -109.46 -24.05	182.39
26 05 36 00-0589	EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	484.63 -73.09 -134.40 -29.59	226.58
26 05 36 00-0590	EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	566.01 -86.05 -158.01 -34.70	262.84
26 05 36 00-0591	EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	668.09 -100.54 -184.95 -40.74	312.92
26 05 36 00-0592	36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0593	EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	280.00 -51.82 -92.25 -19.18	105.91
26 05 36 00-0594	EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	323.73 -57.54 -103.04 -21.66	128.62
26 05 36 00-0595	EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	360.51 -61.75 -111.21 -23.61	149.28
26 05 36 00-0596	EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	443.14 -72.15 -130.99 -28.21	193.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0597 EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	533.31	243.15
For 60 Degree Bend, Deduct	-82.78	
For 30 Degree Bend, Deduct	-151.47	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.07	
26 05 36 00-0598 EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	641.02	285.42
For 60 Degree Bend, Deduct	-102.11	
For 30 Degree Bend, Deduct	-186.05	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.31	
26 05 36 00-0599 EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	759.76	345.49
For 60 Degree Bend, Deduct	-118.27	
For 30 Degree Bend, Deduct	-216.31	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.18	
26 05 36 00-0600 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0601 EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	329.31	136.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.53	
26 05 36 00-0602 EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	364.10	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.38	
26 05 36 00-0603 EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	395.00	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.10	
26 05 36 00-0604 EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	464.74	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.82	
26 05 36 00-0605 EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	521.68	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.90	
26 05 36 00-0606 EA 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	581.79	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.37	
26 05 36 00-0607 EA 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	651.00	312.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.07	
26 05 36 00-0608 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0609 EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	381.03	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.21	
26 05 36 00-0610 EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	420.31	164.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.35	
26 05 36 00-0611 EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	456.52	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.45	
26 05 36 00-0612 EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	538.17	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.94	
26 05 36 00-0613 EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	606.75	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.78	
26 05 36 00-0614 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	675.26	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.67	
26 05 36 00-0615 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	776.05	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.81	
26 05 36 00-0616 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0617 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	441.80	149.14
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.75	
26 05 36 00-0618 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	488.11	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.41	
26 05 36 00-0619 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	524.61	193.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.36	
26 05 36 00-0620 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	624.09	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.14	
26 05 36 00-0621 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	696.88	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0622 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	798.70	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.50	
26 05 36 00-0623 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	910.67	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.92	
26 05 36 00-0624 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0625 EA 6" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	588.92	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.99	
26 05 36 00-0626 EA 9" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	637.94	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.01	
26 05 36 00-0627 EA 12" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	668.39	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.98	
26 05 36 00-0628 EA 18" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	743.29	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.96	
26 05 36 00-0629 EA 24" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	837.35	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.36	
26 05 36 00-0630 EA 30" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	919.01	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.69	
26 05 36 00-0631 EA 36" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,040.22	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.55	
26 05 36 00-0632 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0633 EA 6" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	712.27	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.44	
26 05 36 00-0634 EA 9" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	769.23	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.85	
26 05 36 00-0635 EA 12" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	804.11	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.05	
26 05 36 00-0636 EA 18" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	884.65	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.09	
26 05 36 00-0637 EA 24" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	985.99	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.39	
26 05 36 00-0638 EA 30" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,058.24	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.36	
26 05 36 00-0639 EA 36" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,263.77	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.25	
26 05 36 00-0640 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0641 EA 6" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	875.10	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.44	
26 05 36 00-0642 EA 9" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	943.05	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.51	
26 05 36 00-0643 EA 12" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	999.54	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.58	
26 05 36 00-0644 EA 18" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,105.38	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.33	
26 05 36 00-0645 EA 24" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,256.28	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.58	
26 05 36 00-0646 EA 30" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,360.63	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.94	
26 05 36 00-0647 EA 36" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,550.78	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 05 36 00-0648 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0649	EA			6" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	662.09	243.15
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-45.94</i>	
26 05 36 00-0650	EA			9" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	680.31	252.71
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-46.97</i>	
26 05 36 00-0651	EA			12" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	699.29	262.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-48.03</i>	
26 05 36 00-0652	EA			18" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	741.56	285.42
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-50.37</i>	
26 05 36 00-0653	EA			24" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	767.50	298.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-51.89</i>	
26 05 36 00-0654	EA			30" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	835.65	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-56.20</i>	
26 05 36 00-0655	EA			36" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	907.18	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-60.34</i>	
				26 05 36 00-0656 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0657	EA			6" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	902.03	262.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-68.30</i>	
26 05 36 00-0658	EA			9" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	926.89	273.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-69.88</i>	
26 05 36 00-0659	EA			12" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	953.31	285.42
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-71.54</i>	
26 05 36 00-0660	EA			18" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,012.51	312.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-75.18</i>	
26 05 36 00-0661	EA			24" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,051.90	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-77.82</i>	
26 05 36 00-0662	EA			30" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,125.68	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-82.19</i>	
26 05 36 00-0663	EA			36" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,224.77	410.48
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-88.27</i>	
				26 05 36 00-0664 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0665	EA			6" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,343.01	285.42
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-110.51</i>	
26 05 36 00-0666	EA			9" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,375.71	298.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-112.71</i>	
26 05 36 00-0667	EA			12" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,411.22	312.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-115.05</i>	
26 05 36 00-0668	EA			18" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,476.92	345.49
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-118.90</i>	
26 05 36 00-0669	EA			24" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,519.89	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-121.61</i>	
26 05 36 00-0670	EA			30" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,630.24	410.48
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-128.82</i>	
26 05 36 00-0671	EA			36" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,738.34	468.63
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-134.79</i>	
				26 05 36 00-0672 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0673	EA			6" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	734.28	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-46.06</i>	

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05	36 00-0674	EA	9" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	771.85	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.39	
26 05	36 00-0675	EA	12" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	821.58	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.78	
26 05	36 00-0676	EA	18" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	878.46	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.64	
26 05	36 00-0677	EA	24" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	990.66	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.60	
26 05	36 00-0678	EA	30" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,094.09	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.36	
26 05	36 00-0679	EA	36" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,191.69	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.04	
26 05	36 00-0680		24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05	36 00-0681	EA	6" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	970.25	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.65	
26 05	36 00-0682	EA	9" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,018.12	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.60	
26 05	36 00-0683	EA	12" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,069.34	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.73	
26 05	36 00-0684	EA	18" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,139.34	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.47	
26 05	36 00-0685	EA	24" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,279.54	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.83	
26 05	36 00-0686	EA	30" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,378.47	547.31
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.24	
26 05	36 00-0687	EA	36" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,535.01	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.78	
26 05	36 00-0688		36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05	36 00-0689	EA	6" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,190.98	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.89	
26 05	36 00-0690	EA	9" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,258.73	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.41	
26 05	36 00-0691	EA	12" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,332.87	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.24	
26 05	36 00-0692	EA	18" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,450.74	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.95	
26 05	36 00-0693	EA	24" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,670.17	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-117.30	
26 05	36 00-0694	EA	30" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,824.97	655.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.85	
26 05	36 00-0695	EA	36" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	2,005.74	730.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.71	
26 05	36 00-0696		12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05	36 00-0697	EA	6" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	818.41	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.48	
26 05	36 00-0698	EA	9" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	860.24	345.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.22	
26 05	36 00-0699	EA	12" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	917.77	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.40	
26 05	36 00-0700	EA	18" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	984.13	386.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.19	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0731 EA 30"-12" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	406.09 -26.94	164.05
26 05 36 00-0732 EA 30"-18" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	410.88 -27.43	163.92
26 05 36 00-0733 EA 36"-12" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	452.83 -29.65	187.59
26 05 36 00-0734 EA 36"-18" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	466.06 -30.56	192.52
26 05 36 00-0735 EA 36"-24" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	481.31 -31.57	198.67
26 05 36 00-0736 Dropout Or End Plate <small>(26 05 36 00-0720)</small>		
26 05 36 00-0737 EA 6" Dropout Or End Plate, Steel Cable Tray.....	81.30	41.05
26 05 36 00-0738 EA 9" Dropout Or End Plate, Steel Cable Tray.....	93.27	46.93
26 05 36 00-0739 EA 12" Dropout Or End Plate, Steel Cable Tray.....	100.66	50.49
26 05 36 00-0740 EA 18" Dropout Or End Plate, Steel Cable Tray.....	118.86	59.66
26 05 36 00-0741 EA 24" Dropout Or End Plate, Steel Cable Tray.....	132.99	65.68
26 05 36 00-0742 EA 30" Dropout Or End Plate, Steel Cable Tray.....	147.43	72.93
26 05 36 00-0743 EA 36" Dropout Or End Plate, Steel Cable Tray.....	166.36	82.10
26 05 36 00-0744 Ladder Bottom Aluminum Cable Tray <small>(26 05 36 00-0001)</small> Note: 4-5/8" Height		
26 05 36 00-0745 Straight Tray Sections <small>(26 05 36 00-0744)</small>		
26 05 36 00-0746 4" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0747 LF 6" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.93 4.09 -2.99 1.90	9.58
26 05 36 00-0748 LF 9" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.01 4.32 -3.16 2.00	10.13
26 05 36 00-0749 LF 12" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	42.08 4.55 -3.33 2.10	10.54
26 05 36 00-0750 LF 18" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.51 5.05 -3.69 2.33	11.49
26 05 36 00-0751 LF 24" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	52.26 5.80 -4.21 2.61	12.31
26 05 36 00-0752 LF 30" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	56.86 6.35 -4.60 2.84	13.14
26 05 36 00-0753 LF 36" Aluminum Cable Tray, 4" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	61.14 6.84 -4.95 3.06	13.96
26 05 36 00-0754 6" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0755 LF 6" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.93 3.79 -2.79 1.80	9.58
26 05 36 00-0756 LF 9" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.90 4.00 -2.95 1.90	10.13
26 05 36 00-0757 LF 12" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.86 4.22 -3.11 1.99	10.54
26 05 36 00-0758 LF 18" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.03 4.68 -3.44 2.20	11.49
26 05 36 00-0759 LF 24" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	49.37 5.36 -3.92 2.47	12.31
26 05 36 00-0760 LF 30" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	53.67 5.87 -4.28 2.68	13.14



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0761	LF		36" Aluminum Cable Tray, 6" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	57.70 6.32 -4.60 2.89	13.96
26 05 36 00-0762 9" Rung Spacing <small>(26 05 36 00-0745)</small>					
26 05 36 00-0763	LF		6" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.84 3.39 -2.52 1.64	9.17
26 05 36 00-0764	LF		9" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.60 3.44 -2.56 1.68	9.58
26 05 36 00-0765	LF		12" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.73 3.68 -2.73 1.79	10.13
26 05 36 00-0766	LF		18" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	38.23 3.93 -2.92 1.91	10.81
26 05 36 00-0767	LF		24" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.97 4.43 -3.26 2.10	11.22
26 05 36 00-0768	LF		30" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.12 4.90 -3.60 2.31	12.04
26 05 36 00-0769	LF		36" Aluminum Cable Tray, 9" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	49.32 5.21 -3.84 2.47	13.14
26 05 36 00-0770 12" Rung Spacing <small>(26 05 36 00-0745)</small>					
26 05 36 00-0771	LF		6" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.00 3.32 -2.46 1.60	8.90
26 05 36 00-0772	LF		9" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.63 3.36 -2.50 1.63	9.17
26 05 36 00-0773	LF		12" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.12 3.49 -2.60 1.71	9.72
26 05 36 00-0774	LF		18" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.13 3.70 -2.75 1.81	10.26
26 05 36 00-0775	LF		24" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	38.52 4.03 -2.98 1.93	10.40
26 05 36 00-0776	LF		30" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.63 4.34 -3.21 2.08	11.49
26 05 36 00-0777	LF		36" Aluminum Cable Tray, 12" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.40 4.59 -3.41 2.22	12.45
26 05 36 00-0778 18" Rung Spacing <small>(26 05 36 00-0745)</small>					
26 05 36 00-0779	LF		6" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.50 3.29 -2.43 1.58	8.62
26 05 36 00-0780	LF		9" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.84 3.28 -2.44 1.59	9.03
26 05 36 00-0781	LF		12" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.44 3.46 -2.57 1.67	9.31
26 05 36 00-0782	LF		18" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.22 3.65 -2.70 1.76	9.85

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0783 LF 24" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.93 3.88 -2.86 1.85	9.99
26 05 36 00-0784 LF 30" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.12 4.05 -3.01 1.96	10.94
26 05 36 00-0785 LF 36" Aluminum Cable Tray, 18" Rung Spacing, Straight Section <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.83 4.29 -3.19 2.09	11.90
26 05 36 00-0786 4" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-0787 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0788 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	336.39 -22.21 16.82	137.24
26 05 36 00-0789 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	370.97 -24.07 18.55	156.26
26 05 36 00-0790 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	418.84 -27.49 20.94	172.81
26 05 36 00-0791 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	500.28 -32.38 25.01	211.80
26 05 36 00-0792 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	588.02 -38.54 29.40	243.15
26 05 36 00-0793 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	649.72 -42.17 32.49	273.66
26 05 36 00-0794 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	755.82 -49.52 37.79	312.78
26 05 36 00-0795 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0796 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	428.79 -30.99 21.44	142.71
26 05 36 00-0797 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	472.53 -33.58 23.63	164.05
26 05 36 00-0798 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	512.69 -36.07 25.63	182.39
26 05 36 00-0799 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	603.92 -41.51 30.20	226.58
26 05 36 00-0800 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.17 -46.72 34.31	262.84
26 05 36 00-0801 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	768.55 -52.00 38.43	298.28
26 05 36 00-0802 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	881.32 -59.34 44.07	345.49
26 05 36 00-0803 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0804 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	458.60 -33.43 22.93	149.14
26 05 36 00-0805 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	503.14 -35.93 25.16	172.68
26 05 36 00-0806 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	562.10 -40.11 28.11	193.20
26 05 36 00-0807 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	675.29 -47.26 33.76	243.15
26 05 36 00-0808 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	781.20 -54.33 39.06	285.42
26 05 36 00-0809 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	882.76 -60.91 44.14	328.38



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0810	EA	36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,027.52 -70.60 51.38	385.86
26 05 36 00-0811 45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-0786)</small>				
26 05 36 00-0812	EA	6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	236.64 -39.97 -72.15 -15.38 11.83	99.47
26 05 36 00-0813	EA	9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	272.40 -44.18 -80.25 -17.30 13.62	119.31
26 05 36 00-0814	EA	12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	304.41 -48.00 -87.61 -19.04 15.22	136.83
26 05 36 00-0815	EA	18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	378.17 -58.52 -107.13 -23.41 18.91	172.95
26 05 36 00-0816	EA	24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	464.83 -72.20 -132.10 -28.83 23.24	211.80
26 05 36 00-0817	EA	30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	533.47 -82.83 -151.56 -33.08 26.67	243.15
26 05 36 00-0818	EA	36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	609.38 -91.67 -168.65 -37.15 30.47	285.42
26 05 36 00-0819 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-0786)</small>				
26 05 36 00-0820	EA	6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	266.39 -48.59 -86.69 -18.09 13.32	102.62
26 05 36 00-0821	EA	9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	312.55 -55.72 -99.74 -20.95 15.63	123.69
26 05 36 00-0822	EA	12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	347.14 -59.80 -107.61 -22.81 17.36	142.85
26 05 36 00-0823	EA	18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	421.33 -69.11 -125.31 -26.93 21.07	182.39
26 05 36 00-0824	EA	24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	513.92 -82.75 -150.51 -32.51 25.70	226.58
26 05 36 00-0825	EA	30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	601.62 -97.80 -177.59 -38.26 30.08	262.84
26 05 36 00-0826	EA	36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	693.26 -108.84 -198.79 -43.25 34.66	312.92
26 05 36 00-0827 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-0786)</small>				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0828 EA 6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	304.60	105.91
For 60 Degree Bend, Deduct	-59.94	
For 30 Degree Bend, Deduct	-105.78	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.64	
For 6" Overall Height Instead Of 4-5/8", Add	15.23	
26 05 36 00-0829 EA 9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	345.24	128.62
For 60 Degree Bend, Deduct	-64.63	
For 30 Degree Bend, Deduct	-114.87	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.81	
For 6" Overall Height Instead Of 4-5/8", Add	17.26	
26 05 36 00-0830 EA 12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	382.41	149.28
For 60 Degree Bend, Deduct	-68.98	
For 30 Degree Bend, Deduct	-123.25	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.80	
For 6" Overall Height Instead Of 4-5/8", Add	19.12	
26 05 36 00-0831 EA 18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	469.37	193.20
For 60 Degree Bend, Deduct	-80.81	
For 30 Degree Bend, Deduct	-145.42	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.83	
For 6" Overall Height Instead Of 4-5/8", Add	23.47	
26 05 36 00-0832 EA 24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	585.29	243.15
For 60 Degree Bend, Deduct	-99.93	
For 30 Degree Bend, Deduct	-180.06	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.26	
For 6" Overall Height Instead Of 4-5/8", Add	29.26	
26 05 36 00-0833 EA 30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	666.66	285.42
For 60 Degree Bend, Deduct	-110.58	
For 30 Degree Bend, Deduct	-200.15	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.88	
For 6" Overall Height Instead Of 4-5/8", Add	33.33	
26 05 36 00-0834 EA 36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	785.87	345.49
For 60 Degree Bend, Deduct	-126.89	
For 30 Degree Bend, Deduct	-230.67	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.79	
For 6" Overall Height Instead Of 4-5/8", Add	39.29	
26 05 36 00-0835 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-0786)</small>		
26 05 36 00-0836 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	361.98	136.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.80	
For 6" Overall Height Instead Of 4-5/8", Add	18.10	
26 05 36 00-0837 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	401.75	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.15	
For 6" Overall Height Instead Of 4-5/8", Add	20.09	
26 05 36 00-0838 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	431.60	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.76	
For 6" Overall Height Instead Of 4-5/8", Add	21.58	
26 05 36 00-0839 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	501.55	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.50	
For 6" Overall Height Instead Of 4-5/8", Add	25.08	
26 05 36 00-0840 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	561.13	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.85	
For 6" Overall Height Instead Of 4-5/8", Add	28.06	
26 05 36 00-0841 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	619.24	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.12	
For 6" Overall Height Instead Of 4-5/8", Add	30.96	
26 05 36 00-0842 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	688.67	312.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.83	
For 6" Overall Height Instead Of 4-5/8", Add	34.43	
26 05 36 00-0843 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-0786)</small>		
26 05 36 00-0844 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	382.76	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.38	
For 6" Overall Height Instead Of 4-5/8", Add	19.14	
26 05 36 00-0845 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	424.63	164.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.78	
For 6" Overall Height Instead Of 4-5/8", Add	21.23	
26 05 36 00-0846 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	458.68	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.67	
For 6" Overall Height Instead Of 4-5/8", Add	22.93	
26 05 36 00-0847 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	540.71	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.19	
For 6" Overall Height Instead Of 4-5/8", Add	27.04	
26 05 36 00-0848 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray	610.88	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.19	
For 6" Overall Height Instead Of 4-5/8", Add	30.54	
26 05 36 00-0849 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	679.82	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.12	
For 6" Overall Height Instead Of 4-5/8", Add	33.99	
26 05 36 00-0850 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	770.67	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.27	
For 6" Overall Height Instead Of 4-5/8", Add	38.53	

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0935 EA 18" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	935.67	386.68
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.35	
For 6" Overall Height Instead Of 4-5/8", Add	46.78	
26 05 36 00-0936 EA 24" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,030.72	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.60	
For 6" Overall Height Instead Of 4-5/8", Add	51.54	
26 05 36 00-0937 EA 30" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,135.87	468.77
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.52	
For 6" Overall Height Instead Of 4-5/8", Add	56.79	
26 05 36 00-0938 EA 36" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,284.68	504.89
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.39	
For 6" Overall Height Instead Of 4-5/8", Add	64.23	
26 05 36 00-0939 24" Radius Vertical Crosses (26 05 36 00-0786)		
26 05 36 00-0940 EA 6" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,020.37	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.66	
For 6" Overall Height Instead Of 4-5/8", Add	51.02	
26 05 36 00-0941 EA 9" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,069.64	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.75	
For 6" Overall Height Instead Of 4-5/8", Add	53.48	
26 05 36 00-0942 EA 12" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,122.25	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.02	
For 6" Overall Height Instead Of 4-5/8", Add	56.11	
26 05 36 00-0943 EA 18" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,190.26	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.56	
For 6" Overall Height Instead Of 4-5/8", Add	59.51	
26 05 36 00-0944 EA 24" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,343.95	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.27	
For 6" Overall Height Instead Of 4-5/8", Add	67.20	
26 05 36 00-0945 EA 30" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,449.06	547.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-99.30	
For 6" Overall Height Instead Of 4-5/8", Add	72.45	
26 05 36 00-0946 EA 36" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,599.63	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-110.24	
For 6" Overall Height Instead Of 4-5/8", Add	79.98	
26 05 36 00-0947 36" Radius Vertical Crosses (26 05 36 00-0786)		
26 05 36 00-0948 EA 6" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,389.17	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-104.71	
For 6" Overall Height Instead Of 4-5/8", Add	69.46	
26 05 36 00-0949 EA 9" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,463.77	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.91	
For 6" Overall Height Instead Of 4-5/8", Add	73.19	
26 05 36 00-0950 EA 12" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,559.45	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.90	
For 6" Overall Height Instead Of 4-5/8", Add	77.97	
26 05 36 00-0951 EA 18" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,672.41	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-125.11	
For 6" Overall Height Instead Of 4-5/8", Add	83.62	
26 05 36 00-0952 EA 24" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,022.55	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-152.54	
For 6" Overall Height Instead Of 4-5/8", Add	101.13	
26 05 36 00-0953 EA 30" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,231.20	655.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-168.48	
For 6" Overall Height Instead Of 4-5/8", Add	111.56	
26 05 36 00-0954 EA 36" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,484.17	730.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-187.55	
For 6" Overall Height Instead Of 4-5/8", Add	124.21	
26 05 36 00-0955 6" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-0956 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0957 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	321.00	137.24
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.67	
For 6" Overall Height Instead Of 4-5/8", Add	16.05	
26 05 36 00-0958 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	355.19	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.49	
For 6" Overall Height Instead Of 4-5/8", Add	17.76	
26 05 36 00-0959 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	400.14	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.62	
For 6" Overall Height Instead Of 4-5/8", Add	20.01	
26 05 36 00-0960 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	479.24	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.27	
For 6" Overall Height Instead Of 4-5/8", Add	23.96	
26 05 36 00-0961 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	561.91	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.93	
For 6" Overall Height Instead Of 4-5/8", Add	28.10	
26 05 36 00-0962 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	622.06	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.40	
For 6" Overall Height Instead Of 4-5/8", Add	31.10	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0987 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	590.29	285.42
<i>For 60 Degree Bend, Deduct</i>	-85.37	
<i>For 30 Degree Bend, Deduct</i>	-158.15	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.24	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	29.51	
26 05 36 00-0988 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0989 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	252.76	102.62
<i>For 60 Degree Bend, Deduct</i>	-44.09	
<i>For 30 Degree Bend, Deduct</i>	-79.19	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.73	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	12.64	
26 05 36 00-0990 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	297.36	123.69
<i>For 60 Degree Bend, Deduct</i>	-50.71	
<i>For 30 Degree Bend, Deduct</i>	-91.38	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.43	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.87	
26 05 36 00-0991 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	331.56	142.85
<i>For 60 Degree Bend, Deduct</i>	-54.66	
<i>For 30 Degree Bend, Deduct</i>	-99.04	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.25	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.58	
26 05 36 00-0992 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	404.58	182.39
<i>For 60 Degree Bend, Deduct</i>	-63.58	
<i>For 30 Degree Bend, Deduct</i>	-116.10	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.26	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.23	
26 05 36 00-0993 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	494.44	226.58
<i>For 60 Degree Bend, Deduct</i>	-76.33	
<i>For 30 Degree Bend, Deduct</i>	-139.80	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.57	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.72	
26 05 36 00-0994 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	578.25	262.84
<i>For 60 Degree Bend, Deduct</i>	-90.08	
<i>For 30 Degree Bend, Deduct</i>	-164.74	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.91	
26 05 36 00-0995 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	668.71	312.92
<i>For 60 Degree Bend, Deduct</i>	-100.74	
<i>For 30 Degree Bend, Deduct</i>	-185.29	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.80	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.44	
26 05 36 00-0996 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0997 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	286.29	105.91
<i>For 60 Degree Bend, Deduct</i>	-53.90	
<i>For 30 Degree Bend, Deduct</i>	-95.71	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.81	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.31	
26 05 36 00-0998 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	326.54	128.62
<i>For 60 Degree Bend, Deduct</i>	-58.46	
<i>For 30 Degree Bend, Deduct</i>	-104.58	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.94	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.33	
26 05 36 00-0999 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	363.32	149.28
<i>For 60 Degree Bend, Deduct</i>	-62.68	
<i>For 30 Degree Bend, Deduct</i>	-112.75	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.89	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.17	
26 05 36 00-1000 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	448.33	193.20
<i>For 60 Degree Bend, Deduct</i>	-73.87	
<i>For 30 Degree Bend, Deduct</i>	-133.85	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.73	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.42	
26 05 36 00-1001 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	559.57	243.15
<i>For 60 Degree Bend, Deduct</i>	-91.44	
<i>For 30 Degree Bend, Deduct</i>	-165.91	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.69	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.98	
26 05 36 00-1002 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	639.38	285.42
<i>For 60 Degree Bend, Deduct</i>	-101.57	
<i>For 30 Degree Bend, Deduct</i>	-185.15	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.15	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.97	
26 05 36 00-1003 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	755.87	345.49
<i>For 60 Degree Bend, Deduct</i>	-116.99	
<i>For 30 Degree Bend, Deduct</i>	-214.17	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.79	
26 05 36 00-1004 90 Degree, 12" Radius Vertical Risers (26 05 36 00-0955)		



MINOR	CSU	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1117	EA		6" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,334.94 -99.29 66.75	410.48
26 05 36 00-1118	EA		9" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,407.27 -104.26 70.36	437.58
26 05 36 00-1119	EA		12" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,499.57 -110.91 74.98	468.63
26 05 36 00-1120	EA		18" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,608.57 -118.73 80.43	505.58
26 05 36 00-1121	EA		24" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,943.46 -144.63 97.17	596.57
26 05 36 00-1122	EA		30" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,143.64 -159.72 107.18	655.67
26 05 36 00-1123	EA		36" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,386.72 -177.81 119.34	730.38
26 05 36 00-1124			9" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-1125			90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1126	EA		6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	305.61 -19.13 15.28	137.24
26 05 36 00-1127	EA		9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	339.42 -20.92 16.97	156.26
26 05 36 00-1128	EA		12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	381.44 -23.75 19.07	172.81
26 05 36 00-1129	EA		18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	458.20 -28.17 22.91	211.80
26 05 36 00-1130	EA		24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	535.81 -33.32 26.79	243.15
26 05 36 00-1131	EA		30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	594.40 -36.64 29.72	273.66
26 05 36 00-1132	EA		36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	688.81 -42.82 34.44	312.78
26 05 36 00-1133			90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1134	EA		6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	374.24 -25.53 18.71	142.71
26 05 36 00-1135	EA		9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	415.65 -27.89 20.78	164.05
26 05 36 00-1136	EA		12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	453.08 -30.11 22.65	182.39
26 05 36 00-1137	EA		18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	539.25 -35.05 26.96	226.58
26 05 36 00-1138	EA		24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	615.26 -39.63 30.76	262.84
26 05 36 00-1139	EA		30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	691.02 -44.24 34.55	298.28
26 05 36 00-1140	EA		36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	794.05 -50.61 39.70	345.49
26 05 36 00-1141			90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1142	EA		6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	398.60 -27.43 19.93	149.14
26 05 36 00-1143	EA		9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	441.58 -29.77 22.08	172.68
26 05 36 00-1144	EA		12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	493.53 -33.25 24.68	193.20

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1145	EA	18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	598.15 -39.55 29.91	243.15
26 05 36 00-1146	EA	24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	693.93 -45.61 34.70	285.42
26 05 36 00-1147	EA	30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	786.92 -51.33 39.35	328.38
26 05 36 00-1148	EA	36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	917.65 -59.62 45.88	385.86
26 05 36 00-1149		45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-1124)</small>		
26 05 36 00-1150	EA	6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	216.38 -33.29 -61.00 -13.35 10.82	99.47
26 05 36 00-1151	EA	9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	251.36 -37.23 -68.68 -15.20 12.57	119.31
26 05 36 00-1152	EA	12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	282.59 -40.80 -75.61 -16.86 14.13	136.83
26 05 36 00-1153	EA	18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	352.45 -50.03 -92.99 -20.84 17.62	172.95
26 05 36 00-1154	EA	24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	432.88 -61.66 -114.53 -25.64 21.64	211.80
26 05 36 00-1155	EA	30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	496.85 -70.74 -131.42 -29.42 24.84	243.15
26 05 36 00-1156	EA	36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	571.20 -79.07 -147.65 -33.33 28.56	285.42
26 05 36 00-1157		45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-1124)</small>		
26 05 36 00-1158	EA	6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	239.12 -39.59 -71.69 -15.37 11.96	102.62
26 05 36 00-1159	EA	9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	282.16 -45.69 -83.02 -17.91 14.11	123.69
26 05 36 00-1160	EA	12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	315.97 -49.52 -90.47 -19.69 15.80	142.85
26 05 36 00-1161	EA	18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	387.83 -58.05 -106.89 -23.58 19.39	182.39
26 05 36 00-1162	EA	24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	474.96 -69.90 -129.08 -28.62 23.75	226.58
26 05 36 00-1163	EA	30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	554.87 -82.37 -151.88 -33.59 27.74	262.84

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05	36 00	1187	EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	643.29 -39.47 32.16	298.28
26 05	36 00	1188	EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	731.71 -44.38 36.59	345.49
26 05 36 00-1189		90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1124)</small>			
26 05	36 00	1190	EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	427.82 -30.35 21.39	149.14
26 05	36 00	1191	EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	471.04 -32.71 23.55	172.81
26 05	36 00	1192	EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	516.90 -35.59 25.85	193.20
26 05	36 00	1193	EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	607.89 -40.52 30.39	243.15
26 05	36 00	1194	EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.14 -44.83 34.31	285.42
26 05	36 00	1195	EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	773.28 -49.96 38.66	328.38
26 05	36 00	1196	EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	878.69 -55.72 43.93	385.86
26 05 36 00-1197		12" Radius Horizontal Tees <small>(26 05 36 00-1124)</small>			
26 05	36 00	1198	EA 6" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	556.82 -33.78 27.84	262.84
26 05	36 00	1199	EA 9" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	602.37 -36.45 30.12	285.42
26 05	36 00	1200	EA 12" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	625.76 -37.72 31.29	298.28
26 05	36 00	1201	EA 18" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	701.20 -42.75 35.06	328.38
26 05	36 00	1202	EA 24" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	777.06 -47.33 38.85	364.50
26 05	36 00	1203	EA 30" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	840.94 -51.88 42.05	386.54
26 05	36 00	1204	EA 36" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	965.07 -60.04 48.25	437.58
26 05 36 00-1205		24" Radius Horizontal Tees <small>(26 05 36 00-1124)</small>			
26 05	36 00	1206	EA 6" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	678.35 -44.05 33.92	285.42
26 05	36 00	1207	EA 9" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	735.72 -47.50 36.79	312.92
26 05	36 00	1208	EA 12" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	767.44 -49.38 38.37	328.38
26 05	36 00	1209	EA 18" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	847.19 -54.34 42.36	364.50
26 05	36 00	1210	EA 24" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	945.18 -60.31 47.26	410.48
26 05	36 00	1211	EA 30" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,015.72 -65.10 50.79	437.58
26 05	36 00	1212	EA 36" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,280.84 -85.96 64.04	505.58
26 05 36 00-1213		36" Radius Horizontal Tees <small>(26 05 36 00-1124)</small>			
26 05	36 00	1214	EA 6" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	807.80 -54.71 40.39	312.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1215 EA 9" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	870.02 -58.21 43.50	345.49
26 05 36 00-1216 EA 12" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	929.00 -62.52 46.45	364.50
26 05 36 00-1217 EA 18" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,023.10 -68.10 51.16	410.48
26 05 36 00-1218 EA 24" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,155.00 -76.45 57.75	468.63
26 05 36 00-1219 EA 30" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,315.90 -89.46 65.80	505.58
26 05 36 00-1220 EA 36" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,520.35 -102.32 76.02	596.57
26 05 36 00-1221 12" Radius Vertical Tees <small>(26 05 36 00-1124)</small>		
26 05 36 00-1222 EA 6" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	672.17 -46.95 33.61	243.15
26 05 36 00-1223 EA 9" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	695.93 -48.53 34.80	252.71
26 05 36 00-1224 EA 12" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	714.61 -49.56 35.73	262.84
26 05 36 00-1225 EA 18" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	758.21 -52.03 37.91	285.42
26 05 36 00-1226 EA 24" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	803.03 -55.44 40.15	298.28
26 05 36 00-1227 EA 30" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	858.99 -58.53 42.95	328.38
26 05 36 00-1228 EA 36" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	929.00 -62.52 46.45	364.50
26 05 36 00-1229 24" Radius Vertical Tees <small>(26 05 36 00-1124)</small>		
26 05 36 00-1230 EA 6" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	889.93 -67.09 44.50	262.84
26 05 36 00-1231 EA 9" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	913.88 -68.58 45.69	273.66
26 05 36 00-1232 EA 12" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	939.38 -70.15 46.97	285.42
26 05 36 00-1233 EA 18" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	998.71 -73.80 49.94	312.92
26 05 36 00-1234 EA 24" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,036.27 -76.26 51.81	328.38
26 05 36 00-1235 EA 30" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,108.22 -80.44 55.41	364.50
26 05 36 00-1236 EA 36" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,229.59 -88.75 61.48	410.48
26 05 36 00-1237 36" Radius Vertical Tees <small>(26 05 36 00-1124)</small>		
26 05 36 00-1238 EA 6" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,335.51 -109.76 66.78	285.42
26 05 36 00-1239 EA 9" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,368.12 -111.95 68.41	298.28
26 05 36 00-1240 EA 12" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,403.53 -114.28 70.18	312.92
26 05 36 00-1241 EA 18" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,469.14 -118.12 73.46	345.49
26 05 36 00-1242 EA 24" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,512.01 -120.82 75.60	364.50

26 Electrical
26 05 Common Work Results for Electrical
 26 05 36 Cable Trays for Electrical Systems



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1243	EA 30" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,622.06 -128.00 81.10	410.48
26 05 36 00-1244	EA 36" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,730.06 -133.96 86.50	468.63
26 05 36 00-1245	12" Radius Horizontal Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1246	EA 6" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	712.89 -43.92 35.64	328.38
26 05 36 00-1247	EA 9" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	758.98 -47.10 37.95	345.49
26 05 36 00-1248	EA 12" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	792.64 -48.89 39.63	364.50
26 05 36 00-1249	EA 18" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	868.21 -54.61 43.41	386.54
26 05 36 00-1250	EA 24" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	961.18 -59.65 48.06	437.58
26 05 36 00-1251	EA 30" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,053.70 -66.32 52.69	468.63
26 05 36 00-1252	EA 36" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,183.44 -76.22 59.17	505.58
26 05 36 00-1253	24" Radius Horizontal Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1254	EA 6" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	925.11 -62.13 46.26	364.50
26 05 36 00-1255	EA 9" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	971.46 -64.94 48.57	386.54
26 05 36 00-1256	EA 12" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,021.15 -67.91 51.06	410.48
26 05 36 00-1257	EA 18" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,083.90 -71.92 54.20	437.58
26 05 36 00-1258	EA 24" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,228.24 -80.70 61.41	505.58
26 05 36 00-1259	EA 30" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,325.16 -86.91 66.26	547.31
26 05 36 00-1260	EA 36" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,459.96 -96.28 73.00	596.57
26 05 36 00-1261	36" Radius Horizontal Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1262	EA 6" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,058.16 -71.61 52.91	410.48
26 05 36 00-1263	EA 9" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,118.97 -75.43 55.95	437.58
26 05 36 00-1264	EA 12" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,193.96 -80.35 59.70	468.63
26 05 36 00-1265	EA 18" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,282.78 -86.15 64.14	505.58
26 05 36 00-1266	EA 24" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,539.83 -104.26 76.99	596.57
26 05 36 00-1267	EA 30" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,696.76 -115.03 84.84	655.67
26 05 36 00-1268	EA 36" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,889.39 -128.07 94.47	730.38
26 05 36 00-1269	12" Radius Vertical Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1270	EA 6" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	712.89 -43.92 35.64	328.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1271 EA 9" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	758.98 -47.10 37.95	345.49
26 05 36 00-1272 EA 12" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	792.64 -48.89 39.63	364.50
26 05 36 00-1273 EA 18" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	868.21 -54.61 43.41	386.54
26 05 36 00-1274 EA 24" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	961.18 -59.65 48.06	437.58
26 05 36 00-1275 EA 30" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,053.70 -66.32 52.69	468.63
26 05 36 00-1276 EA 36" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,181.37 -76.11 59.07	504.21
26 05 36 00-1277 24" Radius Vertical Crosses <small>(26 05 36 00-1274)</small>		
26 05 36 00-1278 EA 6" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	925.11 -62.13 46.26	364.50
26 05 36 00-1279 EA 9" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	971.46 -64.94 48.57	386.54
26 05 36 00-1280 EA 12" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,021.15 -67.91 51.06	410.48
26 05 36 00-1281 EA 18" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,083.90 -71.92 54.20	437.58
26 05 36 00-1282 EA 24" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,228.24 -80.70 61.41	505.58
26 05 36 00-1283 EA 30" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,325.16 -86.91 66.26	547.31
26 05 36 00-1284 EA 36" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,459.96 -96.28 73.00	596.57
26 05 36 00-1285 36" Radius Vertical Crosses <small>(26 05 36 00-1284)</small>		
26 05 36 00-1286 EA 6" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,226.47 -88.44 61.32	410.48
26 05 36 00-1287 EA 9" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,294.29 -92.96 64.71	437.58
26 05 36 00-1288 EA 12" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,379.80 -98.93 68.99	468.63
26 05 36 00-1289 EA 18" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,480.90 -105.96 74.05	505.58
26 05 36 00-1290 EA 24" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,785.28 -128.81 89.26	596.57
26 05 36 00-1291 EA 30" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,968.51 -142.21 98.43	655.67
26 05 36 00-1292 EA 36" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,191.82 -158.32 109.59	730.38
26 05 36 00-1293 12" Rung Tray Fittings <small>(26 05 36 00-0744)</small>		
26 05 36 00-1294 90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-1293)</small>		
26 05 36 00-1295 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	300.22 -18.59 15.01	137.24
26 05 36 00-1296 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	333.89 -20.36 16.69	156.26
26 05 36 00-1297 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	374.89 -23.09 18.74	172.81
26 05 36 00-1298 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	450.84 -27.43 22.54	211.80

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1299 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	526.67	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.40	
For 6" Overall Height Instead Of 4-5/8", Add	26.33	
26 05 36 00-1300 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	584.72	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.67	
For 6" Overall Height Instead Of 4-5/8", Add	29.24	
26 05 36 00-1301 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	677.08	312.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.64	
For 6" Overall Height Instead Of 4-5/8", Add	33.85	
26 05 36 00-1302 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1303 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	364.70	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.58	
For 6" Overall Height Instead Of 4-5/8", Add	18.24	
26 05 36 00-1304 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	405.69	164.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.90	
For 6" Overall Height Instead Of 4-5/8", Add	20.28	
26 05 36 00-1305 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	442.65	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.06	
For 6" Overall Height Instead Of 4-5/8", Add	22.13	
26 05 36 00-1306 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	527.93	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.92	
For 6" Overall Height Instead Of 4-5/8", Add	26.40	
26 05 36 00-1307 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	602.85	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.39	
For 6" Overall Height Instead Of 4-5/8", Add	30.14	
26 05 36 00-1308 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	677.45	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.89	
For 6" Overall Height Instead Of 4-5/8", Add	33.87	
26 05 36 00-1309 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	778.78	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.08	
For 6" Overall Height Instead Of 4-5/8", Add	38.94	
26 05 36 00-1310 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1311 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	388.10	149.14
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.38	
For 6" Overall Height Instead Of 4-5/8", Add	19.41	
26 05 36 00-1312 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	430.81	172.68
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.70	
For 6" Overall Height Instead Of 4-5/8", Add	21.54	
26 05 36 00-1313 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	481.53	193.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.05	
For 6" Overall Height Instead Of 4-5/8", Add	24.08	
26 05 36 00-1314 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	584.65	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.20	
For 6" Overall Height Instead Of 4-5/8", Add	29.23	
26 05 36 00-1315 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	678.66	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.08	
For 6" Overall Height Instead Of 4-5/8", Add	33.93	
26 05 36 00-1316 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	770.15	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.65	
For 6" Overall Height Instead Of 4-5/8", Add	38.51	
26 05 36 00-1317 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	898.43	385.86
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.69	
For 6" Overall Height Instead Of 4-5/8", Add	44.92	
26 05 36 00-1318 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1319 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	212.83	99.47
For 60 Degree Bend, Deduct	-32.12	
For 30 Degree Bend, Deduct	-59.05	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.00	
For 6" Overall Height Instead Of 4-5/8", Add	10.64	
26 05 36 00-1320 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	247.68	119.31
For 60 Degree Bend, Deduct	-36.02	
For 30 Degree Bend, Deduct	-66.66	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.83	
For 6" Overall Height Instead Of 4-5/8", Add	12.38	
26 05 36 00-1321 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	278.78	136.83
For 60 Degree Bend, Deduct	-39.55	
For 30 Degree Bend, Deduct	-73.51	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.48	
For 6" Overall Height Instead Of 4-5/8", Add	13.94	
26 05 36 00-1322 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	347.95	172.95
For 60 Degree Bend, Deduct	-48.54	
For 30 Degree Bend, Deduct	-90.51	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.39	
For 6" Overall Height Instead Of 4-5/8", Add	17.40	
26 05 36 00-1323 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	427.29	211.80
For 60 Degree Bend, Deduct	-59.81	
For 30 Degree Bend, Deduct	-111.46	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.08	
For 6" Overall Height Instead Of 4-5/8", Add	21.36	

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	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1342	90 Degree, 12" Radius Vertical Risers (26 05 36 00-1293)		
26 05 36 00-1343	EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....324.48 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -21.05</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 16.22</i>		136.83
26 05 36 00-1344	EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....362.21 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -23.20</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 18.11</i>		156.26
26 05 36 00-1345	EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....391.37 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -24.74</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 19.57</i>		172.81
26 05 36 00-1346	EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....459.96 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -28.35</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 23.00</i>		211.80
26 05 36 00-1347	EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....517.50 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -31.49</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 25.88</i>		243.15
26 05 36 00-1348	EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....573.56 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -34.55</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 28.68</i>		273.66
26 05 36 00-1349	EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....641.62 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -38.13</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 32.08</i>		312.37
26 05 36 00-1350	90 Degree, 24" Radius Vertical Risers (26 05 36 00-1293)		
26 05 36 00-1351	EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....342.20 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -22.33</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 17.11</i>		142.71
26 05 36 00-1352	EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....382.36 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -24.55</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 19.12</i>		164.19
26 05 36 00-1353	EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....415.39 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -26.34</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 20.77</i>		182.39
26 05 36 00-1354	EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....495.03 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -30.63</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 24.75</i>		226.58
26 05 36 00-1355	EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....562.47 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -34.35</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 28.12</i>		262.84
26 05 36 00-1356	EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....628.68 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -38.01</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 31.43</i>		298.28
26 05 36 00-1357	EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....716.13 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -42.82</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 35.81</i>		345.49
26 05 36 00-1358	90 Degree, 36" Radius Vertical Risers (26 05 36 00-1293)		
26 05 36 00-1359	EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....409.90 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -28.56</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 20.50</i>		149.14
26 05 36 00-1360	EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....452.73 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -30.88</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 22.64</i>		172.81
26 05 36 00-1361	EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....497.42 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -33.64</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 24.87</i>		193.20
26 05 36 00-1362	EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....587.63 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -38.50</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 29.38</i>		243.15
26 05 36 00-1363	EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....665.10 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -42.72</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 33.26</i>		285.42
26 05 36 00-1364	EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....750.68 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -47.70</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 37.53</i>		328.38
26 05 36 00-1365	EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....855.12 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -53.36</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 42.76</i>		385.86
26 05 36 00-1366	12" Radius Horizontal Tees (26 05 36 00-1293)		
26 05 36 00-1367	EA 6" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....544.94 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -32.59</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 27.25</i>		262.84
26 05 36 00-1368	EA 9" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....589.71 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -35.18</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 29.49</i>		285.42
26 05 36 00-1369	EA 12" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray612.90 <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct -36.43</i> <i>For 6" Overall Height Instead Of 4-5/8", Add 30.65</i>		298.28



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1370 EA 18" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	685.81	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.22	
For 6" Overall Height Instead Of 4-5/8", Add	34.29	
26 05 36 00-1371 EA 24" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	760.11	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.63	
For 6" Overall Height Instead Of 4-5/8", Add	38.01	
26 05 36 00-1372 EA 30" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	821.27	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.92	
For 6" Overall Height Instead Of 4-5/8", Add	41.06	
26 05 36 00-1373 EA 36" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	941.50	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.68	
For 6" Overall Height Instead Of 4-5/8", Add	47.08	
26 05 36 00-1374 24" Radius Horizontal Tees (26 05 36 00-1293)		
26 05 36 00-1375 EA 6" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	658.09	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.02	
For 6" Overall Height Instead Of 4-5/8", Add	32.90	
26 05 36 00-1376 EA 9" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	714.30	312.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.36	
For 6" Overall Height Instead Of 4-5/8", Add	35.72	
26 05 36 00-1377 EA 12" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	745.42	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.18	
For 6" Overall Height Instead Of 4-5/8", Add	37.27	
26 05 36 00-1378 EA 18" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	823.23	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.94	
For 6" Overall Height Instead Of 4-5/8", Add	41.16	
26 05 36 00-1379 EA 24" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	919.07	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.70	
For 6" Overall Height Instead Of 4-5/8", Add	45.95	
26 05 36 00-1380 EA 30" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	987.08	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.24	
For 6" Overall Height Instead Of 4-5/8", Add	49.35	
26 05 36 00-1381 EA 36" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,237.01	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.57	
For 6" Overall Height Instead Of 4-5/8", Add	61.85	
26 05 36 00-1382 36" Radius Horizontal Tees (26 05 36 00-1293)		
26 05 36 00-1383 EA 6" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	779.16	312.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.84	
For 6" Overall Height Instead Of 4-5/8", Add	38.96	
26 05 36 00-1384 EA 9" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	840.61	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.27	
For 6" Overall Height Instead Of 4-5/8", Add	42.03	
26 05 36 00-1385 EA 12" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	896.86	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.31	
For 6" Overall Height Instead Of 4-5/8", Add	44.84	
26 05 36 00-1386 EA 18" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	989.20	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.71	
For 6" Overall Height Instead Of 4-5/8", Add	49.46	
26 05 36 00-1387 EA 24" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,117.60	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.71	
For 6" Overall Height Instead Of 4-5/8", Add	55.88	
26 05 36 00-1388 EA 30" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,268.56	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.73	
For 6" Overall Height Instead Of 4-5/8", Add	63.43	
26 05 36 00-1389 EA 36" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,467.75	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-97.06	
For 6" Overall Height Instead Of 4-5/8", Add	73.39	
26 05 36 00-1390 12" Radius Vertical Tees (26 05 36 00-1293)		
26 05 36 00-1391 EA 6" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	645.48	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.28	
For 6" Overall Height Instead Of 4-5/8", Add	32.27	
26 05 36 00-1392 EA 9" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	668.46	252.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.78	
For 6" Overall Height Instead Of 4-5/8", Add	33.42	
26 05 36 00-1393 EA 12" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	686.95	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.80	
For 6" Overall Height Instead Of 4-5/8", Add	34.35	
26 05 36 00-1394 EA 18" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	729.97	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.21	
For 6" Overall Height Instead Of 4-5/8", Add	36.50	
26 05 36 00-1395 EA 24" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	772.45	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.39	
For 6" Overall Height Instead Of 4-5/8", Add	38.62	
26 05 36 00-1396 EA 30" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	827.83	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.42	
For 6" Overall Height Instead Of 4-5/8", Add	41.39	
26 05 36 00-1397 EA 36" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	896.86	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.31	
For 6" Overall Height Instead Of 4-5/8", Add	44.84	

26	Electrical
26 05	Common Work Results for Electrical
26 05 36	Cable Trays for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-1398	24" Radius Vertical Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1399	EA 6" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	844.74 -62.57 42.24	262.84
26 05 36 00-1400	EA 9" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	868.10 -64.01 43.41	273.66
26 05 36 00-1401	EA 12" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	893.02 -65.51 44.65	285.42
26 05 36 00-1402	EA 18" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	950.98 -69.03 47.55	312.92
26 05 36 00-1403	EA 24" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	987.37 -71.37 49.37	328.38
26 05 36 00-1404	EA 30" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,058.16 -75.44 52.91	364.50
26 05 36 00-1405	EA 36" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,175.04 -83.30 58.75	410.48
26 05 36 00-1406	36" Radius Vertical Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1407	EA 6" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,249.54 -101.17 62.48	285.42
26 05 36 00-1408	EA 9" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,281.02 -103.24 64.05	298.28
26 05 36 00-1409	EA 12" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,315.32 -105.46 65.77	312.92
26 05 36 00-1410	EA 18" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,379.81 -109.19 68.99	345.49
26 05 36 00-1411	EA 24" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,421.57 -111.78 71.08	364.50
26 05 36 00-1412	EA 30" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,528.27 -118.62 76.41	410.48
26 05 36 00-1413	EA 36" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,635.15 -124.47 81.76	468.63
26 05 36 00-1414	12" Radius Horizontal Crosses <small>(26 05 36 00-1293)</small>		
26 05 36 00-1415	EA 6" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	696.33 -42.27 34.82	328.38
26 05 36 00-1416	EA 9" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	740.67 -45.27 37.03	345.49
26 05 36 00-1417	EA 12" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	774.14 -47.04 38.71	364.50
26 05 36 00-1418	EA 18" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	845.81 -52.37 42.29	386.54
26 05 36 00-1419	EA 24" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	937.99 -57.33 46.90	437.58
26 05 36 00-1420	EA 30" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,026.43 -63.59 51.32	468.63
26 05 36 00-1421	EA 36" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,149.34 -72.81 57.47	505.58
26 05 36 00-1422	24" Radius Horizontal Crosses <small>(26 05 36 00-1293)</small>		
26 05 36 00-1423	EA 6" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	893.36 -58.96 44.67	364.50
26 05 36 00-1424	EA 9" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	938.73 -61.66 46.94	386.54
26 05 36 00-1425	EA 12" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	987.45 -64.54 49.37	410.48



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1426	EA		18" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,048.45 -68.38 52.42	437.58
26 05 36 00-1427	EA		24" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,189.67 -76.84 59.48	505.58
26 05 36 00-1428	EA		30" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,283.86 -82.78 64.19	547.31
26 05 36 00-1429	EA		36" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,413.40 -91.62 70.67	596.57
26 05 36 00-1430			36" Radius Horizontal Crosses (26 05 36 00-1293)		
26 05 36 00-1431	EA		6" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,020.76 -67.87 51.04	410.48
26 05 36 00-1432	EA		9" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,080.01 -71.53 54.00	437.58
26 05 36 00-1433	EA		12" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,152.66 -76.22 57.63	468.63
26 05 36 00-1434	EA		18" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,238.76 -81.75 61.94	505.58
26 05 36 00-1435	EA		24" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,485.28 -98.81 74.26	596.57
26 05 36 00-1436	EA		30" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,636.37 -108.99 81.82	655.67
26 05 36 00-1437	EA		36" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,822.18 -121.35 91.11	730.38
26 05 36 00-1438			12" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1439	EA		6" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	696.33 -42.27 34.82	328.38
26 05 36 00-1440	EA		9" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	740.87 -45.28 37.04	345.63
26 05 36 00-1441	EA		12" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	774.03 -47.03 38.70	364.50
26 05 36 00-1442	EA		18" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	846.06 -52.38 42.30	386.68
26 05 36 00-1443	EA		24" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	937.99 -57.33 46.90	437.58
26 05 36 00-1444	EA		30" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,026.78 -63.61 51.34	468.77
26 05 36 00-1445	EA		36" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,148.31 -72.76 57.42	504.89
26 05 36 00-1446			24" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1447	EA		6" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	893.36 -58.96 44.67	364.50
26 05 36 00-1448	EA		9" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	938.73 -61.66 46.94	386.54
26 05 36 00-1449	EA		12" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	987.45 -64.54 49.37	410.48
26 05 36 00-1450	EA		18" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,048.45 -68.38 52.42	437.58
26 05 36 00-1451	EA		24" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,189.67 -76.84 59.48	505.58
26 05 36 00-1452	EA		30" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,283.86 -82.78 64.19	547.31
26 05 36 00-1453	EA		36" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,413.40 -91.62 70.67	596.57

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 36 00-1454	36" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1455	EA 6" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,172.24	410.48
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.02	
	For 6" Overall Height Instead Of 4-5/8", Add	58.61	
26 05 36 00-1456	EA 9" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,237.80	437.58
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-87.31	
	For 6" Overall Height Instead Of 4-5/8", Add	61.89	
26 05 36 00-1457	EA 12" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,319.92	468.63
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.94	
	For 6" Overall Height Instead Of 4-5/8", Add	66.00	
26 05 36 00-1458	EA 18" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,417.06	505.58
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-99.58	
	For 6" Overall Height Instead Of 4-5/8", Add	70.85	
26 05 36 00-1459	EA 24" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,706.19	596.57
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-120.90	
	For 6" Overall Height Instead Of 4-5/8", Add	85.31	
26 05 36 00-1460	EA 30" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,880.95	655.67
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-133.45	
	For 6" Overall Height Instead Of 4-5/8", Add	94.05	
26 05 36 00-1461	EA 36" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	2,094.37	730.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-148.57	
	For 6" Overall Height Instead Of 4-5/8", Add	104.72	
26 05 36 00-1462	Dropout Or End Plates And Reducers (26 05 36 00-0744)		
26 05 36 00-1463	Straight Reducers (26 05 36 00-1462)		
26 05 36 00-1464	EA 9"-6" Reducer, Aluminum Cable Tray	256.00	100.98
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.18	
	For 6" Overall Height Instead Of 4-5/8", Add	12.80	
26 05 36 00-1465	EA 12"-9" Reducer, Aluminum Cable Tray	271.85	109.32
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.07	
	For 6" Overall Height Instead Of 4-5/8", Add	13.59	
26 05 36 00-1466	EA 18"-12" Reducer, Aluminum Cable Tray	301.93	126.16
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.67	
	For 6" Overall Height Instead Of 4-5/8", Add	15.10	
26 05 36 00-1467	EA 24"-18" Reducer, Aluminum Cable Tray	336.80	146.00
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.52	
	For 6" Overall Height Instead Of 4-5/8", Add	16.84	
26 05 36 00-1468	EA 30"-24" Reducer, Aluminum Cable Tray	369.11	164.19
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.23	
	For 6" Overall Height Instead Of 4-5/8", Add	18.46	
26 05 36 00-1469	EA 36"-30" Reducer, Aluminum Cable Tray	413.97	187.59
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.76	
	For 6" Overall Height Instead Of 4-5/8", Add	20.70	
26 05 36 00-1470	Reducers (26 05 36 00-1462)		
26 05 36 00-1471	EA 18"-6" Reducer, Aluminum Cable Tray	302.06	126.29
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.68	
	For 6" Overall Height Instead Of 4-5/8", Add	15.10	
26 05 36 00-1472	EA 24"-12" Reducer, Aluminum Cable Tray	337.15	146.13
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.53	
	For 6" Overall Height Instead Of 4-5/8", Add	16.86	
26 05 36 00-1473	EA 30"-12" Reducer, Aluminum Cable Tray	368.89	164.05
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.22	
	For 6" Overall Height Instead Of 4-5/8", Add	18.44	
26 05 36 00-1474	EA 30"-18" Reducer, Aluminum Cable Tray	370.62	163.92
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.40	
	For 6" Overall Height Instead Of 4-5/8", Add	18.53	
26 05 36 00-1475	EA 36"-12" Reducer, Aluminum Cable Tray	412.02	187.59
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.57	
	For 6" Overall Height Instead Of 4-5/8", Add	20.60	
26 05 36 00-1476	EA 36"-18" Reducer, Aluminum Cable Tray	422.19	192.52
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.17	
	For 6" Overall Height Instead Of 4-5/8", Add	21.11	
26 05 36 00-1477	EA 36"-24" Reducer, Aluminum Cable Tray	436.33	198.67
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.08	
	For 6" Overall Height Instead Of 4-5/8", Add	21.82	
26 05 36 00-1478	Dropout Or End Plate (26 05 36 00-1462)		
26 05 36 00-1479	EA 6" Dropout Or End Plate, Aluminum Cable Tray	80.00	41.05
26 05 36 00-1480	EA 9" Dropout Or End Plate, Aluminum Cable Tray	90.50	46.93
26 05 36 00-1481	EA 12" Dropout Or End Plate, Aluminum Cable Tray	97.58	50.49
26 05 36 00-1482	EA 18" Dropout Or End Plate, Aluminum Cable Tray	117.48	59.66
26 05 36 00-1483	EA 24" Dropout Or End Plate, Aluminum Cable Tray	130.60	65.68
26 05 36 00-1484	EA 30" Dropout Or End Plate, Aluminum Cable Tray	146.78	72.93
26 05 36 00-1485	EA 36" Dropout Or End Plate, Aluminum Cable Tray	164.78	82.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1486 Solid Bottom Cable Tray <small>(26 05 36 00-0001)</small>		
Note: 3-5/8" Height.		
26 05 36 00-1487 Solid Bottom Galvanized Steel Straight Tray Sections <small>(26 05 36 00-1486)</small>		
26 05 36 00-1488 LF 6" Solid Bottom Steel Cable Tray, Straight Section	32.11	10.67
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	3.03	
26 05 36 00-1489 LF 12" Solid Bottom Steel Cable Tray, Straight Section	39.92	13.14
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	3.80	
26 05 36 00-1490 LF 18" Solid Bottom Steel Cable Tray, Straight Section	53.66	18.89
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	4.90	
26 05 36 00-1491 LF 24" Solid Bottom Steel Cable Tray, Straight Section	62.02	21.62
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	5.69	
26 05 36 00-1492 LF 30" Solid Bottom Steel Cable Tray, Straight Section	74.40	26.13
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	6.80	
26 05 36 00-1493 LF 36" Solid Bottom Steel Cable Tray, Straight Section	94.00	29.97
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	9.11	
26 05 36 00-1494 Solid Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-1486)</small>		
26 05 36 00-1495 90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1496 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	335.76	136.97
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	27.54	
26 05 36 00-1497 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	441.66	192.66
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	34.13	
26 05 36 00-1498 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	542.97	243.15
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	40.92	
26 05 36 00-1499 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	665.72	298.69
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	50.07	
26 05 36 00-1500 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	776.91	346.17
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	58.85	
26 05 36 00-1501 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	872.22	386.54
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	66.41	
26 05 36 00-1502 90 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1503 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	390.46	142.57
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	34.80	
26 05 36 00-1504 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	520.97	205.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	43.90	
26 05 36 00-1505 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	644.51	262.84
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	52.88	
26 05 36 00-1506 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	788.25	328.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	63.51	
26 05 36 00-1507 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	924.80	385.86
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	74.42	
26 05 36 00-1508 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	1,045.60	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	83.90	
26 05 36 00-1509 90 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1510 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray	471.97	149.00
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	45.97	
26 05 36 00-1511 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray	617.16	219.33
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	56.03	
26 05 36 00-1512 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray	784.04	285.83
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	69.97	
26 05 36 00-1513 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray	941.03	364.50
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	80.40	
26 05 36 00-1514 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray	1,129.50	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	96.49	
26 05 36 00-1515 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray	1,290.07	504.21
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	109.46	
26 05 36 00-1516 45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1517 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	309.02	136.97
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	23.52	
26 05 36 00-1518 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	411.54	192.66
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	29.61	
26 05 36 00-1519 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	508.07	242.87
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	35.73	
26 05 36 00-1520 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	623.04	298.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	43.74	
26 05 36 00-1521 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	726.89	346.17
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	51.35	
26 05 36 00-1522 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray	814.01	385.86
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	57.80	
26 05 36 00-1523 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1524 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray	352.43	142.71
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>		
	29.08	

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1525 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....	475.99	205.24
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>37.19</i>	
26 05 36 00-1526 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....	593.44	263.12
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>45.16</i>	
26 05 36 00-1527 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....	728.02	328.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>54.47</i>	
26 05 36 00-1528 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....	855.55	386.54
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>63.91</i>	
26 05 36 00-1529 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....	966.54	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>72.05</i>	
 26 05 36 00-1530 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1531 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....	416.40	149.14
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>37.60</i>	
26 05 36 00-1532 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....	520.23	198.81
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>44.89</i>	
26 05 36 00-1533 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....	707.13	285.83
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>58.43</i>	
26 05 36 00-1534 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....	858.74	365.20
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>67.95</i>	
26 05 36 00-1535 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,029.46	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>81.48</i>	
26 05 36 00-1536 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,179.74	505.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>92.71</i>	
 26 05 36 00-1537 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1538 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray.....	358.82	136.56
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>31.06</i>	
26 05 36 00-1539 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray.....	458.87	192.66
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>36.71</i>	
26 05 36 00-1540 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray.....	545.12	243.15
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>41.24</i>	
26 05 36 00-1541 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray.....	661.42	298.69
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>49.42</i>	
26 05 36 00-1542 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray.....	751.09	346.17
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>54.98</i>	
26 05 36 00-1543 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray.....	823.69	385.86
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>59.26</i>	
 26 05 36 00-1544 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1545 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray.....	422.73	142.57
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>39.64</i>	
26 05 36 00-1546 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray.....	544.63	205.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>47.45</i>	
26 05 36 00-1547 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray.....	657.42	262.84
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>54.81</i>	
26 05 36 00-1548 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray.....	786.10	328.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>63.18</i>	
26 05 36 00-1549 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray.....	894.68	385.86
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>69.90</i>	
26 05 36 00-1550 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,004.72	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>77.77</i>	
 26 05 36 00-1551 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1552 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray.....	499.94	149.00
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>50.17</i>	
26 05 36 00-1553 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray.....	613.92	199.22
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>58.88</i>	
26 05 36 00-1554 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray.....	784.04	285.83
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>69.97</i>	
26 05 36 00-1555 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray.....	945.33	364.50
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>81.04</i>	
26 05 36 00-1556 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,097.23	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>91.65</i>	
26 05 36 00-1557 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,240.60	504.21
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>102.04</i>	
 26 05 36 00-1558 12" Radius Horizontal Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1559 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray.....	588.58	262.84
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>44.49</i>	
26 05 36 00-1560 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray.....	709.93	327.84
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>51.85</i>	
26 05 36 00-1561 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray.....	837.80	386.54
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>61.25</i>	
26 05 36 00-1562 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,000.04	469.59
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>71.73</i>	
26 05 36 00-1563 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,089.93	505.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	<i>79.24</i>	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-1564 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,278.35 92.31	596.57
26 05 36 00-1565 24" Radius Horizontal Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1566 EA 6" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	710.24 58.96	285.42
26 05 36 00-1567 EA 12" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	880.79 71.36	364.50
26 05 36 00-1568 EA 18" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,032.69 81.97	437.58
26 05 36 00-1569 EA 24" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,323.07 107.24	547.31
26 05 36 00-1570 EA 30" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,441.84 116.84	596.57
26 05 36 00-1571 EA 36" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,701.35 133.47	730.38
26 05 36 00-1572 36" Radius Horizontal Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1573 EA 6" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	889.31 81.25	312.92
26 05 36 00-1574 EA 12" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,095.03 95.84	410.48
26 05 36 00-1575 EA 18" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,289.99 109.25	505.58
26 05 36 00-1576 EA 24" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,568.77 135.88	596.57
26 05 36 00-1577 EA 30" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,720.24 148.40	657.87
26 05 36 00-1578 EA 36" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,013.65 165.22	820.96
26 05 36 00-1579 12" Radius Vertical Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1580 EA 6" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	685.39 59.01	262.84
26 05 36 00-1581 EA 12" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	805.46 66.09	328.38
26 05 36 00-1582 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	870.03 69.75	364.50
26 05 36 00-1583 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	931.25 75.39	385.86
26 05 36 00-1584 EA 30" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,036.99 82.61	437.58
26 05 36 00-1585 EA 36" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,160.92 89.89	505.58
26 05 36 00-1586 24" Radius Vertical Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1587 EA 6" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	841.47 78.65	285.42
26 05 36 00-1588 EA 12" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	990.51 87.82	364.50
26 05 36 00-1589 EA 18" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,086.43 94.55	410.48
26 05 36 00-1590 EA 24" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,151.01 99.72	437.58
26 05 36 00-1591 EA 30" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,305.05 111.50	505.58
26 05 36 00-1592 EA 36" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,478.41 122.32	596.57
26 05 36 00-1593 36" Radius Vertical Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1594 EA 6" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,090.74 111.55	312.37
26 05 36 00-1595 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,264.98 121.33	410.48
26 05 36 00-1596 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,404.85 132.63	468.63
26 05 36 00-1597 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,487.91 138.93	505.58
26 05 36 00-1598 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,747.32 162.66	596.57
26 05 36 00-1599 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,888.84 174.04	655.67
26 05 36 00-1600 12" Radius Horizontal Crosses <small>(26 05 36 00-1494)</small>		
26 05 36 00-1601 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	728.02 54.47	328.38

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1602	EA		12" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	839.96 61.58	386.54
26 05 36 00-1603	EA		18" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,011.17 73.58	468.63
26 05 36 00-1604	EA		24" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,170.33 84.33	547.31
26 05 36 00-1605	EA		30" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,381.14 97.88	655.67
26 05 36 00-1606	EA		36" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,533.56 108.30	730.38
26 05 36 00-1607			24" Radius Horizontal Crosses <small>(26 05 36 00-1494)</small>		
26 05 36 00-1608	EA		6" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	937.80 79.80	365.20
26 05 36 00-1609	EA		12" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,097.23 91.65	437.58
26 05 36 00-1610	EA		18" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,323.07 107.24	547.31
26 05 36 00-1611	EA		24" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,623.43 133.88	657.87
26 05 36 00-1612	EA		30" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,787.41 146.38	730.38
26 05 36 00-1613	EA		36" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,970.62 158.77	820.96
26 05 36 00-1614			36" Radius Horizontal Crosses <small>(26 05 36 00-1494)</small>		
26 05 36 00-1615	EA		6" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,221.96 114.88	410.48
26 05 36 00-1616	EA		12" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,434.13 130.87	505.58
26 05 36 00-1617	EA		18" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,741.75 151.63	657.87
26 05 36 00-1618	EA		24" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,981.02 175.42	730.38
26 05 36 00-1619	EA		30" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,196.51 192.65	820.96
26 05 36 00-1620	EA		36" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,443.97 210.40	937.13
26 05 36 00-1621			Straight Reducers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1622	EA		12"-6" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	287.85 24.93	109.46
26 05 36 00-1623	EA		18"-12" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	313.75 26.44	123.69
26 05 36 00-1624	EA		24"-18" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	349.42 28.66	142.57
26 05 36 00-1625	EA		30"-24" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	394.13 31.75	164.19
26 05 36 00-1626	EA		36"-30" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	428.29 33.89	182.12
26 05 36 00-1627			Reducers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1628	EA		18"-6" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	313.87 26.45	123.83
26 05 36 00-1629	EA		24"-12" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	347.76 28.36	142.85
26 05 36 00-1630	EA		30"-12" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	389.61 31.10	164.05
26 05 36 00-1631	EA		30"-18" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	391.54 31.41	163.92
26 05 36 00-1632	EA		36"-12" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	426.14 33.57	182.12
26 05 36 00-1633	EA		36"-18" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	428.29 33.89	182.12
26 05 36 00-1634	EA		36"-24" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	430.98 34.24	182.39
26 05 36 00-1635			Dropout Or End Plate <small>(26 05 36 00-1494)</small>		
26 05 36 00-1636	EA		6" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	90.35	41.05
26 05 36 00-1637	EA		12" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	110.79	50.08
26 05 36 00-1638	EA		18" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	128.32	59.39
26 05 36 00-1639	EA		24" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	143.99	65.68
26 05 36 00-1640	EA		30" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	160.24	72.93
26 05 36 00-1641	EA		36" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	178.24	82.10
26 05 36 00-1642			Solid Bottom Aluminum Straight Cable Tray Sections <small>(26 05 36 00-1486)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1682 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	610.58 51.06	243.15
26 05 36 00-1683 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	711.41 59.07	285.83
26 05 36 00-1684 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	817.43 67.88	328.38
26 05 36 00-1685 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1649)</small>		
26 05 36 00-1686 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	430.93 39.78	149.14
26 05 36 00-1687 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	540.59 48.91	193.06
26 05 36 00-1688 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	624.77 57.17	219.33
26 05 36 00-1689 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	716.77 63.66	263.12
26 05 36 00-1690 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	836.13 73.28	312.92
26 05 36 00-1691 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	977.37 85.74	365.20
26 05 36 00-1692 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1693 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	359.19 31.12	136.56
26 05 36 00-1694 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	424.24 34.89	172.40
26 05 36 00-1695 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	475.90 39.21	193.06
26 05 36 00-1696 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	540.73 43.31	226.72
26 05 36 00-1697 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	611.70 47.90	263.12
26 05 36 00-1698 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	674.82 51.58	297.87
26 05 36 00-1699 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1700 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	424.73 39.94	142.57
26 05 36 00-1701 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	506.92 45.61	182.67
26 05 36 00-1702 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	560.24 49.83	205.24
26 05 36 00-1703 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	642.51 55.85	243.15
26 05 36 00-1704 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	726.16 61.42	285.01
26 05 36 00-1705 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	824.36 68.92	328.38
26 05 36 00-1706 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1707 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	494.12 49.29	149.00
26 05 36 00-1708 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	599.45 57.68	193.47
26 05 36 00-1709 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	666.75 63.47	219.33
26 05 36 00-1710 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	750.84 68.88	262.43
26 05 36 00-1711 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	867.75 78.02	312.92
26 05 36 00-1712 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	966.66 84.35	363.96
26 05 36 00-1713 12" Radius Horizontal Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1714 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	609.41 47.61	262.84
26 05 36 00-1715 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	704.25 55.99	297.87
26 05 36 00-1716 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	781.07 62.43	328.38
26 05 36 00-1717 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	870.12 69.65	365.20
26 05 36 00-1718 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,030.65 81.66	437.58
26 05 36 00-1719 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,258.49 97.56	547.31



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1720		24" Radius Horizontal Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1721	EA	6" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	757.99 66.12	285.42
26 05 36 00-1722	EA	12" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	865.91 75.16	328.38
26 05 36 00-1723	EA	18" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	967.74 84.40	364.50
26 05 36 00-1724	EA	24" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,170.90 102.70	437.58
26 05 36 00-1725	EA	30" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,414.33 120.93	547.31
26 05 36 00-1726	EA	36" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,560.03 134.28	598.34
26 05 36 00-1727		36" Radius Horizontal Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1728	EA	6" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	980.30 94.90	312.92
26 05 36 00-1729	EA	12" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,109.73 105.70	364.50
26 05 36 00-1730	EA	18" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,264.20 121.22	410.48
26 05 36 00-1731	EA	24" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,515.76 143.32	504.21
26 05 36 00-1732	EA	30" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,840.93 166.50	657.87
26 05 36 00-1733	EA	36" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,048.46 185.54	730.38
26 05 36 00-1734		12" Radius Vertical Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1735	EA	6" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	682.14 58.52	262.84
26 05 36 00-1736	EA	12" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	746.53 62.26	298.28
26 05 36 00-1737	EA	18" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	780.38 64.99	312.37
26 05 36 00-1738	EA	24" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	823.48 68.88	327.84
26 05 36 00-1739	EA	30" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	908.87 75.57	364.50
26 05 36 00-1740	EA	36" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,047.96 84.26	437.58
26 05 36 00-1741		24" Radius Vertical Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1742	EA	6" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	835.91 77.81	285.42
26 05 36 00-1743	EA	12" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	928.25 84.51	328.38
26 05 36 00-1744	EA	18" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	982.78 69.83	345.49
26 05 36 00-1745	EA	24" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,049.12 96.61	364.50
26 05 36 00-1746	EA	30" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,168.97 106.93	410.48
26 05 36 00-1747	EA	36" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,351.26 118.64	504.21
26 05 36 00-1748		36" Radius Vertical Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1749	EA	6" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,083.40 110.45	312.37
26 05 36 00-1750	EA	12" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,188.84 118.31	360.13
26 05 36 00-1751	EA	18" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,266.33 125.65	385.86
26 05 36 00-1752	EA	24" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,324.81 130.31	410.48
26 05 36 00-1753	EA	30" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,473.59 142.94	468.63
26 05 36 00-1754	EA	36" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,070.57 61.15	596.57
26 05 36 00-1755		12" Radius Horizontal Crosses <small>(26 05 36 00-1649)</small>		
26 05 36 00-1756	EA	6" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	715.36 57.59	298.28
26 05 36 00-1757	EA	12" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	793.19 64.25	328.38
26 05 36 00-1758	EA	18" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	923.49 74.23	385.86

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 26 05 36 00-1759, 26 05 36 00-1762, 26 05 36 00-1769, 26 05 36 00-1776, 26 05 36 00-1782, 26 05 36 00-1790, 26 05 36 00-1797, 26 05 36 00-1798, 26 05 36 00-1799.



Electrical	26
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26

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-1800	LF 12" Vented Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	44.14 -3.05	16.42
26 05 36 00-1801	LF 18" Vented Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	51.74 -3.60	18.89
26 05 36 00-1802	LF 24" Vented Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	59.36 -4.13	21.62
26 05 36 00-1803	LF 30" Vented Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	76.98 -5.52	26.13
26 05 36 00-1804	LF 36" Vented Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	92.15 -6.47	32.83
26 05 36 00-1805 Vented Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1797)			
26 05 36 00-1806 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)			
26 05 36 00-1807	EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	373.11 -22.90	172.95
26 05 36 00-1808	EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	490.86 -29.58	233.98
26 05 36 00-1809	EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	613.09 -36.45	298.28
26 05 36 00-1810	EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	751.55 -44.72	365.20
26 05 36 00-1811	EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	847.45 -50.47	411.31
26 05 36 00-1812	EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	970.11 -57.87	469.59
26 05 36 00-1813 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)			
26 05 36 00-1814	EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	429.21 -27.73	182.26
26 05 36 00-1815	EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	565.74 -35.51	252.71
26 05 36 00-1816	EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	721.96 -44.83	328.38
26 05 36 00-1817	EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	881.02 -53.90	410.48
26 05 36 00-1818	EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	933.79 -58.04	424.03
26 05 36 00-1819	EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,175.74 -71.97	547.31
26 05 36 00-1820 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)			
26 05 36 00-1821	EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	508.54 -34.79	192.66
26 05 36 00-1822	EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	671.03 -44.27	274.07
26 05 36 00-1823	EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	865.87 -56.15	365.20
26 05 36 00-1824	EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,052.48 -66.20	468.63
26 05 36 00-1825	EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,217.02 -76.09	547.31
26 05 36 00-1826	EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,432.64 -88.62	655.67
26 05 36 00-1827 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)			
26 05 36 00-1828	EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	354.68 -21.05	173.09
26 05 36 00-1829	EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	468.68 -27.37	233.98
26 05 36 00-1830	EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	586.87 -33.86	297.87
26 05 36 00-1831	EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	719.04 -41.53	364.50
26 05 36 00-1832	EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	811.82 -46.91	411.31
26 05 36 00-1833	EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	927.11 -53.66	468.63
26 05 36 00-1834 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)			
26 05 36 00-1835	EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	401.90 -24.99	182.39
26 05 36 00-1836	EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	533.96 -32.33	252.71
26 05 36 00-1837	EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	684.41 -41.03	328.93
26 05 36 00-1838	EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	837.70 -49.56	410.48

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1839 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	959.85	469.59
For 4-5/8" Overall Height Instead Of 6", Deduct	-56.85	
26 05 36 00-1840 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,117.76	547.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-66.17	
26 05 36 00-1841 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1842 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	467.92	193.06
For 4-5/8" Overall Height Instead Of 6", Deduct	-30.70	
26 05 36 00-1843 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	622.67	273.25
For 4-5/8" Overall Height Instead Of 6", Deduct	-39.49	
26 05 36 00-1844 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	809.28	365.20
For 4-5/8" Overall Height Instead Of 6", Deduct	-50.50	
26 05 36 00-1845 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	994.53	469.59
For 4-5/8" Overall Height Instead Of 6", Deduct	-60.32	
26 05 36 00-1846 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,149.96	547.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-69.39	
26 05 36 00-1847 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,361.39	657.87
For 4-5/8" Overall Height Instead Of 6", Deduct	-81.32	
26 05 36 00-1848 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1849 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	397.00	172.40
For 4-5/8" Overall Height Instead Of 6", Deduct	-25.33	
26 05 36 00-1850 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	512.29	233.98
For 4-5/8" Overall Height Instead Of 6", Deduct	-31.73	
26 05 36 00-1851 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	621.03	298.28
For 4-5/8" Overall Height Instead Of 6", Deduct	-37.24	
26 05 36 00-1852 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	749.97	365.20
For 4-5/8" Overall Height Instead Of 6", Deduct	-44.56	
26 05 36 00-1853 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	829.98	411.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-48.72	
26 05 36 00-1854 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	933.40	468.63
For 4-5/8" Overall Height Instead Of 6", Deduct	-54.29	
26 05 36 00-1855 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1856 EA 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	460.96	182.26
For 4-5/8" Overall Height Instead Of 6", Deduct	-30.91	
26 05 36 00-1857 EA 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	587.97	252.71
For 4-5/8" Overall Height Instead Of 6", Deduct	-37.73	
26 05 36 00-1858 EA 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	731.48	328.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-45.78	
26 05 36 00-1859 EA 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	874.67	410.48
For 4-5/8" Overall Height Instead Of 6", Deduct	-53.26	
26 05 36 00-1860 EA 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	995.32	468.63
For 4-5/8" Overall Height Instead Of 6", Deduct	-60.48	
26 05 36 00-1861 EA 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	1,136.05	547.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-68.00	
26 05 36 00-1862 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1863 EA 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	533.94	192.66
For 4-5/8" Overall Height Instead Of 6", Deduct	-37.33	
26 05 36 00-1864 EA 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	682.15	274.07
For 4-5/8" Overall Height Instead Of 6", Deduct	-45.38	
26 05 36 00-1865 EA 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	859.52	365.20
For 4-5/8" Overall Height Instead Of 6", Deduct	-55.52	
26 05 36 00-1866 EA 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	1,049.30	468.63
For 4-5/8" Overall Height Instead Of 6", Deduct	-65.88	
26 05 36 00-1867 EA 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	1,186.85	547.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-73.08	
26 05 36 00-1868 EA 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	1,397.71	655.67
For 4-5/8" Overall Height Instead Of 6", Deduct	-85.13	
26 05 36 00-1869 12" Radius Horizontal Tees (26 05 36 00-1805)		
26 05 36 00-1870 EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	675.91	328.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-40.23	
26 05 36 00-1871 EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	825.66	409.66
For 4-5/8" Overall Height Instead Of 6", Deduct	-48.43	
26 05 36 00-1872 EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	944.71	469.59
For 4-5/8" Overall Height Instead Of 6", Deduct	-55.33	
26 05 36 00-1873 EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	1,099.53	547.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-64.34	
26 05 36 00-1874 EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	1,208.72	596.57
For 4-5/8" Overall Height Instead Of 6", Deduct	-71.15	
26 05 36 00-1875 EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	1,327.85	655.67
For 4-5/8" Overall Height Instead Of 6", Deduct	-78.14	
26 05 36 00-1876 24" Radius Horizontal Tees (26 05 36 00-1805)		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1916	EA		30" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,432.11 -82.56	727.79
26 05 36 00-1917	EA		36" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,614.37 -93.02	820.96
26 05 36 00-1918			24" Radius Horizontal Crosses (26 05 36 00-1805)		
26 05 36 00-1919	EA		6" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,041.56 -65.02	469.59
26 05 36 00-1920	EA		12" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,183.68 -72.76	547.31
26 05 36 00-1921	EA		18" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,391.36 -84.49	655.67
26 05 36 00-1922	EA		24" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,747.73 -106.36	820.96
26 05 36 00-1923	EA		30" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,981.11 -120.01	937.13
26 05 36 00-1924	EA		36" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,264.06 -135.43	1,091.74
26 05 36 00-1925			36" Radius Horizontal Crosses (26 05 36 00-1805)		
26 05 36 00-1926	EA		6" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,348.80 -89.27	547.31
26 05 36 00-1927	EA		12" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,555.22 -100.70	657.87
26 05 36 00-1928	EA		18" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,836.65 -115.25	820.96
26 05 36 00-1929	EA		24" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,392.88 -147.83	1,097.49
26 05 36 00-1930	EA		30" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,811.95 -171.56	1,315.59
26 05 36 00-1931	EA		36" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,403.38 -203.51	1,641.93
26 05 36 00-1932			Straight Reducers (26 05 36 00-1805)		
26 05 36 00-1933	EA		12"-6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	313.20 -19.67	139.83
26 05 36 00-1934	EA		18"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	343.69 -21.35	156.26
26 05 36 00-1935	EA		24"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	392.43 -24.07	182.12
26 05 36 00-1936	EA		30"-24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	434.16 -26.31	205.24
26 05 36 00-1937	EA		36"-30" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	475.17 -28.68	226.04
26 05 36 00-1938			Reducers (26 05 36 00-1805)		
26 05 36 00-1939	EA		18"-6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	343.69 -21.35	156.26
26 05 36 00-1940	EA		24"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	391.38 -23.94	182.39
26 05 36 00-1941	EA		30"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	432.23 -26.14	204.97
26 05 36 00-1942	EA		30"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	433.48 -26.28	204.83
26 05 36 00-1943	EA		36"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	473.58 -28.52	226.04
26 05 36 00-1944	EA		36"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	475.17 -28.68	226.04
26 05 36 00-1945	EA		36"-24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	477.59 -28.88	226.58
26 05 36 00-1946			Dropout Or End Plate (26 05 36 00-1805)		
26 05 36 00-1947	EA		6" Dropout Or End Plate, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	103.27 -6.52	50.49
26 05 36 00-1948	EA		12" Dropout Or End Plate, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	122.08 -7.57	59.25
26 05 36 00-1949	EA		18" Dropout Or End Plate, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	134.64 -8.62	65.41
26 05 36 00-1950	EA		24" Dropout Or End Plate, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	151.10 -9.67	72.93
26 05 36 00-1951	EA		30" Dropout Or End Plate, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	168.27 -10.72	81.96
26 05 36 00-1952	EA		36" Dropout Or End Plate, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	198.29 -11.77	97.97
26 05 36 00-1953			Vented Bottom Aluminum Cable Tray (26 05 36 00-1797)		
26 05 36 00-1954	LF		6" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	34.20 -2.52	10.67
26 05 36 00-1955	LF		9" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	37.83 -2.81	11.76
26 05 36 00-1956	LF		12" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	42.33 -3.14	13.14



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 36 00-1957	LF	18" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	49.00 -3.68	14.64
26 05 36 00-1958	LF	24" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	55.90 -4.24	16.28
26 05 36 00-1959	LF	30" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	70.01 -5.44	18.75
26 05 36 00-1960	LF	36" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	78.50 -6.02	22.03
26 05 36 00-1961		Vented Bottom Aluminum Cable Tray Fittings (26 05 36 00-1797)		
26 05 36 00-1962		90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1963	EA	6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	454.85 -31.08	172.95
26 05 36 00-1964	EA	9" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	494.14 -33.77	187.73
26 05 36 00-1965	EA	12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	545.54 -36.94	211.39
26 05 36 00-1966	EA	18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	615.14 -41.99	234.25
26 05 36 00-1967	EA	24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	737.31 -49.91	285.83
26 05 36 00-1968	EA	30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	869.47 -59.54	328.93
26 05 36 00-1969	EA	36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	958.94 -65.46	365.20
26 05 36 00-1970		90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1971	EA	6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	545.35 -39.35	182.26
26 05 36 00-1972	EA	12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	660.20 -47.14	226.58
26 05 36 00-1973	EA	18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	747.38 -53.68	252.71
26 05 36 00-1974	EA	24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	892.67 -63.23	312.37
26 05 36 00-1975	EA	30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,031.66 -72.84	363.96
26 05 36 00-1976	EA	36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,143.12 -80.11	410.48
26 05 36 00-1977		90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1978	EA	6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	661.80 -50.12	192.66
26 05 36 00-1979	EA	12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	794.70 -59.18	243.42
26 05 36 00-1980	EA	18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	898.76 -67.04	274.07
26 05 36 00-1981	EA	24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,059.01 -77.11	345.49
26 05 36 00-1982	EA	30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,125.71 -84.67	334.82
26 05 36 00-1983	EA	36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,396.98 -100.65	468.63
26 05 36 00-1984		45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1985	EA	6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	418.43 -27.42	173.09
26 05 36 00-1986	EA	9" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	454.57 -29.79	188.00
26 05 36 00-1987	EA	12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	503.02 -32.69	211.39
26 05 36 00-1988	EA	18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	565.27 -37.03	233.98
26 05 36 00-1989	EA	24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	679.25 -44.14	285.42
26 05 36 00-1990	EA	30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	798.78 -52.47	328.93
26 05 36 00-1991	EA	36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	880.80 -57.70	364.50
26 05 36 00-1992		45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1993	EA	6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	492.48 -34.05	182.39
26 05 36 00-1994	EA	12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	598.02 -40.92	226.58
26 05 36 00-1995	EA	18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	676.16 -46.53	253.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2035 EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,453.36 -95.62	596.57
26 05 36 00-2036 24" Radius Horizontal Tees (26 05 36 00-1961)		
26 05 36 00-2037 EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	994.09 -69.03	364.50
26 05 36 00-2038 EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,122.43 -78.10	409.66
26 05 36 00-2039 EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,264.12 -87.36	468.63
26 05 36 00-2040 EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,513.67 -105.88	545.80
26 05 36 00-2041 EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,748.61 -120.04	657.87
26 05 36 00-2042 EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,978.27 -136.96	730.38
26 05 36 00-2043 36" Radius Horizontal Tees (26 05 36 00-1961)		
26 05 36 00-2044 EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,304.97 -96.29	410.48
26 05 36 00-2045 EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,493.61 -110.31	468.63
26 05 36 00-2046 EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,571.10 -119.02	457.14
26 05 36 00-2047 EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,034.99 -148.86	655.67
26 05 36 00-2048 EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,376.28 -168.94	824.24
26 05 36 00-2049 EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,721.49 -194.05	937.13
26 05 36 00-2050 12" Radius Vertical Tees (26 05 36 00-1961)		
26 05 36 00-2051 EA 6" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	895.17 -62.15	328.38
26 05 36 00-2052 EA 9" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	926.15 -63.82	345.49
26 05 36 00-2053 EA 12" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	984.43 -68.06	364.50
26 05 36 00-2054 EA 18" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,023.45 -70.14	386.54
26 05 36 00-2055 EA 24" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,071.70 -73.03	409.66
26 05 36 00-2056 EA 30" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,135.20 -77.05	437.58
26 05 36 00-2057 EA 36" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,263.21 -84.30	504.21
26 05 36 00-2058 24" Radius Vertical Tees (26 05 36 00-1961)		
26 05 36 00-2059 EA 6" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,100.38 -79.66	364.50
26 05 36 00-2060 EA 12" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,214.22 -87.28	409.66
26 05 36 00-2061 EA 18" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,297.05 -93.24	437.58
26 05 36 00-2062 EA 24" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,384.90 -99.44	468.63
26 05 36 00-2063 EA 30" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,492.70 -107.25	504.21
26 05 36 00-2064 EA 36" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,661.60 -116.30	598.34
26 05 36 00-2065 36" Radius Vertical Tees (26 05 36 00-1961)		
26 05 36 00-2066 EA 6" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,443.72 -110.23	409.66
26 05 36 00-2067 EA 12" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,590.24 -119.98	468.63
26 05 36 00-2068 EA 18" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,673.88 -125.37	504.21
26 05 36 00-2069 EA 24" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,808.43 -135.11	548.81
26 05 36 00-2070 EA 30" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,963.56 -146.49	598.34
26 05 36 00-2071 EA 36" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,227.60 -162.11	727.79
26 05 36 00-2072 12" Radius Horizontal Crosses (26 05 36 00-1961)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2112	EA	36"-24" Reducer, Vented Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	540.16 -36.91	205.24
26 05 36 00-2113	Dropout Or End Plate <small>(26 05 36 00-1961)</small>			
26 05 36 00-2114	EA	6" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	115.79	50.49
26 05 36 00-2115	EA	9" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	126.35	55.14
26 05 36 00-2116	EA	12" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	136.10	59.25
26 05 36 00-2117	EA	18" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	154.05	65.41
26 05 36 00-2118	EA	24" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	176.00	72.93
26 05 36 00-2119	EA	30" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	194.65	81.96
26 05 36 00-2120	EA	36" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	222.84	93.86
26 05 36 00-2121	Covers And Dividers <small>(26 05 36 00-0001)</small>			
26 05 36 00-2122	Galvanized Steel Covers <small>(26 05 36 00-2121)</small>			
26 05 36 00-2123	Ventilated Straight Sections <small>(26 05 36 00-2122)</small>			
26 05 36 00-2124	LF	6" Steel Cable Tray Cover, Straight Section	9.17	2.46
26 05 36 00-2125	LF	9" Steel Cable Tray Cover, Straight Section	10.98	2.88
26 05 36 00-2126	LF	12" Steel Cable Tray Cover, Straight Section	12.84	3.29
26 05 36 00-2127	LF	18" Steel Cable Tray Cover, Straight Section	17.37	4.38
26 05 36 00-2128	LF	24" Steel Cable Tray Cover, Straight Section	22.25	5.88
26 05 36 00-2129	LF	30" Steel Cable Tray Cover, Straight Section	27.05	7.25
26 05 36 00-2130	LF	36" Steel Cable Tray Cover, Straight Section	154.17	82.23
26 05 36 00-2131	90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>			
26 05 36 00-2132	EA	6" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	51.96	8.76
26 05 36 00-2133	EA	9" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	58.38	10.26
26 05 36 00-2134	EA	12" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	63.87	12.17
26 05 36 00-2135	EA	18" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	86.31	15.60
26 05 36 00-2136	EA	24" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	106.17	19.84
26 05 36 00-2137	EA	30" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	127.10	22.03
26 05 36 00-2138	EA	36" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	153.39	26.27
26 05 36 00-2139	90 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>			
26 05 36 00-2140	EA	6" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	78.05	9.72
26 05 36 00-2141	EA	9" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	82.40	11.35
26 05 36 00-2142	EA	12" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	93.51	13.69
26 05 36 00-2143	EA	18" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	116.19	17.37
26 05 36 00-2144	EA	24" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	142.91	21.89
26 05 36 00-2145	EA	30" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	181.79	25.18
26 05 36 00-2146	EA	36" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	211.76	29.83
26 05 36 00-2147	90 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>			
26 05 36 00-2148	EA	6" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	108.66	10.94
26 05 36 00-2149	EA	9" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	121.10	12.58
26 05 36 00-2150	EA	12" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	132.41	15.60
26 05 36 00-2151	EA	18" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	166.95	18.20
26 05 36 00-2152	EA	24" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	204.04	25.31
26 05 36 00-2153	EA	30" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	239.72	28.60
26 05 36 00-2154	EA	36" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	280.11	32.83
26 05 36 00-2155	45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>			
26 05 36 00-2156	EA	6" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	41.17	8.76
		<i>For 60 Degree Bend, Deduct</i>	<i>-10.21</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-17.51</i>	
26 05 36 00-2157	EA	9" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	48.85	10.26
		<i>For 60 Degree Bend, Deduct</i>	<i>-12.19</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-20.88</i>	
26 05 36 00-2158	EA	12" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	55.14	12.17
		<i>For 60 Degree Bend, Deduct</i>	<i>-13.55</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-23.25</i>	
26 05 36 00-2159	EA	18" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	66.92	14.91
		<i>For 60 Degree Bend, Deduct</i>	<i>-16.37</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-28.11</i>	
26 05 36 00-2160	EA	24" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	78.07	17.24
		<i>For 60 Degree Bend, Deduct</i>	<i>-19.13</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-32.84</i>	
26 05 36 00-2161	EA	30" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	91.12	19.84
		<i>For 60 Degree Bend, Deduct</i>	<i>-22.44</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-38.51</i>	
26 05 36 00-2162	EA	36" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	101.59	21.89
		<i>For 60 Degree Bend, Deduct</i>	<i>-25.13</i>	
		<i>For 30 Degree Bend, Deduct</i>	<i>-43.10</i>	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2163 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2164 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	55.05	9.72
For 60 Degree Bend, Deduct	-14.45	
For 30 Degree Bend, Deduct	-24.63	
26 05 36 00-2165 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	62.55	11.35
For 60 Degree Bend, Deduct	-16.30	
For 30 Degree Bend, Deduct	-27.79	
26 05 36 00-2166 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	72.08	13.69
For 60 Degree Bend, Deduct	-18.53	
For 30 Degree Bend, Deduct	-31.64	
26 05 36 00-2167 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	83.77	16.42
For 60 Degree Bend, Deduct	-21.34	
For 30 Degree Bend, Deduct	-36.48	
26 05 36 00-2168 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	96.43	18.75
For 60 Degree Bend, Deduct	-24.62	
For 30 Degree Bend, Deduct	-42.07	
26 05 36 00-2169 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	119.14	21.89
For 60 Degree Bend, Deduct	-30.90	
For 30 Degree Bend, Deduct	-52.72	
26 05 36 00-2170 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	132.64	25.31
For 60 Degree Bend, Deduct	-34.08	
For 30 Degree Bend, Deduct	-58.20	
26 05 36 00-2171 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2172 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	74.55	10.94
For 60 Degree Bend, Deduct	-20.42	
For 30 Degree Bend, Deduct	-34.64	
26 05 36 00-2173 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	84.58	12.58
For 60 Degree Bend, Deduct	-23.07	
For 30 Degree Bend, Deduct	-39.14	
26 05 36 00-2174 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	95.82	15.60
For 60 Degree Bend, Deduct	-25.65	
For 30 Degree Bend, Deduct	-43.62	
26 05 36 00-2175 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	109.08	17.37
For 60 Degree Bend, Deduct	-29.35	
For 30 Degree Bend, Deduct	-49.88	
26 05 36 00-2176 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	132.99	21.21
For 60 Degree Bend, Deduct	-35.76	
For 30 Degree Bend, Deduct	-60.77	
26 05 36 00-2177 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	148.52	25.31
For 60 Degree Bend, Deduct	-39.32	
For 30 Degree Bend, Deduct	-66.94	
26 05 36 00-2178 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	174.24	27.36
For 60 Degree Bend, Deduct	-47.00	
For 30 Degree Bend, Deduct	-79.86	
26 05 36 00-2179 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2180 EA 6" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	45.73	8.76
26 05 36 00-2181 EA 9" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	48.85	10.26
26 05 36 00-2182 EA 12" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	54.35	12.17
26 05 36 00-2183 EA 18" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	63.79	14.91
26 05 36 00-2184 EA 24" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	71.87	19.29
26 05 36 00-2185 EA 30" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	80.26	22.03
26 05 36 00-2186 EA 36" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover.....	100.10	26.27
26 05 36 00-2187 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2188 EA 6" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	54.24	9.72
26 05 36 00-2189 EA 9" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	60.96	11.35
26 05 36 00-2190 EA 12" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	66.52	13.69
26 05 36 00-2191 EA 18" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	85.31	16.42
26 05 36 00-2192 EA 24" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	100.40	21.21
26 05 36 00-2193 EA 30" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	115.92	25.31
26 05 36 00-2194 EA 36" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover.....	133.96	29.83
26 05 36 00-2195 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2196 EA 6" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	62.62	10.94
26 05 36 00-2197 EA 9" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	77.43	12.58
26 05 36 00-2198 EA 12" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	89.54	15.60
26 05 36 00-2199 EA 18" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	109.08	17.37
26 05 36 00-2200 EA 24" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	129.36	24.22
26 05 36 00-2201 EA 30" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	153.99	28.60
26 05 36 00-2202 EA 36" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover.....	180.08	32.83
26 05 36 00-2203 12" Radius Horizontal Tees <small>(26 05 36 00-2122)</small>		
26 05 36 00-2204 EA 6" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	80.17	14.23
26 05 36 00-2205 EA 9" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	85.31	16.42
26 05 36 00-2206 EA 12" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	97.19	19.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2207 EA 18" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	115.97	21.89
26 05 36 00-2208 EA 24" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	142.17	25.31
26 05 36 00-2209 EA 30" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	178.20	36.39
26 05 36 00-2210 EA 36" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	214.12	43.65
26 05 36 00-2211 24" Radius Horizontal Tees <small>(26 05 36 00-2122)</small>		
26 05 36 00-2212 EA 6" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	113.79	14.91
26 05 36 00-2213 EA 9" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	130.50	17.37
26 05 36 00-2214 EA 12" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	138.96	20.52
26 05 36 00-2215 EA 18" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	174.09	23.54
26 05 36 00-2216 EA 24" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	251.89	27.36
26 05 36 00-2217 EA 30" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	303.44	41.05
26 05 36 00-2218 EA 36" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	342.94	50.49
26 05 36 00-2219 36" Radius Horizontal Tees <small>(26 05 36 00-2122)</small>		
26 05 36 00-2220 EA 6" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	186.36	15.60
26 05 36 00-2221 EA 9" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	193.91	18.20
26 05 36 00-2222 EA 12" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	217.53	21.89
26 05 36 00-2223 EA 18" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	254.96	25.31
26 05 36 00-2224 EA 24" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	329.25	29.83
26 05 36 00-2225 EA 30" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	381.63	47.07
26 05 36 00-2226 EA 36" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	443.73	59.52
26 05 36 00-2227 12" Radius Horizontal Crosses <small>(26 05 36 00-2122)</small>		
26 05 36 00-2228 EA 6" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	116.30	19.29
26 05 36 00-2229 EA 9" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	123.12	20.52
26 05 36 00-2230 EA 12" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	135.81	21.89
26 05 36 00-2231 EA 18" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	159.63	25.31
26 05 36 00-2232 EA 24" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	203.54	36.39
26 05 36 00-2233 EA 30" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	236.26	43.65
26 05 36 00-2234 EA 36" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	268.66	46.93
26 05 36 00-2235 24" Radius Horizontal Crosses <small>(26 05 36 00-2122)</small>		
26 05 36 00-2236 EA 6" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	194.61	20.52
26 05 36 00-2237 EA 9" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	211.18	21.89
26 05 36 00-2238 EA 12" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	226.48	23.54
26 05 36 00-2239 EA 18" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	269.36	27.36
26 05 36 00-2240 EA 24" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	341.50	41.05
26 05 36 00-2241 EA 30" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	392.06	50.49
26 05 36 00-2242 EA 36" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	437.15	54.60
26 05 36 00-2243 36" Radius Horizontal Crosses <small>(26 05 36 00-2122)</small>		
26 05 36 00-2244 EA 6" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	304.85	21.89
26 05 36 00-2245 EA 9" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	316.99	23.54
26 05 36 00-2246 EA 12" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	334.35	25.31
26 05 36 00-2247 EA 18" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	386.41	29.83
26 05 36 00-2248 EA 24" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	507.01	46.93
26 05 36 00-2249 EA 30" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	560.09	59.80
26 05 36 00-2250 EA 36" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	601.65	65.68
26 05 36 00-2251 Reducers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2252 EA 9"-6" Reducer, Steel Cable Tray Covers.....	52.83	10.26
26 05 36 00-2253 EA 12"-6" Reducer, Steel Cable Tray Covers.....	57.56	12.17
26 05 36 00-2254 EA 12"-9" Reducer, Steel Cable Tray Covers.....	57.56	12.17
26 05 36 00-2255 EA 18"-6" Reducer, Steel Cable Tray Covers.....	64.57	14.91
26 05 36 00-2256 EA 18"-12" Reducer, Steel Cable Tray Covers.....	64.57	14.91
26 05 36 00-2257 EA 24"-12" Reducer, Steel Cable Tray Covers.....	78.17	16.42
26 05 36 00-2258 EA 24"-18" Reducer, Steel Cable Tray Covers.....	82.93	16.42
26 05 36 00-2259 EA 30"-12" Reducer, Steel Cable Tray Covers.....	82.11	18.75
26 05 36 00-2260 EA 30"-18" Reducer, Steel Cable Tray Covers.....	86.87	18.75
26 05 36 00-2261 EA 30"-24" Reducer, Steel Cable Tray Covers.....	90.05	18.75
26 05 36 00-2262 EA 36"-12" Reducer, Steel Cable Tray Covers.....	94.47	20.52
26 05 36 00-2263 EA 36"-18" Reducer, Steel Cable Tray Covers.....	96.06	20.52
26 05 36 00-2264 EA 36"-24" Reducer, Steel Cable Tray Covers.....	97.65	20.52
26 05 36 00-2265 EA 36"-30" Reducer, Steel Cable Tray Covers.....	98.44	20.52
26 05 36 00-2266 Aluminum Covers <small>(26 05 36 00-2121)</small>		
26 05 36 00-2267 Ventilated Straight Sections <small>(26 05 36 00-2266)</small>		
26 05 36 00-2268 LF 6" Aluminum Cable Tray Cover, Straight Section	12.13	2.46
26 05 36 00-2269 LF 9" Aluminum Cable Tray Cover, Straight Section	14.45	2.88
26 05 36 00-2270 LF 12" Aluminum Cable Tray Cover, Straight Section	16.95	3.29
26 05 36 00-2271 LF 18" Aluminum Cable Tray Cover, Straight Section	22.56	4.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2315 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2316 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	95.12	10.94
For 60 Degree Bend, Deduct	-27.21	
For 30 Degree Bend, Deduct	-45.95	
26 05 36 00-2317 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	104.79	12.58
For 60 Degree Bend, Deduct	-29.73	
For 30 Degree Bend, Deduct	-50.26	
26 05 36 00-2318 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	114.20	15.60
For 60 Degree Bend, Deduct	-31.72	
For 30 Degree Bend, Deduct	-53.72	
26 05 36 00-2319 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	135.24	17.37
For 60 Degree Bend, Deduct	-37.98	
For 30 Degree Bend, Deduct	-64.27	
26 05 36 00-2320 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	164.32	21.21
For 60 Degree Bend, Deduct	-46.10	
For 30 Degree Bend, Deduct	-78.00	
26 05 36 00-2321 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	189.21	25.31
For 60 Degree Bend, Deduct	-52.75	
For 30 Degree Bend, Deduct	-89.32	
26 05 36 00-2322 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	213.07	27.36
For 60 Degree Bend, Deduct	-59.82	
For 30 Degree Bend, Deduct	-101.21	
26 05 36 00-2323 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-2266)</small>		
26 05 36 00-2324 EA 6" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	58.96	8.76
26 05 36 00-2325 EA 9" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	61.79	10.26
26 05 36 00-2326 EA 12" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	68.86	12.17
26 05 36 00-2327 EA 18" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	81.46	14.91
26 05 36 00-2328 EA 24" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	91.01	19.29
26 05 36 00-2329 EA 30" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	96.56	22.03
26 05 36 00-2330 EA 36" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	116.14	26.27
26 05 36 00-2331 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-2266)</small>		
26 05 36 00-2332 EA 6" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	67.04	9.72
26 05 36 00-2333 EA 9" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	74.32	11.35
26 05 36 00-2334 EA 12" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	82.82	13.69
26 05 36 00-2335 EA 18" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	99.76	16.42
26 05 36 00-2336 EA 24" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	114.49	21.21
26 05 36 00-2337 EA 30" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	143.91	25.31
26 05 36 00-2338 EA 36" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	160.68	29.83
26 05 36 00-2339 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-2266)</small>		
26 05 36 00-2340 EA 6" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	76.99	10.94
26 05 36 00-2341 EA 9" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	93.47	12.58
26 05 36 00-2342 EA 12" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	109.75	15.60
26 05 36 00-2343 EA 18" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	130.72	17.37
26 05 36 00-2344 EA 24" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	160.37	24.22
26 05 36 00-2345 EA 30" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	199.21	28.60
26 05 36 00-2346 EA 36" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	217.56	32.83
26 05 36 00-2347 12" Radius Horizontal Tees <small>(26 05 36 00-2266)</small>		
26 05 36 00-2348 EA 6" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	96.21	14.23
26 05 36 00-2349 EA 9" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	104.29	16.42
26 05 36 00-2350 EA 12" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	118.07	19.29
26 05 36 00-2351 EA 18" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	138.40	21.89
26 05 36 00-2352 EA 24" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	171.11	25.31
26 05 36 00-2353 EA 30" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	212.31	36.39
26 05 36 00-2354 EA 36" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	256.08	43.65
26 05 36 00-2355 24" Radius Horizontal Tees <small>(26 05 36 00-2266)</small>		
26 05 36 00-2356 EA 6" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	142.54	14.91
26 05 36 00-2357 EA 9" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	160.12	17.37
26 05 36 00-2358 EA 12" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	181.24	20.52
26 05 36 00-2359 EA 18" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	211.09	23.54
26 05 36 00-2360 EA 24" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	319.27	27.36
26 05 36 00-2361 EA 30" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	371.65	41.05
26 05 36 00-2362 EA 36" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	421.27	50.49
26 05 36 00-2363 36" Radius Horizontal Tees <small>(26 05 36 00-2266)</small>		
26 05 36 00-2364 EA 6" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	240.95	15.60
26 05 36 00-2365 EA 9" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	249.85	18.20
26 05 36 00-2366 EA 12" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	278.63	21.89
26 05 36 00-2367 EA 18" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	315.99	25.31
26 05 36 00-2368 EA 24" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	398.25	29.83

26 Electrical
26 05 Common Work Results for Electrical
 26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2369	EA 30" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	469.81	47.07
26 05 36 00-2370	EA 36" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	540.41	59.52
26 05 36 00-2371	12" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2372	EA 6" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	143.02	19.29
26 05 36 00-2373	EA 9" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	151.87	20.52
26 05 36 00-2374	EA 12" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	167.81	21.89
26 05 36 00-2375	EA 18" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	200.52	25.31
26 05 36 00-2376	EA 24" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	243.92	36.39
26 05 36 00-2377	EA 30" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	289.94	43.65
26 05 36 00-2378	EA 36" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	329.28	46.93
26 05 36 00-2379	24" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2380	EA 6" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	251.46	20.52
26 05 36 00-2381	EA 9" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	269.58	21.89
26 05 36 00-2382	EA 12" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	290.28	23.54
26 05 36 00-2383	EA 18" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	337.37	27.36
26 05 36 00-2384	EA 24" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	416.85	41.05
26 05 36 00-2385	EA 30" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	491.31	50.49
26 05 36 00-2386	EA 36" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	532.24	54.60
26 05 36 00-2387	36" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2388	EA 6" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	384.97	21.89
26 05 36 00-2389	EA 9" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	403.42	23.54
26 05 36 00-2390	EA 12" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	433.64	25.31
26 05 36 00-2391	EA 18" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	479.71	29.83
26 05 36 00-2392	EA 24" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	610.04	46.93
26 05 36 00-2393	EA 30" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	710.56	59.80
26 05 36 00-2394	EA 36" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	776.93	65.68
26 05 36 00-2395	Reducers (26 05 36 00-2266)		
26 05 36 00-2396	EA 9"-6" Reducer, Aluminum Cable Tray Covers	72.54	10.26
26 05 36 00-2397	EA 12"-6" Reducer, Aluminum Cable Tray Covers	77.95	12.17
26 05 36 00-2398	EA 12"-9" Reducer, Aluminum Cable Tray Covers	77.95	12.17
26 05 36 00-2399	EA 18"-6" Reducer, Aluminum Cable Tray Covers	88.22	14.91
26 05 36 00-2400	EA 18"-12" Reducer, Aluminum Cable Tray Covers	88.22	14.91
26 05 36 00-2401	EA 24"-12" Reducer, Aluminum Cable Tray Covers	97.50	16.42
26 05 36 00-2402	EA 24"-18" Reducer, Aluminum Cable Tray Covers	106.50	16.42
26 05 36 00-2403	EA 30"-12" Reducer, Aluminum Cable Tray Covers	112.75	18.75
26 05 36 00-2404	EA 30"-18" Reducer, Aluminum Cable Tray Covers	116.12	18.75
26 05 36 00-2405	EA 30"-24" Reducer, Aluminum Cable Tray Covers	118.44	18.75
26 05 36 00-2406	EA 36"-12" Reducer, Aluminum Cable Tray Covers	124.64	20.52
26 05 36 00-2407	EA 36"-18" Reducer, Aluminum Cable Tray Covers	126.91	20.52
26 05 36 00-2408	EA 36"-24" Reducer, Aluminum Cable Tray Covers	128.04	20.52
26 05 36 00-2409	EA 36"-30" Reducer, Aluminum Cable Tray Covers	129.17	20.52
26 05 36 00-2410	Galvanized Steel Dividers (26 05 36 00-2121)		
26 05 36 00-2411	Straight Dividers (26 05 36 00-2410)		
26 05 36 00-2412	LF 3" Deep Galvanized Steel Divider Strip, Straight	9.84	3.29
26 05 36 00-2413	LF 4" Deep Galvanized Steel Divider Strip, Straight	11.43	3.56
26 05 36 00-2414	LF 6" Deep Galvanized Steel Divider Strip, Straight	13.91	4.11
26 05 36 00-2415	3" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2416	EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Steel Cable Tray	60.57	23.54
26 05 36 00-2417	EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Steel Cable Tray	67.41	24.36
26 05 36 00-2418	EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Steel Cable Tray	70.72	25.31
26 05 36 00-2419	EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Steel Cable Tray	79.51	26.27
26 05 36 00-2420	EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Steel Cable Tray	76.34	26.27
26 05 36 00-2421	EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Steel Cable Tray	82.08	27.36
26 05 36 00-2422	EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Steel Cable Tray	93.65	28.60
26 05 36 00-2423	EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Steel Cable Tray	112.52	29.83
26 05 36 00-2424	EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Steel Cable Tray	93.47	29.83
26 05 36 00-2425	EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Steel Cable Tray	102.94	31.33
26 05 36 00-2426	EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Steel Cable Tray	114.27	32.83
26 05 36 00-2427	EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Steel Cable Tray	140.16	34.62
26 05 36 00-2428	4" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2429	EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Steel Cable Tray	67.81	24.36
26 05 36 00-2430	EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Steel Cable Tray	73.89	25.31
26 05 36 00-2431	EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Steel Cable Tray	79.51	26.27
26 05 36 00-2432	EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Steel Cable Tray	89.22	27.36
26 05 36 00-2433	EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Steel Cable Tray	89.22	27.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2501 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	217.10	32.83
26 05 36 00-2502 Horizontal Dividers (26 05 36 00-2458)		
26 05 36 00-2503 EA 3" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	70.73	18.75
26 05 36 00-2504 EA 4" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	77.51	20.52
26 05 36 00-2505 EA 6" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	95.13	22.71
26 05 36 00-2506 Wall Brackets (26 05 36 00-0001)		
26 05 36 00-2507 Wall Brackets (26 05 36 00-2506)		
26 05 36 00-2508 EA 6" Wide Tray Wall Bracket	89.36	27.36
26 05 36 00-2509 EA 9" Wide Tray Wall Bracket	92.66	28.60
26 05 36 00-2510 EA 12" Wide Tray Wall Bracket	101.12	29.83
26 05 36 00-2511 EA 18" Wide Tray Wall Bracket	107.19	31.33
26 05 36 00-2512 EA 24" Wide Tray Wall Bracket	116.05	32.83
26 05 36 00-2513 EA 30" Wide Tray Wall Bracket	136.43	34.62
26 05 36 00-2514 EA 36" Wide Tray Wall Bracket	161.69	36.94
26 05 36 00-2515 Fiberglass Cable Tray (26 05 36 00-0001)		
26 05 36 00-2516 Ladder Bottom Fiberglass Cable Tray (26 05 36 00-2515) Note: Excludes hangers and support system.		
26 05 36 00-2517 Straight Tray Sections (26 05 36 00-2516)		
26 05 36 00-2518 LF 6" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	11.31	3.70
For 9" Rung Spacing, Add	0.20	
For 6" Rung Spacing, Add	0.88	
For 4" Rung Spacing, Add	1.61	
For 18" Rung Spacing, Deduct	-0.15	
For Solid Bottom, Add	2.57	
For Vented Trough Bottom, Add	3.02	
26 05 36 00-2519 LF 9" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	12.87	4.52
For 9" Rung Spacing, Add	0.21	
For 6" Rung Spacing, Add	0.90	
For 4" Rung Spacing, Add	1.66	
For 18" Rung Spacing, Deduct	-0.15	
For Solid Bottom, Add	2.84	
For Vented Trough Bottom, Add	3.27	
26 05 36 00-2520 LF 12" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	14.41	5.47
For 9" Rung Spacing, Add	0.22	
For 6" Rung Spacing, Add	0.93	
For 4" Rung Spacing, Add	1.71	
For 18" Rung Spacing, Deduct	-0.16	
For Solid Bottom, Add	3.09	
For Vented Trough Bottom, Add	3.51	
26 05 36 00-2521 LF 18" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	17.61	7.25
For 9" Rung Spacing, Add	0.23	
For 6" Rung Spacing, Add	1.00	
For 4" Rung Spacing, Add	1.83	
For 18" Rung Spacing, Deduct	-0.17	
For Solid Bottom, Add	3.64	
For Vented Trough Bottom, Add	4.03	
26 05 36 00-2522 LF 24" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	20.80	9.17
For 9" Rung Spacing, Add	0.25	
For 6" Rung Spacing, Add	1.07	
For 4" Rung Spacing, Add	1.96	
For 18" Rung Spacing, Deduct	-0.18	
For Solid Bottom, Add	4.19	
For Vented Trough Bottom, Add	4.56	
26 05 36 00-2523 LF 30" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	22.77	9.99
For 9" Rung Spacing, Add	0.27	
For 6" Rung Spacing, Add	1.16	
For 4" Rung Spacing, Add	2.12	
For 18" Rung Spacing, Deduct	-0.19	
For Solid Bottom, Add	4.57	
For Vented Trough Bottom, Add	4.97	
26 05 36 00-2524 LF 36" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	24.77	10.94
For 9" Rung Spacing, Add	0.29	
For 6" Rung Spacing, Add	1.25	
For 4" Rung Spacing, Add	2.30	
For 18" Rung Spacing, Deduct	-0.21	
For Solid Bottom, Add	4.97	
For Vented Trough Bottom, Add	5.39	
26 05 36 00-2525 90 Degree Horizontal Elbows (26 05 36 00-2516)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2526 EA 6" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	64.66	27.36
For 9" Rung Spacing, Add	0.83	
For 6" Rung Spacing, Add	3.54	
For 4" Rung Spacing, Add	6.49	
For 18" Rung Spacing, Deduct	-0.59	
For Solid Bottom, Add	13.24	
For Vented Trough Bottom, Add	14.58	
For 60 Degree Bend, Deduct	-11.90	
For 45 Degree Bend, Deduct	-16.55	
For 30 Degree Bend, Deduct	-21.20	
26 05 36 00-2527 EA 9" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	72.86	31.88
For 9" Rung Spacing, Add	0.87	
For 6" Rung Spacing, Add	3.75	
For 4" Rung Spacing, Add	6.87	
For 18" Rung Spacing, Deduct	-0.62	
For Solid Bottom, Add	14.67	
For Vented Trough Bottom, Add	15.97	
For 60 Degree Bend, Deduct	-13.03	
For 45 Degree Bend, Deduct	-18.17	
For 30 Degree Bend, Deduct	-23.31	
26 05 36 00-2528 EA 12" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	86.53	40.09
For 9" Rung Spacing, Add	0.92	
For 6" Rung Spacing, Add	3.95	
For 4" Rung Spacing, Add	7.24	
For 18" Rung Spacing, Deduct	-0.66	
For Solid Bottom, Add	16.93	
For Vented Trough Bottom, Add	18.05	
For 60 Degree Bend, Deduct	-14.71	
For 45 Degree Bend, Deduct	-20.61	
For 30 Degree Bend, Deduct	-26.52	
26 05 36 00-2529 EA 18" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	102.75	48.43
For 9" Rung Spacing, Add	1.06	
For 6" Rung Spacing, Add	4.53	
For 4" Rung Spacing, Add	8.31	
For 18" Rung Spacing, Deduct	-0.76	
For Solid Bottom, Add	19.95	
For Vented Trough Bottom, Add	21.16	
For 60 Degree Bend, Deduct	-17.23	
For 45 Degree Bend, Deduct	-24.18	
For 30 Degree Bend, Deduct	-31.13	
26 05 36 00-2530 EA 24" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	116.70	55.69
For 9" Rung Spacing, Add	1.16	
For 6" Rung Spacing, Add	4.99	
For 4" Rung Spacing, Add	9.14	
For 18" Rung Spacing, Deduct	-0.83	
For Solid Bottom, Add	22.49	
For Vented Trough Bottom, Add	23.73	
For 60 Degree Bend, Deduct	-19.32	
For 45 Degree Bend, Deduct	-27.14	
For 30 Degree Bend, Deduct	-34.97	
26 05 36 00-2531 EA 30" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	127.13	59.39
For 9" Rung Spacing, Add	1.34	
For 6" Rung Spacing, Add	5.73	
For 4" Rung Spacing, Add	10.51	
For 18" Rung Spacing, Deduct	-0.96	
For Solid Bottom, Add	24.80	
For Vented Trough Bottom, Add	26.40	
For 60 Degree Bend, Deduct	-21.50	
For 45 Degree Bend, Deduct	-30.15	
For 30 Degree Bend, Deduct	-38.80	
26 05 36 00-2532 EA 36" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	139.66	63.90
For 9" Rung Spacing, Add	1.54	
For 6" Rung Spacing, Add	6.58	
For 4" Rung Spacing, Add	12.07	
For 18" Rung Spacing, Deduct	-1.10	
For Solid Bottom, Add	27.53	
For Vented Trough Bottom, Add	29.52	
For 60 Degree Bend, Deduct	-24.06	
For 45 Degree Bend, Deduct	-33.67	
For 30 Degree Bend, Deduct	-43.29	
26 05 36 00-2533 Inside Or Outside Vertical Risers (26 05 36 00-2516)		
26 05 36 00-2534 EA 6" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	89.33	27.36
For 9" Rung Spacing, Add	1.69	
For 6" Rung Spacing, Add	7.24	
For 4" Rung Spacing, Add	13.28	
For 18" Rung Spacing, Deduct	-1.21	
For Solid Bottom, Add	20.64	
For Vented Trough Bottom, Add	24.44	
For 60 Degree Bend, Deduct	-20.04	
For 45 Degree Bend, Deduct	-27.40	
For 30 Degree Bend, Deduct	-34.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2535 EA 9" Vertical Inside Or Outside Riser 90, Fiberglass.....	96.85	31.88
For 9" Rung Spacing, Add	1.71	
For 6" Rung Spacing, Add	7.34	
For 4" Rung Spacing, Add	13.46	
For 18" Rung Spacing, Deduct	-1.22	
For Solid Bottom, Add	21.87	
For Vented Trough Bottom, Add	25.57	
For 60 Degree Bend, Deduct	-20.95	
For 45 Degree Bend, Deduct	-28.73	
For 30 Degree Bend, Deduct	-36.51	
26 05 36 00-2536 EA 12" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	109.84	40.09
For 9" Rung Spacing, Add	1.74	
For 6" Rung Spacing, Add	7.44	
For 4" Rung Spacing, Add	13.65	
For 18" Rung Spacing, Deduct	-1.24	
For Solid Bottom, Add	23.92	
For Vented Trough Bottom, Add	27.38	
For 60 Degree Bend, Deduct	-22.40	
For 45 Degree Bend, Deduct	-30.87	
For 30 Degree Bend, Deduct	-39.34	
26 05 36 00-2537 EA 18" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	123.66	48.43
For 9" Rung Spacing, Add	1.79	
For 6" Rung Spacing, Add	7.67	
For 4" Rung Spacing, Add	14.06	
For 18" Rung Spacing, Deduct	-1.28	
For Solid Bottom, Add	26.22	
For Vented Trough Bottom, Add	29.52	
For 60 Degree Bend, Deduct	-24.13	
For 45 Degree Bend, Deduct	-33.38	
For 30 Degree Bend, Deduct	-42.63	
26 05 36 00-2538 EA 24" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	135.95	55.69
For 9" Rung Spacing, Add	1.84	
For 6" Rung Spacing, Add	7.87	
For 4" Rung Spacing, Add	14.43	
For 18" Rung Spacing, Deduct	-1.31	
For Solid Bottom, Add	28.27	
For Vented Trough Bottom, Add	31.43	
For 60 Degree Bend, Deduct	-25.67	
For 45 Degree Bend, Deduct	-35.61	
For 30 Degree Bend, Deduct	-45.56	
26 05 36 00-2539 EA 30" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	142.77	59.39
For 9" Rung Spacing, Add	1.88	
For 6" Rung Spacing, Add	8.08	
For 4" Rung Spacing, Add	14.81	
For 18" Rung Spacing, Deduct	-1.35	
For Solid Bottom, Add	29.49	
For Vented Trough Bottom, Add	32.65	
For 60 Degree Bend, Deduct	-26.66	
For 45 Degree Bend, Deduct	-37.03	
For 30 Degree Bend, Deduct	-47.40	
26 05 36 00-2540 EA 36" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	155.26	63.90
For 9" Rung Spacing, Add	2.08	
For 6" Rung Spacing, Add	8.92	
For 4" Rung Spacing, Add	16.36	
For 18" Rung Spacing, Deduct	-1.49	
For Solid Bottom, Add	32.21	
For Vented Trough Bottom, Add	35.76	
For 60 Degree Bend, Deduct	-29.21	
For 45 Degree Bend, Deduct	-40.54	
For 30 Degree Bend, Deduct	-51.87	
26 05 36 00-2541 Horizontal Tees (26 05 36 00-2516)		
26 05 36 00-2542 EA 6" Horizontal Tee, Fiberglass Cable Tray	144.28	68.41
For 9" Rung Spacing, Add	1.46	
For 6" Rung Spacing, Add	6.25	
For 4" Rung Spacing, Add	11.46	
For 18" Rung Spacing, Deduct	-1.04	
For Solid Bottom, Add	27.89	
For Vented Trough Bottom, Add	29.49	
26 05 36 00-2543 EA 9" Horizontal Tee, Fiberglass Cable Tray	163.73	80.32
For 9" Rung Spacing, Add	1.52	
For 6" Rung Spacing, Add	6.50	
For 4" Rung Spacing, Add	11.91	
For 18" Rung Spacing, Deduct	-1.08	
For Solid Bottom, Add	31.06	
For Vented Trough Bottom, Add	32.38	
26 05 36 00-2544 EA 12" Horizontal Tee, Fiberglass Cable Tray	188.64	95.78
For 9" Rung Spacing, Add	1.57	
For 6" Rung Spacing, Add	6.75	
For 4" Rung Spacing, Add	12.37	
For 18" Rung Spacing, Deduct	-1.12	
For Solid Bottom, Add	35.04	
For Vented Trough Bottom, Add	35.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2545 EA 18" Horizontal Tee, Fiberglass Cable Tray	210.94	107.68
For 9" Rung Spacing, Add	1.73	
For 6" Rung Spacing, Add	7.42	
For 4" Rung Spacing, Add	13.61	
For 18" Rung Spacing, Deduct	-1.24	
For Solid Bottom, Add	39.06	
For Vented Trough Bottom, Add	39.97	
26 05 36 00-2546 EA 24" Horizontal Tee, Fiberglass Cable Tray	221.39	112.20
For 9" Rung Spacing, Add	1.86	
For 6" Rung Spacing, Add	7.96	
For 4" Rung Spacing, Add	14.60	
For 18" Rung Spacing, Deduct	-1.33	
For Solid Bottom, Add	41.17	
For Vented Trough Bottom, Add	42.27	
26 05 36 00-2547 EA 30" Horizontal Tee, Fiberglass Cable Tray	236.53	118.63
For 9" Rung Spacing, Add	2.05	
For 6" Rung Spacing, Add	8.80	
For 4" Rung Spacing, Add	16.13	
For 18" Rung Spacing, Deduct	-1.47	
For Solid Bottom, Add	44.28	
For Vented Trough Bottom, Add	45.70	
26 05 36 00-2548 EA 36" Horizontal Tee, Fiberglass Cable Tray	256.36	127.80
For 9" Rung Spacing, Add	2.27	
For 6" Rung Spacing, Add	9.72	
For 4" Rung Spacing, Add	17.82	
For 18" Rung Spacing, Deduct	-1.62	
For Solid Bottom, Add	48.17	
For Vented Trough Bottom, Add	49.87	
26 05 36 00-2549 Horizontal Crosses <small>(26 05 36 00-2516)</small>		
26 05 36 00-2550 EA 6" Horizontal Cross, Fiberglass Cable Tray	231.26	118.63
For 9" Rung Spacing, Add	1.87	
For 6" Rung Spacing, Add	8.01	
For 4" Rung Spacing, Add	14.68	
For 18" Rung Spacing, Deduct	-1.33	
For Solid Bottom, Add	42.70	
For Vented Trough Bottom, Add	43.59	
26 05 36 00-2551 EA 9" Horizontal Cross, Fiberglass Cable Tray	246.53	127.80
For 9" Rung Spacing, Add	1.92	
For 6" Rung Spacing, Add	8.25	
For 4" Rung Spacing, Add	15.12	
For 18" Rung Spacing, Deduct	-1.37	
For Solid Bottom, Add	45.23	
For Vented Trough Bottom, Add	45.94	
26 05 36 00-2552 EA 12" Horizontal Cross, Fiberglass Cable Tray	261.80	136.97
For 9" Rung Spacing, Add	1.98	
For 6" Rung Spacing, Add	8.48	
For 4" Rung Spacing, Add	15.55	
For 18" Rung Spacing, Deduct	-1.41	
For Solid Bottom, Add	47.75	
For Vented Trough Bottom, Add	48.28	
26 05 36 00-2553 EA 18" Horizontal Cross, Fiberglass Cable Tray	279.98	146.00
For 9" Rung Spacing, Add	2.14	
For 6" Rung Spacing, Add	9.16	
For 4" Rung Spacing, Add	16.79	
For 18" Rung Spacing, Deduct	-1.53	
For Solid Bottom, Add	51.16	
For Vented Trough Bottom, Add	51.79	
26 05 36 00-2554 EA 24" Horizontal Cross, Fiberglass Cable Tray	297.13	155.16
For 9" Rung Spacing, Add	2.26	
For 6" Rung Spacing, Add	9.68	
For 4" Rung Spacing, Add	17.74	
For 18" Rung Spacing, Deduct	-1.61	
For Solid Bottom, Add	54.25	
For Vented Trough Bottom, Add	54.88	
26 05 36 00-2555 EA 30" Horizontal Cross, Fiberglass Cable Tray	316.52	164.33
For 9" Rung Spacing, Add	2.46	
For 6" Rung Spacing, Add	10.54	
For 4" Rung Spacing, Add	19.32	
For 18" Rung Spacing, Deduct	-1.76	
For Solid Bottom, Add	58.01	
For Vented Trough Bottom, Add	58.88	
26 05 36 00-2556 EA 36" Horizontal Cross, Fiberglass Cable Tray	341.68	176.09
For 9" Rung Spacing, Add	2.72	
For 6" Rung Spacing, Add	11.64	
For 4" Rung Spacing, Add	21.34	
For 18" Rung Spacing, Deduct	-1.94	
For Solid Bottom, Add	62.89	
For Vented Trough Bottom, Add	64.05	
26 05 36 00-2557 Horizontal Wyes <small>(26 05 36 00-2516)</small>		

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2558 EA 6" Horizontal Wye, Fiberglass Cable Tray	140.07	68.41
For 9" Rung Spacing, Add	1.31	
For 6" Rung Spacing, Add	5.62	
For 4" Rung Spacing, Add	10.30	
For 18" Rung Spacing, Deduct	-0.94	
For Solid Bottom, Add	26.63	
For Vented Trough Bottom, Add	27.81	
26 05 36 00-2559 EA 9" Horizontal Wye, Fiberglass Cable Tray	148.42	73.06
For 9" Rung Spacing, Add	1.36	
For 6" Rung Spacing, Add	5.84	
For 4" Rung Spacing, Add	10.71	
For 18" Rung Spacing, Deduct	-0.97	
For Solid Bottom, Add	28.11	
For Vented Trough Bottom, Add	29.27	
26 05 36 00-2560 EA 12" Horizontal Wye, Fiberglass Cable Tray	184.13	95.78
For 9" Rung Spacing, Add	1.42	
For 6" Rung Spacing, Add	6.07	
For 4" Rung Spacing, Add	11.13	
For 18" Rung Spacing, Deduct	-1.01	
For Solid Bottom, Add	33.69	
For Vented Trough Bottom, Add	34.14	
26 05 36 00-2561 EA 18" Horizontal Wye, Fiberglass Cable Tray	205.98	107.68
For 9" Rung Spacing, Add	1.56	
For 6" Rung Spacing, Add	6.68	
For 4" Rung Spacing, Add	12.24	
For 18" Rung Spacing, Deduct	-1.11	
For Solid Bottom, Add	37.58	
For Vented Trough Bottom, Add	37.99	
26 05 36 00-2562 EA 24" Horizontal Wye, Fiberglass Cable Tray	215.98	112.20
For 9" Rung Spacing, Add	1.67	
For 6" Rung Spacing, Add	7.15	
For 4" Rung Spacing, Add	13.11	
For 18" Rung Spacing, Deduct	-1.19	
For Solid Bottom, Add	39.55	
For Vented Trough Bottom, Add	40.11	
26 05 36 00-2563 EA 30" Horizontal Wye, Fiberglass Cable Tray	230.66	118.63
For 9" Rung Spacing, Add	1.85	
For 6" Rung Spacing, Add	7.92	
For 4" Rung Spacing, Add	14.52	
For 18" Rung Spacing, Deduct	-1.32	
For Solid Bottom, Add	42.52	
For Vented Trough Bottom, Add	43.35	
26 05 36 00-2564 EA 36" Horizontal Wye, Fiberglass Cable Tray	249.88	127.80
For 9" Rung Spacing, Add	2.04	
For 6" Rung Spacing, Add	8.75	
For 4" Rung Spacing, Add	16.04	
For 18" Rung Spacing, Deduct	-1.46	
For Solid Bottom, Add	46.23	
For Vented Trough Bottom, Add	47.27	
26 05 36 00-2565 Straight Reducers <small>(26 05 36 00-2516)</small>		
26 05 36 00-2566 EA 9"-6" Reducer, Fiberglass Cable Tray.....	62.26	27.36
For 9" Rung Spacing, Add	0.74	
For 6" Rung Spacing, Add	3.18	
For 4" Rung Spacing, Add	5.83	
For 18" Rung Spacing, Deduct	-0.53	
For Solid Bottom, Add	12.52	
For Vented Trough Bottom, Add	13.62	
26 05 36 00-2567 EA 12"-9" Reducer, Fiberglass Cable Tray.....	69.40	31.88
For 9" Rung Spacing, Add	0.75	
For 6" Rung Spacing, Add	3.23	
For 4" Rung Spacing, Add	5.92	
For 18" Rung Spacing, Deduct	-0.54	
For Solid Bottom, Add	13.64	
For Vented Trough Bottom, Add	14.59	
26 05 36 00-2568 EA 18"-12" Reducer, Fiberglass Cable Tray.....	76.54	36.53
For 9" Rung Spacing, Add	0.76	
For 6" Rung Spacing, Add	3.27	
For 4" Rung Spacing, Add	6.00	
For 18" Rung Spacing, Deduct	-0.55	
For Solid Bottom, Add	14.75	
For Vented Trough Bottom, Add	15.57	
26 05 36 00-2569 EA 24"-18" Reducer, Fiberglass Cable Tray.....	82.77	40.09
For 9" Rung Spacing, Add	0.79	
For 6" Rung Spacing, Add	3.38	
For 4" Rung Spacing, Add	6.20	
For 18" Rung Spacing, Deduct	-0.56	
For Solid Bottom, Add	15.80	
For Vented Trough Bottom, Add	16.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0005 EA Standard Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 3.8 Square Inches	124.48	28.19
26 05 39 00-0006 Large Capacity Ducts, 8.9 Square Inches (26 05 39 00-0002)		
26 05 39 00-0007 EA Large Capacity Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 8.9 Square Inches	160.61	30.51
26 05 39 00-0008 EA Large Capacity Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 8.9 Square Inches	183.22	33.80
26 05 39 00-0009 Junction Boxes (26 05 39 00-0001)		
26 05 39 00-0010 One Level Junction Boxes (26 05 39 00-0009)		
26 05 39 00-0011 EA 1 Level UF Duct Junction Box, 1 Standard Duct Without Partitions In Box	245.67	47.89
26 05 39 00-0012 EA 1 Level UF Duct Junction Box, 1 Large Duct Without Partitions In Box	276.32	51.31
26 05 39 00-0013 EA 1 Level UF Duct Junction Box, 1 Standard And Large Duct Per Side With Partitions In Box	423.43	47.89
<small>Note: Isolate each duct and form a continuous raceway through the box in both directions.</small>		
26 05 39 00-0014 EA 1 Level UF Duct Junction Box, 2 Standard Ducts Per Side With Partitions In Box	299.51	51.31
26 05 39 00-0015 EA 1 Level UF Duct Junction Box, 3 Standard Ducts Per Side With Partitions In Box	466.90	67.45
26 05 39 00-0016 EA 1 Level UF Duct Junction Box, 2 Large Ducts Per Side With Partitions In Box Duct	642.06	73.34
26 05 39 00-0017 Two Level Junction Boxes (26 05 39 00-0009)		
26 05 39 00-0018 EA 2 Level UF Duct Junction Box, 2 Standard Duct Cross, Intersects At Right Angles, Raceway Bottom Level	939.71	48.43
<small>Note: Accepts two standard ducts to form a continuous raceway at right angles to the top level raceway.</small>		
26 05 39 00-0019 EA 2 Level UF Duct Junction Box, 2 Large Duct Bottom Level: Accepts Two Large Capacity Ducts	1,078.55	51.31
26 05 39 00-0020 Elbow Fittings (26 05 39 00-0001)		
26 05 39 00-0021 90 Degree Horizontal Elbow (26 05 39 00-0020)		
26 05 39 00-0022 EA Underfloor Standard Duct Horizontal Elbow Fitting, 90 Degree	116.48	17.65
26 05 39 00-0023 EA Underfloor Large Duct Horizontal Elbow Fitting, 90 Degree	119.66	17.65
26 05 39 00-0024 90 Degree Vertical Elbow (26 05 39 00-0020)		
26 05 39 00-0025 EA Underfloor Standard Duct Vertical Elbow Fitting, 90 Degree	70.10	17.65
26 05 39 00-0026 EA Underfloor Large Duct Vertical Elbow Fitting, 90 Degree	71.38	17.65
26 05 39 00-0027 Offset Elbow (26 05 39 00-0020)		
<small>Note: Two elbows required for crossover or crossunder.</small>		
26 05 39 00-0028 EA Underfloor Standard Duct Offset Elbow 45 Degree, 2 Required For Over-Under	70.10	20.52
26 05 39 00-0029 EA Underfloor Large Duct Offset Elbow 45 Degree, 2 Required For Over-Under	71.38	20.52
26 05 39 00-0030 Couplings (26 05 39 00-0001)		
26 05 39 00-0031 Sleeve Couplings (26 05 39 00-0030)		
26 05 39 00-0032 EA Underfloor Standard Duct Sleeve Coupling	49.96	27.36
26 05 39 00-0033 EA Underfloor Large Duct Sleeve Coupling	79.31	27.36
26 05 39 00-0034 Expansion Couplings (26 05 39 00-0030)		
26 05 39 00-0035 EA Underfloor Standard Duct Expansion Coupling	102.70	27.36
26 05 39 00-0036 EA Underfloor Large Duct Expansion Coupling	104.29	28.87
26 05 39 00-0037 Reducing Couplings (26 05 39 00-0030)		
26 05 39 00-0038 EA Reducing Coupling, Large To Standard Duct Underfloor Duct Coupling	83.69	4.11
26 05 39 00-0039 Duct Supports (26 05 39 00-0001)		
26 05 39 00-0040 Combination Support And Coupling (26 05 39 00-0039)		
<small>Note: Includes leveling legs and anchoring feet.</small>		
26 05 39 00-0041 EA 1 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	115.48	57.46
26 05 39 00-0042 EA 2 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	129.48	57.46
26 05 39 00-0043 EA 3 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	143.57	57.46
26 05 39 00-0044 EA 1 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	129.48	64.31
26 05 39 00-0045 EA 2 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	157.99	64.31
26 05 39 00-0046 EA 1 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	143.57	68.41
26 05 39 00-0047 EA 2 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	143.57	68.41
26 05 39 00-0048 EA 1 Standard And 2 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	157.99	68.41
26 05 39 00-0049 Duct Support Only (26 05 39 00-0039)		
<small>Note: Includes leveling legs and anchoring feet.</small>		
26 05 39 00-0050 EA 1 Underfloor Duct Support Only With Leveling Legs And Anchor Feet	102.81	50.63
26 05 39 00-0051 EA 2 Underfloor Duct Support Only With Leveling Legs And Anchor Feet	120.71	50.63
26 05 39 00-0052 EA 3 Underfloor Duct Support Only With Leveling Legs And Anchor Feet	139.57	50.63

26 Electrical
26 05 Common Work Results for Electrical
26 05 39 Underfloor Raceways for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0053 Underfloor Duct Accessories <small>(26 05 39 00-0001)</small>					
26 05 39 00-0054 Plugs For Unused Junction Box Openings And Duct Ends <small>(26 05 39 00-0053)</small>					
	26 05 39 00-0055	EA	Standard Plugs For Unused Junction Box Opening And Underfloor Duct Ends	27.59	4.11
	26 05 39 00-0056	EA	Large Plugs For Unused Junction Box Opening And Underfloor Duct Ends	28.31	4.11
26 05 39 00-0057 Conduit Adapters <small>(26 05 39 00-0053)</small>					
	26 05 39 00-0058	EA	One 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	34.59	6.84
	26 05 39 00-0059	EA	Two 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	36.96	6.84
	26 05 39 00-0060	EA	One 2" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	36.01	6.84
	26 05 39 00-0061	EA	Three 1-1/4" Conduit To Large Duct Underfloor Conduit To Duct, Adapter	37.44	6.84
26 05 39 00-0062 Holders And Caps <small>(26 05 39 00-0053)</small>					
	26 05 39 00-0063	EA	Tile Holder, Underfloor Duct Accessories	235.66	57.46
	26 05 39 00-0064	EA	Terrazzo Holder, Underfloor Duct Accessories	419.35	57.46
	26 05 39 00-0065	EA	Closing Caps For Inserts, Underfloor Duct Accessories	3.20	1.37
26 05 39 00-0066 Underfloor Dust Pans <small>(26 05 39 00-0001)</small>					
	26 05 39 00-0067	EA	Underfloor Dust Carpet Pan	91.93	7.50
26 05 43 Underground Ducts and Raceways for Electrical Systems <small>(26 05)</small>					
<i>Note: Includes warning tape.</i>					
26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench <small>(26 05 43)</small>					
<i>Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.</i>					
26 05 43 00-0002 10" Wide Pedestrian Trench <small>(26 05 43 00-0001)</small>					
	26 05 43 00-0003	LF	Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	73.42	
	26 05 43 00-0004	LF	Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	70.28	
	26 05 43 00-0005	LF	Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	101.98	
	26 05 43 00-0006	LF	Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	97.62	
	26 05 43 00-0007	EA	End Wall, 10" Wide x 15" Deep Pedestrian Trench	50.18	
	26 05 43 00-0008	EA	End Wall, 10" Wide x 24" Deep Pedestrian Trench	59.77	
	26 05 43 00-0009	LF	Lid, Concrete, 10" Wide Pedestrian Trench	48.95	
26 05 43 00-0010 20" Wide Pedestrian Trench <small>(26 05 43 00-0001)</small>					
	26 05 43 00-0011	LF	Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	93.26	
	26 05 43 00-0012	LF	Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	87.71	
	26 05 43 00-0013	LF	Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	126.54	
	26 05 43 00-0014	LF	Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	121.48	
	26 05 43 00-0015	EA	End Wall, 20" Wide x 15" Deep Pedestrian Trench	62.99	
	26 05 43 00-0016	EA	End Wall, 20" Wide x 24" Deep Pedestrian Trench	91.75	
	26 05 43 00-0017	LF	Lid, Concrete, 20" Wide Pedestrian Trench	61.21	
26 05 43 00-0018 30" Wide Pedestrian Trench <small>(26 05 43 00-0001)</small>					
	26 05 43 00-0019	LF	Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	119.57	
	26 05 43 00-0020	LF	Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	139.91	
	26 05 43 00-0021	LF	Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	149.52	
	26 05 43 00-0022	LF	Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	143.76	
	26 05 43 00-0023	EA	End Wall, 30" Wide x 15" Deep Pedestrian Trench	90.52	
	26 05 43 00-0024	EA	End Wall, 30" Wide x 24" Deep Pedestrian Trench	122.36	
	26 05 43 00-0025	LF	Lid, Concrete, 30" Wide Pedestrian Trench	76.35	
26 05 43 00-0026 40" Wide Pedestrian Trench <small>(26 05 43 00-0001)</small>					
	26 05 43 00-0027	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	143.52	
	26 05 43 00-0028	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	138.28	
	26 05 43 00-0029	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	175.62	
	26 05 43 00-0030	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	169.21	
	26 05 43 00-0031	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench	115.87	
	26 05 43 00-0032	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench	156.45	
	26 05 43 00-0033	LF	Lid, Concrete, 40" Wide Pedestrian Trench	90.35	
26 05 43 00-0034 Precast Concrete Trenches, One Piece Medium Vehicle Trench <small>(26 05 43)</small>					
<i>Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</i>					
26 05 43 00-0035 10" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>					
	26 05 43 00-0036	LF	Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	88.83	
	26 05 43 00-0037	LF	Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	84.76	
	26 05 43 00-0038	LF	Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	123.35	
	26 05 43 00-0039	LF	Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	117.72	
	26 05 43 00-0040	EA	End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	58.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench.....	68.75	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench	59.22	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	259.59	
26 05 43 00-0044 20" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	112.07	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	104.91	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	151.33	
26 05 43 00-0048 LF Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	144.80	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	72.90	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench.....	106.33	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench	74.05	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	344.19	
26 05 43 00-0053 30" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	113.86	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	135.94	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	177.74	
26 05 43 00-0057 LF Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	170.29	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	104.19	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	142.59	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench	92.62	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	429.62	
26 05 43 00-0062 40" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	169.18	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	162.41	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	207.08	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	198.78	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	133.38	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	182.28	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench	109.16	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	583.99	
26 05 43 00-0071 Precast Concrete Trenches, One Piece H20 Road Crossing Trench <small>(26 05 43)</small>		
Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072 10" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	190.41	
26 05 43 00-0074 LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	181.28	
26 05 43 00-0075 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	238.08	
26 05 43 00-0076 LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	226.56	
26 05 43 00-0077 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	182.89	
26 05 43 00-0078 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	174.20	
26 05 43 00-0079 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	230.56	
26 05 43 00-0080 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	219.51	
26 05 43 00-0081 EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	126.44	
26 05 43 00-0082 EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	171.21	
26 05 43 00-0083 EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	114.51	
26 05 43 00-0084 EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	159.02	
26 05 43 00-0085 LF Lid, Concrete 10" Wide Road Crossing Trench	88.20	
26 05 43 00-0086 LF Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	281.63	
26 05 43 00-0087 20" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0088 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	202.36	
26 05 43 00-0089 LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	193.00	
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	267.96	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	255.43	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	202.36	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	193.00	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	260.43	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	248.37	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	180.55	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	245.88	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	163.17	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	228.50	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench	98.49	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	417.60	
26 05 43 00-0102 30" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	239.62	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	228.90	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	296.23	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	282.92	

26 Electrical
26 05 Common Work Results for Electrical
26 05 43 Underground Ducts and Raceways for Electrical Systems



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Includes entries for various trench types (e.g., 30" Wide x 16" Deep Road Crossing Trench), duct banks, and PVC duct bank systems.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0170 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	12.58	
26 05 43 00-0171 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	25.12	
26 05 43 00-0172 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	50.08	
26 05 43 00-0173 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	16.69	
26 05 43 00-0174 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	33.42	
26 05 43 00-0175 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	66.90	
26 05 43 00-0176 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	100.32	
26 05 43 00-0177 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	21.37	
26 05 43 00-0178 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	42.69	
26 05 43 00-0179 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	82.85	
26 05 43 00-0180 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	118.02	
26 05 43 00-0181 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	37.32	
26 05 43 00-0182 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	58.08	
26 05 43 00-0183 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	116.43	
26 05 43 00-0184 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	187.15	

26 05 43 00-0185 Male Or Female Adapters (26 05 43 00-0132)

26 05 43 00-0186 EA 2" Adapter	47.92	
26 05 43 00-0187 EA 3" Adapter	70.14	
26 05 43 00-0188 EA 4" Adapter	91.01	
26 05 43 00-0189 EA 5" Adapter	142.55	
26 05 43 00-0190 EA 6" Adapter	175.58	

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001 Wood Poles (26 05 46)

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,020.21	350.59
For Class 1 Pole, Add	111.62	
For Class 2 Pole, Add	63.78	
For Class 4 Pole, Deduct	-31.89	
For Class 5 Pole, Deduct	-95.67	
For Class 6 Pole, Deduct	-127.56	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,210.99	388.98
For Class 1 Pole, Add	151.55	
For Class 2 Pole, Add	86.60	
For Class 4 Pole, Deduct	-43.30	
For Class 5 Pole, Deduct	-129.90	
For Class 6 Pole, Deduct	-173.20	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,573.24	514.45
For Class 1 Pole, Add	190.56	
For Class 2 Pole, Add	108.89	
For Class 4 Pole, Deduct	-54.45	
For Class 5 Pole, Deduct	-163.34	
For Class 6 Pole, Deduct	-217.79	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,792.80	565.84
For Class 1 Pole, Add	231.40	
For Class 2 Pole, Add	132.23	
For Class 4 Pole, Deduct	-66.12	
For Class 5 Pole, Deduct	-198.35	
For Class 6 Pole, Deduct	-264.46	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,043.56	630.22
For Class 1 Pole, Add	274.05	
For Class 2 Pole, Add	156.60	
For Class 4 Pole, Deduct	-78.30	
For Class 5 Pole, Deduct	-234.90	
For Class 6 Pole, Deduct	-313.20	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,322.01	707.30
For Class 1 Pole, Add	317.61	
For Class 2 Pole, Add	181.49	
For Class 4 Pole, Deduct	-90.75	
For Class 5 Pole, Deduct	-272.24	
For Class 6 Pole, Deduct	-362.98	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,593.10	777.95
For Class 1 Pole, Add	362.98	
For Class 2 Pole, Add	207.42	
For Class 4 Pole, Deduct	-103.71	
For Class 5 Pole, Deduct	-311.13	
For Class 6 Pole, Deduct	-414.84	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,893.36	855.48
For Class 1 Pole, Add	413.80	
For Class 2 Pole, Add	236.46	
For Class 4 Pole, Deduct	-118.23	
For Class 5 Pole, Deduct	-354.68	
For Class 6 Pole, Deduct	-472.91	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,589.07	932.41
For Class 1 Pole, Add	953.47	
For Class 2 Pole, Add	544.84	
For Class 4 Pole, Deduct	-272.42	
For Class 5 Pole, Deduct	-817.26	
For Class 6 Pole, Deduct	-1,089.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,029.30	991.87
For Class 1 Pole, Add	1,065.94	
For Class 2 Pole, Add	609.11	
For Class 4 Pole, Deduct	-304.55	
For Class 5 Pole, Deduct	-913.66	
For Class 6 Pole, Deduct	-1,218.22	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,518.58	1,059.38
For Class 1 Pole, Add	1,189.92	
For Class 2 Pole, Add	679.95	
For Class 4 Pole, Deduct	-339.98	
For Class 5 Pole, Deduct	-1,019.93	
For Class 6 Pole, Deduct	-1,359.90	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms	29.87	
26 05 46 00-0016 Crossarms (26 05 46)		
Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	249.29	104.56
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	302.04	104.56
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	317.45	134.44
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	644.39	291.28
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	685.47	291.28
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	714.26	291.28
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)		
Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....	239.62	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB	309.91	62.74
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	324.84	67.22
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB	389.20	80.66
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor	631.60	103.07
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor	751.38	125.48
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	109.84	17.92
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket	549.22	89.62
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm	449.03	149.37
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting	135.06	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting	106.91	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting	280.48	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting	209.76	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting	91.83	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting	78.10	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	251.67	
26 05 46 00-0048 Guying (26 05 46)		
Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049 Down Guy (26 05 46 00-0048)		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole	962.29	418.26
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole	974.62	418.26
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole	999.98	418.26
26 05 46 00-0053 EA Guy Guard, Plastic.....	30.23	
26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)		



MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 05 46 00-0055	EA	Head Guy (50' Span), For 25' To 40' Pole	1,421.75	642.32
26 05 46 00-0056	EA	Head Guy (50' Span), For 45' To 60' Pole	1,421.75	642.32
26 05 46 00-0057	EA	Head Guy (50' Span), For 65' To 75' Pole	1,421.75	642.32
26 05 46 00-0058		Guy Strain Insulators Additional Insulators (26 05 46 00-0048)		
Note: As required at same material cost and labor.				
26 05 46 00-0059	EA	Guy Strain Insulator	630.17	313.70
26 05 46 00-0060		Pole Anchor (26 05 46 00-0048)		
Note: Joslyn.				
26 05 46 00-0061	EA	Pole Anchor, 4" Helix, 3/4" x 54" Shaft	57.78	25.25
26 05 46 00-0062	EA	Pole Anchor, 6" Helix, 3/4" x 66" Shaft	65.30	25.25
26 05 46 00-0063	EA	Pole Anchor, 8" Helix, 1" x 66" Shaft	86.95	28.41
26 05 46 00-0064	EA	Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft	121.95	31.57
26 05 46 00-0065	EA	Pole Anchor, 10" Helix, 1-1/4" x 8' Shaft	139.25	34.72
26 05 46 00-0066	EA	Pole Anchor, 16" Helix, 1-1/4" x 8' Shaft	223.20	47.35
26 05 46 00-0067		Insulators (26 05 46)		
26 05 46 00-0068		Pin Insulator With Pin (26 05 46 00-0067)		
26 05 46 00-0069	EA	5 KV Class 55-3, Pin Insulator With Pin	203.36	89.62
26 05 46 00-0070	EA	15 KV Class 55-5, Pin Insulator With Pin	210.86	89.62
26 05 46 00-0071		Suspension Insulator (26 05 46 00-0067)		
Note: Includes clevis and strain clamp.				
26 05 46 00-0072	EA	5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp	260.74	119.50
26 05 46 00-0073	EA	15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp	281.11	119.50
26 05 46 00-0074	EA	25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	399.32	149.37
26 05 46 00-0075	EA	50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	639.42	239.00
26 05 46 00-0076		Spool Insulator With Clevis (26 05 46 00-0067)		
26 05 46 00-0077	EA	5 KV Class 53-5, Spool Insulator With Clevis	86.83	37.35
26 05 46 00-0078	EA	15 KV Class, Spool Insulator With Clevis	280.00	134.44
26 05 46 00-0079	EA	25 KV Class, Spool Insulator With Clevis	362.67	134.44
26 05 46 00-0080		Secondary Rack (26 05 46 00-0067)		
26 05 46 00-0081	EA	1 Spool Secondary Rack	172.18	74.69
26 05 46 00-0082	EA	2 Spool Secondary Rack	178.76	95.30
26 05 46 00-0083	EA	3 Spool Secondary Rack	267.44	126.97
26 05 46 00-0084	EA	4 Spool Secondary Rack	299.94	126.97
26 05 46 00-0085		Outdoor Load Break Switches (26 05 46)		
Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.				
26 05 46 00-0086		7.2 KV Outdoor Load Break Switches (26 05 46 00-0085)		
26 05 46 00-0087	EA	600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	4,273.21	507.88
26 05 46 00-0088	EA	1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,208.17	507.88
26 05 46 00-0089	EA	1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,209.85	858.92
26 05 46 00-0090	EA	2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,518.72	858.92
26 05 46 00-0091		14.4 KV Outdoor Load Break Switches (26 05 46 00-0085)		
26 05 46 00-0092	EA	600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,175.10	507.88
26 05 46 00-0093	EA	1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	9,655.59	507.88
26 05 46 00-0094	EA	1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,209.85	858.92
26 05 46 00-0095	EA	2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,518.72	858.92
26 05 46 00-0096		23 KV Outdoor Load Break Switches (26 05 46 00-0085)		
26 05 46 00-0097	EA	600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,719.91	590.04
26 05 46 00-0098	EA	1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	10,576.64	590.04
26 05 46 00-0099	EA	1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,811.76	1,015.77
26 05 46 00-0100	EA	2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,130.75	1,015.77
26 05 46 00-0101		Square Distribution Poles (26 05 46)		
26 05 46 00-0102		Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0101)		
26 05 46 00-0103	EA	20', Steel Taped Shaft Distribution Pole	2,974.11	634.86
26 05 46 00-0104	EA	25', Steel Taped Shaft Distribution Pole	3,328.95	672.19
26 05 46 00-0105	EA	30', Steel Taped Shaft Distribution Pole	3,623.17	746.88
26 05 46 00-0106	EA	35', Steel Taped Shaft Distribution Pole	4,005.37	821.57
26 05 46 00-0107	EA	40', Steel Taped Shaft Distribution Pole	5,286.10	896.27

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0108 Square Prestressed Concrete Distribution Poles <small>(26 05 46 00-0101)</small>			
26 05 46 00-0109	EA 30', Prestressed Concrete Square Pole For Distribution.....	4,905.61	1,115.23
26 05 46 00-0110	EA 35', Prestressed Concrete Square Pole For Distribution.....	5,511.09	1,223.15
26 05 46 00-0111	EA 40', Prestressed Concrete Square Pole For Distribution.....	6,443.54	1,367.06
26 05 46 00-0112	EA 45', Prestressed Concrete Square Pole For Distribution.....	7,254.04	1,510.96
26 05 46 00-0113	EA 50', Prestressed Concrete Square Pole For Distribution.....	6,957.29	1,834.74
26 05 46 00-0114	EA 55', Prestressed Concrete Square Pole For Distribution.....	10,224.02	2,158.51
26 05 46 00-0115	EA 60', Prestressed Concrete Square Pole For Distribution.....	12,033.52	2,446.32
26 05 46 00-0116	EA 65', Prestressed Concrete Square Pole For Distribution.....	14,544.14	3,021.92
26 05 46 00-0117	EA 70', Prestressed Concrete Square Pole For Distribution.....	16,273.55	3,309.71
26 05 46 00-0118 Aluminum Tapered Poles <small>(26 05 46)</small>			
26 05 46 00-0119 Aluminum Tapered Round Seamless Shaft Poles <small>(26 05 46 00-0118)</small>			
26 05 46 00-0120	EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	2,662.23	560.16
26 05 46 00-0121	EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,614.36	597.51
26 05 46 00-0122	EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,145.56	672.19
26 05 46 00-0123	EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,877.72	746.88
26 05 46 00-0124	EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	7,142.67	821.57
26 05 46 00-0125 Steel Service Poles Distribution <small>(26 05 46)</small>			
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.			
26 05 46 00-0126 Round Tapered Pole <small>(26 05 46 00-0125)</small>			
26 05 46 00-0127	EA 40', Galvanized Steel Tapered Round Pole For Distribution.....	3,852.57	896.27
26 05 46 00-0128	EA 45', Galvanized Steel Tapered Round Pole For Distribution.....	4,416.10	970.95
26 05 46 00-0129	EA 50', Galvanized Steel Tapered Round Pole For Distribution.....	4,714.49	1,045.64
26 05 46 00-0130	EA 55', Galvanized Steel Tapered Round Pole For Distribution.....	5,522.50	1,195.01
26 05 46 00-0131	EA 60', Galvanized Steel Tapered Round Pole For Distribution.....	6,718.93	1,344.39
26 05 46 00-0132	EA 65', Galvanized Steel Tapered Round Pole For Distribution.....	8,000.99	1,690.83
26 05 46 00-0133	EA 70', Galvanized Steel Tapered Round Pole For Distribution.....	8,938.81	1,918.20
26 05 46 00-0134	EA 75', Galvanized Steel Tapered Round Pole For Distribution.....	9,901.24	2,158.51
26 05 46 00-0135	EA 80', Galvanized Steel Tapered Round Pole For Distribution.....	11,150.96	2,446.32
26 05 46 00-0136	EA 85', Galvanized Steel Tapered Round Pole For Distribution.....	11,902.41	2,590.21
26 05 46 00-0137	EA 90', Galvanized Steel Tapered Round Pole For Distribution.....	12,979.46	2,878.02
26 05 46 00-0138	EA 95', Galvanized Steel Tapered Round Pole For Distribution.....	14,284.47	3,237.77
26 05 46 00-0139	EA 100', Galvanized Steel Tapered Round Pole For Distribution.....	15,877.56	3,669.47
26 05 46 00-0140 12 Sided Tapered <small>(26 05 46 00-0125)</small>			
26 05 46 00-0141	EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,060.15	896.27
26 05 46 00-0142	EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,671.50	970.95
26 05 46 00-0143	EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,363.69	1,045.64
26 05 46 00-0144	EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	8,129.89	1,195.01
26 05 46 00-0145	EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	10,603.18	1,344.39
26 05 46 00-0146	EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	11,909.13	1,690.83
26 05 46 00-0147	EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	13,765.78	1,918.20
26 05 46 00-0148	EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	14,880.36	2,158.51
26 05 46 00-0149	EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	16,123.83	2,446.32
26 05 46 00-0150	EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	17,087.42	2,590.21
26 05 46 00-0151	EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	19,354.76	2,878.02
26 05 46 00-0152	EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	20,641.91	3,237.77
26 05 46 00-0153	EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	22,276.73	3,669.47
26 05 46 00-0154	EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	24,005.45	4,101.17
26 05 46 00-0155 Standard Options For Round, 12 Sided and Octagonal Tapered Poles <small>(26 05 46 00-0125)</small>			
26 05 46 00-0156	EA Ladder Clips.....	19.18	
26 05 46 00-0157	EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	143.91	
26 05 46 00-0158	EA Ground Sleeve-2' At Ground Line.....	144.75	
26 05 46 00-0159 Arms With Baseplates And Endplates <small>(26 05 46 00-0125)</small>			
26 05 46 00-0160	EA 4' Arm With Baseplate And Endplate.....	657.39	149.37
26 05 46 00-0161	EA 5' Arm With Baseplate And Endplate.....	706.01	149.37
26 05 46 00-0162	EA 6' Arm With Baseplate And Endplate.....	905.17	224.06
26 05 46 00-0163	EA 7' Arm With Baseplate And Endplate.....	947.70	224.06
26 05 46 00-0164	EA 8' Arm With Baseplate And Endplate.....	1,144.58	298.76
26 05 46 00-0165	EA 9' Arm With Baseplate And Endplate.....	1,193.18	298.76
26 05 46 00-0166	EA 10' Arm With Baseplate And Endplate.....	1,567.48	373.45
26 05 46 00-0167	EA 11' Arm With Baseplate And Endplate.....	1,622.04	373.45
26 05 46 00-0168 Standard Vangs Load Bearing At Any Angle <small>(26 05 46 00-0125)</small>			
26 05 46 00-0169	EA 15,000 LB Standard Vangs Load Bearing At Any Angle.....	338.86	149.37
26 05 46 00-0170	EA 30,000 LB Standard Vangs Load Bearing At Any Angle.....	368.65	149.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0171 EA 45,000 LB Standard Vangs Load Bearing At Any Angle.....	409.39	149.37
26 05 46 00-0172 Armless Construction Brackets (26 05 46 00-0125)		
26 05 46 00-0173 Verticals Insulator And Equipment Bracket (26 05 46 00-0172)		
26 05 46 00-0174 EA 7" 1 Position Vertical Insulation And Equipment Bracket.....	343.72	149.37
26 05 46 00-0175 EA 12" 1 Position Vertical Insulation And Equipment Bracket.....	362.53	149.37
26 05 46 00-0176 EA 12" 3 Position Vertical Insulation And Equipment Bracket.....	393.09	149.37
26 05 46 00-0177 EA 18" 1 Position Vertical Insulation And Equipment Bracket.....	562.82	224.06
26 05 46 00-0178 EA 18" 3 Position Vertical Insulation And Equipment Bracket.....	580.66	224.06
26 05 46 00-0179 Horizontal And Multiple Insulator Brackets (26 05 46 00-0172)		
26 05 46 00-0180 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets.....	329.07	149.37
26 05 46 00-0181 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets.....	368.60	149.37
26 05 46 00-0182 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets.....	543.67	224.06
26 05 46 00-0183 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets.....	636.96	224.06
26 05 46 00-0184 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets.....	824.84	298.76
26 05 46 00-0185 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets.....	874.35	298.76
26 05 46 00-0186 Pole Top Bracket And Pins (26 05 46 00-0172)		
26 05 46 00-0187 EA Pole Top Pin - 5".....	334.81	149.37
26 05 46 00-0188 EA Pole Top Bracket - 5".....	344.41	149.37
26 05 46 00-0189 Angle Pins (26 05 46 00-0172)		
26 05 46 00-0190 EA Angle Pin - 25 Degree, 6".....	333.51	149.37
26 05 46 00-0191 EA Angle Pin - 25 Degree, 7 1/4".....	364.68	149.37
26 05 46 00-0192 Static And Neutral Wire Brackets (26 05 46 00-0172)		
26 05 46 00-0193 EA Neutral Wire Extension Bracket.....	357.20	149.37
26 05 46 00-0194 EA Static Wire Support Bracket.....	361.39	149.37
26 05 46 00-0195 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0172)		
26 05 46 00-0196 EA Cutout And Arrestor, With Mounting Bracket.....	327.31	149.37
26 05 46 00-0197 EA Equipment Mounting T Bracket.....	345.99	149.37
26 05 46 00-0198 EA 15 KV Cutout.....	431.51	
26 05 46 00-0199 EA 9/10 KV Arrestor.....	405.22	149.37
26 05 46 00-0200 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0172)		
26 05 46 00-0201 EA Parallel Cable Spacer.....	387.27	149.37
26 05 46 00-0202 EA Conduit Standoff Support Bracket.....	373.90	149.37
26 05 46 00-0203 EA Three Transformer Pole Mounted Cluster Bracket.....	837.63	149.37
26 05 46 00-0204 15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0172)		
Note: Includes pole mounting bracket.		
26 05 46 00-0205 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket.....	1,904.85	373.45
26 05 46 00-0206 Octagonal Tapered (26 05 46 00-0125)		
26 05 46 00-0207 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution.....	6,224.23	896.27
26 05 46 00-0208 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution.....	6,853.48	970.95
26 05 46 00-0209 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution.....	7,566.56	1,045.64
26 05 46 00-0210 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution.....	8,350.65	1,269.70
26 05 46 00-0211 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution.....	10,907.48	1,344.39
26 05 46 00-0212 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution.....	12,237.29	1,690.83
26 05 46 00-0213 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution.....	14,147.65	1,798.76
26 05 46 00-0214 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution.....	15,287.58	2,158.51
26 05 46 00-0215 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution.....	16,554.90	2,302.41
26 05 46 00-0216 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution.....	17,543.87	2,590.21
26 05 46 00-0217 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution.....	19,875.35	2,734.11
26 05 46 00-0218 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution.....	21,189.35	3,237.77
26 05 46 00-0219 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution.....	22,851.02	3,453.62
26 05 46 00-0220 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution.....	24,609.57	3,885.33
26 05 46 00-0221 Removal And Relocation Of Steel Service Poles (26 05 46 00-0125)		
26 05 46 00-0222 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'.....	52.27	
26 05 46 00-0223 Special Steel Bases For Poles (26 05 46 00-0125)		
26 05 46 00-0224 EA Spin-In Steel Base For Poles.....	248.11	
26 05 46 00-0225 EA Series 3, 25' Pole And less.....	268.94	74.69

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0226 EA Series 4, 40' Pole And less	317.94	85.89
26 05 46 00-0227 EA Series 5, 50' Pole And less	359.44	93.36
26 05 46 00-0228 Primary Fuse Cutouts <small>(26 05 46)</small> Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 05 46 00-0229 Non-Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 05 46 00-0228)</small> Note: Includes the fuse and cut-out switch.		
26 05 46 00-0230 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0229)</small>		
26 05 46 00-0231 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	716.54	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0232 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	865.91	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.06	
26 05 46 00-0233 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	1,014.79	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.73	
26 05 46 00-0234 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	1,026.42	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.89	
26 05 46 00-0235 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	1,026.42	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.89	
26 05 46 00-0236 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0229)</small>		
26 05 46 00-0237 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting	716.54	298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0238 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0229)</small>		
26 05 46 00-0239 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting	731.55	298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0240 Fuseholders <small>(26 05 46 00-0229)</small> Note: Including current limiting fuse.		
26 05 46 00-0241 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	653.27	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0242 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	802.64	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.06	
26 05 46 00-0243 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	951.52	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.73	
26 05 46 00-0244 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	658.47	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0245 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	807.84	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.06	
26 05 46 00-0246 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	653.27	298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0247 Accessories <small>(26 05 46 00-0229)</small>		
26 05 46 00-0248 EA Hot Line Clamp	90.18	33.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.41	
26 05 46 00-0249 EA Stirrup	94.95	33.61
26 05 46 00-0250 Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 05 46 00-0228)</small> Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 05 46 00-0251 8.3 KV-95 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0250)</small>		
26 05 46 00-0252 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	833.43	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0253 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	982.80	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.06	
26 05 46 00-0254 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,131.68	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.73	
26 05 46 00-0255 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,154.21	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.89	
26 05 46 00-0256 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,154.21	373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.89	
26 05 46 00-0257 17.1 KV-95 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0250)</small>		
26 05 46 00-0258 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting.....	833.43	298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0259 17.1 KV-125 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0250)</small>		
26 05 46 00-0260 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting.....	833.43	298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.25	
26 05 46 00-0261 Fuseholders <small>(26 05 46 00-0250)</small> Note: Includes current limiting fuses.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0324 Overhead To Underground Conversion Structures <small>(26 05 46 00-0228)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
26 05 46 00-0325 5 KV Structures <small>(26 05 46 00-0324)</small> Note: Excludes pole.		
26 05 46 00-0326 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0327 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0328 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0329 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0330 15 KV Structures <small>(26 05 46 00-0324)</small> Note: Excludes pole.		
26 05 46 00-0331 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0332 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0333 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0334 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0335 25 KV Structures <small>(26 05 46 00-0324)</small> Note: Excludes pole.		
26 05 46 00-0336 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0337 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0338 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0339 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0340 Transformer Stations <small>(26 05 46 00-0228)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 05 46 00-0341 5 KV Station <small>(26 05 46 00-0340)</small>		
26 05 46 00-0342 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	7,332.83	3,982.39
26 05 46 00-0343 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole	8,235.67	4,481.31
26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	9,138.51	4,978.73
26 05 46 00-0345 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	9,138.51	4,978.73
26 05 46 00-0346 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	7,332.83	3,982.39
26 05 46 00-0347 15 KV Stations <small>(26 05 46 00-0340)</small>		
26 05 46 00-0348 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	7,433.75	3,981.26
26 05 46 00-0349 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole	8,336.58	4,481.31
26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	9,239.42	4,978.73
26 05 46 00-0351 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	9,239.42	4,978.73
26 05 46 00-0352 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole	7,433.75	3,982.39
26 05 46 00-0353 25 KV Stations <small>(26 05 46 00-0340)</small>		
26 05 46 00-0354 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	7,543.83	3,982.39
26 05 46 00-0355 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole	8,446.67	4,481.31
26 05 46 00-0356 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	9,349.51	4,978.73
26 05 46 00-0357 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	9,349.51	4,978.73
26 05 46 00-0358 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole	7,543.83	3,982.39
26 05 53 Identification for Electrical Systems <small>(26 05)</small>		
26 05 53 00-0001 Conduit Markers Pressure-Sensitive <small>(26 05 53)</small> Note: Stick-on, includes arrow tape.		
26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on	16.07	
26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on	16.76	
26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on	18.14	
26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	18.41	
26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	18.68	
26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on	19.10	
26 05 53 00-0008 EA 2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	22.79	
26 05 53 00-0009 EA 3" Outside Diameter Pressure Sensitive Marker Stick-on	23.33	
26 05 53 00-0010 EA 3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	23.74	
26 05 53 00-0011 EA 4" Outside Diameter Pressure Sensitive Marker Stick-on	24.17	
26 05 53 00-0012 EA 4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	25.02	
26 05 53 00-0013 EA 5" Outside Diameter Pressure Sensitive Marker Stick-on	25.94	
26 05 53 00-0014 EA 6" Outside Diameter Pressure Sensitive Marker Stick-on	26.75	
26 05 53 00-0015 EA 7" Outside Diameter Pressure Sensitive Marker Stick-on	27.56	
26 05 53 00-0016 EA 8" Outside Diameter Pressure Sensitive Marker Stick-on	30.51	
26 05 53 00-0017 EA 10" Outside Diameter Pressure Sensitive Marker Stick-on	32.01	
26 05 53 00-0018 Labeling Electrical Wires <small>(26 05 53)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs.....	180.25	75.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.17	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs.....	199.21	82.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs.....	218.05	88.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.32	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs.....	237.20	95.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.47	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs.....	269.19	109.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.47	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs.....	304.52	123.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.89	
 26 05 83 00-0123 Gel Connectors <small>(26 05 83)</small>		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	58.04	
Note: Kit contains connector, gel filled cap and cap clamp.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit.....	56.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.94	
 26 05 83 00-0126 Other Connections <small>(26 05 83)</small>		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.37	6.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.45	6.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.54	6.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
 26 05 83 00-0130 Motor/Equipment Connections And Terminations <small>(26 05 83)</small>		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors. See CSI section 23 05 13 00-0000 for motors, 23 05 13 00-0216 for motor mounting.		
26 05 83 00-0131 AC Single Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.68	34.21
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.17	34.21
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	97.46	41.05
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.12	51.31
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.14	51.31
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.35	51.31
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.73	51.31
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	158.35	68.41
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.14	68.41
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	204.84	85.52
 26 05 83 00-0142 AC Three Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.17	34.21
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	97.46	41.05
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.12	51.31
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.14	51.31
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.35	51.31
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.73	51.31
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	158.35	68.41
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.14	68.41
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	204.84	85.52
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.97	85.52
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	264.35	102.62
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	272.16	102.62
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	371.00	136.83
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	465.03	171.03
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	548.41	205.24
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	652.26	239.45
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	749.58	273.66
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	930.57	342.07
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,099.32	407.06
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,301.22	474.79
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,858.04	712.04
 26 05 83 00-0164 AC Three Phase, 460 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.17	34.21
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	97.46	41.05
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.12	51.31
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.14	51.31
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.35	51.31
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.73	51.31
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	158.35	68.41

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0063 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,188.65 65.68	109.46
26 09 23 00-0064 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,367.39 73.89	123.14
26 09 23 00-0065 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,633.39 114.94	191.56
26 09 23 00-0066 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,689.67 155.98	259.97
26 09 23 00-0067 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,684.07 205.24	342.07
26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0069 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,257.16 73.89	123.14
26 09 23 00-0070 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,434.19 82.10	136.83
26 09 23 00-0071 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,740.99 131.36	218.92
26 09 23 00-0072 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,848.36 172.40	287.33
26 09 23 00-0073 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,365.44 225.76	376.28
26 09 23 00-0074 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0075 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,330.57 82.10	136.83
26 09 23 00-0076 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,499.19 90.31	150.50
26 09 23 00-0077 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,406.89 147.77	246.29
26 09 23 00-0078 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,642.42 188.82	314.71
26 09 23 00-0079 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,552.39 246.29	410.48
26 09 23 00-0080 Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0081 Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0082 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0083 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)		
26 09 23 00-0084 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,531.00 90.31	150.50
26 09 23 00-0085 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,401.21 144.49	240.81
26 09 23 00-0086 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,866.39 189.64	316.07
26 09 23 00-0087 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,034.18 248.34	413.90
26 09 23 00-0088 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0089 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)		
26 09 23 00-0090 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,755.61 90.31	150.50
26 09 23 00-0091 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,288.53 144.49	240.81
26 09 23 00-0092 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,159.79 189.64	316.07
26 09 23 00-0093 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,247.04 248.34	413.90
26 09 23 00-0094 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0080)		

26	26 Electrical
	26 09 Instrumentation and Control for Electrical Systems
	26 09 23 Lighting Control Devices



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 09 23 00-0128	EA	8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,819.45 123.32	205.54
26 09 23 00-0129		Accessories For Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0130	EA	Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.86 20.55	34.26
26 09 23 00-0131	EA	Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.80 16.44	27.40
26 09 23 00-0132	EA	Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.04 16.44	27.40
26 09 23 00-0133		Lighting Control Panels (Synergy) <small>(26 09 23 00-0118)</small>		
26 09 23 00-0134		Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0135	EA	8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,343.99 123.32	205.54
26 09 23 00-0136		Accessories For Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0137	EA	Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.84 20.55	34.26
26 09 23 00-0138	EA	Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	219.40 8.22	13.71
26 09 23 00-0139	EA	Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.46 12.33	20.55
26 09 23 00-0140		Lighting Switching Panels (Lutron) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0141		Lighting Switching Panels (Lutron) <small>(26 09 23 00-0140)</small>		
26 09 23 00-0142	EA	8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128@ XPS8-FT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,928.92 123.32	205.54
26 09 23 00-0143	EA	12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128@ XPS12-FT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,609.54 131.54	219.24
26 09 23 00-0144	EA	16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128@ XPS16-FT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,386.74 139.76	232.94
26 09 23 00-0145		Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0146	EA	6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,320.89 115.10	191.83
26 09 23 00-0147	EA	12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,491.30 115.10	191.83
26 09 23 00-0148	EA	18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,661.70 115.10	191.83
26 09 23 00-0149		Power Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0150	EA	600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure.....	37,808.08	1,140.18
26 09 23 00-0151	EA	200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure.....	22,308.08	495.72
26 09 23 00-0152		Signal Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0153	EA	0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case	17,468.44	1,036.60
26 09 23 00-0154	EA	0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case	11,925.21	633.51
26 09 23 00-0155	EA	0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	6,656.90	367.79
26 09 23 00-0156	EA	5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....	9,025.41	367.79
26 09 23 00-0157		Lighting Control Devices (Encelium) <small>(26 09 23)</small>		
26 09 23 00-0158	EA	8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polaris 3D™ (Encelium EN-ECU-G4-P3D) <i>Note: Excludes GB II cable.</i>	12,979.78	137.03
26 09 23 00-0159	EA	Server, System Support Unit (SSU) (Encelium EN-SSU-1U)	5,973.92	137.03
26 09 23 00-0160	EA	Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT)	3,144.59	137.03
26 09 23 00-0161	EA	Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT)	13,055.69	137.03
26 09 23 00-0162	EA	Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK) <i>Note: Excludes GB II cable.</i>	111.33	17.13
26 09 23 00-0163	EA	Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR) <i>Note: Excludes GB II cable.</i>	167.39	17.13
26 09 23 00-0164	EA	Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) <i>Note: Excludes GB II cable.</i>	217.48	34.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0265 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	358.90	68.51
26 09 23 00-0266 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	213.87	17.13
26 09 23 00-0267 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	213.87	17.13
26 09 23 00-0268 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	213.87	17.13
26 09 23 00-0269 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	213.87	17.13
26 09 23 00-0270 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) Note: Includes white finish.	213.87	17.13
26 09 23 00-0271 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	220.73	17.13
26 09 23 00-0272 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	485.68	68.51
26 09 23 00-0273 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....	161.32	68.51
26 09 23 00-0274 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	624.79	68.51
26 09 23 00-0275 Lighting Control Sensors (26 09 23)		
26 09 23 00-0276 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI).....	330.05	30.83
26 09 23 00-0277 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI).....	330.05	30.83
26 09 23 00-0278 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	291.10	30.83
26 09 23 00-0279 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U).....	90.01	20.55
26 09 23 00-0280 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA).....	8.48	
26 09 23 00-0281 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	57.53	
26 09 23 00-0282 EA Clip for Tube (LG BKTUU015121.BUAAWAA).....	11.31	
26 09 23 00-0283 Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0284 Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0283)		
26 09 23 00-0285 Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0284)		
26 09 23 00-0286 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	422.40	20.55
26 09 23 00-0287 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	546.61	20.55
26 09 23 00-0288 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....	686.34	20.55
26 09 23 00-0289 Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0284)		
26 09 23 00-0290 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....	422.40	20.55
26 09 23 00-0291 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	500.03	20.55
26 09 23 00-0292 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	686.34	20.55
26 09 23 00-0293 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	422.40	20.55
26 09 23 00-0294 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	546.61	20.55
26 09 23 00-0295 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	686.34	20.55
26 09 23 00-0296 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0284)		
26 09 23 00-0297 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....	546.61	20.55
26 09 23 00-0298 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	686.34	20.55
26 09 23 00-0299 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	686.34	20.55
26 09 23 00-0300 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter (26 09 23 00-0284)		
26 09 23 00-0301 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH).....	422.40	20.55
26 09 23 00-0302 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	546.61	20.55
26 09 23 00-0303 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	500.03	20.55
26 09 23 00-0304 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	608.71	20.55
26 09 23 00-0305 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....	546.61	20.55
26 09 23 00-0306 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	655.29	20.55
26 09 23 00-0307 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	546.61	20.55
26 09 23 00-0308 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter (26 09 23 00-0284)		
26 09 23 00-0309 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	422.40	20.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0310 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	546.61	20.55
26 09 23 00-0311 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH).....	546.61	20.55
26 09 23 00-0312 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....	686.34	20.55
26 09 23 00-0313 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....	546.61	20.55
26 09 23 00-0314 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	686.34	20.55
26 09 23 00-0315 Output Switch Closure Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0316 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	422.40	20.55
26 09 23 00-0317 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH)	546.61	20.55
26 09 23 00-0318 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH)	686.34	20.55
26 09 23 00-0319 Accessories For Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0320 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH)	96.36	20.55
26 09 23 00-0321 Wall Box Transmitters For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0322 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH)	391.35	20.55
26 09 23 00-0323 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	422.40	20.55
26 09 23 00-0324 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH)	422.40	20.55
26 09 23 00-0325 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	422.40	20.55
26 09 23 00-0326 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH)	422.40	20.55
26 09 23 00-0327 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	422.40	20.55
26 09 23 00-0328 Interfaces For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0329 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	391.35	20.55
26 09 23 00-0330 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	391.35	20.55
26 09 23 00-0331 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000)	391.35	20.55
26 09 23 00-0332 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8)	785.70	20.55
26 09 23 00-0333 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232)	1,121.06	20.55
26 09 23 00-0334 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI)	1,121.06	20.55
26 09 23 00-0335 Fluorescent Controllers For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0336 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	500.03	20.55
26 09 23 00-0337 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	562.13	20.55
26 09 23 00-0338 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	655.29	20.55
26 09 23 00-0339 AC Motor Group Controllers For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0340 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	732.92	20.55
26 09 23 00-0341 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	1,004.61	20.55
26 09 23 00-0342 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23)</small>		
26 09 23 00-0343 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) <small>(26 09 23 00-0342)</small>		
26 09 23 00-0344 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS)	126.29	27.40
26 09 23 00-0345 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	146.06	27.40
26 09 23 00-0346 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	219.75	27.40
26 09 23 00-0347 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS)	93.30	27.40
26 09 23 00-0348 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	110.57	27.40
26 09 23 00-0349 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	100.55	27.40
26 09 23 00-0350 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	118.18	27.40
26 09 23 00-0351 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23 00-0342)</small>		
26 09 23 00-0352 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	121.72	27.40
26 09 23 00-0353 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	130.85	27.40
26 09 23 00-0354 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....	153.66	27.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0355 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....	167.36	34.26
26 09 23 00-0356 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	198.52	27.40
26 09 23 00-0357 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	75.72	27.40
26 09 23 00-0358 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	88.27	27.40
26 09 23 00-0359 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....	80.29	27.40
26 09 23 00-0360 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....	92.83	27.40
26 09 23 00-0361 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	232.79	47.96
26 09 23 00-0362 Removal And Reinstallation Of Occupancy Sensors (26 09 23)		
26 09 23 00-0363 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor.....	92.49	
Note: Includes storing and cleaning.		
26 09 23 00-0364 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor.....	61.66	
Note: Includes storing and cleaning.		
26 09 23 00-0365 Occupancy Sensors (Watt Stopper) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0366 Occupancy Sensors (26 09 23 00-0365)		
Note: Exclude boxes.		
26 09 23 00-0367 Wall Switch Mounted Occupancy Sensors (26 09 23 00-0366)		
26 09 23 00-0368 Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0367)		
26 09 23 00-0369 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....	115.44	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0370 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200).....	134.93	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0371 Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0367)		
26 09 23 00-0372 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100).....	96.59	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0373 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS).....	90.68	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0374 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100).....	101.71	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0375 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	116.61	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0376 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD).....	115.39	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0377 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0367)		
26 09 23 00-0378 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	164.62	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0379 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200).....	176.95	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0380 Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0367)		
26 09 23 00-0381 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	8.03	3.42
26 09 23 00-0382 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	9.01	3.42
26 09 23 00-0383 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	9.01	3.42
26 09 23 00-0384 Ceiling Mounted Occupancy Sensors (26 09 23 00-0366)		
26 09 23 00-0385 Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0384)		
26 09 23 00-0386 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0385)		
26 09 23 00-0387 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	159.25	30.83
26 09 23 00-0388 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	180.45	30.83
26 09 23 00-0389 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	201.82	30.83
26 09 23 00-0390 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H).....	199.89	30.83
26 09 23 00-0391 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0385)		
26 09 23 00-0392 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605).....	171.80	30.83
26 09 23 00-0393 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	193.31	30.83
26 09 23 00-0394 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	213.68	30.83

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0395	EA	90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255)	217.12	30.83
26 09 23 00-0396	EA	600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600)	184.65	30.83
26 09 23 00-0397	EA	1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100)	206.70	30.83
26 09 23 00-0398	EA	2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200)	228.65	30.83
26 09 23 00-0399	EA	90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250)	234.98	30.83
26 09 23 00-0400		40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>		
26 09 23 00-0401	EA	500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1)	178.01	30.83
26 09 23 00-0402	EA	1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2)	203.71	30.83
26 09 23 00-0403	EA	2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3)	225.22	30.83
26 09 23 00-0404	EA	500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1)	168.55	30.83
26 09 23 00-0405	EA	1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2)	200.93	30.83
26 09 23 00-0406	EA	2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3)	211.42	30.83
26 09 23 00-0407	EA	500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1)	179.35	30.83
26 09 23 00-0408	EA	1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2)	197.99	30.83
26 09 23 00-0409	EA	2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3)	221.02	30.83
26 09 23 00-0410		Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0411	EA	30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR)	134.50	30.83
26 09 23 00-0412	EA	HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24)	137.00	30.83
26 09 23 00-0413	EA	Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205)	142.94	30.83
26 09 23 00-0414	EA	Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355)	158.85	30.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0415	EA	Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305)	160.78	30.83
26 09 23 00-0416	EA	Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200)	169.11	30.83
26 09 23 00-0417	EA	Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300)	182.43	30.83
26 09 23 00-0418		Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0419	EA	1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355)	213.49	30.83
26 09 23 00-0420	EA	1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300)	241.69	30.83
26 09 23 00-0421	EA	1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305)	207.51	30.83
26 09 23 00-0422		Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0386)</small>		
26 09 23 00-0423		Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0424	EA	120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3)	258.59	30.83
26 09 23 00-0425	EA	2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100)	258.59	30.83
26 09 23 00-0426		Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0427	EA	2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200)	241.69	30.83
26 09 23 00-0428		Occupancy Sensor Power Packs <small>(26 09 23 00-0365)</small>		
26 09 23 00-0429		Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0430	EA	220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P)	94.23	27.40
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0431	EA	347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P)	87.07	27.40
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0432		Auxiliary, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0433	EA	120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P)	81.17	27.40
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0434		Universal Voltage, Power Packs For Occupancy Sensors <small>(26 09 23 00-0428)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0435 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.77 16.44	27.40
26 09 23 00-0436 Form C, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0437 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.56 16.44	27.40
26 09 23 00-0438 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.62 16.44	27.40
26 09 23 00-0439 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0440 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.32 16.44	27.40
26 09 23 00-0441 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.74 16.44	27.40
26 09 23 00-0442 Occupancy Sensor Power Supplies (26 09 23 00-0428)		
26 09 23 00-0443 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.08 16.44	27.40
26 09 23 00-0444 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	220.26 16.44	27.40
26 09 23 00-0445 Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0446 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100)	286.83	27.40
26 09 23 00-0447 DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0448 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	101.95	27.40
26 09 23 00-0449 Occupancy Sensor Accessories (26 09 23 00-0365)		
26 09 23 00-0450 Protective Cages For Occupancy Sensors (26 09 23 00-0449)		
26 09 23 00-0451 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	55.71	10.27
26 09 23 00-0452 Mounting Brackets For Occupancy Sensors (26 09 23 00-0449)		
26 09 23 00-0453 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB)..... Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.	48.30	17.13
26 09 23 00-0454 Occupancy/Lighting Logger (26 09 23 00-0449)		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0455 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	404.26	58.24
26 09 23 00-0456 Digital Time Light Switches (26 09 23 00-0365)		
26 09 23 00-0457 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	87.88	13.71
26 09 23 00-0458 Occupancy Sensors (Sensor Switch) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0459 Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)		
Note: Exclude boxes		
26 09 23 00-0460 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0461 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0460)		
26 09 23 00-0462 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	182.66	13.71
26 09 23 00-0463 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL)	130.90	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0464 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD)	125.21	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0465 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	125.21	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0466 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P)	156.78	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0467 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	156.78	13.71
26 09 23 00-0468 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	189.14	13.71
26 09 23 00-0469 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD)	156.78	13.71

26	Electrical
26 09	Instrumentation and Control for Electrical Systems
26 09 23	Lighting Control Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0470 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small> Note: Includes passive infrared and microphonics detection		
26 09 23 00-0471 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	234.41	13.71
26 09 23 00-0472 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL)	182.66	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0473 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	178.79	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0474 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA).....	178.79	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0475 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P)	208.53	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0476 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT).....	208.53	13.71
26 09 23 00-0477 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P).....	224.06	13.71
 26 09 23 00-0478 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0479 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....	17.20	3.42
26 09 23 00-0480 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	17.20	3.42
26 09 23 00-0481 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	32.73	3.42
26 09 23 00-0482 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	32.73	3.42
 26 09 23 00-0483 360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0484 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0483)</small> Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0485 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)	216.92	30.83
26 09 23 00-0486 EA Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)	216.92	30.83
26 09 23 00-0487 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)	216.92	30.83
26 09 23 00-0488 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)	229.85	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0489 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)	229.85	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0490 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0491 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0492 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P)	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0493 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P)	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0494 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10)	216.92	30.83
26 09 23 00-0495 EA Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10)	216.92	30.83
26 09 23 00-0496 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10)	216.92	30.83
26 09 23 00-0497 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10)	229.85	30.83
26 09 23 00-0498 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10)	229.85	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0499 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0500 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P)	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0501 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P)	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0502 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P)	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
 26 09 23 00-0503 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0483)</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0504 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9)	268.67	30.83
26 09 23 00-0505 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9)	268.67	30.83
26 09 23 00-0506 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9)	268.67	30.83
26 09 23 00-0507 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9)	255.73	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0508 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9)	255.73	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0509 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9)	214.33	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0510 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P)	307.48	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0511 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P)	307.48	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0512 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P)	266.08	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0513 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10)	268.67	30.83
26 09 23 00-0514 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10)	268.67	30.83
26 09 23 00-0515 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10)	268.67	30.83
26 09 23 00-0516 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10)	255.73	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0517 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10)	255.73	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0518 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10)	214.33	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0519 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P)	307.48	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0520 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P)	307.48	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0521 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P)	266.08	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0522 Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0523 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0522)</small>		
26 09 23 00-0524 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16)	216.92	30.83
26 09 23 00-0525 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13)	242.79	30.83
26 09 23 00-0526 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13)	294.55	30.83
26 09 23 00-0527 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16)	281.61	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0528 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P)	333.36	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0529 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0522)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0530 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16)	268.67	30.83
26 09 23 00-0531 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16)	307.48	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0532 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P)	359.24	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0533 High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0534 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0533)</small>		
26 09 23 00-0535 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6)	216.92	30.83
26 09 23 00-0536 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6)	216.92	30.83
26 09 23 00-0537 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6)	216.92	30.83

26 Electrical

26 09 Instrumentation and Control for Electrical Systems

26 09 23 Lighting Control Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0538 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0539 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0540 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0541 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0542 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0543 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0544 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0545 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0546 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0547 EA 480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0548 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0549 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0550 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	242.79	30.83
26 09 23 00-0551 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	242.79	30.83
26 09 23 00-0552 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	242.79	30.83
26 09 23 00-0553 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0554 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0555 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0556 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	258.32	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0557 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	258.32	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0558 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0559 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0560 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0561 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0562 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	242.79	30.83
26 09 23 00-0563 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	242.79	30.83
26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0565 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0566 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0567 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	255.73	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0568 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	255.73	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0569 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0570 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	127.26	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0571 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	179.02	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0572 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	101.39	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0573 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....	93.62	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0574 EA 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....	119.50	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0575 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....	184.19	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0576 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....	184.19	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0577 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....	184.19	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0578 Daylighting Control (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0579 EA Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....	191.04	30.83
26 09 23 00-0580 EA Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	191.04	30.83
26 09 23 00-0581 EA Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....	191.04	30.83
26 09 23 00-0582 EA Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC).....	191.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0583 EA Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC).....	191.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0584 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC).....	191.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0585 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....	191.04	30.83
26 09 23 00-0586 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....	191.04	30.83
26 09 23 00-0587 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	191.04	30.83
26 09 23 00-0588 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	191.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0589 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	191.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0590 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	191.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0591 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	268.67	30.83
26 09 23 00-0592 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	268.67	30.83
26 09 23 00-0593 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	268.67	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0594 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	268.67	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0595 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	268.67	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0596 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	268.67	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.50</i>	
26 09 23 00-0597 Occupancy Sensors (Sensor Switch nLight®) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0598 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0597) Note: Excludes boxes.		
26 09 23 00-0599 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0600 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0599) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0601 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	280.09	13.71
26 09 23 00-0602 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0603 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0602) Note: One photocell or dimming option per occupancy sensor		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0604 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	339.34	30.83
26 09 23 00-0605 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	339.34	30.83
26 09 23 00-0606 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	339.34	30.83
26 09 23 00-0607 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0608 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	394.87	30.83
26 09 23 00-0609 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	394.87	30.83
26 09 23 00-0610 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	408.73	30.83
26 09 23 00-0611 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>		
26 09 23 00-0612 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0611)</small> Note: Includes passive infrared and microphonics detection		
26 09 23 00-0613 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nVW PDT 16).....	394.87	30.83
26 09 23 00-0614 High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>		
26 09 23 00-0615 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0614)</small>		
26 09 23 00-0616 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6).....	339.34	30.83
26 09 23 00-0617 Occupancy Sensor Power Packs (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0618 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	124.22	27.40
26 09 23 00-0619 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	152.02	27.40
26 09 23 00-0620 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	199.20	27.40
26 09 23 00-0621 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16).....	199.20	27.40
26 09 23 00-0622 Occupancy Sensor Accessories (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0623 EA RS232 AV Integrator (Sensor Switch nLight® nIO X).....	408.73	30.83
26 09 23 00-0624 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	333.57	30.83
26 09 23 00-0625 Daylighting Controls (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0626 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC).....	283.80	30.83
26 09 23 00-0627 Controls (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0628 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	192.17	30.83
26 09 23 00-0629 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	269.94	30.83
26 09 23 00-0630 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	603.13	30.83
26 09 23 00-0631 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX).....	603.13	30.83
26 09 23 00-0632 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	2,213.65	30.83
26 09 23 00-0633 Occupancy Sensors (Lutron) <small>(26 09 23)</small> Note: Includes testing of new devices and certification.		
26 09 23 00-0634 Wireless Occupancy Sensors <small>(26 09 23 00-0633)</small>		
26 09 23 00-0635 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH).....	147.19	30.83
26 09 23 00-0636 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH).....	152.90	30.83
26 09 23 00-0637 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	148.55	30.83
26 09 23 00-0638 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	156.15	30.83
26 09 23 00-0639 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	150.25	30.83
26 09 23 00-0640 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	156.15	30.83
26 09 23 00-0641 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	147.19	30.83
26 09 23 00-0642 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	150.25	30.83
26 09 23 00-0643 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	148.55	30.83
26 09 23 00-0644 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH).....	220.12	30.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0645 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	233.75	30.83
26 09 23 00-0646 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH).....	264.42	30.83
26 09 23 00-0647 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	278.06	30.83
26 09 23 00-0648 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH).....	284.87	30.83
26 09 23 00-0649 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	298.51	30.83
26 09 23 00-0650 EA Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	177.18	30.83
26 09 23 00-0651 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	186.04	30.83
26 09 23 00-0652 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH).....	215.01	30.83
26 09 23 00-0653 EA Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH).....	237.16	30.83
26 09 23 00-0654 EA Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH).....	254.20	30.83
26 09 23 00-0655 EA Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH).....	221.82	30.83
26 09 23 00-0656 EA Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	205.23	30.83
26 09 23 00-0657 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH).....	174.44	30.83
26 09 23 00-0658 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH).....	210.74	30.83
26 09 23 00-0659 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	252.30	30.83
26 09 23 00-0660 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	266.74	30.83
26 09 23 00-0661 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K).....	266.74	30.83
26 09 23 00-0662 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W).....	266.74	30.83
26 09 23 00-0663 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	279.97	30.83
26 09 23 00-0664 EA Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	451.10	44.53
26 09 23 00-0665 Nodes And Modules (26 09 23 00-0633)		
26 09 23 00-0666 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	228.64	30.83
26 09 23 00-0667 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	228.64	30.83
26 09 23 00-0668 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C).....	284.87	30.83
26 09 23 00-0669 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	284.87	30.83
26 09 23 00-0670 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	361.59	34.26
26 09 23 00-0671 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	361.59	34.26
26 09 23 00-0672 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH).....	434.86	34.26
26 09 23 00-0673 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH).....	445.09	34.26
26 09 23 00-0674 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	545.63	34.26
26 09 23 00-0675 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH).....	578.00	34.26
26 09 23 00-0676 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	610.38	34.26
26 09 23 00-0677 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,630.48	54.81
26 09 23 00-0678 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,605.84	61.66
26 09 23 00-0679 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	2,343.77	68.51
26 09 23 00-0680 Other Accessories (26 09 23 00-0633)		
26 09 23 00-0681 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	42.92	
26 09 23 00-0682 EA Pico® Wireless Control (Lutron® PJ).....	45.06	
26 09 23 00-0683 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	132.98	
26 09 23 00-0684 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	250.56	
26 09 23 00-0685 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	275.04	30.83
26 09 23 00-0686 EA seeTouch® QS Wallstation (Lutron® QSWS2).....	344.11	30.83
26 09 23 00-0687 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	344.11	30.83
26 09 23 00-0688 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	555.85	34.26
26 09 23 00-0689 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	755.22	34.26
26 09 23 00-0690 EA Control Interface (Lutron® QSE-CI-NWK-E).....	903.44	30.83
26 09 23 00-0691 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	896.64	30.83
26 09 23 00-0692 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	1,194.85	30.83
26 09 23 00-0693 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	2,426.78	957.79
26 09 23 00-0694 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	3,108.39	957.79
26 09 23 00-0695 Fixture Mounted Occupancy Sensors (Leviton) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0696 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	141.73	30.83
26 09 23 00-0697 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W).....	126.06	30.83
26 09 23 00-0698 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	154.68	30.83
26 09 23 00-0699 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	126.06	30.83
26 09 23 00-0700 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	189.98	13.69

26 Electrical
26 09 Instrumentation and Control for Electrical Systems
26 09 23 Lighting Control Devices



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 09 23 00-0701		Wireless Enabled Communication Devices For Streetlights (26 09 23) Note: Includes testing of new devices and certification.			
26 09 23 00-0702		Wireless Enabled Communication Nodes For Streetlights (Roam®) (26 09 23 00-0701) Note: For adapting light fixtures for use with a NEMA locking type photocontrol.			
26 09 23 00-0703	EA	120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	287.53		
26 09 23 00-0704	EA	480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	398.60		
26 09 23 00-0705		Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0701) Note: For adapting light fixtures for use with a NEMA locking type photocontrol.			
26 09 23 00-0706	EA	Retrofit Receptacle Kit (Roam® DUR103)	57.07		
26 09 23 00-0707	EA	Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	11,257.48		75.22
26 09 23 00-0708		Counter Mounted Consolets (26 09 23) Note: For adapting light fixtures for use with a NEMA locking type photocontrol.			
26 09 23 00-0709	EA	20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	638.82		171.03
26 09 23 00-0710		Lighting Console And Stations (26 09 23) Note: For adapting light fixtures for use with a NEMA locking type photocontrol.			
26 09 23 00-0711	EA	80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40).....	4,055.01		171.03
		<i>For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add</i>	85.86		
		<i>For Lighting Console Case (ETC ColorSourcePart 11866), Add</i>	915.47		
26 09 23 00-0712	EA	10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2)	2,792.59		102.62
26 09 23 00-0713		Theatre Lighting Console (26 09 23) Note: For adapting light fixtures for use with a NEMA locking type photocontrol.			
26 09 23 00-0714	EA	Theatre Lighting Console (ETC Colorsources 20)	2,955.62		205.24
26 09 23 00-0715		Emergency Lighting Controls (26 09 23) Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.			
26 09 23 00-0716		Emergency Lighting Control Units (Watt Stopper ELCU) (26 09 23 00-0715) Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.			
26 09 23 00-0717	EA	DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	204.36		34.26
26 09 23 00-0718	EA	1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	204.36		34.26
26 09 23 00-0719		Emergency Shunt Relays (Lighting Control & Design GR 2001™) (26 09 23 00-0715) Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.			
26 09 23 00-0720	EA	1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	346.77		47.96
26 09 23 00-0721	EA	2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	467.85		54.81
26 09 23 00-0722	EA	2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	624.99		61.66
		Note: Controls normal and emergency lighting from single-pole wall switch.			
26 09 23 00-0723		Photocells (26 09 23) Note: Controls normal and emergency lighting from single-pole wall switch.			
26 09 23 00-0724	EA	Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	96.56		
26 09 23 00-0725	EA	Wired Photocell For Lighting Fixtures (Intermac® K4021C).....	236.73		
26 09 23 00-0726		Outdoor Lighting Motion Sensors (26 09 23) Note: Controls normal and emergency lighting from single-pole wall switch.			
26 09 23 00-0727	EA	70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	122.44		34.26
26 09 23 00-0728	EA	70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	132.21		34.26
26 09 23 00-0729	EA	30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR).....	495.24		34.26
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55		
26 09 23 00-0730		Street Light Controls (26 09 23) Note: Controls normal and emergency lighting from single-pole wall switch.			
26 09 23 00-0731		Photo Controls (26 09 23 00-0730) Note: Controls normal and emergency lighting from single-pole wall switch.			
26 09 23 00-0732	EA	Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	105.38		
26 09 23 00-0733	EA	Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	119.07		
26 09 23 00-0734		Connector Node (26 09 23 00-0730) Note: Controls normal and emergency lighting from single-pole wall switch.			
26 09 23 00-0735	EA	Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	445.70		2.87

26 10 Medium-Voltage Electrical Distribution (26)



Electrical	26	
Medium-Voltage Electrical Distribution	26 10	26
Substations	26 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 11 Substations (26 10)

26 11 13 Primary Unit Substations (26 11)

26 11 13 00-0001	"Switchyard" Substation Primary Incoming Section <small>(26 11 13)</small>		
26 11 13 00-0002	Outdoor Oil Circuit Breakers "Switchyard" <small>(26 11 13 00-0001)</small>		
Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment			
26 11 13 00-0003	EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	58,467.81	2,349.08
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,433.63	
26 11 13 00-0004	EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	71,742.55	2,970.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,792.04	
26 11 13 00-0005	EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	81,138.12	2,970.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,792.04	
26 11 13 00-0006	EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	93,214.34	2,970.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,911.51	
26 11 13 00-0007	EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	105,773.63	3,661.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,205.59	
26 11 13 00-0008	Accessories For Outdoor Oil Circuit Breakers <small>(26 11 13 00-0001)</small>		
26 11 13 00-0009	EA Reclosure Relay, Adjustable, 3 Shot, #179.....	1,668.99	250.03
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.05	
26 11 13 00-0010	EA Overcurrent Relay, 1 Phase, #51/51N.....	559.72	181.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.74	
26 11 13 00-0011	EA Directional Overcurrent Relay, Three-Phase, Device No. 67.....	823.79	181.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	123.03	
26 11 13 00-0012	EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	652.40	181.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.74	
26 11 13 00-0013	EA Differential Relay Package, Complete, Device No. 87.....	2,440.84	612.58
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	369.89	
26 11 13 00-0014	"Switchyard", Substation Transformer Section <small>(26 11 13)</small>		
Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range			
26 11 13 00-0015	14.4 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0016	EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	34,023.70	2,349.08
	For 50 Hz Operation, Add	3,509.39	
	For Forced Air Cooling, Add	3,509.39	
	For External Control Panel, Add	877.35	
	For Internally Mounted Current Transformers And Linear Couplers, Add	292.45	
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,462.25	
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,655.62	
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,386.74	
26 11 13 00-0017	EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	38,989.76	2,943.26
	For 50 Hz Operation, Add	3,961.96	
	For Forced Air Cooling, Add	3,961.96	
	For External Control Panel, Add	990.49	
	For Internally Mounted Current Transformers And Linear Couplers, Add	330.16	
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,650.82	
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,127.04	
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,952.45	
26 11 13 00-0018	EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	59,870.55	4,145.43
	For 50 Hz Operation, Add	6,165.00	
	For Forced Air Cooling, Add	6,165.00	
	For External Control Panel, Add	1,541.25	
	For Internally Mounted Current Transformers And Linear Couplers, Add	513.75	
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,568.75	
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,421.87	
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,706.24	
26 11 13 00-0019	EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	86,309.27	4,892.63
	For 50 Hz Operation, Add	9,090.79	
	For Forced Air Cooling, Add	9,090.79	
	For External Control Panel, Add	2,272.70	
	For Internally Mounted Current Transformers And Linear Couplers, Add	757.57	
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,787.83	
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,469.57	
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,363.48	
26 11 13 00-0020	EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	106,362.83	6,331.63
	For 50 Hz Operation, Add	11,180.63	
	For Forced Air Cooling, Add	11,180.63	
	For External Control Panel, Add	2,795.16	
	For Internally Mounted Current Transformers And Linear Couplers, Add	931.72	
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,658.60	
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,646.49	
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,975.79	

26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 11	Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	38,143.62	3,178.17
For 50 Hz Operation, Add	3,860.42	
For External Control Panel, Add	965.10	
For Internally Mounted Current Transformers And Linear Couplers, Add	321.70	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,608.51	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,021.27	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,825.52	
For Forced Air Cooling, Add	2,573.61	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	43,616.28	3,178.17
For 50 Hz Operation, Add	4,368.37	
For External Control Panel, Add	1,092.09	
For Internally Mounted Current Transformers And Linear Couplers, Add	364.03	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,820.15	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,550.38	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,460.46	
For Forced Air Cooling, Add	2,912.24	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	69,640.17	4,698.16
For 50 Hz Operation, Add	7,209.92	
For External Control Panel, Add	1,802.48	
For Internally Mounted Current Transformers And Linear Couplers, Add	600.83	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,004.13	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,510.33	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,012.39	
For Forced Air Cooling, Add	4,806.61	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	93,301.34	6,331.63
For 50 Hz Operation, Add	9,613.25	
For External Control Panel, Add	2,403.31	
For Internally Mounted Current Transformers And Linear Couplers, Add	801.10	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,005.52	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,013.80	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,016.56	
For Forced Air Cooling, Add	6,408.83	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	115,070.52	6,331.63
For 50 Hz Operation, Add	12,225.55	
For External Control Panel, Add	3,056.39	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,018.80	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,093.98	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,734.95	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,281.94	
For Forced Air Cooling, Add	8,150.37	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	47,849.18	3,799.98
For 50 Hz Operation, Add	4,876.31	
For External Control Panel, Add	1,219.08	
For Internally Mounted Current Transformers And Linear Couplers, Add	406.36	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,031.80	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,079.49	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,095.39	
For Forced Air Cooling, Add	3,250.88	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	57,790.41	5,941.79
For 50 Hz Operation, Add	5,892.21	
For External Control Panel, Add	1,473.05	
For Internally Mounted Current Transformers And Linear Couplers, Add	491.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,455.09	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,137.72	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,365.26	
For Forced Air Cooling, Add	3,928.14	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	79,866.91	5,941.79
For 50 Hz Operation, Add	8,150.40	
For External Control Panel, Add	2,037.60	
For Internally Mounted Current Transformers And Linear Couplers, Add	679.20	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,396.00	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,490.00	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,188.00	
For Forced Air Cooling, Add	5,433.60	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	102,008.96	6,187.74
For 50 Hz Operation, Add	10,658.17	
For External Control Panel, Add	2,664.54	
For Internally Mounted Current Transformers And Linear Couplers, Add	888.18	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,440.90	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,102.26	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,322.71	
For Forced Air Cooling, Add	7,105.44	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	175,363.82	7,914.54
For 50 Hz Operation, Add	19,017.54	
For External Control Panel, Add	4,754.38	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,584.79	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,923.97	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,809.93	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	23,771.92	
For Forced Air Cooling, Add	12,678.36	

26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0034	EA		1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	72,972.26 7,714.03 1,928.51 642.84 3,214.18 8,035.45 9,642.54 5,142.69	4,421.80
26 11 13 00-0035	EA		2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	82,436.83 8,745.51 2,186.38 728.79 3,643.96 9,109.91 10,931.89 5,830.34	4,421.80
26 11 13 00-0036	EA		5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	113,974.86 12,243.35 3,060.84 1,020.28 5,101.40 12,753.49 15,304.19 8,162.24	5,941.79
26 11 13 00-0037	EA		7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	139,482.90 14,711.82 3,677.96 1,225.99 6,129.93 15,324.82 18,389.78 9,807.88	7,914.54
26 11 13 00-0038	EA		10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	197,186.94 21,636.31 5,409.08 1,803.03 9,015.13 22,537.82 27,045.39 14,424.21	7,914.54
26 11 13 00-0039 69 KV Nominal Primary <small>(26 11 13 00-0014)</small>					
26 11 13 00-0040	EA		1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	104,540.07 11,397.90 2,849.48 949.83 4,749.13 11,872.82 14,247.38 7,598.60	4,698.16
26 11 13 00-0041	EA		2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	120,233.26 12,994.36 3,248.59 1,082.86 5,414.32 13,535.79 16,242.95 8,662.91	5,941.79
26 11 13 00-0042	EA		5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	164,473.79 18,303.22 4,575.81 1,525.27 7,626.34 19,065.86 22,879.03 12,202.15	5,941.79
26 11 13 00-0043	EA		7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	174,730.66 18,941.56 4,735.39 1,578.46 7,892.32 19,730.79 23,676.95 12,627.70	7,914.54
26 11 13 00-0044	EA		10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	228,016.35 25,335.84 6,333.96 2,111.32 10,556.60 26,391.50 31,669.80 16,890.56	7,914.54
26 11 13 00-0045			Circuit Breakers Fluarc SF6 13.8 KV <small>(26 11 13)</small>		

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 11	Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,087.45	1,139.30
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	68,129.18	1,139.30
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	77,608.42	1,415.20
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	72,704.44	1,701.70
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	81,831.76	1,701.70
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	93,370.37	1,977.00
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	96,332.81	2,258.73
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	107,696.84	2,258.73
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	112,940.57	2,536.56

26 11 16 Secondary Unit Substations (26 11)

26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)

26 11 16 11-0001	Substation Primary Incoming Section (26 11 16 11)		
26 11 16 11-0002	Manual Transferring Fused Load Break Switches (26 11 16 11-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003	EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	33,076.92	1,673.02
26 11 16 11-0004	EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	38,048.22	1,673.02
26 11 16 11-0005	Automatic Transferring Fused Load Break Switches (26 11 16 11-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006	EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	46,659.77	1,673.02
26 11 16 11-0007	EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	49,895.13	1,673.02
26 11 16 11-0008	Accessories For Substation Fused Load Break Switches (26 11 16 11-0001)		
26 11 16 11-0009	EA Primary Lightning Arrestors Accessories, Secondary Distribution Section.....	7,068.59	
26 11 16 11-0010	EA Key Interlock Accessories, Secondary Distribution Section.....	688.04	
26 11 16 11-0011	Oil Filled Substation Transformers (26 11 16 11) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012	Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ (26 11 16 11-0011)		
26 11 16 11-0013	EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	13,759.42	1,036.36
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	818.07	
	For Control Power Transformer On Fans And Auxiliary, Add	350.60	
	For Internal Mounted Current Transformer And Linear Coupler, Add	116.87	
26 11 16 11-0014	EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	19,942.90	1,243.63
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,221.89	
	For Control Power Transformer On Fans And Auxiliary, Add	523.67	
	For Internal Mounted Current Transformer And Linear Coupler, Add	174.56	
26 11 16 11-0015	EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	22,547.55	1,381.81
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,384.87	
	For Control Power Transformer On Fans And Auxiliary, Add	593.52	
	For Internal Mounted Current Transformer And Linear Coupler, Add	197.84	
26 11 16 11-0016	EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	26,767.67	1,727.26
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,631.92	
	For Control Power Transformer On Fans And Auxiliary, Add	699.39	
	For Internal Mounted Current Transformer And Linear Coupler, Add	233.13	
26 11 16 11-0017	EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	30,048.36	2,141.81
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,803.53	
	For Control Power Transformer On Fans And Auxiliary, Add	772.94	
	For Internal Mounted Current Transformer And Linear Coupler, Add	257.65	
26 11 16 11-0018	EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	32,448.73	2,625.45
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,903.85	
	For Control Power Transformer On Fans And Auxiliary, Add	815.94	
	For Internal Mounted Current Transformer And Linear Coupler, Add	271.98	
26 11 16 11-0019	EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	38,078.12	3,178.17
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,220.52	
	For Control Power Transformer On Fans And Auxiliary, Add	951.65	
	For Internal Mounted Current Transformer And Linear Coupler, Add	317.22	
26 11 16 11-0020	EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	40,636.71	3,454.54
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,360.94	
	For Control Power Transformer On Fans And Auxiliary, Add	1,011.83	
	For Internal Mounted Current Transformer And Linear Coupler, Add	337.28	
26 11 16 11-0021	EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	45,352.35	3,799.98
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,642.67	
	For Control Power Transformer On Fans And Auxiliary, Add	1,132.57	
	For Internal Mounted Current Transformer And Linear Coupler, Add	377.52	
26 11 16 11-0022	EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	52,281.28	4,214.53
	For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,069.66	
	For Control Power Transformer On Fans And Auxiliary, Add	1,315.57	
	For Internal Mounted Current Transformer And Linear Coupler, Add	438.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	57,377.59 3,373.20 1,445.66 481.89	4,594.53
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	13,176.38 777.26 333.11 111.04	1,036.36
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	19,339.30 1,208.66 518.00 172.67	1,036.36
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	22,534.64 1,383.97 593.13 197.71	1,381.81
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	26,789.86 1,633.47 700.06 233.35	1,727.26
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	32,313.89 1,962.12 840.91 280.30	2,141.81
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	35,269.72 2,101.32 900.57 300.19	2,625.45
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	39,380.74 2,311.71 990.73 330.24	3,178.17
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	42,880.60 2,518.01 1,079.15 359.72	3,454.54
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	48,254.04 2,845.78 1,219.62 406.54	3,799.98
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers <small>(26 11 16 11-0011)</small>		
26 11 16 11-0035 EA Sudden Pressure Relay.....	3,542.19	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV).....	7,032.45	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole).....	4,630.60	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	25,697.51	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout.....	24,042.58	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab <small>(26 11 16 11-0011)</small>		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,275.05	1,233.98
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	5,000.82	1,422.80
26 11 16 11-0049 Dry Type Substation Transformer <small>(26 11 16 11)</small>		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	23,306.34 12,657.26 -527.39 4,862.09	1,105.45
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	23,444.52 12,657.26 -527.39 4,875.90	1,174.54
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	24,133.85 12,822.13 -534.26 4,977.81	1,381.81

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	26,632.26 14,155.36 -589.81 5,494.30	1,520.00
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	29,668.84 15,645.67 -651.90 6,096.02	1,796.36
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	34,364.92 18,131.69 -755.49 7,062.83	2,072.72
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	39,979.96 21,003.26 -875.14 8,198.65	2,487.27
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	47,079.85 24,931.56 -1,038.82 9,694.30	2,763.63
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	60,327.20 32,714.15 -1,363.09 12,575.55	2,901.81
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small> Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	22,557.72 12,208.09 -508.67 4,697.39	1,105.45
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	23,444.52 12,657.26 -527.39 4,875.90	1,174.54
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	24,133.85 12,822.13 -534.26 4,977.81	1,381.81
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	26,632.26 14,155.36 -589.81 5,494.30	1,520.00
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	29,668.84 15,645.67 -651.90 6,096.02	1,796.36
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	34,364.92 18,131.69 -755.49 7,062.83	2,072.72
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	39,979.96 21,003.26 -875.14 8,198.65	2,487.27
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	47,079.85 24,931.56 -1,038.82 9,694.30	2,763.63
26 11 16 11-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	60,327.20 32,714.15 -1,363.09 12,575.55	2,901.81
26 11 16 11-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	66,068.90 35,993.36 -1,499.72 13,805.56	3,039.99
26 11 16 11-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	73,522.05 40,299.43 -1,679.14 15,412.09	3,178.17
26 11 16 11-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	84,391.56 46,655.32 -1,943.97 17,770.22	3,316.35
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>		
26 11 16 11-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	25,131.87 13,586.76 -566.12 5,230.54	1,243.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	26,014.34	1,312.72
For Gas Filled Transformers, Add	14,033.33	
For Single Phase Transformers, Deduct	-584.72	
For Dry Type Unit, Add	5,408.10	
26 11 16 11-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	27,954.24	1,520.00
For Gas Filled Transformers, Add	14,948.55	
For Single Phase Transformers, Deduct	-622.86	
For Dry Type Unit, Add	5,785.13	
26 11 16 11-0077 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	29,572.05	1,658.18
For Gas Filled Transformers, Add	15,753.42	
For Single Phase Transformers, Deduct	-656.39	
For Dry Type Unit, Add	6,107.89	
26 11 16 11-0078 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	33,768.34	1,934.54
For Gas Filled Transformers, Add	17,939.56	
For Single Phase Transformers, Deduct	-747.48	
For Dry Type Unit, Add	6,964.75	
26 11 16 11-0079 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	37,495.12	2,210.90
For Gas Filled Transformers, Add	19,843.99	
For Single Phase Transformers, Deduct	-826.83	
For Dry Type Unit, Add	7,718.31	
26 11 16 11-0080 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	43,830.65	2,625.45
For Gas Filled Transformers, Add	23,147.86	
For Single Phase Transformers, Deduct	-964.49	
For Dry Type Unit, Add	9,012.64	
26 11 16 11-0081 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	52,810.73	2,901.81
For Gas Filled Transformers, Add	28,204.27	
For Single Phase Transformers, Deduct	-1,175.18	
For Dry Type Unit, Add	10,921.93	
26 11 16 11-0082 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	63,325.41	3,039.99
For Gas Filled Transformers, Add	34,347.26	
For Single Phase Transformers, Deduct	-1,431.14	
For Dry Type Unit, Add	13,201.99	
26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)		
26 11 16 11-0084 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	25,131.87	1,243.63
For Gas Filled Transformers, Add	13,586.76	
For Single Phase Transformers, Deduct	-566.12	
For Dry Type Unit, Add	5,230.54	
26 11 16 11-0085 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	26,014.34	1,312.72
For Gas Filled Transformers, Add	14,033.33	
For Single Phase Transformers, Deduct	-584.72	
For Dry Type Unit, Add	5,408.10	
26 11 16 11-0086 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	27,954.24	1,520.00
For Gas Filled Transformers, Add	14,948.55	
For Single Phase Transformers, Deduct	-622.86	
For Dry Type Unit, Add	5,785.13	
26 11 16 11-0087 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	29,572.05	1,658.18
For Gas Filled Transformers, Add	15,753.42	
For Single Phase Transformers, Deduct	-656.39	
For Dry Type Unit, Add	6,107.89	
26 11 16 11-0088 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	33,768.34	1,934.54
For Gas Filled Transformers, Add	17,939.56	
For Single Phase Transformers, Deduct	-747.48	
For Dry Type Unit, Add	6,964.75	
26 11 16 11-0089 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	33,167.85	2,210.90
For Gas Filled Transformers, Add	17,247.63	
For Single Phase Transformers, Deduct	-718.65	
For Dry Type Unit, Add	6,766.31	
26 11 16 11-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	34,940.75	2,625.45
For Gas Filled Transformers, Add	17,813.92	
For Single Phase Transformers, Deduct	-742.25	
For Dry Type Unit, Add	7,056.86	
26 11 16 11-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	42,625.46	2,901.81
For Gas Filled Transformers, Add	22,093.11	
For Single Phase Transformers, Deduct	-920.55	
For Dry Type Unit, Add	8,681.17	
26 11 16 11-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	50,123.96	3,039.99
For Gas Filled Transformers, Add	26,426.39	
For Single Phase Transformers, Deduct	-1,101.10	
For Dry Type Unit, Add	10,297.67	
26 11 16 11-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	55,799.39	3,178.17
For Gas Filled Transformers, Add	29,665.83	
For Single Phase Transformers, Deduct	-1,236.08	
For Dry Type Unit, Add	11,513.11	
26 11 16 11-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	65,070.86	3,316.35
For Gas Filled Transformers, Add	35,062.90	
For Single Phase Transformers, Deduct	-1,460.95	
For Dry Type Unit, Add	13,519.67	
26 11 16 11-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	79,150.41	3,454.54
For Gas Filled Transformers, Add	43,344.81	
For Single Phase Transformers, Deduct	-1,806.03	
For Dry Type Unit, Add	16,584.00	



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 12 Medium-Voltage Transformers (26 10)**26 12 13 Liquid-Filled, Medium-Voltage Transformers (26 12)****26 12 13 00-0001 Removal And Relocation Of Transformers (26 12 13)**

26 12 13 00-0002 EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer.....	1,409.22	
26 12 13 00-0003 EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,593.35	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent**Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)**

26 12 13 00-0006 EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,097.17	567.06
26 12 13 00-0007 EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,561.41	708.82
26 12 13 00-0008 EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	3,018.59	850.58
26 12 13 00-0009 EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	3,850.40	1,063.22
26 12 13 00-0010 EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	4,591.03	1,275.88
26 12 13 00-0011 EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	5,920.50	1,488.52
26 12 13 00-0012 EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	7,031.13	1,772.04

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent**Taps FCAN And FCBN. Rated To 5 KVA (26 12 13 00-0004)**

26 12 13 00-0014 EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,097.17	567.06
26 12 13 00-0015 EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,587.85	708.82
26 12 13 00-0016 EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,018.59	850.58
26 12 13 00-0017 EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,850.40	1,063.22
26 12 13 00-0018 EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,591.03	1,275.88
26 12 13 00-0019 EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	5,648.68	1,488.52
26 12 13 00-0020 EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	6,893.09	1,772.04

26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps**FCBN And FCAN (26 12 13 00-0004)**

26 12 13 00-0022 EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,066.31	567.06
26 12 13 00-0023 EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,477.66	708.82
26 12 13 00-0024 EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,935.77	850.58
26 12 13 00-0025 EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,831.29	1,063.22
26 12 13 00-0026 EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,510.33	1,275.88
26 12 13 00-0027 EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	5,699.64	1,488.52
26 12 13 00-0028 EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	6,905.84	1,772.04

26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent**Taps FCBN And FCAN (26 12 13 00-0004)**

26 12 13 00-0030 EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,209.56	567.06
26 12 13 00-0031 EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,625.32	708.82
26 12 13 00-0032 EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,322.59	850.58
26 12 13 00-0033 EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,175.64	1,063.22
26 12 13 00-0034 EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,896.35	1,275.88
26 12 13 00-0035 EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	6,270.55	1,488.52
26 12 13 00-0036 EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	7,827.46	1,772.04

26 12 13 00-0037 Transformer Platforms (26 12 13 00-0004)

26 12 13 00-0038 EA	Transformer Platforms, 75 - 167 KVA	4,301.98	957.61
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26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps**FCBN Auto FCAN (26 12 13 00-0004)**

26 12 13 00-0040 EA	10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,340.19	567.06
26 12 13 00-0041 EA	15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,743.92	708.82
26 12 13 00-0042 EA	25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,323.95	850.58
26 12 13 00-0043 EA	37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,173.97	1,063.22
26 12 13 00-0044 EA	50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	5,037.53	1,346.75
26 12 13 00-0045 EA	75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	6,274.71	1,488.52
26 12 13 00-0046 EA	100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	7,827.46	1,772.04
26 12 13 00-0047 EA	167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	10,302.35	2,268.21
26 12 13 00-0048 EA	250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	13,424.44	3,047.91
26 12 13 00-0049 EA	333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	15,682.97	3,544.09
26 12 13 00-0050 EA	500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	18,814.43	3,827.62

26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL (26 12 13 00-0004)

26 12 13 00-0052 EA	10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,097.17	694.35
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,561.41	867.87
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,018.01	1,040.40
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,851.78	1,303.80
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,589.72	1,561.80
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,918.72	1,818.97
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	7,031.13	2,169.83
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,097.17	694.35
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,587.85	867.87
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,018.01	1,040.40
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,851.78	1,303.80
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,589.72	1,561.80
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,646.90	1,818.97
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,893.09	2,169.83
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y <small>(26 12 13 00-0004)</small>		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,865.37	567.06
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,277.12	708.82
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,680.91	850.58
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,431.74	1,063.22
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,203.85	1,275.88
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,775.92	1,488.52
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,749.61	1,772.04
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,795.25	567.06
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,188.97	708.82
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,640.84	850.58
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,351.60	1,063.22
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,093.67	1,275.88
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,375.23	1,488.52
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,348.92	1,772.04
26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small>		
26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small>		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	7,500.05	1,984.69
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	8,796.05	2,126.45
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	11,461.83	2,693.50
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	14,774.61	3,402.32
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	19,804.87	3,827.62
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	29,002.57	5,103.48
26 12 16 Dry-Type, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 16 00-0001 Removal and Relocation of Transformers <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	573.45	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer.....	2,548.67	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers <small>(26 12 19)</small>		
Note: Designed for residential and multi-family buildings. UL listed.		
26 12 19 00-0002 Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled <small>(26 12 19 00-0001)</small>		
Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003 Primary, 4.16/4.8 KV Ground Y Or Delta <small>(26 12 19 00-0002)</small>		
Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	3,875.99	690.91
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,341.33	829.09
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	5,141.34	967.27
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	6,103.94	1,036.36

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 12 Medium-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,815.53	1,105.45
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	8,925.92	1,450.90
26 12 19 00-0010 Factory Modifications Material Cost Only (26 12 19 00-0002)		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications	597.22	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	627.51	
26 12 19 00-0013 EA Loadbreaker Inserts, Factory Modifications	690.26	
26 12 19 00-0014 Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001) Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
26 12 19 00-0015 Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014) Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,493.10	690.91
26 12 19 00-0017 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,167.52	690.91
26 12 19 00-0018 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,665.61	946.55
26 12 19 00-0019 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,889.88	946.55
26 12 19 00-0020 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	7,703.27	1,243.63
26 12 19 00-0021 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	9,332.10	1,243.63
26 12 19 00-0022 EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	14,263.83	1,727.26
26 12 19 00-0023 Factory Modifications Material Cost Only (26 12 19 00-0014)		
26 12 19 00-0024 EA Loadbreaker Current Limiting Fuse Factory Modifications	796.29	
26 12 19 00-0025 EA Lightning Arrestors, Factory Modifications	201.76	
26 12 19 00-0026 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	627.51	
26 12 19 00-0027 EA Loop Feed Air Switch, Factory Modifications	1,021.33	
26 12 19 00-0028 EA Loadbreaker Inserts (Two), Factory Modifications	272.64	
26 12 19 00-0029 EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	235.86	
26 12 19 00-0030 Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014) Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031 EA 25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,786.58	690.91
26 12 19 00-0032 EA 37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,264.85	690.91
26 12 19 00-0033 EA 50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,627.22	946.55
26 12 19 00-0034 EA 75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,654.53	946.55
26 12 19 00-0035 EA 100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	8,190.59	1,243.63
26 12 19 00-0036 EA 167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	10,190.42	1,243.77
26 12 19 00-0037 EA 250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	12,893.30	1,727.26
26 12 19 00-0038 Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001) Note: Conventional type.		
26 12 19 00-0039 13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038) Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040 EA 10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,286.23	478.01
26 12 19 00-0041 EA 37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,187.08	672.19
26 12 19 00-0042 EA 50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,312.73	1,075.51
26 12 19 00-0043 EA 100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,652.42	1,075.51
26 12 19 00-0044 EA 167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	14,484.46	1,762.65
26 12 19 00-0045 EA 250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,899.29	1,762.65
26 12 19 00-0046 Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)		
26 12 19 00-0047 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0048 EA 10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,208.09	507.88
26 12 19 00-0049 EA 15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,512.90	507.88
26 12 19 00-0050 EA 25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,094.95	717.01
26 12 19 00-0051 EA 37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,364.30	717.01

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 13	Medium-Voltage Switchgear



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0007 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	38,210.83 8,071.24	2,390.03
26 13 16 00-0008 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	34,997.28 7,347.33	2,390.03
26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0010 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	20,584.05 4,288.11	1,792.52
26 13 16 00-0011 EA 2,000 Amperes, 750 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	25,328.14 5,258.19	2,240.65
26 13 16 00-0012 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	35,409.20 7,423.13	2,688.79
26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0014 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	19,928.58 4,124.18	1,792.52
26 13 16 00-0015 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	27,285.73 5,699.78	1,792.52
26 13 16 00-0016 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	39,611.56 8,362.48	2,390.03
26 13 16 00-0017 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	25,083.38 5,186.40	2,390.03
26 13 16 00-0018 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	36,131.52 7,574.15	2,987.54
26 13 16 00-0019 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	50,276.63 10,640.92	2,987.54
26 13 16 00-0020 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	34,859.46 7,281.81	2,987.54
26 13 16 00-0021 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	48,045.90 10,139.79	2,987.54
26 13 16 00-0022 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	62,040.04 13,177.80	2,987.54
26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0024 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,369.93 1,264.16	978.42
26 13 16 00-0025 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,165.56 1,659.20	978.42
26 13 16 00-0026 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,947.03 1,786.81	1,299.58
26 13 16 00-0027 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,086.68 2,214.20	1,605.80
26 13 16 00-0028 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	14,720.90 3,013.73	1,605.80
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0030 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,010.83 1,606.08	1,493.77
26 13 16 00-0031 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	10,469.91 2,103.07	1,493.77
26 13 16 00-0032 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,799.76 3,232.21	1,493.77
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0034 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,305.52 1,650.29	1,269.70
26 13 16 00-0035 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,825.20 1,764.62	1,269.70
26 13 16 00-0036 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	12,553.08 2,541.08	1,568.46
26 13 16 00-0037 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,380.43 2,239.64	1,882.15
26 13 16 00-0038 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	13,829.37 2,778.41	1,882.15
26 13 16 00-0039 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,914.90 3,192.83	2,195.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0040 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	15,086.76 2,967.02	2,509.53
26 13 16 00-0041 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	16,764.84 3,336.20	2,509.53
26 13 16 00-0042 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	20,548.52 4,124.60	2,808.29
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections <small>(26 13 16 00-0001)</small>		
26 13 16 00-0044 EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,173.39 567.97	946.60
26 13 16 00-0045 EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,164.00 630.28	1,050.42
26 13 16 00-0046 EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,697.51 758.26	1,263.72
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	4,676.53	1,900.52
26 13 16 00-0048 EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,777.93	125.01
26 13 16 00-0049 EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	6,364.09	125.01
26 13 16 00-0050 EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	11,610.09	125.01
26 13 16 00-0051 EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,135.53	125.01
26 13 16 00-0052 EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,968.17	125.01
26 13 16 00-0053 EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	13,549.65	125.01
26 13 16 00-0054 EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	2,193.36	125.01
26 13 16 00-0055 EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	2,472.16	125.01
26 13 16 00-0056 EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	3,727.52	125.01
26 13 16 00-0057 EA Overcurrent Phase Protection, Time And Instantaneous Device 67	2,405.10	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0058 EA AC Ammeter With Switch.....	973.41	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0059 EA AC Voltmeter With Switch And Potential Transformer	973.41	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0060 EA Indicating Wattmeter.....	1,413.46	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0061 EA Indicating Varmeter.....	1,657.60	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element	1,060.82	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N.....	2,341.73	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87	4,520.23	125.01
26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary	677.28	125.01
26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses.....	3,034.28	125.01
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear <small>(26 13)</small>		
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV <small>(26 13 19)</small>		
26 13 19 00-0002 EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	48,918.18	1,867.21
26 13 19 00-0003 EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	54,068.93	2,360.15
26 13 19 00-0004 EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	61,408.27	2,360.15
26 13 19 00-0005 EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	55,967.16	1,867.21
26 13 19 00-0006 EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,861.98	1,867.21
26 13 19 00-0007 EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	71,667.28	2,195.84
26 13 19 00-0008 EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	74,047.18	2,509.53
26 13 19 00-0009 EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	80,977.02	2,509.53
26 13 19 00-0010 EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	88,512.35	2,823.22
26 13 29 Medium-Voltage Compartmentalized Switchgear <small>(26 13)</small>		
26 13 29 00-0001 Substation Secondary Distribution Section <small>(26 13 29)</small>		
Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker <small>(26 13 29 00-0001)</small>		
Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	15,629.19	1,180.84
26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	24,830.25	1,785.33
26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	33,630.51	2,193.00
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	55,521.58	2,544.44
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	71,266.27	2,895.88
26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker <small>(26 13 29 00-0001)</small>		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,924.74	358.47
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,001.40	358.47
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,467.13	527.16
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	14,905.01	527.16
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	24,830.88	773.17
26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering <small>(26 13 29 00-0001)</small>		
Note: No provisions for future breaker.		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 13 Medium-Voltage Switchgear**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0015	EA		600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,215.03 229.09	400.65
26 13 29 00-0016	EA		3,000 Amperes, Blank Section Filler, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,999.08 268.93	400.65
26 13 29 00-0017	EA		4,000 Amperes, Blank Section Filler, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,267.54 386.59	618.53
26 13 29 00-0018			Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019	EA		Short Time Delay Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,682.38 75.01	
26 13 29 00-0020	EA		Key Interlock Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,338.36 75.01	
26 13 29 00-0021	EA		Ammeter And Switch Complete Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,954.24 75.01	125.01
26 13 29 00-0022	EA		Voltmeter And Switch Complete Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,954.24 75.01	125.01
26 13 29 00-0023	EA		Wattmeter - Complete Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,187.53 75.01	125.01
26 13 29 00-0024	EA		Watt-hour Meter - Complete Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,680.46 75.01	125.01
26 13 29 00-0025	EA		Circuit Breaker Lifting Device Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,987.49 85.52	142.57
26 13 29 00-0026	EA		Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,874.18 1,266.92	2,111.51
26 13 29 00-0027	EA		Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	1,864.13	125.01
26 13 29 00-0028	EA		Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	2,166.32	125.01
26 13 29 00-0029	EA		Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,152.75 37.50	62.51
26 13 29 00-0030	EA		3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,357.31 75.01	125.01
26 13 29 00-0031	EA		3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	1,100.83	62.51
26 18 Medium-Voltage Circuit Protection Devices (26 10)					
26 18 36 Medium-Voltage Enclosed Fuses (26 18)					
26 18 36 00-0001			Sectionalizing Switch (26 18 36)		
26 18 36 00-0002			Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001) Note: 15 KV - 25 KV.		
26 18 36 00-0003			Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004	EA		3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	26,272.61	1,036.36
26 18 36 00-0005	EA		3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	29,481.17	1,036.36
26 20 Low-Voltage Electrical Distribution (26)					
26 21 Low-Voltage Electrical Service Entrance (26 20)					
			See CSI section 26 05 13 00-0000 for wire and cables.		
26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)					
26 21 13 00-0001			Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002			600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003			Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004	LF		#6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.07	3.55
26 21 13 00-0005	LF		#4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.80	4.21
26 21 13 00-0006	LF		#2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.34	4.74
26 21 13 00-0007	LF		1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.85	5.98
26 21 13 00-0008			Aluminum Triplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0009	LF		#6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.85	4.21
26 21 13 00-0010	LF		#4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.29	4.74
26 21 13 00-0011	LF		#2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.53	5.98
26 21 13 00-0012	LF		1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	19.11	7.29
26 21 13 00-0013	LF		2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	25.16	9.64
26 21 13 00-0014	LF		4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	31.48	11.95
26 21 13 00-0015	LF		336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	39.00	14.23
26 21 13 00-0016			Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017	LF		#6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.30	4.74
26 21 13 00-0018	LF		#4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.53	5.98
26 21 13 00-0019	LF		#2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	19.95	7.66
26 21 13 00-0020	LF		1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	25.41	9.64
26 21 13 00-0021	LF		2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	28.19	10.67



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Electrical Service Entrance	26 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21	13 00-0022	LF	3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	31.91	11.95
26 21	13 00-0023	LF	4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	37.83	14.23
26 21	13 00-0024	LF	336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	43.66	15.73
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)					
26 21	13 00-0026	EA	1/2" Weatherproof Conduit Hubs	62.66	24.08
26 21	13 00-0027	EA	3/4" Weatherproof Conduit Hubs	71.41	27.36
26 21	13 00-0028	EA	1" Weatherproof Conduit Hubs	82.26	30.65
26 21	13 00-0029	EA	1-1/4" Weatherproof Conduit Hubs	113.72	41.05
26 21	13 00-0030	EA	1-1/2" Weatherproof Conduit Hubs	124.56	44.34
26 21	13 00-0031	EA	2" Weatherproof Conduit Hubs	157.43	51.45
26 21	13 00-0032	EA	2-1/2" Weatherproof Conduit Hubs	201.00	58.01
26 21	13 00-0033	EA	3" Weatherproof Conduit Hubs	255.66	68.41
26 21	13 00-0034	EA	4" Weatherproof Conduit Hubs	462.25	136.83
26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)					
26 21	13 00-0036	EA	1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service	67.78	24.08
26 21	13 00-0037	EA	3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service	77.54	27.36
26 21	13 00-0038	EA	1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	88.27	30.65
26 21	13 00-0039	EA	1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	118.52	41.05
26 21	13 00-0040	EA	1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	132.49	44.34
26 21	13 00-0041	EA	2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service	169.08	51.45
26 21	13 00-0042	EA	2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service	263.43	58.01
26 21	13 00-0043	EA	3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service	301.63	68.41
26 21	13 00-0044	EA	4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service	513.86	136.83
26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)					
26 21	13 00-0046	EA	1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	66.12	24.08
26 21	13 00-0047	EA	3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	74.76	27.36
26 21	13 00-0048	EA	1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service	84.52	30.51
26 21	13 00-0049	EA	1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	112.58	41.05
26 21	13 00-0050	EA	1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	124.47	44.34
26 21	13 00-0051	EA	2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	146.15	51.45
26 21	13 00-0052	EA	2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	220.43	58.01
26 21	13 00-0053	EA	3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	280.00	68.41
26 21	13 00-0054	EA	3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	398.85	102.62
26 21	13 00-0055	EA	4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	488.13	136.83
26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)					
26 21	13 00-0057	EA	1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	63.43	24.08
26 21	13 00-0058	EA	3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	72.36	27.36
26 21	13 00-0059	EA	1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	81.70	30.51
26 21	13 00-0060	EA	1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	109.08	41.05
26 21	13 00-0061	EA	1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	118.39	44.34
26 21	13 00-0062	EA	2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	141.98	51.45
26 21	13 00-0063	EA	2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	206.56	58.01
26 21	13 00-0064	EA	3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	235.22	68.41
26 21	13 00-0065	EA	3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	387.75	102.62
26 21	13 00-0066	EA	4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	531.20	136.83
26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)					
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)					
Note: Excludes excavation and backfill.					
26 21	16 00-0002	MLF	#6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	3,707.86	1,327.81
26 21	16 00-0003	MLF	#4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,030.94	1,405.94
26 21	16 00-0004	MLF	#2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,450.23	1,493.77
26 21	16 00-0005	MLF	1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,756.96	1,493.77
26 21	16 00-0006	MLF	2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,165.26	1,593.41
26 21	16 00-0007	MLF	3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	6,034.66	1,838.53
26 21	16 00-0008	MLF	4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	7,652.46	2,390.03
26 22 Low-Voltage Transformers (26 20)					
26 22 13 Low-Voltage Distribution Transformers (26 22)					
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13)					
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.					
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)					
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.					
26 22	13 00-0003	EA	1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	914.79	350.16

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0004	EA		3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,166.89	420.19
26 22 13 00-0005	EA		5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,342.33	438.40
26 22 13 00-0006	EA		7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,519.11	455.21
26 22 13 00-0007	EA		10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,934.56	490.22
26 22 13 00-0008	EA		15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,221.75	525.24
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	58.56	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	87.85	
26 22 13 00-0009	EA		25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,413.29	560.26
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	64.64	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	96.96	
26 22 13 00-0010	EA		37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,465.71	630.29
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	60.26	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	90.38	
26 22 13 00-0011	EA		50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,867.06	700.32
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	73.32	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	109.98	
26 22 13 00-0012	EA		75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,668.52	840.39
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	99.39	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	149.08	
26 22 13 00-0013	EA		100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	4,531.76	980.45
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	128.54	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	192.81	
26 22 13 00-0014	EA		167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	6,785.41	1,260.58
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	213.21	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	319.82	
26 22 13 00-0015	EA		250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	11,171.12	1,540.70
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	404.49	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	606.73	
26 22 13 00-0016	EA		333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	16,553.15	1,750.80
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	652.58	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	978.87	
26 22 13 00-0017			240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers <small>(26 22 13 00-0001)</small>		
			Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018	EA		3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,067.08	420.19
26 22 13 00-0019	EA		5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,182.39	437.71
26 22 13 00-0020	EA		7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,340.32	455.21
26 22 13 00-0021	EA		10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,514.15	490.22
26 22 13 00-0022			240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers <small>(26 22 13 00-0001)</small>		
			Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023	EA		15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,221.74	525.24
26 22 13 00-0024	EA		25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,413.29	560.26
26 22 13 00-0025			1 Phase Mounting Brackets <small>(26 22 13 00-0001)</small>		
26 22 13 00-0026	EA		1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	641.19	250.03
26 22 13 00-0027			1 Phase Weathershields <small>(26 22 13 00-0001)</small>		
			Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028	EA		37.5 KVA 1 Phase Weathershields, Set Of 2.....	42.19	
26 22 13 00-0029	EA		50 KVA 1 Phase Weathershields, Set Of 2.....	53.78	
26 22 13 00-0030	EA		75 KVA 1 Phase Weathershields, Set Of 2.....	64.13	
26 22 13 00-0031	EA		100 KVA 1 Phase Weathershields, Set Of 2.....	76.51	
26 22 13 00-0032	EA		167 KVA 1 Phase Weathershields, Set Of 2.....	103.51	
26 22 13 00-0033	EA		250 KVA 1 Phase Weathershields, Set Of 2.....	123.76	
26 22 13 00-0034	EA		333 KVA 1 Phase Weathershields, Set Of 2.....	151.89	
26 22 13 00-0035			Packaged Power Supply <small>(26 22 13 00-0001)</small>		
			Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036	EA		5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	1,495.70	437.71
26 22 13 00-0037	EA		7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	1,635.72	455.21
26 22 13 00-0038	EA		10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	1,768.30	490.22
26 22 13 00-0039	EA		15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	2,073.02	525.24
26 22 13 00-0040	EA		25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	2,645.72	560.26
26 22 13 00-0041			240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade <small>(26 22 13 00-0001)</small>		
26 22 13 00-0042	EA		0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,097.22	315.15
26 22 13 00-0043	EA		1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,426.03	350.16
26 22 13 00-0044	EA		2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,678.61	420.19
26 22 13 00-0045	EA		5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,820.51	437.71
26 22 13 00-0046	EA		7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	2,001.79	455.21
26 22 13 00-0047	EA		10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	2,454.38	490.22
26 22 13 00-0048	EA		15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	3,039.72	525.24



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0049				1 Phase, 208/600 Volt, Dry General Purpose Transformer <small>(26 22 13 00-0001)</small>		
26 22 13 00-0050	EA			15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,582.42	525.24
26 22 13 00-0051	EA			25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,736.37	560.26
26 22 13 00-0052	EA			30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,899.26	595.27
26 22 13 00-0053	EA			37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	4,940.41	630.29
26 22 13 00-0054	EA			45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	5,147.53	665.30
26 22 13 00-0055	EA			50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	6,617.52	700.32
26 22 13 00-0056				3 Phase General Purpose "Dry Type" Transformer <small>(26 22 13)</small> Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0057				Packaged Power Supply <small>(26 22 13 00-0056)</small> Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058	EA			15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	5,984.60	1,505.69
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	148.66	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	222.99	
26 22 13 00-0059	EA			22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	6,905.93	1,610.74
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	184.22	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	276.33	
26 22 13 00-0060	EA			30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	8,022.37	1,750.80
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	226.04	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	339.06	
26 22 13 00-0061				Drive Isolation Transformers <small>(26 22 13 00-0056)</small> Note: Only use in step-up applications.		
26 22 13 00-0062				230 Volt Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0063	EA			7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,752.01	560.26
26 22 13 00-0064	EA			11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,314.22	595.27
26 22 13 00-0065	EA			15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,482.69	630.29
26 22 13 00-0066	EA			20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,191.89	665.30
26 22 13 00-0067	EA			27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,433.02	735.34
26 22 13 00-0068	EA			34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,969.45	805.37
26 22 13 00-0069	EA			40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,705.37	875.40
26 22 13 00-0070	EA			51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,754.13	980.45
26 22 13 00-0071	EA			63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,334.71	1,015.46
26 22 13 00-0072	EA			75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,469.16	1,050.48
26 22 13 00-0073	EA			93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,616.83	1,085.50
26 22 13 00-0074	EA			118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,181.96	1,330.61
26 22 13 00-0075	EA			145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,599.06	1,400.64
26 22 13 00-0076	EA			175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	16,556.89	1,470.68
26 22 13 00-0077	EA			220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,142.38	1,750.80
26 22 13 00-0078	EA			275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	26,369.04	2,065.95
26 22 13 00-0079	EA			330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	27,952.08	2,276.04
26 22 13 00-0080	EA			440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	33,727.61	2,521.15
26 22 13 00-0081	EA			550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	41,241.32	2,801.29
26 22 13 00-0082				208V Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0083	EA			7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,885.95	560.26
26 22 13 00-0084	EA			11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,473.22	595.27
26 22 13 00-0085	EA			15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,646.69	630.29
26 22 13 00-0086	EA			20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,388.43	665.30
26 22 13 00-0087	EA			27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,634.70	735.34
26 22 13 00-0088	EA			30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,121.26	770.35
26 22 13 00-0089	EA			45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,027.59	910.41
26 22 13 00-0090	EA			51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,049.01	980.45
26 22 13 00-0091	EA			63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,655.58	1,015.46
26 22 13 00-0092	EA			75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,844.20	1,050.48
26 22 13 00-0093	EA			93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,097.63	1,085.50
26 22 13 00-0094	EA			118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,717.47	1,330.61
26 22 13 00-0095	EA			145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,199.57	1,400.64
26 22 13 00-0096	EA			175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,249.92	1,470.68
26 22 13 00-0097	EA			220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,989.40	1,750.80
26 22 13 00-0098				480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0099	EA			9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,870.19	577.77
26 22 13 00-0100	EA			15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,613.30	630.29
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	117.64	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	176.45	
26 22 13 00-0101				480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0102 EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	4,125.10	770.35
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	129.22	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	193.83	
For K4 Factor Rating, Add	1,809.08	
For K13 Factor Rating, Add	2,584.40	
For K20 Factor Rating, Add	3,359.72	
26 22 13 00-0103 EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	4,875.23	840.39
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	159.72	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	239.58	
For K4 Factor Rating, Add	2,236.12	
For K13 Factor Rating, Add	3,194.46	
For K20 Factor Rating, Add	4,152.80	
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	5,134.31	910.41
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	165.67	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	248.51	
For K4 Factor Rating, Add	2,319.43	
For K13 Factor Rating, Add	3,313.47	
For K20 Factor Rating, Add	4,307.51	
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	6,489.67	980.45
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	226.44	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	339.66	
For K4 Factor Rating, Add	3,170.14	
For K13 Factor Rating, Add	4,528.77	
For K20 Factor Rating, Add	5,887.40	
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	6,497.72	1,050.48
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	219.84	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	329.76	
For K4 Factor Rating, Add	3,077.73	
For K13 Factor Rating, Add	4,396.76	
For K20 Factor Rating, Add	5,715.79	
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	8,032.99	1,260.58
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	275.59	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	413.39	
For K4 Factor Rating, Add	3,858.29	
For K13 Factor Rating, Add	5,511.84	
For K20 Factor Rating, Add	7,165.39	
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	10,152.18	1,400.64
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	367.54	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	551.32	
For K4 Factor Rating, Add	5,145.62	
For K13 Factor Rating, Add	7,350.89	
For K20 Factor Rating, Add	9,556.16	
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	13,658.23	1,750.80
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	507.83	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	761.75	
For K4 Factor Rating, Add	7,109.64	
For K13 Factor Rating, Add	10,156.63	
For K20 Factor Rating, Add	13,203.62	
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	16,691.70	2,171.00
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	617.49	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	926.23	
For K4 Factor Rating, Add	8,644.80	
For K13 Factor Rating, Add	12,349.71	
For K20 Factor Rating, Add	16,054.62	
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	23,406.59	2,661.22
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	904.21	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,356.31	
For K4 Factor Rating, Add	12,658.91	
For K13 Factor Rating, Add	18,084.15	
For K20 Factor Rating, Add	23,509.40	
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	50,554.33	3,178.17
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,205.57	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,308.35	
For K4 Factor Rating, Add	30,877.97	
For K13 Factor Rating, Add	44,111.38	
For K20 Factor Rating, Add	57,344.79	
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	65,731.79	3,501.60
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,936.43	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	4,404.64	
For K4 Factor Rating, Add	41,110.01	
For K13 Factor Rating, Add	58,728.58	
For K20 Factor Rating, Add	76,347.15	
26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,421.89	542.74
For K4 Factor Rating, Add	935.47	
For K13 Factor Rating, Add	1,336.39	
For K20 Factor Rating, Add	1,737.31	
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,870.19	577.77
For K4 Factor Rating, Add	1,200.26	
For K13 Factor Rating, Add	1,714.66	
For K20 Factor Rating, Add	2,229.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,613.30	630.29
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	117.64	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	176.45	
For K4 Factor Rating, Add	1,646.90	
For K13 Factor Rating, Add	2,352.72	
For K20 Factor Rating, Add	3,058.54	
26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps		
(26 22 13 00-0056)		
26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	6,460.21	770.35
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	245.98	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	368.96	
For K4 Factor Rating, Add	3,443.66	
For K13 Factor Rating, Add	4,919.51	
For K20 Factor Rating, Add	6,395.36	
26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	7,295.27	910.41
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	273.72	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	410.58	
For K4 Factor Rating, Add	3,832.10	
For K13 Factor Rating, Add	5,474.43	
For K20 Factor Rating, Add	7,116.76	
26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	10,426.92	1,050.48
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	416.30	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	624.45	
For K4 Factor Rating, Add	5,828.17	
For K13 Factor Rating, Add	8,325.96	
For K20 Factor Rating, Add	10,823.75	
26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	13,023.17	1,260.58
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	525.10	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	787.65	
For K4 Factor Rating, Add	7,351.41	
For K13 Factor Rating, Add	10,502.02	
For K20 Factor Rating, Add	13,652.63	
26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	15,550.03	1,400.64
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	637.44	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	956.16	
For K4 Factor Rating, Add	8,924.12	
For K13 Factor Rating, Add	12,748.74	
For K20 Factor Rating, Add	16,573.36	
26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	19,881.25	1,750.80
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	818.98	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,228.47	
For K4 Factor Rating, Add	11,465.76	
For K13 Factor Rating, Add	16,379.65	
For K20 Factor Rating, Add	21,293.55	
26 22 13 00-0125 EA 300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	24,221.62	2,171.00
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	993.98	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,490.97	
For K4 Factor Rating, Add	13,915.74	
For K13 Factor Rating, Add	19,879.63	
For K20 Factor Rating, Add	25,843.52	
26 22 13 00-0126 EA 500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	37,973.67	2,661.22
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,632.56	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,448.84	
For K4 Factor Rating, Add	22,855.86	
For K13 Factor Rating, Add	32,651.23	
For K20 Factor Rating, Add	42,446.60	
26 22 13 00-0127 3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0056)		
26 22 13 00-0128 3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0127)		
Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,424.17	630.29
26 22 13 00-0130 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	4,967.94	770.35
26 22 13 00-0131 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,039.63	910.41
26 22 13 00-0132 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,866.06	1,050.48
26 22 13 00-0133 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	12,956.66	1,260.58
26 22 13 00-0134 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	15,608.22	1,400.64
26 22 13 00-0135 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	18,291.30	1,750.80
26 22 13 00-0136 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	28,355.51	2,171.00
26 22 13 00-0137 3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0127)		
Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,858.55	630.29
26 22 13 00-0139 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,653.80	770.35
26 22 13 00-0140 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,082.98	910.41
26 22 13 00-0141 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	10,217.01	1,050.48
26 22 13 00-0142 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	15,043.35	1,260.58
26 22 13 00-0143 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	18,170.86	1,400.64
26 22 13 00-0144 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	21,248.82	1,750.80
26 22 13 00-0145 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	33,158.63	2,171.00

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 22 13 00-0146		NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0147		Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small>		
		Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0148		150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0149	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,443.16	621.81
26 22 13 00-0150	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,200.94	759.99
26 22 13 00-0151	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,054.03	898.17
26 22 13 00-0152	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,688.67	1,036.36
26 22 13 00-0153	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,866.77	1,243.63
26 22 13 00-0154	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,935.62	1,381.81
26 22 13 00-0155	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,438.86	1,727.26
26 22 13 00-0156	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	20,159.99	2,141.81
26 22 13 00-0157		115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0158	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,104.94	621.81
26 22 13 00-0159	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,002.56	759.99
26 22 13 00-0160	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,031.54	898.17
26 22 13 00-0161	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,073.68	1,036.36
26 22 13 00-0162	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,296.31	1,243.63
26 22 13 00-0163	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,387.22	1,381.81
26 22 13 00-0164	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,734.37	1,727.26
26 22 13 00-0165	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	24,922.90	2,141.81
26 22 13 00-0166		80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0167	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,764.05	621.81
26 22 13 00-0168	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,806.40	759.99
26 22 13 00-0169	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,009.07	898.17
26 22 13 00-0170	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,456.46	1,036.36
26 22 13 00-0171	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,099.94	1,243.63
26 22 13 00-0172	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,838.82	1,381.81
26 22 13 00-0173	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	21,029.89	1,727.26
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	29,685.81	2,141.81
26 22 13 00-0175		Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small>		
		Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0177	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,543.60	621.81
26 22 13 00-0178	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,539.19	759.99
26 22 13 00-0179	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,681.74	898.17
26 22 13 00-0180	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,995.53	1,036.36
26 22 13 00-0181	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,126.65	1,243.63



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Low-Voltage Transformers	26 22

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 22 13 00-0182	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	15,106.23	1,381.81
26 22 13 00-0183	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	20,043.46	1,727.26
26 22 13 00-0184	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	28,262.95	2,141.81
26 22 13 00-0185		115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,202.71	621.81
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,343.04	759.99
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,659.27	898.17
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	10,380.54	1,036.36
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	15,635.94	1,243.63
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,617.52	1,381.81
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,022.37	1,727.26
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	37,056.19	2,141.81
26 22 13 00-0194		80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,864.03	621.81
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,146.87	759.99
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,636.78	898.17
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,763.32	1,036.36
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	18,454.95	1,243.63
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	23,707.98	1,381.81
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	29,999.04	1,727.26
26 22 13 00-0202	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	44,079.20	2,141.81
26 22 13 00-0203		3 Phase Weathershields <small>(26 22 13 00-0056)</small> Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204	EA	45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	571.55	
26 22 13 00-0205	EA	150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	970.60	
26 22 13 00-0206	EA	500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	970.60	
26 22 13 00-0207		Three Phase Mounting Brackets <small>(26 22 13 00-0056)</small>		
26 22 13 00-0208	EA	3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	805.16	250.03
26 22 13 00-0209		Pad Mounted Commercial Type Distribution Transformers UL Listed <small>(26 22 13)</small>		
26 22 13 00-0210		Distribution 3 Phase Oil Filled Transformer <small>(26 22 13 00-0209)</small> Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211		Factory Modifications <small>(26 22 13 00-0210)</small> Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212	EA	Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification.....	1,047.29	
26 22 13 00-0213	EA	Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification.....	170.30	
26 22 13 00-0214	EA	Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	681.21	
26 22 13 00-0215	EA	Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification.....	1,962.60	
26 22 13 00-0216	EA	Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification.....	240.43	
26 22 13 00-0217	EA	Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification.....	190.34	
26 22 13 00-0218		Accessories For Transformer Liquid Containment Area <small>(26 22 13 00-0210)</small> Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219	EA	Containment Area For 75 KVA.....	5,556.58	2,063.15
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,375.46	
26 22 13 00-0220	EA	Containment Area For 112.5 KVA.....	5,556.58	2,063.15
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,375.46	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 22	Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0221 EA Containment Area For 150 KVA.....	5,556.58	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,375.46	
26 22 13 00-0222 EA Containment Area For 225 KVA.....	5,556.58	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,375.46	
26 22 13 00-0223 EA Containment Area For 300 KVA.....	5,549.19	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,373.24	
26 22 13 00-0224 EA Containment Area For 500 KVA.....	5,549.19	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,373.24	
26 22 13 00-0225 EA Containment Area For 750 KVA.....	5,577.24	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,373.24	
26 22 13 00-0226 EA Containment Area For 1,000 KVA.....	5,983.96	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,373.24	
26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL <small>(26 22 13 00-0210)</small>		
<i>Note: Rated to 5 KVA.</i>		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,849.99	1,658.18
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,451.05	1,658.18
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,851.76	1,658.18
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,053.89	1,658.18
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,367.72	2,487.27
26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,768.43	2,487.27
26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	16,576.95	2,487.27
26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,309.90	3,316.35
26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	26,519.13	3,316.35
26 22 13 00-0237 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL <small>(26 22 13 00-0210)</small>		
<i>Note: Rated to 5 KVA.</i>		
26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,050.34	1,658.18
26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,851.76	1,658.18
26 22 13 00-0240 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,052.11	1,658.18
26 22 13 00-0241 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,252.47	1,658.18
26 22 13 00-0242 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,367.72	2,487.27
26 22 13 00-0243 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	12,169.14	2,487.27
26 22 13 00-0244 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	16,576.95	2,487.27
26 22 13 00-0245 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,510.26	3,316.35
26 22 13 00-0246 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	26,519.13	3,316.35
26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt <small>(26 22 13 00-0209)</small>		
<i>Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.</i>		
26 22 13 00-0248 EA 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,485.10	2,183.16
26 22 13 00-0249 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	15,029.20	2,577.26
26 22 13 00-0250 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	17,283.31	3,149.98
26 22 13 00-0251 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	20,271.54	3,544.09
26 22 13 00-0252 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	23,915.65	3,730.51
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	30,432.11	5,450.81
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	35,346.81	6,166.71
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	43,318.50	7,088.18
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	47,224.31	7,442.58
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	50,593.56	8,293.45
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	57,072.25	8,860.50
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	49,872.00	6,158.05
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	60,798.04	7,081.79
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	68,443.10	7,454.47
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	73,171.57	8,331.50
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	81,163.81	8,583.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase (26 22 13 00-0209)

Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.

26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	21,378.97	2,577.26
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	23,556.38	3,149.98
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	27,384.79	3,544.09
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	32,289.19	3,730.51
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	40,264.16	5,450.81
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	49,917.89	6,166.71
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	60,150.52	7,088.18
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	67,743.32	7,442.58

26 22 13 00-0274 Foam Core Poly Transformer Pads (26 22 13)

26 22 13 00-0275 EA Single Phase Foam Core Poly Pads.....	201.40	45.71
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Note: Excludes site prep.

26 24 Switchboards and Panelboards (26 24)

26 24 13 Switchboards (26 24)

Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.

26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)

26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)

Note: Copper bus, non-metering type, with fuses.

26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,412.54	1,196.82
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,865.79	1,265.92
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,662.34	1,436.00
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,251.57	1,539.44
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,973.18	1,641.37
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	14,437.77	1,745.23
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,260.99	1,196.82
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,653.91	1,265.92
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,168.22	1,437.23
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,404.34	1,539.44
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,973.18	1,643.02
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,437.77	1,745.23
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	17,262.03	1,824.58
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	19,537.51	1,954.71
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	22,994.66	2,107.14
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,076.35	1,060.41
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,382.87	1,128.96
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,877.00	1,299.58
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,167.35	1,354.17
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,423.29	1,403.03
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,835.18	1,504.28
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,225.13	1,607.45

26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	358.82	41.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker.....	527.19	65.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.41	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	1,397.67	119.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.83	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	2,463.21	155.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.59	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	4,421.52	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	7,004.74	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	11,376.59	682.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	409.66	

26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)

26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)

Note: Copper bus, non-metering type, with fuses.

26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,229.23	1,552.98
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,932.28	1,552.98
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	10,064.37	2,018.20
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	11,367.82	2,018.20

26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,421.52 229.83	383.12
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,004.74 229.83	383.12
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,376.59 409.66	682.77
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>		
26 24 13 00-0101 Incoming Service Section Main Device Only <small>(26 24 13 00-0100)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,750.72	1,641.37
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,293.99	1,745.23
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,781.90	1,948.00
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,585.82	2,085.79
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,191.19	1,641.37
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,522.59	1,745.23
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	10,780.99	1,950.20
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,494.21	2,085.79
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,132.28	2,224.13
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,671.98	2,362.32
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,210.08	1,060.41
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,570.99	1,128.96
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,158.53	1,299.58
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,460.35	1,354.17
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,750.86	1,403.03
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,151.16	1,504.28
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,557.20	1,607.45
26 24 13 00-0119 Branch Breaker Units <small>(26 24 13 00-0100)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	728.84 25.04	41.73
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	845.58 39.41	65.68
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,533.63 71.83	119.72
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,463.21 93.59	155.99
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,905.02 229.83	383.12
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,037.54 229.83	383.12
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,708.94 409.66	682.77
26 24 13 00-0127 Fusible Branch Circuit Switch <small>(26 24 13)</small>		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	771.00 300.86	107.41
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	768.42 300.86	107.41
26 24 13 00-0131 EA 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	768.42 300.86	107.41
26 24 13 00-0132 EA 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,197.62 300.86	141.62
26 24 13 00-0133 EA 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,197.62 300.86	141.62
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135 EA 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	876.48 288.22	105.36
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,262.97 288.22	105.36
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	3,250.32	283.92
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	982.83 300.86	121.09
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	980.25 300.86	121.09
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	980.25 300.86	121.09
26 24 13 00-0142 EA 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,470.37 300.86	162.14

26	26 Electrical
	26 20 Low-Voltage Electrical Distribution
	26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,470.37 300.86	162.14
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,058.89 300.86	119.04
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,688.94 288.22	119.04
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit 26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit 26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,333.81 6,174.35 11,428.01	317.85 407.20 551.69
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,372.98 300.86	121.09
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,370.37 300.86	121.09
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,372.98 300.86	121.09
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,059.05 300.86	162.14
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,102.61 300.86	162.14
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,435.60 300.86	212.09
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,479.09 300.86	119.04
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,222.40 288.22	119.04
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	5,415.91 288.22	317.85
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit 26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	6,583.93 11,428.01	407.20 551.69
26 24 13 00-0163 Service And Distribution Structures <small>(26 24 13)</small>		
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC <small>(26 24 13 00-0163)</small>		
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... 26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,067.02 3,629.59 4,042.69 4,484.72	1,258.80 1,258.80 1,600.87 1,600.87
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,469.29 4,014.38 4,484.72 4,881.82	1,457.20 1,457.20 1,806.12 1,806.12
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,091.90 4,651.93 5,153.30 5,735.04	1,778.75 1,778.75 2,189.23 2,189.23
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... 26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,967.17 5,646.79 6,246.05 6,752.81	1,949.79 1,949.79 2,408.16 2,408.16
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus 26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,220.84 5,960.04 6,070.63 6,339.12	1,956.62 2,202.91 2,202.91 2,326.05
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,011.40	2,202.91



		MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0001		Branch Circuit Panelboard <small>(26 24 16)</small>	Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.			
26 24 16 00-0002		Assembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small>	Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.			
26 24 16 00-0003		120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>				
26 24 16 00-0004	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,338.25	389.95		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0005	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,528.67	389.95		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0006	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,742.11	540.47		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0007	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	1,956.32	540.47		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0008	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,159.41	677.30		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0009	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,367.70	677.30		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0010	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,568.55	779.92		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0011	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,095.20	998.84		
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93			
26 24 16 00-0012	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,264.81	998.84		
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93			
26 24 16 00-0013	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,428.39	1,142.51		
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93			
26 24 16 00-0014	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,690.48	1,142.51		
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96			
26 24 16 00-0015	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,850.42	1,286.17		
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96			
26 24 16 00-0016	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,091.39	1,286.17		
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96			
26 24 16 00-0017	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,242.80	1,423.00		
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96			
26 24 16 00-0018	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,479.66	1,423.00		
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96			
26 24 16 00-0019	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,701.85	1,573.51		
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96			
26 24 16 00-0020	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,851.62	1,573.51		
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94			
26 24 16 00-0021	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,080.04	1,573.51		
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51			
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94			
26 24 16 00-0022		120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>				
26 24 16 00-0023	EA	50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,559.27	376.28		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			
26 24 16 00-0024	EA	50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,752.65	376.28		
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,207.57	643.09
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,500.36	643.09
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,707.41	786.75
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,923.77	786.75
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,115.03	944.11
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,761.20	944.11
For NEMA 3R Panelboard, Add	1,353.89	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,933.17	1,156.18
For NEMA 3R Panelboard, Add	1,353.89	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,120.65	1,156.18
For NEMA 3R Panelboard, Add	1,353.89	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,326.76	1,299.86
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,492.36	1,299.86
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,669.47	1,423.00
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,859.83	1,423.00
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,065.61	1,682.98
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,289.46	1,682.98
For NEMA 3R Panelboard, Add	1,599.27	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,534.67	1,682.98
For NEMA 3R Panelboard, Add	1,664.51	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0040 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,684.32	1,778.75
For NEMA 3R Panelboard, Add	1,664.51	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0042 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,608.58	444.69
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,812.14	444.69
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,041.82	595.20
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,281.28	595.20
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,497.12	732.02
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,728.31	732.02
For NEMA 3R Panelboard, Add	1,231.12	
26 24 16 00-0048 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,945.10	868.85
For NEMA 3R Panelboard, Add	1,231.12	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0049	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,173.06 1,353.89 98.93	868.85
26 24 16 00-0050	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,380.74 1,353.89 98.93	1,019.36
26 24 16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,619.84 1,353.89 98.93	1,019.36
26 24 16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,867.09 1,353.89 98.93	1,176.71
26 24 16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,106.13 1,353.89 98.93	1,176.71
26 24 16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,595.07 1,599.27 168.96	1,423.00
26 24 16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,765.47 1,599.27 168.96	1,423.00
26 24 16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,042.24 1,599.27 168.96	1,580.35
26 24 16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,299.19 1,599.27 168.96	1,580.35
26 24 16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,475.86 1,664.51 215.94	1,724.02
26 24 16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,738.52 1,664.51 215.94	1,724.02
26 24 16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,508.20 1,599.27 168.96	1,529.73
26 24 16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,696.00 1,599.27 168.96	1,607.72
26 24 16 00-0062	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,986.28 1,599.27 168.96	1,693.24
26 24 16 00-0063	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,264.19 1,599.27 168.96	1,792.43
26 24 16 00-0064	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,453.14 1,664.51 215.94	1,847.17
26 24 16 00-0065	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,766.38 1,664.51 215.94	1,960.05
26 24 16 00-0066		120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0062)</small>		
26 24 16 00-0067	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,880.33 1,231.12	431.00
26 24 16 00-0068	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,086.68 1,231.12	431.00
26 24 16 00-0069	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,328.83 1,231.12	567.83
26 24 16 00-0070	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,653.11 1,231.12	567.83

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0094	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,312.90	602.04
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0095	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,578.51	602.04
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0096	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,824.96	752.54
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0097	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,085.64	752.54
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0098	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,358.52	909.90
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0099	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,607.02	909.90
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0100	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	3,882.11	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,147.04	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	4,389.09	1,231.44
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	4,649.77	1,231.44
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	5,215.19	1,498.25
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,475.54	1,498.25
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	5,753.96	1,641.93
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,952.10	1,641.93
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,264.03	1,812.96
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	6,481.29	1,812.96
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0110			480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards		
			<small>(26 24 16 00-0002)</small>		
26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,269.02	465.21
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,528.18	506.26
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0113	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,790.40	629.40
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0114	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	3,360.50	766.23
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0115	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,613.13	848.33
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0116	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,841.72	916.75
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0117	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	4,095.60	998.84
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0118 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,339.18	1,080.94
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0119 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,560.41	1,149.35
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0120 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,799.14	1,217.76
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0121 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,059.06	1,299.86
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0122 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,344.90	1,402.48
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0123 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,650.58	1,559.82
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0124 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,923.87	1,655.60
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0125 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,112.65	1,696.65
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0126 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,422.35	1,806.12
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0127 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,631.94	1,874.53
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0128 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,849.98	1,933.37
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,164.60	478.90
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0131 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,457.10	478.90
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0132 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,741.28	636.25
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0133 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,028.01	636.25
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0134 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,319.88	786.75
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0135 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,605.11	786.75
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0136 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,895.50	944.11
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0137 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,184.55	944.11
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0138 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,503.02	1,108.30
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0139 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,765.14	1,108.30
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0140 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,043.71	1,115.14
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0141	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,342.14	1,115.14
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0142	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,094.16	1,546.15
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0143	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,398.99	1,546.15
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0144	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,627.63	1,628.24
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0145	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,963.21	1,737.70
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0146	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,209.32	1,737.70
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0147	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,585.00	1,901.89
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0148			277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,800.41	588.35
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0150	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	3,100.50	588.35
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0151	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,388.21	779.92
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0152	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	4,039.94	779.92
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0153	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	4,320.41	985.15
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0154	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,600.38	985.15
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0155	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,870.06	1,128.82
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0156	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,117.38	1,128.82
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0157	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,382.20	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0158	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,668.20	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0159	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,910.63	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0160	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,166.31	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0161	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,960.21	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0162	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,275.08	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0163	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,500.46	1,840.32
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0164 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	8,855.44	1,840.32
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0165 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	9,103.91	2,011.36
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0166 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	9,361.75	2,011.36
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	11,048.41	2,239.86
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	13,435.55	2,688.64
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0169 Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	671.83	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	775.55	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,067.17	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,233.99	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,398.52	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,569.06	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,705.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,870.03	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,074.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,211.54	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,421.68	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,002.63	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,140.22	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,835.42	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,043.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,240.23	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,820.78	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,064.41	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,281.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0193 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,329.95	
26 24 16 00-0194 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,426.15	
26 24 16 00-0195 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,702.10	
26 24 16 00-0196 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,865.79	
26 24 16 00-0197 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,018.41	
26 24 16 00-0198 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,310.54	
26 24 16 00-0199 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,438.84	
26 24 16 00-0200 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,595.84	
26 24 16 00-0201 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,857.79	
26 24 16 00-0202 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,990.14	
26 24 16 00-0203 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,188.53	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,653.23	
26 24 16 00-0206 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,782.67	
26 24 16 00-0207 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,591.95	
26 24 16 00-0208 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,784.49	
26 24 16 00-0209 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,970.43	
26 24 16 00-0210 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,535.31	
26 24 16 00-0211 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,771.42	
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,986.72	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	759.28	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	894.89	
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,011.14	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,152.73	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,328.22	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,472.88	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,699.55	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0222	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,833.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0223	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,983.21	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0224	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,218.58	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0225	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,443.93	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0226	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,877.75	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0227		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,173.48	
26 24 16 00-0229	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,324.96	
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,537.00	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,259.52	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,449.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,632.34	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,619.39	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,848.13	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,036.92	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0237		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,417.40	
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,545.49	
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,653.59	
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,787.66	
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,960.02	
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,092.77	
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,441.04	
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,567.11	
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,709.02	
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,002.05	
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,212.99	
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,646.81	
26 24 16 00-0250		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,824.08	
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,967.41	
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,175.07	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0254	EA		225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,016.04	
26 24 16 00-0255	EA		225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,190.66	
26 24 16 00-0256	EA		225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,362.54	
26 24 16 00-0257	EA		400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,991.04	
26 24 16 00-0258	EA		400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,226.30	
26 24 16 00-0259	EA		400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,426.12	
26 24 16 00-0260			480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.		
26 24 16 00-0261			Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0262	EA		125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,073.95	
26 24 16 00-0263	EA		125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,183.27	
26 24 16 00-0264	EA		250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,641.58	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0265	EA		250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,834.10	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0266	EA		250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,001.01	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0267	EA		400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,011.01	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0268	EA		400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,123.97	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0269	EA		400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,310.17	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0270	EA		600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,484.40	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0271	EA		600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,663.55	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0272	EA		600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,912.07	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0273			Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0274	EA		100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,175.79	
26 24 16 00-0275	EA		100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,244.26	
26 24 16 00-0276	EA		125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,438.24	
26 24 16 00-0277	EA		125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,574.43	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0278	EA		125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,855.83	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0279	EA		250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,708.90	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0280	EA		250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,879.19	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0281	EA		250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,101.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0282	EA		400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,256.98	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0283	EA		400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,499.46	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0284	EA		400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,716.23	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0285)</small>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,709.51	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,818.83	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,262.09	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,563.68	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,718.05	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,728.05	
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,822.21	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,981.46	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,218.36	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,382.22	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,597.92	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0297)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,946.73	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,015.21	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,064.40	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,194.94	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,585.41	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,425.94	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,577.43	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,772.34	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,928.26	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,153.60	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,367.83	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,116.57	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,226.52	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,421.68	
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,704.30	
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,898.22	
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,063.94	
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,093.80	
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,226.77	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
For Door-In-Door (Hinged) Trim Front, Add	168.96	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0319	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,411.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0320	EA		600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,585.87	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0321	EA		600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,766.09	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0322	EA		600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,015.64	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0323			Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324	EA		100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,395.16	
26 24 16 00-0325	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,464.26	
26 24 16 00-0326	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,672.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0327	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,739.81	
26 24 16 00-0328	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,876.50	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0329	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,157.23	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0330	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,062.54	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0331	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,234.88	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0332	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,454.39	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0333	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,680.74	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0334	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,925.45	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0335	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,142.19	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0336			Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA		125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,752.13	
26 24 16 00-0338	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,862.08	
26 24 16 00-0339	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,047.84	
26 24 16 00-0340	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,324.81	
26 24 16 00-0341	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,627.80	
26 24 16 00-0342	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,780.98	
26 24 16 00-0343	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,812.72	
26 24 16 00-0344	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,925.00	
26 24 16 00-0345	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,082.79	
26 24 16 00-0346	EA		600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,319.83	
26 24 16 00-0347	EA		600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,484.39	
26 24 16 00-0348	EA		600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,700.09	
26 24 16 00-0349			Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350	EA		100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,015.68	



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Switchboards and Panelboards	26 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,084.78	
26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,401.69	
26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,365.96	
26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,497.01	
26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,886.81	
26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,779.57	
26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,933.11	
26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,125.68	
26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,352.02	
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,579.18	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,792.79	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,986.29	406.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>244.16</i>	
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,300.44	406.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>244.10</i>	
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,537.03	406.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>244.10</i>	
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,968.81	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>400.85</i>	
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,151.93	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>400.85</i>	
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,352.87	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>400.85</i>	
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,683.45	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>532.84</i>	
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,860.65	890.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>534.47</i>	
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,931.38	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>532.84</i>	
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,512.32	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>532.84</i>	
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,946.53	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>801.71</i>	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,341.93	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>801.71</i>	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,665.21	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>801.71</i>	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,059.80	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>801.71</i>	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,702.55	415.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>249.32</i>	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,833.44	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>282.80</i>	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,061.93	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>282.80</i>	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0382	EA		400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,734.43	471.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0383	EA		600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,537.02	772.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.59	
26 24 16 00-0384	EA		600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,915.46	774.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	464.82	
26 24 16 00-0385	EA		600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,225.72	772.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.59	
26 24 16 00-0386	EA		800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,550.05	1,032.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	619.76	
26 24 16 00-0387	EA		800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,995.67	1,029.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	617.57	
26 24 16 00-0388	EA		800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,441.31	1,029.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	617.57	
26 24 16 00-0389			Residential Lighting And Power Panelboards (26 24 16 00-0001) See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390			Residential Type Unassembled Load Center (26 24 16 00-0389) Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391			Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0392	EA		30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	176.46	68.41
26 24 16 00-0393	EA		70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	606.21	273.66
26 24 16 00-0394	EA		100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	908.76	390.64
26 24 16 00-0395	EA		125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,937.95	821.10
26 24 16 00-0396	EA		150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,116.58	889.37
26 24 16 00-0397			Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398	EA		60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	239.25	75.26
26 24 16 00-0399	EA		125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	411.16	82.10
26 24 16 00-0400			Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)		
26 24 16 00-0401	EA		40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	242.89	75.26
26 24 16 00-0402	EA		70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	270.30	82.10
26 24 16 00-0403	EA		100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	981.40	390.64
26 24 16 00-0404	EA		150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,227.12	889.37
26 24 16 00-0405			Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406	EA		60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	294.52	75.26
26 24 16 00-0407	EA		125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,140.23	821.10
26 24 16 00-0408			Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0409	EA		125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,282.18	821.10
26 24 16 00-0410	EA		150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,476.61	889.37
26 24 16 00-0411	EA		300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	8,128.41	1,368.27
26 24 16 00-0412			Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413	EA		125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,199.30	821.10
26 24 16 00-0414	EA		150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,487.68	889.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	8,900.09	1,368.27
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,384.82	821.10
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,651.88	889.37
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.</small>		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,369.53	821.10
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,506.16	889.37
26 24 16 00-0422 Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0423)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	909.23	390.64
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,100.58	456.31
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	926.60	390.64
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,105.32	456.31
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,585.95	608.19
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,875.25	729.97
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,146.90	842.17
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,360.27	911.68
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,533.97	1,368.27
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,647.53	608.19
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,933.68	729.97
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,205.32	842.17
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,415.54	911.68
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,715.56	1,368.27
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,295.94	1,520.29
26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,485.43	1,520.29
26 24 16 00-0440 Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0441 EA 125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,189.01	456.31
26 24 16 00-0442 EA 125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,774.09	684.14
26 24 16 00-0443 EA 125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,241.11	456.31
26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,821.46	684.14
26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,236.90	842.17
26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,440.19	912.23
26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,979.46	1,095.02
26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,597.13	1,368.27
26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,292.17	842.17
26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,502.39	911.68
26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,191.23	1,094.20
26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,810.30	1,368.27

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0453 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,343.32	1,520.29
26 24 16 00-0454 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,532.80	1,520.29
26 24 16 00-0455 Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456 EA 125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,182.69	456.31
26 24 16 00-0457 EA 125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,751.98	684.14
26 24 16 00-0458 EA 200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,004.74	729.97
26 24 16 00-0459 EA 200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,300.89	842.58
26 24 16 00-0460 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,527.04	912.23
26 24 16 00-0461 EA 200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,348.77	1,216.39
26 24 16 00-0462 EA 200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,020.53	729.97
26 24 16 00-0463 EA 200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,331.65	842.17
26 24 16 00-0464 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,533.97	911.68
26 24 16 00-0465 EA 200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,261.92	1,216.39
26 24 16 00-0466 EA 400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,922.38	1,520.29
26 24 16 00-0467 EA 400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,238.19	1,520.29
26 24 16 00-0468 Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,969.18	912.23
26 24 16 00-0470 EA 200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,102.43	1,368.27
26 24 16 00-0471 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,062.95	911.68
26 24 16 00-0472 EA 200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,197.17	1,368.27
26 24 16 00-0473 Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474 Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475 EA 1 Pole Midget Finger-Safe Fuse Holder.....	78.29	24.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder.....	89.45	24.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder.....	124.54	36.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder.....	153.67	36.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder.....	179.81	49.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder.....	218.50	49.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....	250.87	49.26
Note: With indicators.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....	207.96	49.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder.....	226.16	61.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder.....	268.66	61.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	89.49	24.63
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	95.42	24.63
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder.....	90.58	24.63
Note: With indicator.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0488 Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers.....	1,716.71	
Note: Includes removal and reinstallation of main wiring to panelboard.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	513.10	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	90.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.68	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening.....	6.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.28	
26 24 19 Motor-Control Centers (26 24)		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19)		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	2,313.00	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit.....	2,733.36	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit.....	4,047.07	137.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.51	
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	7,305.91	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	14,664.79	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	24,649.33	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit.....	2,313.00	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit.....	2,733.36	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	4,047.07	137.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.51	
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	7,305.91	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	14,664.79	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit.....	24,649.33	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	3,331.54	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit.....	4,427.32	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit.....	6,327.99	137.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.51	
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	11,043.42	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	21,688.81	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	37,350.84	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed reversing.		
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit.....	3,331.54	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit.....	4,427.32	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	6,327.99	137.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.51	
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	11,043.42	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	21,688.81	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit.....	37,350.84	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,070.66	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....5,576.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 127.52		212.53
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....8,177.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 135.01		225.03
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....14,560.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77		256.29
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....24,076.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 180.03		300.03
26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,070.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01		200.02
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....5,576.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 127.52		212.53
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....8,177.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 135.01		225.03
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....14,560.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77		256.29
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....24,076.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 180.03		300.03
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....4,662.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 75.01		125.01
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....6,919.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.76		131.27
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....9,456.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 82.51		137.52
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....17,730.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 97.51		162.52
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....30,685.18 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 112.52		187.52
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,662.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 75.01		125.01
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....6,919.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.76		131.27
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....9,456.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 82.51		137.52
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....17,730.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 97.51		162.52
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....30,685.18 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 112.52		187.52
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit .....6,876.56		131.27
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit .....10,507.44		143.76
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....17,681.18		162.52
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....27,327.46		187.52
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....46,724.84		250.03
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit .....6,876.56		131.27
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....10,507.44		143.76
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....17,681.18		162.52
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....27,327.46		187.52
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit .....46,724.84		250.03
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit .....4,737.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01		200.02
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit .....6,109.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76		231.28
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit .....10,687.14 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77		256.29
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....18,168.96 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52		312.54
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....24,949.40 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04		400.05



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0072			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0073	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	4,737.46	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0074	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,109.81	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0075	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	10,687.14	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0076	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	18,168.96	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0077	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	24,949.40	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0078			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,327.67	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	20,514.00	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	22,656.74	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	34,268.87	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	46,722.54	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	63,397.04	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0085			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,327.67	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	20,514.00	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	22,656.74	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	34,268.87	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	46,722.54	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	63,397.04	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0092			Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,079.06	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0095	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,499.42	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0096	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,387.14	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0097	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	9,893.25	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0098	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	17,672.93	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0099	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	28,786.06	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0100			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,079.06	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0102	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,499.42	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,387.14	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	9,893.25	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	17,672.93	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	28,786.06	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,091.13	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit	5,178.28	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit	7,637.85	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	13,596.24	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	24,636.53	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit	4,091.13	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit	5,178.28	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	7,637.85	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	13,596.24	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit	24,636.53	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,817.30	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	6,311.85	212.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	9,465.81	225.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	17,083.21	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	27,000.07	300.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	4,817.30	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	6,311.85	212.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	9,465.81	225.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	17,083.21	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	27,000.07	300.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	5,534.63	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	7,780.12	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	10,888.80	212.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	20,385.72	243.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.27	
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	33,750.93	287.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.53	
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,534.63	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	7,780.12	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	10,888.80	212.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	20,385.72	243.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.27	
26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	33,750.93	287.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.53	
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	7,601.62	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,216.52	143.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	20,618.11	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	31,213.87	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	51,336.31	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0150 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	7,601.62	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0151 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,216.52	143.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0152 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	20,618.11	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0153 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	31,213.87	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0154 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	51,336.31	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, part winding.		
26 24 19 00-0156 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	5,484.10	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0157 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	6,841.35	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0158 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	11,966.78	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0159 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	21,142.57	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0160 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	31,168.52	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, part winding.		
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit	5,484.10	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit	6,841.35	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	11,966.78	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	21,142.57	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit	31,168.52	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit.....	19,947.00	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit.....	21,126.85	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit.....	23,248.00	231.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.76	
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	34,758.72	256.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.77	
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	47,102.34	312.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.52	
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	66,001.65	400.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	240.04	
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	19,947.05	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.53	
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	21,126.85	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	23,248.00	231.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.76	
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	34,758.72	256.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.77	
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	47,102.34	312.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.52	
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	66,001.65	400.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	240.04	
26 24 19 00-0181 Combination Starters With Fusible Switch <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,062.68	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,830.46	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,741.92	137.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.51	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,335.23	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,503.83	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,055.90	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,062.68	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,830.46	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,741.92	137.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.51	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,335.23	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,503.83	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,055.90	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed reversing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,303.49 75.01	125.01
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,902.07 78.76	131.27
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,816.96 82.51	137.52
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,717.97 97.51	162.52
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,543.84 112.52	187.52
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,196.85 150.02	250.03
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,303.49 75.01	125.01
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,902.07 78.76	131.27
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,816.96 82.51	137.52
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,717.97 97.51	162.52
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,543.84 112.52	187.52
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,196.85 150.02	250.03
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,889.39 120.01	200.02
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,325.68 127.52	212.53
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,339.38 135.01	225.03
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,841.13 153.77	256.29
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,603.50 180.03	300.03
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,889.39 120.01	200.02
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,325.68 127.52	212.53
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,339.38 135.01	225.03
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,841.13 153.77	256.29
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,603.50 180.03	300.03
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,399.71 75.01	125.01
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,686.66 78.76	131.27
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,608.03 82.51	137.52
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,323.36 97.51	162.52
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,399.71 75.01	125.01
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,686.66 78.76	131.27
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,608.03 82.51	137.52
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,323.36 97.51	162.52
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,641.35	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	11,692.14	143.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	19,450.67	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	25,959.34	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	43,587.23	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,641.35	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	11,692.14	143.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	19,450.67	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	25,959.34	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	43,587.23	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,765.51	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,295.39	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	9,979.34	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	19,815.45	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,765.51	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,295.39	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	9,979.34	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	19,815.45	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,325.52	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,514.00	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,656.74	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	34,268.87	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	46,722.54	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	63,397.04	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,325.52	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,514.00	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,656.74	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	34,268.87	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>153.77</i>	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	46,722.54	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	63,397.04	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>240.04</i>	

26 24 19 00-0268

Starter Accessories (26 24 19)

Note: Additional options or accessories for the Combination Starters

26 24 19 00-0269

Starter Modifications (26 24 19 00-0268)

26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	151.17	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	336.64	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	481.22	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	120.84	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	170.48	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	287.00	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	71.21	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	60.42	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	111.91	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	138.36	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	270.61	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	138.36	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	158.71	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	191.26	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	225.85	
26 24 19 00-0285 EA Blank Devices Panel	42.73	
26 24 19 00-0286 EA Oversize Or Special Color Starter	67.14	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer	597.04	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non Resettable	542.10	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable	793.53	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	67.14	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	95.63	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	67.14	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	95.63	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	95.63	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	138.36	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	343.86	
26 24 19 00-0297 EA Heater Module	63.95	
26 24 19 00-0298 EA LAM - Long Acceleration Module	397.29	
26 24 19 00-0299 EA JAM - Jam Protection Module	455.44	
26 24 19 00-0300 EA PUM - Phase Unbalance Module	864.36	
26 24 19 00-0301 EA ULM - Underload Module	414.74	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	91.09	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	170.55	
26 24 19 00-0304 EA Type SIS Control Wire	71.71	
26 24 19 00-0305 EA Ring Or Spade Terminals Control	91.09	
26 24 19 00-0306 EA Ring Terminals Power	91.09	
26 24 19 00-0307 EA 14 Gauge Control Wire	71.71	
26 24 19 00-0308 EA Wiremakers	91.09	
26 24 19 00-0309 EA Wiring Diagram On Door	54.26	
26 24 19 00-0310 EA Special Color Or Type Control Wire	65.89	
26 24 19 00-0311 EA Current Transformer 12.5 VA	517.45	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4	1,653.14	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6	1,860.50	

26 24 19 00-0314

Control Relays And Special Components (26 24 19 00-0268)

26 24 19 00-0315 EA 600 Volt, 2 Pole, Control Relays	480.88	
26 24 19 00-0316 EA 600 Volt, 4 Pole, Control Relays	572.93	
26 24 19 00-0317 EA 600 Volt, 6 Pole, Control Relays	677.47	
26 24 19 00-0318 EA 600 Volt, 8 Pole, Control Relays	757.32	
26 24 19 00-0319 EA Pneumatic Timer, Control Relays	626.22	
26 24 19 00-0320 EA Motor Driven Timer, Control Relays	1,631.83	
26 24 19 00-0321 EA 7 Days Time Switch, Control Relays	2,053.88	
26 24 19 00-0322 EA 24 Hour Time Switch, Control Relays	575.94	
26 24 19 00-0323 EA Phase Voltage, Control Relays	979.70	
26 24 19 00-0324 EA Two Circuit Alternator, Control Relays	1,371.28	
26 24 19 00-0325 EA Manual 120 Volt, Control Relays	134.08	
26 24 19 00-0326 EA Over-Current Relay, Control Relays	3,697.75	
26 24 19 00-0327 EA UV-Relay, Control Relays	3,131.85	
26 24 19 00-0328 EA Over-Current Relay, Control Relays	3,131.85	
26 24 19 00-0329 EA Teleductor, Control Relays	1,010.18	
26 24 19 00-0330 EA Current Transducer, Control Relays	2,716.66	
26 24 19 00-0331 EA Watt Transducer, Control Relays	5,433.33	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x	184.36	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway	275.78	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway	310.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway	345.87	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	310.82	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	345.87	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	364.15	
26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0340 EA Shunt Trip, Circuit Breaker.....	262.97	
26 24 19 00-0341 EA Auxiliary Switch, Circuit Breaker	90.83	
26 24 19 00-0342 EA Key Interlock, Circuit Breaker.....	326.70	
26 24 19 00-0343 EA GFR Ground Fault, Circuit Breaker.....	1,506.04	
26 24 19 00-0344 EA Seltronic Breaker, Circuit Breaker.....	872.42	
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100	1,468.78	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150	2,539.05	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100	2,435.25	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150	3,503.49	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150	4,488.28	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250	2,801.30	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.53	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400	4,515.11	175.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.03	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600	5,953.68	225.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.96	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800	7,029.92	343.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.34	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200	9,966.66	518.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	311.54	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000	21,698.46	687.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	412.20	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500	32,367.98	862.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	517.08	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000	53,855.91	1,000.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	600.59	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,759.74	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	2,821.87	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,759.74	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	2,821.87	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	2,974.45	81.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.75	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	4,077.27	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	5,049.85	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100.....	2,681.48	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400.....	6,802.04	343.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.34	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	6,802.04	343.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.34	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	9,132.67	375.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	224.93	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	11,394.05	437.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	262.42	
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	13,116.35	518.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	311.54	
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches.....	1,618.28	125.01
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual.....	2,469.07	125.01
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches	2,546.62	156.27
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches.....	4,116.91	187.52
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches	8,066.59	237.53
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches.....	11,307.18	312.54
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches.....	27,375.43	418.80
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches.....	30,926.19	581.32
26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,387.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,432.42	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,479.22	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,696.93	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,839.36	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,079.50	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	2,502.66	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	2,820.07	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	6,555.76	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	3,479.31	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	4,820.17	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	7,512.06	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	6,956.59	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	9,640.34	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	9,942.07	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	13,771.60	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	655.17	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type.....	1,432.42	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	590.06	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type.....	1,432.42	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	795.56	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits.....	844.39	
26 24 19 00-0405 EA Add For Additional Circuits	106.59	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	2,954.36	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,094.76	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,728.51	
26 24 19 00-0409 EA Add For Demand Attachment	697.69	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	815.91	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,408.00	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,639.96	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,367.31	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,471.08	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,125.18	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors.....	25,114.12	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors.....	36,573.46	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors.....	48,059.26	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors.....	73,155.07	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw.....	468.27	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp.....	468.27	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw.....	647.38	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp.....	1,184.70	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw.....	647.38	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp.....	826.48	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw.....	826.48	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp.....	1,182.54	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw.....	826.48	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp.....	1,182.54	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw.....	1,005.59	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp.....	3,260.62	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw.....	1,005.59	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp.....	1,182.54	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw.....	3,260.62	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp.....	3,260.62	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	994.78	
26 24 19 00-0439 EA Throat And Transition To Substation	1,920.41	
26 24 19 00-0440 EA Service Entrance Label.....	415.89	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition.....	869.32	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus.....	463.19	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width	274.63	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	274.63	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	849.56	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	958.23	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	81.99	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	221.28	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	46.43	
26 24 19 00-0451 EA Standard Structure 150 Watt Space	199.55	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control.....	563.97	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	199.55	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC.....	364.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95,598.23 450.10	750.10
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104,094.80 487.64	812.73
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,347.60 150.02	250.03
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,410.14 168.78	281.28
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,472.62 187.52	312.54
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,535.11 206.27	343.79
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,601.39 225.02	375.04
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,663.96 243.79	406.30
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,726.46 262.54	437.55
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,796.42 337.53	562.57
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,023.85 375.05	625.08
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,148.98 412.58	687.59
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,290.13 450.10	750.10
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,795.77 75.01	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,061.05 75.01	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,845.53 75.01	
26 24 19 00-0525 4.8 KV Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,443.63 225.02	375.04
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,506.20 243.79	406.30
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,568.70 262.54	437.55
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,631.24 281.30	468.80
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,622.16 300.04	500.06
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,684.74 318.81	531.32
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,747.13 337.53	562.57
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,809.75 356.31	593.83
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,872.19 375.05	625.08
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,876.65 487.64	812.73
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,001.16 525.00	874.98
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,144.21 562.51	937.49
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,269.08 599.97	1,000.00
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,198.74 225.02	375.04
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,526.59 243.79	406.30
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,587.21 262.54	437.55
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,766.77 281.30	468.80
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,482.00 300.04	500.06
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,737.39 318.81	531.32
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,793.63 337.53	562.57
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,825.95 356.31	593.83
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,899.31 375.05	625.08
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56,710.32 393.81	656.33
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,583.84 431.32	718.84

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65,604.76 450.10	750.10
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69,398.08 468.81	781.35
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74,700.10 487.64	812.73
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118,295.89 599.97	1,000.00
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131,533.71 637.62	1,062.76
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158,044.18 675.05	1,125.14
26 24 19 00-0556 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167,148.90 675.05	1,125.14
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,922.11 262.54	437.55
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,984.65 281.30	468.80
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,047.10 300.04	500.06
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,109.68 318.81	531.32
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,169.23 337.53	562.57
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,231.85 356.31	593.83
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,294.29 375.05	625.08
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,356.83 393.81	656.33
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,419.42 412.58	687.59
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,794.13 525.00	874.98
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,106.82 562.51	937.49
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,240.22 599.97	1,000.00
26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,240.22 599.97	1,000.00
26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,982.24 75.01	
26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,284.35 75.01	
26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,733.10 75.01	
26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes	13,015.99	250.03
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes	15,663.44	375.04
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant	5,094.85	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters	233.24	18.75
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused	1,476.02	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	791.96	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max	2,358.61	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each	151.05	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each	500.64	
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light	151.05	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light	457.48	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type	1,217.07	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type	1,217.07	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter	3,640.41	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,509.66	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter	494.98	18.75
26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection	3,538.84	62.51
26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection	6,734.80	31.25
26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection	2,647.08	31.25
26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters	4,287.59	18.75
26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism	6,195.22	
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay	615.05	62.51
26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay	449.07	62.51
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers <small>(26 24 19 00-0484)</small>		
Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included	1,328.27	374.90
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included	2,308.14	663.61
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	2,773.65	849.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,442.31	1,368.27
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,210.73	1,505.10
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	6,661.14	1,669.29
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	7,756.08	1,956.62
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	13,130.33	2,279.53
26 24 19 00-0606 Main Lugs Only <small>(26 24 19 00-0484)</small>		
26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs.....	1,096.97	478.90
26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs.....	1,193.84	478.90
26 24 19 00-0609 EA 1,200 Amperes Incoming Section, Main Lugs.....	1,685.09	752.54
26 24 19 00-0610 EA 2,000 Amperes Incoming Section, Main Lugs.....	4,011.75	1,368.27
26 24 19 00-0611 EA 3,000 Amperes Incoming Section, Main Lugs.....	6,082.97	1,983.99
26 24 19 00-0612 EA 4,000 Amperes Incoming Section, Main Lugs.....	8,650.87	2,736.54
26 24 19 00-0613 Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>		
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614 EA 225 Amperes, Main Circuit Breaker Section.....	6,740.59	662.11
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615 EA 400 Amperes, Main Circuit Breaker Section.....	14,156.61	850.52
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616 EA 600 Amperes, Main Circuit Breaker Section.....	14,819.85	1,324.75
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617 EA 800 Amperes, Main Circuit Breaker Section.....	20,904.07	1,324.75
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618 EA 1,200 Amperes, Main Circuit Breaker Section.....	30,141.59	1,498.94
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619 Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>		
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0620 EA 200 Amperes, Fusible Main Disconnect Section.....	5,877.03	662.93
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621 EA 400 Amperes, Fusible Main Disconnect Section.....	8,096.93	850.93
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622 EA 600 Amperes, Fusible Main Disconnect Section.....	15,726.10	1,325.86
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0623 EA 800 Amperes, Fusible Main Disconnect Section.....	18,221.96	1,325.86
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0624 EA 1,200 Amperes, Fusible Main Disconnect Section..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	25,562.84 182.00 334.00 97.00 245.00 108.00	1,500.31
26 24 19 00-0625 Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626 Class I, Type A <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,093.52 158.36	277.75
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,267.53 175.42	277.75
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,830.40 235.91	394.06
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,942.99 310.97	518.58
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,185.82 388.71	648.56
26 24 19 00-0632 Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,028.23 136.83	242.18
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,196.42 154.09	242.18
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,745.71 210.50	350.28
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,856.61 285.06	474.79
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,116.16 367.82	606.15
26 24 19 00-0638 Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,072.89 123.94	224.40
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,253.62 145.56	224.40
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,854.66 201.22	335.23
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,973.34 278.11	463.85
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,221.92 356.32	595.20
26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,111.79 187.95	332.49
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,507.61 209.86	332.49
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,117.95 265.17	443.32
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,405.79 342.07	567.83
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,028.15 417.15	693.71
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,356.01 180.04	314.71
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,551.09 196.59	314.71
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,233.36 257.19	429.64
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,512.50 332.11	554.15
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,153.39 412.13	684.14
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,003.84 154.09	255.87
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,499.26 209.86	350.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,344.61 273.65	455.63
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,213.75 384.35	638.98
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,512.05 488.67	814.12
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,009.43 136.83	228.50
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,361.84 187.95	313.33
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,997.96 251.52	418.69
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,305.87 363.90	604.77
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,585.16 462.26	768.97
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,057.65 128.12	213.45
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,423.75 175.42	290.08
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,153.12 244.33	403.64
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,459.73 356.32	595.20
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,295.56 456.09	760.76
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,285.79 192.17	320.18
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,655.25 239.21	399.53
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,375.34 308.17	514.47
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,813.33 417.15	693.71
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,412.99 518.28	866.12
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,322.60 180.04	301.02
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,716.70 226.54	377.64
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,500.76 294.89	491.21
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,949.92 407.22	677.30
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,541.31 503.04	838.75
26 24 19 00-0687 Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>		
26 24 19 00-0688 Circuit Breaker Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	467.12	135.46
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	560.33	177.88
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	930.86	270.92
26 24 19 00-0694 Fused Disconnect Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	421.68	135.46
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	582.57	177.88
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	992.91	270.92
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,389.70	394.06
26 24 19 00-0700 Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	129.46	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	129.46	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs	196.28	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs	196.28	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs	390.47	
26 24 19 00-0706 Structure Combination Of Starters To 72" High (26 24 19 00-0687)		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High	3,544.84	720.12
26 24 19 00-0708 Motor Control Center Basic Distribution Section (26 24 19 00-0484)		
26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway	6,165.08	1,875.35
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway)	6,165.08	1,875.35
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway	6,733.99	1,875.35
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712 EA Corner Section	6,733.99	1,875.35
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0484)		
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,516.65	263.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.02	
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,687.73	292.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.27	
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	2,883.70	392.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.64	
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	4,163.41	517.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.69	
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	9,292.76	647.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	388.27	
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	21,412.46	647.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	388.27	
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,517.04	227.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	136.68	
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,710.82	256.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.92	
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	2,929.27	350.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.16	
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	4,149.94	474.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.90	
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	9,297.08	612.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	367.82	
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	21,547.19	612.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	367.82	
26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,394.81	329.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.73	
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,923.30	364.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	218.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0730	EA	Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,776.40 294.04	490.11
26 24	19 00-0731	EA	Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,144.34 388.71	647.88
26 24	19 00-0732	EA	Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,574.56 486.35	810.57
26 24	19 00-0733	EA	Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,413.64 170.75	284.60
26 24	19 00-0734	EA	Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,966.23 192.53	320.86
26 24	19 00-0735	EA	Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,840.11 263.13	438.53
26 24	19 00-0736	EA	Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,145.13 356.32	593.83
26 24	19 00-0737	EA	Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,596.07 460.18	766.91
26 24	19 00-0738		Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24	19 00-0739	EA	Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,612.32 197.73	329.62
26 24	19 00-0740	EA	Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,678.78 218.81	364.64
26 24	19 00-0741	EA	Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,868.83 294.04	490.11
26 24	19 00-0742	EA	Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,346.44 388.71	647.88
26 24	19 00-0743	EA	Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,554.97 486.35	810.57
26 24	19 00-0744	EA	Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,631.15 170.75	284.60
26 24	19 00-0745	EA	Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,721.71 192.53	320.86
26 24	19 00-0746	EA	Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,932.55 263.13	438.53
26 24	19 00-0747	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,347.23 356.32	593.83
26 24	19 00-0748	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,576.49 460.18	766.91
26 24	19 00-0749		Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0484) Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24	19 00-0750		FVNR Starters With Fusible Disconnect (26 24 19 00-0749)		
26 24	19 00-0751	EA	Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,240.10	256.82
26 24	19 00-0752	EA	Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,621.79	349.04
26 24	19 00-0753	EA	Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,657.07	454.81
26 24	19 00-0754	EA	Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,433.58	640.62
26 24	19 00-0755	EA	Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	8,732.73	814.39
26 24	19 00-0756	EA	Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	21,673.07	814.39
26 24	19 00-0757	EA	Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,252.53	227.68
26 24	19 00-0758	EA	Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,643.29	312.65
26 24	19 00-0759	EA	Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,716.23	419.24
26 24	19 00-0760	EA	Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,437.94	606.56
26 24	19 00-0761	EA	Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	8,717.20	770.47
26 24	19 00-0762	EA	Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	21,788.04	770.47
26 24	19 00-0763		Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0749)		
26 24	19 00-0764	EA	Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,091.59	321.54
26 24	19 00-0765	EA	Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,909.95	436.34
26 24	19 00-0766	EA	Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,465.78	568.24
26 24	19 00-0767	EA	Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,217.32	803.03
26 24	19 00-0768	EA	Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	14,860.43	939.73
26 24	19 00-0769	EA	Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,125.56	284.60
26 24	19 00-0770	EA	Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,948.82	390.50
26 24	19 00-0771	EA	Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,545.37	524.60
26 24	19 00-0772	EA	Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,233.69	756.79
26 24	19 00-0773	EA	Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	14,862.06	886.23
26 24	19 00-0774		Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0749)		
26 24	19 00-0775	EA	Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,419.30	321.54
26 24	19 00-0776	EA	Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,677.04	436.34
26 24	19 00-0777	EA	Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,579.97	568.24
26 24	19 00-0778	EA	Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,658.13	803.03
26 24	19 00-0779	EA	Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,031.71	939.73
26 24	19 00-0780	EA	Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,454.24	284.60
26 24	19 00-0781	EA	Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,715.90	390.50
26 24	19 00-0782	EA	Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,659.56	524.60

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,674.51	756.79
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,033.34	886.23
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484)		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	254.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.28	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	310.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.28	
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	373.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	483.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	807.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.39	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	147.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	772.10	197.72
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,232.20	218.92
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,529.28	294.86
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,443.25	388.59
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,047.32	485.73
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,552.95	485.73
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	9,012.23	608.19
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	862.99	192.25
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,031.60	262.02
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,404.18	335.23
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,560.01	480.26
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,450.95	610.80
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	9,903.18	610.80
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	12,245.93	763.50
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	17,953.37	763.50
26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	69.07	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	69.07	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	133.02	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	133.02	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	184.79	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	57.95	15.48
26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	126.08	27.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.10	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	142.88	27.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.38	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted.....	116.88	27.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	330.18	93.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.08	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter.....	368.22	35.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.27	
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484)		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact.....	83.13	17.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact.....	112.00	17.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....	122.25	17.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.69	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact.....	109.35	17.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.55	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....	113.91	17.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.45	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0829		Special Cabinet Provisions <small>(26 24 19 00-0484)</small>		
	26 24 19 00-0830	EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	864.62	
26 24 19 00-0831		Nameplate Requirements <small>(26 24 19 00-0484)</small>		
	26 24 19 00-0832	EA Special Cabinet Nameplate Requirements.....	30.70	
26 24 19 00-0833		Auxiliary Relays <small>(26 24 19 00-0484)</small>		
	26 24 19 00-0834	EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts.....	182.20	34.26
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
	26 24 19 00-0835	EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay.....	172.96	30.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
	26 24 19 00-0836	EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base.....	104.04	30.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
26 24 19 00-0837		Motor Control Center Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0838		Lighting Transformer With Circuit Breaker <small>(26 24 19 00-0837)</small>		
		Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
	26 24 19 00-0839	EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,176.10	437.71
	26 24 19 00-0840	EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,381.65	455.21
	26 24 19 00-0841	EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,885.13	490.22
	26 24 19 00-0842	EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,362.68	525.24
	26 24 19 00-0843	EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,842.71	560.26
	26 24 19 00-0844	EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,068.29	630.29
	26 24 19 00-0845	EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,807.37	700.32
	26 24 19 00-0846	EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,298.62	577.77
	26 24 19 00-0847	EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,103.48	630.29
	26 24 19 00-0848	EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,547.52	700.32
	26 24 19 00-0849	EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,261.37	770.35
	26 24 19 00-0850	EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,758.74	840.39
	26 24 19 00-0851	EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,245.21	910.41
26 24 19 00-0852		Bolt-On Lighting Panel <small>(26 24 19 00-0837)</small>		
		Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
	26 24 19 00-0853	EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,362.05	712.04
	26 24 19 00-0854	EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,725.78	1,239.38
	26 24 19 00-0855	EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,961.26	1,676.81
	26 24 19 00-0856	EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,478.80	770.47
	26 24 19 00-0857	EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,673.05	1,212.98
	26 24 19 00-0858	EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,170.86	1,781.62
	26 24 19 00-0859	EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	3,861.56	825.89
	26 24 19 00-0860	EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,216.82	1,325.86
	26 24 19 00-0861	EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	6,580.01	1,781.62
	26 24 19 00-0862	EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	3,991.46	890.74
	26 24 19 00-0863	EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,216.82	1,325.86
	26 24 19 00-0864	EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	6,674.95	1,839.09
26 24 19 00-0865		Factory Installed Bolt-On Branch Circuit Breaker <small>(26 24 19 00-0837)</small>		
		Note: For MCC lighting panel only.		
	26 24 19 00-0866	EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....	15.11	
	26 24 19 00-0867	EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	266.46	
	26 24 19 00-0868	EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	29.53	
	26 24 19 00-0869	EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	67.99	
	26 24 19 00-0870	EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	79.66	
	26 24 19 00-0871	EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	120.86	
26 24 19 00-0872		Blank Unit Door (BUD) <small>(26 24 19 00-0837)</small>		
		Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
	26 24 19 00-0873	EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	71.06	
	26 24 19 00-0874	EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	85.27	
	26 24 19 00-0875	EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	127.90	
	26 24 19 00-0876	EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	170.54	
	26 24 19 00-0877	EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	255.80	
	26 24 19 00-0878	EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	298.44	
	26 24 19 00-0879	EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	341.07	

26 25 Enclosed Bus Assemblies (26 20)

26 25 13 Low-Voltage Busways (26 25)

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 25	Enclosed Bus Assemblies



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM		
26 25 13 00-0001	Plug-In Bus Duct <small>(26 25 13)</small>		
	Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002	600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003	LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	507.35	41.05
	For Up To 25, Add	126.84	
	For >25 To 50, Add	76.10	
	For >50 To 100, Add	38.05	
26 25 13 00-0004	LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	733.52	41.05
	For Up To 25, Add	183.38	
	For >25 To 50, Add	110.03	
	For >50 To 100, Add	55.01	
26 25 13 00-0005	LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	935.60	54.73
	For Up To 25, Add	233.90	
	For >25 To 50, Add	140.34	
	For >50 To 100, Add	70.17	
26 25 13 00-0006	LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,310.48	54.73
	For Up To 25, Add	327.62	
	For >25 To 50, Add	196.57	
	For >50 To 100, Add	98.29	
26 25 13 00-0007	LF 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,381.28	68.41
	For Up To 25, Add	345.32	
	For >25 To 50, Add	207.19	
	For >50 To 100, Add	103.60	
26 25 13 00-0008	LF 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,946.62	68.41
	For Up To 25, Add	486.66	
	For >25 To 50, Add	291.99	
	For >50 To 100, Add	146.00	
26 25 13 00-0009	LF 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,289.23	71.83
	For Up To 25, Add	572.31	
	For >25 To 50, Add	343.38	
	For >50 To 100, Add	171.69	
26 25 13 00-0010	LF 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,803.84	73.88
	For Up To 25, Add	700.96	
	For >25 To 50, Add	420.58	
	For >50 To 100, Add	210.29	
26 25 13 00-0011	LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	3,476.41	77.99
	For Up To 25, Add	869.10	
	For >25 To 50, Add	521.46	
	For >50 To 100, Add	260.73	
26 25 13 00-0012	LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	4,012.93	90.99
	For Up To 25, Add	1,003.23	
	For >25 To 50, Add	601.94	
	For >50 To 100, Add	300.97	
26 25 13 00-0013	LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	4,651.42	99.20
	For Up To 25, Add	1,162.86	
	For >25 To 50, Add	697.71	
	For >50 To 100, Add	348.86	
26 25 13 00-0014	277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015	LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	866.22	41.05
	For Up To 25, Add	216.56	
	For >25 To 50, Add	129.93	
	For >50 To 100, Add	64.97	
26 25 13 00-0016	LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,265.02	41.05
	For Up To 25, Add	316.26	
	For >25 To 50, Add	189.75	
	For >50 To 100, Add	94.88	
26 25 13 00-0017	LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,430.42	54.73
	For Up To 25, Add	357.61	
	For >25 To 50, Add	214.56	
	For >50 To 100, Add	107.28	
26 25 13 00-0018	LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,828.78	54.73
	For Up To 25, Add	457.20	
	For >25 To 50, Add	274.32	
	For >50 To 100, Add	137.16	
26 25 13 00-0019	LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,239.43	68.41
	For Up To 25, Add	559.86	
	For >25 To 50, Add	335.91	
	For >50 To 100, Add	167.96	
26 25 13 00-0020	LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,919.22	68.41
	For Up To 25, Add	729.81	
	For >25 To 50, Add	437.88	
	For >50 To 100, Add	218.94	
26 25 13 00-0021	LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,786.68	70.88
	For Up To 25, Add	946.67	
	For >25 To 50, Add	568.00	
	For >50 To 100, Add	284.00	
26 25 13 00-0022	LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	4,574.48	73.88
	For Up To 25, Add	1,143.62	
	For >25 To 50, Add	686.17	
	For >50 To 100, Add	343.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	5,689.91	77.31
For Up To 25, Add	1,422.48	
For >25 To 50, Add	853.49	
For >50 To 100, Add	426.74	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	6,567.02	90.99
For Up To 25, Add	1,641.76	
For >25 To 50, Add	985.05	
For >50 To 100, Add	492.53	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	7,620.09	99.20
For Up To 25, Add	1,905.02	
For >25 To 50, Add	1,143.01	
For >50 To 100, Add	571.51	
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,372.68	191.56
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,478.24	191.56
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,816.09	259.97
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,097.23	259.97
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,446.27	342.07
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,959.45	342.07
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,478.24	376.28
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,831.79	376.28
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,127.23	513.10
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,755.46	513.10
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,017.23	684.14
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,858.63	684.14
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,909.44	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.85	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	3,918.76	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.09	
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	3,847.97	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.85	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	4,986.00	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.09	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,200.38	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.52	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,617.90	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.90	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,546.64	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.52	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,973.83	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.90	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	5,600.94	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	246.09	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	13,488.01	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	534.48	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	14,736.77	1,641.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	743.62	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	17,562.86	1,641.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,315.64	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,904.68	136.83
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,073.91	136.83
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,891.62	164.19
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	4,858.79	328.38
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	12,433.80	738.87
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	18,301.42	1,286.17

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0066			600 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067	EA		30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,002.68	150.50
26 25 13 00-0068	EA		60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,166.49	150.50
26 25 13 00-0069	EA		100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,932.94	150.50
26 25 13 00-0070	EA		200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,008.88	314.71
26 25 13 00-0071	EA		400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	12,397.26	711.50
26 25 13 00-0072	EA		600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	18,560.57	1,368.27
26 25 13 00-0073	EA		800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	31,074.27	1,778.75
26 25 13 00-0074			120/208 Volt, 4-pole, 3 Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0075	EA		30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,211.99	177.88
26 25 13 00-0076	EA		60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,348.88	177.88
26 25 13 00-0077	EA		100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,179.11	177.88
26 25 13 00-0078	EA		200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,397.17	369.43
26 25 13 00-0079	EA		400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	13,592.97	820.96
26 25 13 00-0080	EA		600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	19,717.00	1,258.80
26 25 13 00-0081			277/480 Volt, 4-pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0082	EA		30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,291.62	177.88
26 25 13 00-0083	EA		60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,428.51	150.92
26 25 13 00-0084	EA		100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,408.12	205.24
26 25 13 00-0085	EA		200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,640.38	369.43
26 25 13 00-0086	EA		400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	13,592.97	820.96
26 25 13 00-0087	EA		600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	19,717.00	1,258.80
26 25 13 00-0088	EA		800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	31,690.76	1,669.29
26 25 16			Low-Voltage Cablebus Systems <small>(26 25)</small>		
26 25 16 00-0001			Feeder Bus Duct <small>(26 25 16)</small>		
			Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers and hardware support.		
26 25 16 00-0002			600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance <small>(26 25 16 00-0001)</small>		
			Note: Copper conductors.		
26 25 16 00-0003	LF		800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,602.65	57.46
			For Up To 25, Add	400.66	
			For >25 To 50, Add	240.40	
			For >50 To 100, Add	120.20	
26 25 16 00-0004	LF		1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,619.88	57.46
			For Up To 25, Add	404.97	
			For >25 To 50, Add	242.98	
			For >50 To 100, Add	121.49	
26 25 16 00-0005	LF		1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,135.20	57.46
			For Up To 25, Add	533.80	
			For >25 To 50, Add	320.28	
			For >50 To 100, Add	160.14	
26 25 16 00-0006	LF		1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,573.95	57.46
			For Up To 25, Add	643.49	
			For >25 To 50, Add	386.09	
			For >50 To 100, Add	193.05	
26 25 16 00-0007	LF		2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,152.41	57.46
			For Up To 25, Add	788.10	
			For >25 To 50, Add	472.86	
			For >50 To 100, Add	236.43	
26 25 16 00-0008	LF		3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,298.24	136.83
			For Up To 25, Add	1,074.56	
			For >25 To 50, Add	644.74	
			For >50 To 100, Add	322.37	
26 25 16 00-0009	LF		4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	5,960.76	136.83
			For Up To 25, Add	1,490.19	
			For >25 To 50, Add	894.11	
			For >50 To 100, Add	447.06	
26 25 16 00-0010	LF		5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	7,051.57	136.83
			For Up To 25, Add	1,762.89	
			For >25 To 50, Add	1,057.74	
			For >50 To 100, Add	528.87	
26 25 16 00-0011	LF		6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	8,700.46	136.83
			For Up To 25, Add	2,175.12	
			For >25 To 50, Add	1,305.07	
			For >50 To 100, Add	652.53	
26 25 16 00-0012			277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
			Note: Low impedance, copper conductors.		
26 25 16 00-0013	LF		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,846.77	61.57
			For Up To 25, Add	461.69	
			For >25 To 50, Add	277.02	
			For >50 To 100, Add	138.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,868.24	61.57
For Up To 25, Add	467.06	
For >25 To 50, Add	280.24	
For >50 To 100, Add	140.12	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,417.53	61.57
For Up To 25, Add	604.38	
For >25 To 50, Add	362.63	
For >50 To 100, Add	181.31	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,866.85	61.57
For Up To 25, Add	716.71	
For >25 To 50, Add	430.03	
For >50 To 100, Add	215.01	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,468.15	61.57
For Up To 25, Add	867.04	
For >25 To 50, Add	520.22	
For >50 To 100, Add	260.11	
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	5,346.36	105.36
For Up To 25, Add	1,336.59	
For >25 To 50, Add	801.95	
For >50 To 100, Add	400.98	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	6,708.17	105.36
For Up To 25, Add	1,677.04	
For >25 To 50, Add	1,006.23	
For >50 To 100, Add	503.11	
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	7,934.14	195.66
For Up To 25, Add	1,983.54	
For >25 To 50, Add	1,190.12	
For >50 To 100, Add	595.06	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	9,805.08	195.66
For Up To 25, Add	2,451.27	
For >25 To 50, Add	1,470.76	
For >50 To 100, Add	735.38	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	268.06	88.93
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	281.74	88.93
26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	369.45	109.46
26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	373.34	109.46
26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	673.65	123.14
26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	881.20	136.83
26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,075.33	150.50
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,661.08	684.14

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	240.31	27.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.83	
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	649.46	27.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.13	

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	567.80	177.88
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26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	923.79	85.52
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,210.39	102.62
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,495.52	119.72
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,731.95	136.83
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,241.43	153.93
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,423.24	171.03
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,831.14	205.24

26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,661.80	85.52
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,183.10	102.62
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,004.29	136.83
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,333.67	153.93
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,179.68	171.03

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,408.44	119.72
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,838.23	136.83
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,241.43	153.93
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,629.88	171.03
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,298.76	188.14
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,286.98	239.45
26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,143.49	119.72
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,797.63	136.83
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,928.76	171.03
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,369.82	205.24
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0046 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,011.13	102.62
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,313.97	119.72
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,615.35	136.83
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,872.43	153.93
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,290.40	171.03
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,472.20	188.14
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,042.47	222.35
26 27 13 00-0054 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,755.06	102.62
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,305.87	119.72
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,318.91	153.93
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,648.32	171.03
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,405.80	188.14
26 27 13 00-0060 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,495.81	136.83
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,931.50	153.93
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,378.99	171.03
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.44	188.14
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.87	205.24
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,632.87	222.35
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,513.12	256.55
26 27 13 00-0068 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,251.53	136.83
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,949.94	153.93
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.92	188.14
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,410.46	205.24
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,581.20	222.35
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	923.79	85.52
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,210.39	102.62
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,731.95	136.83
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,241.43	153.93
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,762.72	171.03
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,661.79	85.52
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,183.08	102.62



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,151.87	136.83
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,481.27	153.93
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,179.68	171.03
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,408.44	119.72
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,838.23	136.83
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,629.88	171.03
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,298.76	188.14
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0093 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,143.51	119.72
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,797.63	136.83
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,928.76	171.03
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,369.87	205.24
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0100 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,011.13	102.62
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,313.97	119.72
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,872.43	153.93
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,438.00	171.03
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,767.40	188.14
26 27 13 00-0106 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,755.04	102.62
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,305.85	119.72
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,171.31	153.93
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,500.72	171.03
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,405.76	188.14
26 27 13 00-0112 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,495.79	136.83
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,931.47	153.93
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.40	188.14
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,632.87	222.35
26 27 13 00-0118 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,251.51	136.83
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,949.91	153.93
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,410.46	205.24
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,581.20	222.35
26 27 13 00-0124 Watt/Hour Meters (26 27 13)		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	1,008.41	82.10
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	2,990.18	164.19
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,619.54	123.14
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	1,956.64	123.14
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,669.06	123.14
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,116.75	113.56
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,915.08	205.24
26 27 13 00-0132 Watt/Hour Meter Systems (26 27 13)		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker (26 27 13 00-0132)		
26 27 13 00-0134 EA 400 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,064.03	821.10
26 27 13 00-0135 EA 600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,859.57	821.10

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 27 13 00-0136	Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0137	EA 400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	8,556.84	821.10
26 27 13 00-0138	EA 600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,291.55	821.10
26 27 13 00-0139	EA 800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	11,027.22	821.10

26 27 16 Electrical Cabinets and Enclosures (26 27)

Note: Can be used as enclosure or pull/junction boxes.

26 27 16 00-0001	NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>		
26 27 16 00-0002	Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>		
26 27 16 00-0003	4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>		
26 27 16 00-0004	EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	81.85	27.36
26 27 16 00-0005	EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	91.42	30.10
26 27 16 00-0006	EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	101.05	32.83
26 27 16 00-0007	EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	117.95	38.32
26 27 16 00-0008	EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	128.03	41.05
26 27 16 00-0009	EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	138.71	43.79
26 27 16 00-0010	EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	138.40	43.79
26 27 16 00-0011	EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	149.31	46.52
26 27 16 00-0012	EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	160.66	49.26
26 27 16 00-0013	EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	209.52	65.68
26 27 16 00-0014	EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	253.96	79.36
26 27 16 00-0015	EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	242.07	76.62

26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0017	EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	101.65	32.83
26 27 16 00-0018	EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	122.39	38.32
26 27 16 00-0019	EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	146.63	46.52
26 27 16 00-0020	EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	157.75	49.26
26 27 16 00-0021	EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	169.07	51.99
26 27 16 00-0022	EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	180.82	54.73
26 27 16 00-0023	EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	230.70	71.15
26 27 16 00-0024	EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	280.55	87.57
26 27 16 00-0025	EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	270.81	84.84
26 27 16 00-0026	EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	352.01	109.46
26 27 16 00-0027	EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	442.25	125.88
26 27 16 00-0028	EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	500.77	136.83
26 27 16 00-0029	EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	552.71	145.03
26 27 16 00-0030	EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	597.82	150.50
26 27 16 00-0031	EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L).....	413.88	109.46

26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)

26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0034	EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	56.03	19.16
26 27 16 00-0035	EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	80.06	27.36
26 27 16 00-0036	EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	88.98	30.10

26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0038	EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	63.01	21.89
26 27 16 00-0039	EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	78.30	27.36
26 27 16 00-0040	EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	87.10	30.10
26 27 16 00-0041	EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.01	32.83
26 27 16 00-0042	EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	112.01	38.32
26 27 16 00-0043	EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	121.24	41.05
26 27 16 00-0044	EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.82	43.79
26 27 16 00-0045	EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.55	43.79
26 27 16 00-0046	EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	140.46	46.52
26 27 16 00-0047	EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	150.59	49.26
26 27 16 00-0048	EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	197.97	65.68
26 27 16 00-0049	EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	245.88	82.10
26 27 16 00-0050	EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	228.51	76.62
26 27 16 00-0051	EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	295.41	98.51
26 27 16 00-0052	EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	411.42	123.14

26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0054	EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.40	32.83
26 27 16 00-0055	EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	105.81	35.58
26 27 16 00-0056	EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	122.00	41.05
26 27 16 00-0057	EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	138.46	46.52
26 27 16 00-0058	EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	148.47	49.26
26 27 16 00-0059	EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	158.57	51.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	169.01	54.73
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	217.24	71.15
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	267.03	87.57
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	255.06	84.84
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	330.97	109.46
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	404.81	125.88
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	458.06	136.83
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	492.42	145.03
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	532.21	150.50
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	138.46	46.52
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	186.29	60.21
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	236.91	76.62
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	294.58	95.78
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	282.73	93.04
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	349.97	114.94
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	392.81	131.36
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	445.51	139.56
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	504.81	150.50
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	536.00	158.72
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	561.10	164.19
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	572.52	164.19
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	319.60	103.98
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	418.43	134.09
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	428.73	142.30
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	531.43	153.25
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	606.29	169.66
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	662.47	175.14
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	703.93	183.35
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	461.74	147.77
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	466.84	155.99
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	585.22	169.66
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	662.51	186.08
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	731.94	194.29
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	770.09	202.51
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12)	1,065.00	120.41
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	105.55	21.89
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	138.48	30.10
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	171.99	38.32
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	185.93	41.05
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	207.26	43.79
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	222.86	46.52
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	153.37	32.83
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	168.58	35.58
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	193.68	21.89
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	234.93	30.10
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	264.86	32.83
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	303.52	38.32
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	313.29	41.05
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	366.83	43.79
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	393.55	46.52

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0121	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	445.32	49.26
26 27 16 00-0122			6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0123	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	283.45	32.83
26 27 16 00-0124	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	319.38	35.58
26 27 16 00-0125	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	349.67	41.05
26 27 16 00-0126	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	414.05	49.26
26 27 16 00-0127	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	450.50	54.73
26 27 16 00-0128	EA		16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	622.31	71.15
26 27 16 00-0129	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	963.82	109.46
26 27 16 00-0130	EA		24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,250.64	125.88
26 27 16 00-0131	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,406.59	136.83
26 27 16 00-0132			8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0133	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,309.68	139.56
26 27 16 00-0134	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,502.35	150.50
26 27 16 00-0135	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,646.87	158.72
26 27 16 00-0136	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,808.44	164.19
26 27 16 00-0137	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,785.07	164.19
26 27 16 00-0138			Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0139			8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0140	EA		60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,470.53	222.35
26 27 16 00-0141			10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0142	EA		60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,535.30	246.29
26 27 16 00-0143	EA		60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,339.19	263.40
26 27 16 00-0144	EA		72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,306.43	328.38
26 27 16 00-0145	EA		72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,169.61	387.22
26 27 16 00-0146			12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0147	EA		60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,971.59	387.22
26 27 16 00-0148	EA		60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,645.44	410.48
26 27 16 00-0149	EA		72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,532.59	437.85
26 27 16 00-0150	EA		72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,287.75	437.85
26 27 16 00-0151			NEMA 3 Enclosures, Lockable (26 27 16) Note: Can be used underground or encased in concrete.		
26 27 16 00-0152			2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0153	EA		4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	310.04	95.78
26 27 16 00-0154			3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0155	EA		4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	328.78	95.78
26 27 16 00-0156	EA		5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	406.60	99.20
26 27 16 00-0157	EA		6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	419.36	99.20
26 27 16 00-0158	EA		6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	514.02	102.62
26 27 16 00-0159			4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0160	EA		4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	403.15	99.20
26 27 16 00-0161	EA		5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	436.51	99.20
26 27 16 00-0162	EA		6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	454.56	102.62
26 27 16 00-0163	EA		6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	557.03	102.62
26 27 16 00-0164	EA		8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	610.38	109.46
26 27 16 00-0165	EA		8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	656.14	116.31
26 27 16 00-0166	EA		10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	680.52	116.31
26 27 16 00-0167	EA		10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	798.44	119.72
26 27 16 00-0168	EA		12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	862.29	123.14
26 27 16 00-0169	EA		12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,162.12	136.83
26 27 16 00-0170			6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0171	EA		6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	586.96	106.04
26 27 16 00-0172	EA		8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	731.62	119.72
26 27 16 00-0173	EA		8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	847.30	123.14
26 27 16 00-0174	EA		10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	967.59	126.57
26 27 16 00-0175	EA		10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,025.07	126.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,161.81	136.83
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,341.38	153.93
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,265.14	147.09
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,452.62	273.66
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,173.12	342.07
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,036.02	129.98
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,543.91	171.03
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,567.39	171.03
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,137.75	256.55
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,778.71	273.66
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,927.40	478.90
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,691.98	342.07
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,611.82	410.48
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,637.35	376.28
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	101.97	27.36
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	112.52	30.10
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	158.74	32.83
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	199.63	41.05
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	223.51	46.52
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	260.52	51.99
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	280.67	54.73
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	365.35	71.15
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	438.53	87.57
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	507.19	109.46
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	752.57	139.56
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	831.81	150.50
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	929.24	158.72
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	975.54	164.19
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	930.91	169.66
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,051.52	191.56
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,164.32	212.09
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,282.19	233.98
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,396.37	254.50
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	621.74	134.09
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	930.91	169.66
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,085.14	175.14
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,353.64	191.56
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	883.43	135.46
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	990.98	151.88
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,097.17	168.30
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,212.86	186.08
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,320.40	202.51
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	660.20	101.25
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	883.43	135.46
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	990.98	151.88
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,165.40	177.88
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,320.40	202.51
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,259.81	199.77
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,320.40	202.51
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,387.34	207.98



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0236	EA		36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,536.92	218.92
26 27 16 00-0237	EA		42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,661.89	229.87
26 27 16 00-0238			Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0239			4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0240	EA		4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	74.15	21.89
26 27 16 00-0241	EA		6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	90.27	27.36
26 27 16 00-0242	EA		6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	99.60	30.10
26 27 16 00-0243	EA		8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	110.06	32.83
26 27 16 00-0244	EA		8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	127.92	38.32
26 27 16 00-0245	EA		10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	138.93	41.05
26 27 16 00-0246	EA		10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.72	43.79
26 27 16 00-0247	EA		12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.19	43.79
26 27 16 00-0248	EA		12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	163.23	46.52
26 27 16 00-0249	EA		12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	175.01	49.26
26 27 16 00-0250	EA		18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	265.98	76.62
26 27 16 00-0251	EA		18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	352.19	98.51
26 27 16 00-0252			6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0253	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	104.75	32.83
26 27 16 00-0254	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	140.36	41.05
26 27 16 00-0255	EA		10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	159.02	46.52
26 27 16 00-0256	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	171.54	49.26
26 27 16 00-0257	EA		12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	170.76	49.26
26 27 16 00-0258	EA		12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	183.93	51.99
26 27 16 00-0259	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	197.20	54.73
26 27 16 00-0260	EA		16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	257.18	71.15
26 27 16 00-0261	EA		18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	298.09	84.84
26 27 16 00-0262	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	395.18	109.46
26 27 16 00-0263	EA		24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	414.87	117.67
26 27 16 00-0264	EA		24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	468.28	125.88
26 27 16 00-0265	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	524.05	136.83
26 27 16 00-0266			8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0267	EA		12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	220.00	60.21
26 27 16 00-0268	EA		18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	322.65	93.04
26 27 16 00-0269	EA		18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	436.74	120.41
26 27 16 00-0270	EA		24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	518.34	139.56
26 27 16 00-0271	EA		24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	581.39	150.50
26 27 16 00-0272	EA		30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	640.07	158.72
26 27 16 00-0273			10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0274	EA		18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	482.68	134.09
26 27 16 00-0275	EA		24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	642.16	169.66
26 27 16 00-0276	EA		30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	696.98	175.14
26 27 16 00-0277			12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0278	EA		24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	708.48	186.08
26 27 16 00-0279	EA		30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	947.94	202.51
26 27 16 00-0280	EA		36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	978.80	207.98
26 27 16 00-0281	EA		36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,128.09	218.92
26 27 16 00-0282			NEMA 4 Enclosures, Lockable <small>(26 27 16)</small>		
			Note: Water-tight enclosures.		
26 27 16 00-0283			Hinge Cover, Painted Steel NEMA 4 Enclosures <small>(26 27 16 00-0282)</small>		
26 27 16 00-0284	EA		4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	119.18	19.16
26 27 16 00-0285	EA		6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	139.46	23.27
26 27 16 00-0286	EA		8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	174.58	30.10
26 27 16 00-0287	EA		6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	166.48	30.10
26 27 16 00-0288	EA		10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	222.71	41.05
26 27 16 00-0289	EA		12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	276.98	49.26
26 27 16 00-0290	EA		10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	256.13	46.52
26 27 16 00-0291	EA		12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	298.73	54.73
26 27 16 00-0292	EA		14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	351.14	62.94
26 27 16 00-0293	EA		16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	426.41	79.36
26 27 16 00-0294			Clamp Cover, Painted Steel NEMA 4 Enclosures <small>(26 27 16 00-0282)</small>		
26 27 16 00-0295	EA		4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	109.77	19.16
26 27 16 00-0296	EA		6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	157.09	30.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	138.40	26.27
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	147.17	28.46
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	181.23	37.21
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	211.40	41.05
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure.....	272.94	51.99
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure.....	319.20	61.57
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure.....	452.54	98.51
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16) Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure.....	233.24	21.89
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure.....	276.03	30.10
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure.....	350.58	41.05
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure.....	425.46	49.26
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure.....	525.09	62.94
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure.....	621.31	79.36
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	271.06	19.16
For 316 Stainless Steel, Add	35.71	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	353.97	27.36
For 316 Stainless Steel, Add	45.69	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	400.59	30.10
For 316 Stainless Steel, Add	52.05	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	457.53	32.83
For 316 Stainless Steel, Add	60.07	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	562.34	41.05
For 316 Stainless Steel, Add	73.56	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	787.61	51.99
For 316 Stainless Steel, Add	105.22	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	980.79	62.94
For 316 Stainless Steel, Add	131.75	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,184.42	79.36
For 316 Stainless Steel, Add	157.76	
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	141.58	30.10
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	158.89	32.83
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	182.18	38.32
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	197.75	41.05
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	228.01	46.52
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	215.79	46.52
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	250.36	51.99
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	312.68	62.94
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	402.25	86.20
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	524.41	124.10
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	151.19	30.10
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	170.25	32.83
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	194.40	38.32
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	212.57	41.05
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	243.72	46.52
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	230.64	46.52
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	270.49	51.99
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	323.15	62.94
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	424.07	86.20
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	547.96	124.10
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	168.64	30.10
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	180.72	32.83
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	205.73	38.32
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	222.18	41.05
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	262.05	46.52
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	242.85	46.52
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	295.78	51.99
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	351.96	62.94
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	436.29	86.20
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	568.91	124.10
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	175.62	30.10
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	193.80	32.83
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	217.95	38.32
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	235.26	41.05

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0358	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	279.50	46.52
26 27 16 00-0359	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	257.68	46.52
26 27 16 00-0360	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	314.12	51.99
26 27 16 00-0361	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	360.69	62.94
26 27 16 00-0362	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	465.08	86.20
26 27 16 00-0363	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	599.46	124.10
26 27 16 00-0364			NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small> Note: Nominal inside dimensions.		
26 27 16 00-0365			4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366	EA		6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,221.84	153.93
			<i>For Mounting Pan, Add</i>	48.38	
26 27 16 00-0367	EA		6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	997.05	164.19
			<i>For Mounting Pan, Add</i>	90.15	
26 27 16 00-0368	EA		8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,874.08	184.71
			<i>For Mounting Pan, Add</i>	124.31	
26 27 16 00-0369			6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370	EA		8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,677.74	184.71
			<i>For Mounting Pan, Add</i>	63.21	
26 27 16 00-0371	EA		8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,158.29	189.85
			<i>For Mounting Pan, Add</i>	124.31	
26 27 16 00-0372	EA		8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,214.33	205.24
			<i>For Mounting Pan, Add</i>	95.09	
26 27 16 00-0373	EA		10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,269.52	205.24
			<i>For Mounting Pan, Add</i>	111.26	
26 27 16 00-0374	EA		10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,190.30	256.55
			<i>For Mounting Pan, Add</i>	145.96	
26 27 16 00-0375	EA		12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,001.64	230.89
			<i>For Mounting Pan, Add</i>	91.14	
26 27 16 00-0376	EA		12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,114.74	256.55
			<i>For Mounting Pan, Add</i>	136.37	
26 27 16 00-0377	EA		12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,847.39	461.79
			<i>For Mounting Pan, Add</i>	183.47	
26 27 16 00-0378	EA		14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,816.49	307.86
			<i>For Mounting Pan, Add</i>	178.63	
26 27 16 00-0379	EA		16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,068.62	513.10
			<i>For Mounting Pan, Add</i>	163.99	
26 27 16 00-0380	EA		18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,018.83	513.10
			<i>For Mounting Pan, Add</i>	266.60	
26 27 16 00-0381			8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382	EA		8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,579.83	230.89
			<i>For Mounting Pan, Add</i>	95.09	
26 27 16 00-0383	EA		10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,596.98	230.89
			<i>For Mounting Pan, Add</i>	111.26	
26 27 16 00-0384	EA		10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,923.62	230.89
			<i>For Mounting Pan, Add</i>	145.96	
26 27 16 00-0385	EA		12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,239.91	256.55
			<i>For Mounting Pan, Add</i>	91.14	
26 27 16 00-0386	EA		12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,758.91	461.79
			<i>For Mounting Pan, Add</i>	136.37	
26 27 16 00-0387	EA		12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,792.35	564.42
			<i>For Mounting Pan, Add</i>	183.47	
26 27 16 00-0388	EA		12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,975.90	667.04
			<i>For Mounting Pan, Add</i>	275.91	
26 27 16 00-0389	EA		14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,246.81	564.42
			<i>For Mounting Pan, Add</i>	178.63	
26 27 16 00-0390	EA		16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,381.23	564.42
			<i>For Mounting Pan, Add</i>	163.99	
26 27 16 00-0391	EA		16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,893.06	615.73
			<i>For Mounting Pan, Add</i>	245.82	
26 27 16 00-0392	EA		18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,550.14	564.42
			<i>For Mounting Pan, Add</i>	266.60	
26 27 16 00-0393	EA		18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,673.23	615.73
			<i>For Mounting Pan, Add</i>	389.85	
26 27 16 00-0394	EA		18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,616.16	615.73
			<i>For Mounting Pan, Add</i>	519.73	
26 27 16 00-0395	EA		18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	13,302.44	820.96
			<i>For Mounting Pan, Add</i>	649.56	
26 27 16 00-0396	EA		24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	10,147.60	667.04
			<i>For Mounting Pan, Add</i>	603.98	
26 27 16 00-0397	EA		24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	18,284.44	1,026.20
			<i>For Mounting Pan, Add</i>	826.84	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,321.69	667.04
For Mounting Pan, Add	275.91	
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,581.79	615.73
For Mounting Pan, Add	245.82	
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,347.42	667.04
For Mounting Pan, Add	389.85	
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	11,739.17	718.34
For Mounting Pan, Add	649.56	
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	10,433.13	718.34
For Mounting Pan, Add	603.98	
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	19,868.55	1,026.20
For Mounting Pan, Add	826.84	
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,915.67	564.42
For Mounting Pan, Add	183.47	
26 27 16 00-0407 Breaker Enclosures <small>(26 27 16)</small>		
See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	396.23	109.46
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	688.00	109.46
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,643.50	150.50
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,210.30	164.19
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,631.46	164.19
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	615.32	150.50
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	621.86	150.50
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,089.09	150.50
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	3,577.50	191.56
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	929.10	191.56
26 27 16 00-0420 125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,002.61	301.02
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,154.77	301.02
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	6,088.40	383.12
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,613.26	383.12
26 27 16 00-0425 300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	1,957.17	574.68
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	3,174.89	574.68
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	10,976.38	738.87
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	6,091.43	738.87
26 27 16 00-0430 250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,331.49	574.68
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	3,766.86	574.68
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	7,573.71	738.87
26 27 16 00-0434 Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	20.50	6.84
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	23.85	6.84
26 27 19 Multi-Outlet Assemblies <small>(26 27)</small>		
26 27 19 00-0001 Surface Metal Raceway, Preamsembled With Outlets <small>(26 27 19)</small>		
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 27 19 00-0002 LF Single Circuit, Plugmold #2000, 3' With Outlets 6" On Center.....	31.25	9.99
For Concrete Or Masonry Surface, Add	1.00	
26 27 19 00-0003 LF Single Circuit, Plugmold #2000, 6' With Outlets 6" On Center.....	24.08	7.11
For Concrete Or Masonry Surface, Add	0.72	
26 27 19 00-0004 LF Single Circuit, Plugmold #2000, 6' With Outlets 9" On Center.....	22.87	7.52
For Concrete Or Masonry Surface, Add	0.75	
26 27 19 00-0005 LF Single Circuit, Plugmold #2000, 6' With Outlets 12" On Center.....	24.91	7.11
For Concrete Or Masonry Surface, Add	0.72	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 19 00-0006 LF Single Circuit, Plugmold #2000, 6' With Outlets 18" On Center <i>For Concrete Or Masonry Surface, Add</i>	20.59 0.72	7.25
26 27 19 00-0007 LF Two Circuits, Plugmold #2000, 6' With Outlets 9" On Center <i>For Concrete Or Masonry Surface, Add</i>	27.67 0.72	7.11
26 27 19 00-0008 LF Two Circuits, Plugmold #2000, 6' With Outlets 12" On Center <i>For Concrete Or Masonry Surface, Add</i>	24.66 0.72	7.11
26 27 19 00-0009 LF Two Circuits, Plugmold #2000, 6' With Outlets 18" On Center <i>For Concrete Or Masonry Surface, Add</i>	26.47 0.72	7.11
26 27 23 Indoor Service Poles <small>(26 27)</small>		
26 27 23 00-0001 Communication And Power Poles <small>(26 27 23)</small> Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002 Steel Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	285.25	60.64
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	306.56	60.64
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	331.20	60.64
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small> Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	58.46	12.50
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	51.74	12.50
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	57.53	12.50
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	44.68	12.50
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	38.20	12.50
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	358.31	60.64
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	404.10	60.64
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	428.81	60.64
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small> Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	41.82	12.50
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	38.40	12.50
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	40.85	12.50
26 27 23 00-0023 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	455.34	60.64
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	510.46	60.64
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	546.79	60.64
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small> Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	41.82	12.50
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	38.40	12.50
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	40.85	12.50
26 27 23 00-0032 Aluminum Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	372.65	60.64
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	411.18	60.64
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	454.38	60.64
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0110 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	650.45	121.78
26 27 26 00-0111 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	723.59	136.83
26 27 26 00-0112 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	750.76	136.83
26 27 26 00-0113 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	809.06	150.50
26 27 26 00-0114 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	807.02	150.50
26 27 26 00-0115 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	810.86	150.50
26 27 26 00-0116 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0117 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles.....	78.68	13.69
26 27 26 00-0118 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles.....	155.48	17.10
26 27 26 00-0119 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0120 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle..... Note: Pass & Seymour 3232-TR.	32.05	13.69
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle..... Note: Pass & Seymour TR20.	34.47	13.69
26 27 26 00-0122 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour TR5251.	41.40	13.69
26 27 26 00-0123 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour TR5351.	44.65	13.69
26 27 26 00-0124 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	64.18	13.69
26 27 26 00-0125 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	68.84	13.69
26 27 26 00-0126 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	73.28	13.69
26 27 26 00-0127 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0128 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	65.92	13.69
26 27 26 00-0129 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	70.74	13.69
26 27 26 00-0130 Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0131 EA TV Receptacle With Cover (Type F), Complete.....	85.06	31.74
26 27 26 00-0132 Switches (26 27 26)		
26 27 26 00-0133 Switches (26 27 26 00-0132)		
26 27 26 00-0134 Switch Assemblies (26 27 26 00-0133)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0135 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	115.34	47.89
26 27 26 00-0136 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	124.08	51.99
26 27 26 00-0137 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	153.93	62.60
26 27 26 00-0138 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	168.68	69.44
26 27 26 00-0139 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	264.07	107.41
26 27 26 00-0140 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	286.19	117.67
26 27 26 00-0141 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	302.40	121.44
26 27 26 00-0142 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	331.89	135.11
26 27 26 00-0143 Switch Components (26 27 26 00-0133)		
26 27 26 00-0144 EA 15 Amperes, 120/277 Volt, SPST Switch.....	35.25	13.69
26 27 26 00-0145 EA 15 Amperes, 120/277 Volt, 3-Way Switch.....	44.58	17.10
26 27 26 00-0146 EA 15 Amperes, 120/277 Volt, 4-Way Switch.....	84.82	27.36
26 27 26 00-0147 EA 15 Amperes, 120/277 Volt, DPST Switch.....	39.84	13.69
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	73.44	17.10
26 27 26 00-0149 EA 20 Amperes, 120/277 Volt, SPST Switch.....	42.63	17.10
26 27 26 00-0150 EA 20 Amperes, 120/277 Volt, 3-Way Switch.....	52.57	20.52
26 27 26 00-0151 EA 20 Amperes, 120/277 Volt, 4-Way Switch.....	112.12	27.36
26 27 26 00-0152 EA 20 Amperes, 120/277 Volt, DPST Switch.....	49.99	17.10
26 27 26 00-0153 EA 20 Amperes, 120/277 Volt, DPDT Switch.....	53.25	17.10
26 27 26 00-0154 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch.....	74.75	17.13
26 27 26 00-0155 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch.....	93.13	17.13
26 27 26 00-0156 EA Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125V.	72.91	20.55
26 27 26 00-0157 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off..... Note: Or 250 VAC 10 Amp, double throw BAT handle.	64.24	23.95
26 27 26 00-0158 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	78.54	27.36
26 27 26 00-0159 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	112.19	27.36
26 27 26 00-0160 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch.....	77.59	27.40
26 27 26 00-0161 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	94.11	27.40
26 27 26 00-0162 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	99.77	34.26
26 27 26 00-0163 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	136.85	37.68

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	71.97	22.41
26 27 26 00-0165 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	97.16	22.41
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0166 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch.....	86.30	22.41
26 27 26 00-0167 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch.....	82.56	22.41
26 27 26 00-0168 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	84.79	11.10
26 27 26 00-0169 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch	89.85	11.10
26 27 26 00-0170 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	100.38	42.76
26 27 26 00-0171 EA Three Position, Center Off, Key Operated, Momentary Contact Switch.....	118.76	42.76
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	135.99	13.71
26 27 26 00-0173 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH)	99.57	13.71
26 27 26 00-0174 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	225.25	13.69
26 27 26 00-0175 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	52.15	13.69
26 27 26 00-0176 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	106.25	13.71
26 27 26 00-0177 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	122.22	13.71
26 27 26 00-0178 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	157.07	13.71
26 27 26 00-0179 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	139.81	13.71
26 27 26 00-0180 Specialty Switches (26 27 26 00-0132)		
26 27 26 00-0181 Dimmers With SPST Switch (26 27 26 00-0180)		
26 27 26 00-0182 EA 600 Watt Dimmers With SPST Switch	78.63	30.79
26 27 26 00-0183 EA 1,000 Watt Dimmers With SPST Switch	131.86	30.79
26 27 26 00-0184 EA 1,500 Watt Dimmers With SPST Switch	236.57	49.53
26 27 26 00-0185 EA 2,000 Watt Dimmers With SPST Switch	304.49	49.53
26 27 26 00-0186 EA 600 Watt Fluorescent Dimmer Switch.....	170.91	36.53
26 27 26 00-0187 EA 1,000 Watt Fluorescent Dimmer Switch.....	229.35	36.53
26 27 26 00-0188 EA 1,500 Watt Fluorescent Dimmer Switch.....	413.44	55.14
26 27 26 00-0189 EA Remote Speed Switch For Paddle Fan.....	128.74	45.56
26 27 26 00-0190 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	211.23	68.00
26 27 26 00-0191 Time Switches (26 27 26 00-0180)		
26 27 26 00-0192 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	143.58	41.05
26 27 26 00-0193 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	146.65	41.05
26 27 26 00-0194 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	143.58	41.05
26 27 26 00-0195 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	146.65	41.05
26 27 26 00-0196 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	164.07	41.05
26 27 26 00-0197 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	164.07	41.05
26 27 26 00-0198 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0199 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0200 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	246.19	41.05
26 27 26 00-0201 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	269.89	41.05
26 27 26 00-0202 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	269.89	41.05
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch.....	325.88	41.05
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch.....	335.31	41.05
26 27 26 00-0205 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch.....	143.58	41.05
26 27 26 00-0206 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch.....	146.65	41.05
26 27 26 00-0207 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	143.58	41.05
26 27 26 00-0208 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	146.65	41.05
26 27 26 00-0209 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	164.07	41.05
26 27 26 00-0210 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	164.07	41.05
26 27 26 00-0211 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	284.99	41.05
26 27 26 00-0212 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	284.99	41.05
26 27 26 00-0213 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	325.88	41.05
26 27 26 00-0214 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	335.31	41.05
26 27 26 00-0215 Low Voltage Switching (26 27 26 00-0180)		
26 27 26 00-0216 EA 36 Pin Male Or Female Connector.....	226.14	13.69
26 27 26 00-0217 Other Switches (26 27 26 00-0180)		
26 27 26 00-0218 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	44.85	20.52
26 27 26 00-0219 EA SPST Locking Switch For Concealed Devices	135.87	54.73
26 27 26 00-0220 EA 3-Way Locking Switch For Concealed Devices.....	137.54	54.73
26 27 26 00-0221 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	149.19	51.17
26 27 26 00-0222 EA 15 Amperes Momentary Contact Switch.....	142.48	51.17
26 27 26 00-0223 EA 20 Amperes Momentary Contact Switch.....	149.55	51.17
26 27 26 00-0224 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	143.03	61.66
26 27 26 00-0225 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	145.01	61.66
26 27 26 00-0226 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	178.32	75.37
26 27 26 00-0227 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	162.16	68.51
26 27 26 00-0228 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	162.66	68.51
26 27 26 00-0229 Plates And Covers (26 27 26)		
26 27 26 00-0230 Wall Plates (26 27 26 00-0229)		



Electrical	26
Low-Voltage Electrical Distribution	26 20
Low-Voltage Distribution Equipment	26 27

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0231 Nylon Wall Plates <small>(26 27 26 00-0230)</small>		
26 27 26 00-0232 EA 1 Gang Nylon Switch Wall Plates	1.97	0.68
26 27 26 00-0233 EA 2 Gang Nylon Switch Wall Plates	3.27	1.02
26 27 26 00-0234 EA 3 Gang Nylon Switch Wall Plates	4.59	1.37
26 27 26 00-0235 EA 4 Gang Nylon Switch Wall Plate	6.48	1.72
26 27 26 00-0236 EA 1 Gang Duplex Nylon Wall Plate	1.98	0.68
26 27 26 00-0237 EA 2 Gang Duplex Nylon Wall Plate	3.34	1.02
26 27 26 00-0238 Plastic Wall Plates <small>(26 27 26 00-0230)</small>		
26 27 26 00-0239 EA 1 Gang Plastic Switch Wall Plates	1.85	0.68
26 27 26 00-0240 EA 2 Gang Plastic Switch Wall Plates	3.03	1.02
26 27 26 00-0241 EA 3 Gang Plastic Switch Wall Plates	4.21	1.37
26 27 26 00-0242 EA 4 Gang Plastic Switch Wall Plates	6.48	1.72
26 27 26 00-0243 EA 1 Gang Duplex Plastic Wall Plate	1.85	0.68
26 27 26 00-0244 EA 2 Gang Duplex Plastic Wall Plate	3.03	1.02
26 27 26 00-0245 Brass Wall Plates <small>(26 27 26 00-0230)</small>		
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Switch Wall Plates	17.51	3.08
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Switch Wall Plates	31.73	3.56
26 27 26 00-0248 EA 3 Gang, 0.04" Brass Switch Wall Plates	45.83	3.97
26 27 26 00-0249 EA 4 Gang, 0.04" Brass Switch Wall Plates	70.40	4.31
26 27 26 00-0250 EA 5 Gang, 0.04" Brass Switch Wall Plates	85.42	4.59
26 27 26 00-0251 EA 6 Gang, 0.04" Brass Switch Wall Plates	98.62	4.80
26 27 26 00-0252 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	17.51	3.08
26 27 26 00-0253 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	36.89	3.56
26 27 26 00-0254 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	52.64	3.97
26 27 26 00-0255 Stainless Steel Wall Plates <small>(26 27 26 00-0230)</small>		
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	10.05	3.08
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	15.44	3.56
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	21.10	3.97
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	30.22	4.31
26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	35.36	4.59
26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	42.40	4.80
26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	10.87	3.08
26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	17.37	3.56
26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	27.49	3.97
26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	33.00	4.31
26 27 26 00-0266 Chrome Wall Plates <small>(26 27 26 00-0230)</small>		
26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate	33.56	3.08
26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate	61.79	3.56
26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate	89.99	3.97
26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	33.53	3.08
26 27 26 00-0271 Weatherproof Covers <small>(26 27 26 00-0229)</small>		
26 27 26 00-0272 Stamped Metallic Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	10.33	0.68
26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	11.16	0.68
26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	11.16	0.68
26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	11.16	0.68
26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	13.79	1.02
26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	15.58	1.02
26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	15.76	1.02
26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	15.76	1.02
26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	21.22	1.02
26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	20.32	1.37
26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	22.15	1.37
26 27 26 00-0284 Cast Metallic Weatherproof Covers <small>(26 27 26 00-0271)</small>		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	12.56	0.68
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	39.26	0.68
26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	43.98	0.68
26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	12.47	0.68
26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	33.34	0.68
26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	55.21	0.68
26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	70.18	0.68
26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	15.76	1.02
26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	110.84	1.02
26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	26.18	1.37
26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST)	106.10	1.37

26	26 Electrical
	26 20 Low-Voltage Electrical Distribution
	26 27 Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0271)</small> Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.32	0.68
26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	6.77	0.68
26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	9.12	1.02
26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	9.88	1.02
26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	9.88	1.02
26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	10.96	1.02
26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0271)</small> Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	52.41	0.68
26 27 26 00-0305 Polycarbonate Weatherproof Covers <small>(26 27 26 00-0271)</small> Note: Includes neoprene gasket.		
26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	10.73	0.68
26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	10.73	0.68
26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.73	0.68
26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	13.32	1.02
26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	13.32	1.02
26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers <small>(26 27 26 00-0271)</small> Note: Includes neoprene gasket.		
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	74.24	0.68
26 27 26 00-0313 Non Metallic (PVC) Weatherproof Covers <small>(26 27 26 00-0271)</small> Note: Includes neoprene gasket.		
26 27 26 00-0314 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.03	0.68
26 27 26 00-0315 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	13.03	1.02
26 27 26 00-0316 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.07	0.68
26 27 26 00-0317 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	26.28	0.68
26 27 26 00-0318 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	30.42	0.68
26 27 26 00-0319 EA 20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	24.71	0.68
26 27 26 00-0320 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	18.48	0.68
26 27 26 00-0321 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	21.58	0.68
26 27 26 00-0322 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	19.33	0.68
26 27 26 00-0323 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	27.84	1.02
26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices <small>(26 27 26)</small> Note: Includes storage and cleaning.		
26 27 26 00-0325 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	90.02	
26 27 26 00-0326 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	11.40	
26 27 26 00-0327 Relay Systems <small>(26 27 26)</small>		
26 27 26 00-0328 EA 10 Amperes, 24 Volt Coil, 2 Position Relay	94.62	30.79
26 27 26 00-0329 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	382.37	102.62
26 27 26 00-0330 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	628.21	136.83
26 27 26 00-0331 Limit Switches <small>(26 27 26)</small>		
26 27 26 00-0332 Heavy Duty Precision Oiltight <small>(26 27 26 00-0331)</small>		
26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type <small>(26 27 26 00-0332)</small>		
26 27 26 00-0334 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated	443.89	86.20
26 27 26 00-0335 In Line Midget Fuseholders <small>(26 27 26)</small> See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0336 EA Single Pole Water Resistant In Line Midget Fuseholder	87.91	
26 27 26 00-0337 EA Double Pole Water Resistant In Line Midget Fuseholder.....	184.96	
26 27 33 Power Distribution Units <small>(26 27)</small> Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center <small>(26 27 33)</small> Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	17,322.86	420.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	20,891.06	456.04
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	23,801.98	506.26
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	27,368.88	547.31
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	29,907.56	684.14
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	33,578.75	820.96
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	38,748.85	957.79
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	40,787.89	1,094.61
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	43,126.70	1,231.44
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA.....	1,586.04	136.83
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA.....	2,353.94	171.03
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA.....	5,220.32	205.24
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit.....	2,189.23	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only.....	1,641.93	
26 27 73 Door Chimes (26 27)		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer (26 27 73)		
Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	76.60	17.57
26 27 73 00-0003 Wireless Door Bell System (26 27 73)		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	133.19	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	126.50	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300)	99.17	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Chimes (26 27 73)		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete	736.23	285.01
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	292.79	68.41
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete.....	119.65	34.21
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	27.43	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.99	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.39	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.30	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.86	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	25.77	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	25.51	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.37	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.05	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.67	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.24	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.93	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.00	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.35	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.17	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.82	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.57</i>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.91	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.35	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28		
<small>13 00-0013)</small>		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	111.44	12.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	115.01	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.45	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.89	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	200.38	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.22	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.57	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.10	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	373.47	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	379.04	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	425.05	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	386.86	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	680.07	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	611.81	24.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	536.50	24.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.33	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.84	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.69	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.53	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	44.95	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.08	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	45.62	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.55	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.92	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	40.47	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.70	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26		
<small>28 13)</small>		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	48.75	6.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	49.08	6.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.18	8.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	45.60	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	46.40	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	45.68	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	58.67	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	50.62	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28	13 00-0099	EA	35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.64 8.21	13.69
26 28	13 00-0100	EA	40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.30 8.21	13.69
26 28	13 00-0101	EA	45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.06 8.21	13.69
26 28	13 00-0102	EA	50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.01 10.26	17.10
26 28	13 00-0103	EA	60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.90 10.26	17.10
26 28	13 00-0104	EA	70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.54 12.32	20.52
26 28	13 00-0105	EA	80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.68 12.32	20.52
26 28	13 00-0106	EA	90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.11 12.32	20.52
26 28	13 00-0107	EA	100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.68 14.37	23.95
26 28	13 00-0108	EA	110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.17 14.37	23.95
26 28	13 00-0109	EA	125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.16 14.37	23.95
26 28	13 00-0110	EA	150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.90 16.42	27.36
26 28	13 00-0111	EA	175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.29 16.42	27.36
26 28	13 00-0112	EA	200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.38 16.42	27.36
26 28	13 00-0113	EA	225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	366.10 16.42	27.36
26 28	13 00-0114	EA	250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	340.05 16.42	27.36
26 28	13 00-0115	EA	300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	314.98 16.42	27.36
26 28	13 00-0116	EA	350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.66 16.42	27.36
26 28	13 00-0117	EA	400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.33 18.47	30.79
26 28	13 00-0118	EA	450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	585.98 18.47	30.79
26 28	13 00-0119	EA	500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	503.53 20.52	34.21
26 28	13 00-0120	EA	600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	381.25 20.52	34.21
26 28	13 00-0121		600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
26 28	13 00-0122	EA	100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.16 10.26	17.10
26 28	13 00-0123	EA	150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,091.28 10.26	17.10
26 28	13 00-0124	EA	200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,093.26 10.26	17.10
26 28	13 00-0125	EA	250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,092.50 12.32	20.52
26 28	13 00-0126	EA	300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,007.45 12.32	20.52
26 28	13 00-0127	EA	350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,079.56 14.37	23.95
26 28	13 00-0128	EA	400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	995.13 14.37	23.95
26 28	13 00-0129	EA	450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,110.75 14.37	23.95
26 28	13 00-0130	EA	500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.45 14.37	23.95
26 28	13 00-0131	EA	600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	973.83 16.42	27.36
26 28	13 00-0132	EA	601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	999.45 16.42	27.36
26 28	13 00-0133	EA	650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,321.52 16.42	27.36
26 28	13 00-0134	EA	700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	969.18 16.42	27.36
26 28	13 00-0135	EA	750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,479.19 18.47	30.79
26 28	13 00-0136	EA	800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	862.53 18.47	30.79
26 28	13 00-0137	EA	900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,248.10 18.47	30.79
26 28	13 00-0138	EA	1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	848.44 18.47	30.79
26 28	13 00-0139	EA	1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	872.95 18.47	30.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,910.17	30.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47	
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,883.68	30.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47	
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,701.95	30.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47	
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,075.45	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,248.20	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,449.26	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,949.41	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,301.36	34.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,172.77	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,460.56	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	5,170.88	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,002.93	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,721.38	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	7,795.66	37.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 28 16 Enclosed Switches and Circuit Breakers (26 28)		
26 28 16 13 Enclosed Circuit Breakers (26 28 16)		
26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)		
Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.		
26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0003 EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	61.48	24.63
For Bolt-On, Add	17.26	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	61.48	24.63
For Bolt-On, Add	17.26	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	83.98	30.79
For Bolt-On, Add	22.47	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	110.75	30.79
For Bolt-On, Add	25.62	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0007 EA 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	141.36	30.79
For Bolt-On, Add	29.64	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	158.81	30.79
For Bolt-On, Add	31.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	93.89	30.79
For Bolt-On, Add	23.71	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0010 EA 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	97.67	36.94
For Bolt-On, Add	26.58	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	97.67	36.94
For Bolt-On, Add	26.58	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	140.60	49.26
For Bolt-On, Add	36.73	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	212.10	61.57
For Bolt-On, Add	50.46	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	244.98	68.41
For Bolt-On, Add	56.96	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	194.13	43.79
For Bolt-On, Add	41.51	
For Installation In New Panelboard, Deduct	-24.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.55	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	244.20	43.79
For Bolt-On, Add	47.76	
For Installation In New Panelboard, Deduct	-24.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.55	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	163.96	49.26
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	163.96	49.26
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	211.80	61.57
For Bolt-On, Add	50.42	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	300.40	73.88
For Bolt-On, Add	66.28	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	374.88	86.20
For Bolt-On, Add	80.38	
For Installation In New Panelboard, Deduct	-47.89	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.47	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	77.34	24.63
For Bolt-On, Add	19.25	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	77.34	24.63
For Bolt-On, Add	19.25	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	124.53	30.79
For Bolt-On, Add	27.54	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	175.99	30.79
For Bolt-On, Add	33.97	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.43	36.94
For Bolt-On, Add	31.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.43	36.94
For Bolt-On, Add	31.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	250.31	49.26
For Bolt-On, Add	50.44	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	335.30	61.57
For Bolt-On, Add	65.86	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	469.21	68.41
For Bolt-On, Add	84.99	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	212.40	49.26
For Bolt-On, Add	45.71	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	212.40	49.26
For Bolt-On, Add	45.71	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	305.17	61.57
For Bolt-On, Add	62.09	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	420.00	73.88
For Bolt-On, Add	81.23	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	621.22	86.20
For Bolt-On, Add	111.18	
For Installation In New Panelboard, Deduct	-47.89	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.47	
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	709.54	92.36
For Bolt-On, Add	124.61	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	761.54	98.51
For Bolt-On, Add	133.50	
For Installation In New Panelboard, Deduct	-54.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.68	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....	888.87	104.67
For Bolt-On, Add	151.82	
For Installation In New Panelboard, Deduct	-58.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.78	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	87.76	24.63
For Bolt-On, Add	20.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	87.76	24.63
For Bolt-On, Add	20.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	134.82	30.79
For Bolt-On, Add	28.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	166.59	36.94
For Bolt-On, Add	35.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	166.59	36.94
For Bolt-On, Add	35.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	276.36	49.26
For Bolt-On, Add	53.70	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	642.39	61.57
For Bolt-On, Add	104.24	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	257.23	49.26
For Bolt-On, Add	51.31	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	257.23	49.26
For Bolt-On, Add	51.31	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	337.80	61.57
For Bolt-On, Add	66.17	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	792.84	73.88
For Bolt-On, Add	127.84	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	96.61	24.63
For Bolt-On, Add	21.65	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	96.61	24.63
For Bolt-On, Add	21.65	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	115.67	30.79
For Bolt-On, Add	26.43	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GF1, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	174.81	30.79
For Bolt-On, Add	33.82	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	189.68	36.94
For Bolt-On, Add	38.08	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	189.68	36.94
For Bolt-On, Add	38.08	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.52	49.26
For Bolt-On, Add	48.47	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	328.56	61.57
For Bolt-On, Add	65.02	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	412.92	68.41
For Bolt-On, Add	77.95	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	511.00	80.05
For Bolt-On, Add	95.00	
For Installation In New Panelboard, Deduct	-44.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	557.38	92.36
For Bolt-On, Add	105.59	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.91	49.26
For Bolt-On, Add	48.52	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.91	49.26
For Bolt-On, Add	48.52	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	279.38	61.57
For Bolt-On, Add	58.87	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	404.71	73.88
For Bolt-On, Add	79.32	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	529.65	95.78
For Bolt-On, Add	103.32	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	647.23	110.83
For Bolt-On, Add	124.00	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	687.42	117.67
For Bolt-On, Add	131.42	
For Installation In New Panelboard, Deduct	-64.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.99	
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On ⁽²⁶²⁸⁾_{16 13-0001}		
Note: Includes connection of electrical wire.		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	195.45	36.94
For Bolt-On, Add	38.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	195.45	36.94
For Bolt-On, Add	38.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	290.29	49.26
For Bolt-On, Add	55.44	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	453.18	61.57
For Bolt-On, Add	80.59	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	687.06	76.62
For Bolt-On, Add	115.81	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	771.64	80.05
For Bolt-On, Add	127.58	
For Installation In New Panelboard, Deduct	-44.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	
26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	848.02	92.36
For Bolt-On, Add	141.92	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	277.06	49.26
For Bolt-On, Add	53.79	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	277.06	49.26
For Bolt-On, Add	53.79	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	348.53	61.57
For Bolt-On, Add	67.51	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	561.06	73.88
For Bolt-On, Add	98.87	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	807.51	95.78
For Bolt-On, Add	138.05	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	951.94	110.83
For Bolt-On, Add	162.09	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,027.01	117.67
For Bolt-On, Add	173.87	
For Installation In New Panelboard, Deduct	-64.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.99	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	201.18	36.94
For Bolt-On, Add	39.52	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	201.18	36.94
For Bolt-On, Add	39.52	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	343.22	49.26
For Bolt-On, Add	62.06	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	599.93	61.57
For Bolt-On, Add	98.94	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	929.64	76.62
For Bolt-On, Add	146.14	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,050.63	80.05
For Bolt-On, Add	162.46	
For Installation In New Panelboard, Deduct	-44.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	
26 28 16 13-0093 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,149.09	92.36
For Bolt-On, Add	179.55	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	316.75	49.26
For Bolt-On, Add	58.75	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	316.75	49.26
For Bolt-On, Add	58.75	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	417.34	61.57
For Bolt-On, Add	76.11	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	



			Electrical	26
			Low-Voltage Electrical Distribution	26 20
			Low-Voltage Circuit Protective Devices	26 28

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 728.73		73.88
For Bolt-On, Add	119.82	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 922.78		95.78
For Bolt-On, Add	152.46	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,430.96		110.83
For Bolt-On, Add	221.97	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,522.97		117.67
For Bolt-On, Add	235.87	
For Installation In New Panelboard, Deduct	-64.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.99	
26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On (2628		
16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 111.06		24.63
For Bolt-On, Add	23.46	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0103 EA 1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 111.06		24.63
For Bolt-On, Add	23.46	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0104 EA 1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 180.37		30.79
For Bolt-On, Add	34.52	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 224.66		36.94
For Bolt-On, Add	42.45	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 224.66		36.94
For Bolt-On, Add	42.45	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 391.80		49.26
For Bolt-On, Add	68.13	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 696.96		61.57
For Bolt-On, Add	111.07	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 1,312.89		76.62
For Bolt-On, Add	194.04	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 359.11		49.26
For Bolt-On, Add	64.04	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 359.11		49.26
For Bolt-On, Add	64.04	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 476.19		61.57
For Bolt-On, Add	83.47	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 856.64		73.88
For Bolt-On, Add	135.81	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,632.11	95.78
For Bolt-On, Add	241.13	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001)} Note: Includes connection of electrical wire.		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	151.76	24.63
For Bolt-On, Add	28.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	151.76	24.63
For Bolt-On, Add	28.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	223.66	30.79
For Bolt-On, Add	39.93	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	271.75	36.94
For Bolt-On, Add	48.34	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	271.75	36.94
For Bolt-On, Add	48.34	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	493.17	49.26
For Bolt-On, Add	80.80	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	868.97	61.57
For Bolt-On, Add	132.57	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,680.94	68.41
For Bolt-On, Add	236.46	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	453.48	49.26
For Bolt-On, Add	75.84	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	453.48	49.26
For Bolt-On, Add	75.84	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	621.99	61.57
For Bolt-On, Add	101.69	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	984.54	73.88
For Bolt-On, Add	151.80	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,130.66	95.78
For Bolt-On, Add	303.45	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001)} Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	81.50	24.63
For Bolt-On, Add	19.77	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	157.55	36.94
For Bolt-On, Add	34.06	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	240.89	49.26
For Bolt-On, Add	49.27	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	144.79	24.63
For Bolt-On, Add	27.68	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	144.79	24.63
For Bolt-On, Add	27.68	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	288.53	49.26
For Bolt-On, Add	55.22	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	310.54	36.94
For Bolt-On, Add	53.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	310.54	36.94
For Bolt-On, Add	53.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	580.60	49.26
For Bolt-On, Add	91.73	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	966.00	61.57
For Bolt-On, Add	144.70	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,074.71	76.62
For Bolt-On, Add	289.27	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	508.97	49.26
For Bolt-On, Add	82.78	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	508.97	49.26
For Bolt-On, Add	82.78	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	702.54	61.57
For Bolt-On, Add	111.76	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,055.11	73.88
For Bolt-On, Add	160.62	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,579.61	95.78
For Bolt-On, Add	359.57	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001	Motor And Circuit Disconnects <small>(26 28 16 16)</small>	
	Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.	
26 28 16 16-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>	
26 28 16 16-0003	Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>	
	Note: Includes fuses and neutral bar.	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0004 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0005 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	464.75	136.83
26 28 16 16-0006 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	711.94	164.87
26 28 16 16-0007 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	966.04	192.93
26 28 16 16-0008 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,653.74	303.75
26 28 16 16-0009 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,452.40	472.05
26 28 16 16-0010 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,731.93	697.82
26 28 16 16-0011 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,771.32	820.96
26 28 16 16-0012 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,380.78	957.79
26 28 16 16-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	686.60	152.02
26 28 16 16-0015 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	828.29	183.21
26 28 16 16-0016 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,288.84	214.13
26 28 16 16-0017 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,913.53	337.96
26 28 16 16-0018 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,096.96	524.32
26 28 16 16-0019 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,370.89	774.99
26 28 16 16-0020 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,334.85	911.68
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,686.60	1,064.24
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	668.70	214.82
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	973.59	285.29
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,286.14	316.75
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,032.57	496.00
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,142.55	814.12
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,669.79	1,140.45
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	857.63	237.39
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,095.51	316.75
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,573.36	356.44
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,323.44	543.20
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,051.90	877.06
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,076.11	1,267.02
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,662.33	1,505.10
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,106.86	1,710.34
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	650.35	214.82



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	949.88	285.29
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,243.00	316.75
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,091.91	496.00
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,476.98	814.12
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,172.91	1,140.45
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,705.19	1,436.68
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,386.34	1,641.93
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	924.97	237.39
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,178.26	316.75
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,694.36	356.44
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,504.57	543.20
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,438.36	877.06
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,758.64	1,267.02
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,795.49	1,505.10
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	17,330.91	1,710.34
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	453.14	197.99
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	695.62	275.43
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	942.48	316.75
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,478.98	506.80
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,937.96	844.63
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,744.45	1,151.81
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,708.23	1,368.27
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,804.01	1,596.91
26 28 16 16-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	500.45	218.51
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	786.94	309.10
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,063.68	351.92
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,651.90	550.87
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,160.67	904.97
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,246.88	1,266.88
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,400.92	1,368.27
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,752.62	1,596.91
26 28 16 16-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	535.80	177.88

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	810.61	247.65
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,074.72	285.29
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,691.64	456.31
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,328.45	760.08
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,293.56	1,036.46
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,898.40	1,231.44
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,531.70	1,436.68
26 28 16 16-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0085 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	585.41	196.34
26 28 16 16-0086 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	893.55	278.45
26 28 16 16-0087 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,174.10	316.75
26 28 16 16-0088 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,826.64	496.00
26 28 16 16-0089 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,566.18	814.12
26 28 16 16-0090 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,730.90	1,140.45
26 28 16 16-0091 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,356.31	1,231.44
26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	619.58	196.62
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	951.82	278.16
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,268.87	316.75
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,972.61	495.72
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,770.36	814.39
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,335.19	1,140.18
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,046.52	1,231.44
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	13,077.28	1,436.68
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	864.00	178.15
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,056.76	247.93
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,582.40	285.01
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,385.98	456.04
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	937.13	196.34
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,157.31	278.45
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,718.06	316.75
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,570.59	496.00
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,032.24	196.62
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,262.21	278.16
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,906.71	316.75
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,845.39	495.72
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small> Note: Includes fuses and neutral bar.		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	332.05	119.04
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	445.09	143.26
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	663.63	167.48
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,210.18	264.22
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,791.49	409.79
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,156.96	606.56
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	467.85	187.05
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	653.98	247.93
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	879.50	275.43
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,545.15	431.14
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,390.82	708.22
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,931.79	991.45
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	512.22	187.05
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	725.53	247.93
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	944.60	275.43
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,709.17	431.14
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,671.17	708.22
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,109.50	991.45
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	454.88	165.56
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	593.55	190.32
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,290.54	304.17
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,709.78	506.26
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,616.83	689.88
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	429.15	154.88
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	589.31	215.50
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	864.58	247.93
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,476.16	396.66
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,020.35	661.14
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,041.37	901.14
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0155 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	666.55	160.77
26 28 16 16-0156 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,035.35	192.93
26 28 16 16-0157 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,287.35	224.40
26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,889.80	342.07
26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,092.80	547.31
26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,081.87	729.97
26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,509.07	820.96
26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,873.64	957.79
26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0164 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,122.34	214.27
26 28 16 16-0165 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,339.45	262.70
26 28 16 16-0166 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,872.79	301.70
26 28 16 16-0167 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,649.59	452.49
26 28 16 16-0168 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,668.70	740.37
26 28 16 16-0169 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,287.89	1,018.13
26 28 16 16-0170 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,996.59	1,172.34
26 28 16 16-0171 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,531.50	1,319.69
26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0173 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	869.51	253.13
26 28 16 16-0174 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,353.59	335.23
26 28 16 16-0175 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,616.94	368.06
26 28 16 16-0176 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,407.39	569.89
26 28 16 16-0177 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,093.69	950.26
26 28 16 16-0178 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,370.26	1,267.02
26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0180 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,295.95	300.06



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0181 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,550.15	367.79
26 28 16 16-0182 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,047.49	422.25
26 28 16 16-0183 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,982.26	633.51
26 28 16 16-0184 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,161.89	1,036.60
26 28 16 16-0185 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,952.51	1,425.33
26 28 16 16-0186 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,354.59	1,641.93
26 28 16 16-0187 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,333.26	1,847.17
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	944.76	253.13
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,355.77	335.23
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,722.74	368.06
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,477.96	569.89
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,158.43	950.26
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,082.28	1,267.02
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,889.40	1,436.68
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,500.87	1,641.93
26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,339.12	300.34
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,598.69	368.06
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,155.37	422.11
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,052.38	633.51
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,415.41	1,036.46
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,243.79	1,425.05
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,271.80	1,641.93
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,542.27	1,847.17
26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	628.12	140.80
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,011.86	194.98
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,317.56	223.58
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,778.38	362.05
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,880.06	603.95
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,959.38	805.23
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,064.12	958.20
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,539.38	1,095.02
26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	705.88	155.16
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,145.25	217.15
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,484.91	245.19
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,965.23	380.10
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,383.11	633.51
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,504.08	844.63
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,792.46	1,003.77
26 28 16 16-0224 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,489.67	1,140.18
26 28 16 16-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	768.89	211.12
26 28 16 16-0227 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,206.77	292.40
26 28 16 16-0228 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,541.13	335.37
26 28 16 16-0229 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,140.36	543.06
26 28 16 16-0230 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,538.18	905.79
26 28 16 16-0231 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,870.76	1,207.49
26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,140.84	1,436.68
26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,971.81	1,641.93
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	836.74	232.61
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,318.04	325.79
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,668.21	367.79
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,269.96	570.16
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,821.50	950.13
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,378.50	1,266.88
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,939.36	1,505.10
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	17,012.68	1,710.34
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	493.48	232.61
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,362.44	325.79
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,730.12	367.79
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,345.30	570.16
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,016.56	950.13
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,348.69	1,266.88
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,922.66	1,505.10
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	16,989.96	1,710.34
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0253)		
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	424.04	139.83
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	586.67	167.75
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	761.64	195.11
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,521.51	297.46
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,623.14	475.88
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,339.71	634.87
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0260)		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	585.67	220.43
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	834.69	291.58
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,010.63	319.90
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,919.05	495.72
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,325.59	826.16
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,282.86	1,102.01
26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0267)		
26 28 16 16-0268 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	647.83	220.29
26 28 16 16-0269 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	897.17	291.58
26 28 16 16-0270 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,211.51	319.90
26 28 16 16-0271 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,048.74	495.72
26 28 16 16-0272 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,408.90	826.30
26 28 16 16-0273 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,932.59	1,102.01
26 28 16 16-0274 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,207.89	1,248.40
26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	381.15	122.46
26 28 16 16-0278 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	611.66	169.53
26 28 16 16-0279 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	649.32	194.43
26 28 16 16-0280 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,556.65	314.71
26 28 16 16-0281 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,722.13	525.14
26 28 16 16-0282 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,473.14	700.14
26 28 16 16-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	593.43	183.62
26 28 16 16-0285 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	850.33	254.23
26 28 16 16-0286 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,213.32	291.58
26 28 16 16-0287 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,074.56	472.19

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0289		Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
		Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,656.37	136.83
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,989.91	164.87
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,003.46	192.66
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,551.95	304.03
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,229.74	471.78
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,149.45	697.55
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,093.51	152.02
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,333.57	183.08
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,330.77	214.00
26 28 16 16-0301	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,134.51	337.96
26 28 16 16-0302	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,675.72	524.60
26 28 16 16-0303	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,750.19	774.99
26 28 16 16-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,885.31	215.09
26 28 16 16-0306	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,369.06	285.01
26 28 16 16-0307	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,430.56	316.75
26 28 16 16-0308	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,315.98	495.72
26 28 16 16-0309	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,255.33	814.39
26 28 16 16-0310	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,480.73	1,140.18
26 28 16 16-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,270.12	237.54
26 28 16 16-0313	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,606.93	316.75
26 28 16 16-0314	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,627.45	356.30
26 28 16 16-0315	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,561.43	542.93
26 28 16 16-0316	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,670.70	877.06
26 28 16 16-0317	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,037.25	1,266.88
26 28 16 16-0318		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,237.15	215.09
26 28 16 16-0320	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,808.89	285.01
26 28 16 16-0321	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,310.67	316.75
26 28 16 16-0322	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,519.49	495.72



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,623.97	814.39
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,735.82	1,140.18
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,685.86	237.54
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,078.36	316.75
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,525.82	356.30
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,775.00	542.93
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,071.31	877.06
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,336.72	1,266.88
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,591.44	136.83
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,946.53	190.32
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,608.85	218.92
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,025.37	349.72
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,127.39	582.34
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,056.47	793.32
26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,807.99	150.92
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,216.24	213.45
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,110.48	243.28
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,704.15	380.10
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,351.40	625.57
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,859.93	875.69
26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,674.10	178.15
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,036.62	247.93
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,135.89	285.01
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,083.15	456.04
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,846.15	760.21
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,920.71	1,036.60
26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,899.21	196.62
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,345.66	278.16

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,257.43	316.75
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,935.33	495.72
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,780.99	814.39
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,820.53	1,140.18
26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,275.60	178.15
26 28 16 16-0363 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,742.14	247.93
26 28 16 16-0364 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,062.80	285.01
26 28 16 16-0365 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,257.13	456.04
26 28 16 16-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,586.64	196.62
26 28 16 16-0368 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,123.51	278.16
26 28 16 16-0369 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,910.81	316.75
26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,528.59	495.72
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,011.63	237.39
26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,451.05	316.75
26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,118.95	356.44
26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,995.90	543.20
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,809.95	196.34
26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,242.17	278.45
26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,776.51	316.75
26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,877.75	496.00
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,430.24	237.39
26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,919.46	316.75
26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,004.78	356.44
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,206.03	196.34
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,685.68	278.45



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0390	EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	6,626.77	316.75
26 28 16 16-0391	NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small> Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 16-0392	Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small> Note: With fuses and neutral bar.		
26 28 16 16-0393	EA 30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,746.85	273.66
26 28 16 16-0394	EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,108.35	325.79
26 28 16 16-0395	EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,449.68	367.79
26 28 16 16-0396	EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	7,237.18	570.16
26 28 16 16-0397	Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398	EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,178.24	325.79
26 28 16 16-0399	EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,543.85	367.79
26 28 16 16-0400	EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	4,634.73	570.16
26 28 16 16-0401	NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0402	Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small> Note: With fuses and neutral bar.		
26 28 16 16-0403	240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0404	EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	638.84	136.83
26 28 16 16-0405	EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	828.79	164.87
26 28 16 16-0406	EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,118.20	192.93
26 28 16 16-0407	EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,877.74	303.75
26 28 16 16-0408	EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,937.37	472.05
26 28 16 16-0409	EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,048.08	697.82
26 28 16 16-0410	600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411	EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	978.33	151.88
26 28 16 16-0412	EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,019.12	183.35
26 28 16 16-0413	EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,448.38	214.13
26 28 16 16-0414	EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,267.28	337.96
26 28 16 16-0415	EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,862.92	524.05
26 28 16 16-0416	EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,515.75	775.13
26 28 16 16-0417	240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418	EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	897.69	214.82
26 28 16 16-0419	EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,238.41	285.29
26 28 16 16-0420	EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,662.05	316.75
26 28 16 16-0421	EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,480.22	496.00
26 28 16 16-0422	EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,806.02	814.12
26 28 16 16-0423	EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,649.79	1,140.45
26 28 16 16-0424	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425	EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,176.34	237.39

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,350.88	316.75
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,947.88	356.44
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,844.41	543.20
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,859.11	877.06
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,873.13	1,267.02
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	953.51	214.82
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,276.76	285.29
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,782.41	316.75
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,631.32	496.00
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,210.59	814.12
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,923.11	1,140.45
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,241.05	237.39
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,523.50	316.75
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,066.57	356.44
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,070.96	543.20
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,225.90	877.06
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,175.20	1,267.02
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	666.00	197.72
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	886.65	275.71
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,162.75	316.75
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,672.77	506.94
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,606.93	844.90
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,662.07	1,152.09
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	741.75	218.24
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	986.13	309.23
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,295.64	351.65
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,817.56	550.73
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,822.64	905.11
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,255.58	1,267.02
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	858.46	177.88



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,134.39	247.65
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,493.95	285.29
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,150.46	456.31
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,456.34	760.08
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,972.63	1,036.46
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	848.45	196.34
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,230.48	278.45
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,604.40	316.75
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,140.45	496.00
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,493.17	814.12
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,267.93	1,140.45
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,018.14	177.88
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,225.20	247.65
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,865.98	285.29
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,960.44	456.31
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,265.65	581.52
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,062.06	196.34
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,338.36	278.45
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,998.17	316.75
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,052.04	496.00
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,655.95	766.23
26 28 16 16-0486 Double Throw Safety Switches (26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	803.56	175.82
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,175.27	229.87
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,639.88	300.34
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,182.89	390.64
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,090.46	488.48
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,219.79	783.33
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,653.06	1,094.61
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,550.80	1,231.44
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	18,291.09	1,368.27
26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,023.46	246.29
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,419.97	321.54
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,112.51	420.74
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,074.57	547.31

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,018.77	684.14
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,849.30	1,094.61
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,509.58	1,231.44
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,308.69	1,368.27
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,289.96	1,505.10
26 28 16 16-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0509 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,352.33	307.86
26 28 16 16-0510 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,949.54	402.27
26 28 16 16-0511 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,386.50	525.42
26 28 16 16-0512 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,624.67	682.77
26 28 16 16-0513 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,117.37	855.16
26 28 16 16-0514 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,647.60	1,370.32
26 28 16 16-0515 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,652.22	1,505.10
26 28 16 16-0516 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,324.45	1,573.51
26 28 16 16-0517 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	21,627.84	1,641.93
26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0519 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,343.57	229.87
26 28 16 16-0520 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,002.58	300.34
26 28 16 16-0521 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,931.77	390.64
26 28 16 16-0522 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,745.88	488.48
26 28 16 16-0523 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,995.50	783.33
26 28 16 16-0524 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,499.48	1,094.61
26 28 16 16-0525 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,859.59	1,231.44
26 28 16 16-0526 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,846.55	1,368.27
26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0528 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,526.72	321.54
26 28 16 16-0529 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,242.73	420.74
26 28 16 16-0530 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,243.75	547.31
26 28 16 16-0531 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,136.87	684.14
26 28 16 16-0532 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,619.84	1,094.61
26 28 16 16-0533 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,414.25	1,231.44
26 28 16 16-0534 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,954.98	1,368.27
26 28 16 16-0535 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,917.95	1,505.10
26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0537 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,054.99	402.27
26 28 16 16-0538 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,538.59	525.42
26 28 16 16-0539 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,939.71	682.77
26 28 16 16-0540 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,788.06	855.16
26 28 16 16-0541 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,397.92	1,370.32
26 28 16 16-0542 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,816.42	1,505.10
26 28 16 16-0543 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,942.20	1,573.51
26 28 16 16-0544 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	23,462.23	1,641.93
26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0547 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,021.28	300.34
26 28 16 16-0548 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,523.88	390.64
26 28 16 16-0549 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,520.81	488.48
26 28 16 16-0550 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	24,987.45	783.33
26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0552 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,659.43	420.06
26 28 16 16-0553 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,244.11	546.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0554 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...	15,039.42	684.14
26 28 16 16-0555 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...	16,476.63	1,096.67
26 28 16 16-0556 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0557 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,526.88	307.99
26 28 16 16-0558 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,141.07	402.00
26 28 16 16-0559 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,389.70	525.28
26 28 16 16-0560 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,320.05	683.04
26 28 16 16-0561 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...	10,616.29	855.16
26 28 16 16-0562 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,523.52	1,370.45
26 28 16 16-0563 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0564 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,704.95	229.87
26 28 16 16-0565 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,576.44	300.34
26 28 16 16-0566 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,631.74	390.64
26 28 16 16-0567 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,813.59	488.48
26 28 16 16-0568 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	11,827.57	783.33
26 28 16 16-0569 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0570 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,954.53	321.54
26 28 16 16-0571 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,920.82	420.06
26 28 16 16-0572 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,146.34	546.62
26 28 16 16-0573 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,617.06	684.14
26 28 16 16-0574 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,991.24	1,096.67
26 28 16 16-0575 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0576 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,165.46	402.00
26 28 16 16-0577 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,400.88	525.28
26 28 16 16-0578 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,475.37	683.04
26 28 16 16-0579 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	10,597.95	855.16
26 28 16 16-0580 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,624.60	1,370.45
26 28 16 16-0581 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0582 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0583 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,995.68	175.95
26 28 16 16-0584 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,271.94	229.73
26 28 16 16-0585 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,585.88	300.20
26 28 16 16-0586 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,546.62	390.36
26 28 16 16-0587 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,536.28	488.61
26 28 16 16-0588 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,611.00	783.06
26 28 16 16-0589 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0590 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,309.95	246.29
26 28 16 16-0591 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,743.51	321.54
26 28 16 16-0592 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,270.29	420.06
26 28 16 16-0593 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,544.73	546.62
26 28 16 16-0594 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,166.48	684.14
26 28 16 16-0595 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,863.41	1,096.67
26 28 16 16-0596 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0597 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,428.43	307.99
26 28 16 16-0598 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,026.88	402.00
26 28 16 16-0599 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,511.30	525.28
26 28 16 16-0600 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,476.09	683.04
26 28 16 16-0601 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,685.28	855.16
26 28 16 16-0602 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	17,118.50	1,370.45
26 28 16 16-0603 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0604 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,969.79	229.73
26 28 16 16-0605 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,144.91	300.20
26 28 16 16-0606 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,895.59	390.36

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0607 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,479.67	488.61
26 28 16 16-0608 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	11,434.14	783.06
26 28 16 16-0609 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0610 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,285.69	321.54
26 28 16 16-0611 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,519.11	420.06
26 28 16 16-0612 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,476.52	546.62
26 28 16 16-0613 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	9,265.25	684.14
26 28 16 16-0614 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,576.69	1,096.67
26 28 16 16-0615 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0616 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,066.63	402.00
26 28 16 16-0617 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,804.57	525.28
26 28 16 16-0618 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,648.95	683.04
26 28 16 16-0619 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,057.35	855.16
26 28 16 16-0620 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	17,611.68	1,370.45
26 28 16 16-0621 Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small> Note: Includes storage and cleaning.		
26 28 16 16-0622 EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	684.14	
26 28 16 16-0623 EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	889.41	
26 28 16 16-0624 EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	992.07	
26 28 16 16-0625 EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,163.10	
26 28 16 16-0626 Bolted Contact Switches <small>(26 28 16 16)</small> Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0627 Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0629 EA 800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	8,880.53	1,368.27
26 28 16 16-0630 EA 1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	9,691.44	1,641.93
26 28 16 16-0631 EA 1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	10,608.80	1,915.58
26 28 16 16-0632 EA 2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	11,282.84	2,189.23
26 28 16 16-0633 EA 2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	12,737.55	2,462.88
26 28 16 16-0634 EA 3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	15,804.30	2,736.54
26 28 16 16-0635 EA 4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	21,106.43	3,283.85
26 28 16 16-0636 Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0637 EA 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	9,372.25	1,368.27
26 28 16 16-0638 EA 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	10,279.48	1,641.93
26 28 16 16-0639 EA 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	11,191.77	1,915.58
26 28 16 16-0640 EA 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	12,119.27	2,189.23
26 28 16 16-0641 EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	13,639.89	2,462.88
26 28 16 16-0642 EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	17,497.45	2,736.54
26 28 16 16-0643 EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	22,870.54	3,283.85
26 28 16 16-0644 Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0645 Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0646 EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	6,670.31	1,368.27
26 28 16 16-0647 EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	7,507.59	1,641.93
26 28 16 16-0648 EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	8,386.42	1,915.58
26 28 16 16-0649 EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	9,259.18	2,189.23
26 28 16 16-0650 EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	10,182.63	2,462.88
26 28 16 16-0651 EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	13,249.38	2,736.54
26 28 16 16-0652 EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	18,490.67	3,283.85
26 28 16 16-0653 Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0654 EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	6,995.76	1,368.27
26 28 16 16-0655 EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	7,999.31	1,641.93
26 28 16 16-0656 EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	8,862.93	1,915.58
26 28 16 16-0657 EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	9,888.78	2,189.23
26 28 16 16-0658 EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	10,973.44	2,462.88
26 28 16 16-0659 EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	14,815.79	2,736.54
26 28 16 16-0660 EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	20,133.12	3,283.85

26 29 Low-Voltage Controllers (26 20)



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 Enclosed Controllers (26 29)		
26 29 13 13 Across-The-Line Motor Controllers (26 29 13)		
26 29 13 13-0001 Manual Motor Starters (26 29 13 13)		
26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	244.79	68.51
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	320.49	89.06
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	274.86	68.51
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	350.56	89.06
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-2.99	
For Oversized Enclosure, Add	30.07	
For Pilot Light, Add	44.10	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	257.82	68.51
For Oversized Enclosure, Add	30.07	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	337.53	89.06
For Oversized Enclosure, Add	30.07	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	506.74	82.22
For Pilot Light, Add	115.27	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	585.45	102.77
For Pilot Light, Add	115.27	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	536.81	82.22
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	612.51	102.77
26 29 13 13-0013 Non Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0014 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	200.86	68.51
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0015 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	322.25	89.06
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	226.16	75.37
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	348.51	95.92
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	228.91	68.51
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	351.26	89.06
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.51	
For Pilot Light, Add	69.64	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	468.12	82.22
For Pilot Light, Add	110.26	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	578.87	102.77
For Pilot Light, Add	110.26	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	494.41	89.06
For Pilot Light, Add	110.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	602.24	109.62
<i>For Pilot Light, Add</i>	110.26	
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	495.20	82.22
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	613.69	102.77
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	146.21	47.96
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	267.60	68.51
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	171.52	54.81
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	292.89	75.37
<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	524.23	123.32
<i>For Pilot Light, Add</i>	112.19	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	755.38	164.43
<i>For Pilot Light, Add</i>	112.19	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	524.23	123.32
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	755.38	164.43
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	472.17	82.22
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1)	472.17	82.22
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11)	956.64	95.92
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1)	956.64	95.92
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1)	1,241.30	95.92
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1)	598.80	95.92
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1)	400.99	61.66
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1)	558.05	89.06
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1)	558.05	89.06
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,141.75	102.77
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1)	1,141.75	102.77
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1)	1,448.47	102.77
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	684.68	102.77
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1)	486.87	68.51
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2)	727.10	95.92
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2)	727.10	95.92
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12)	1,353.91	109.62
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,353.91	109.62
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2)	1,647.60	109.62
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	856.75	109.62
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2)	658.93	75.37
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2)	584.95	102.77
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2)	584.95	102.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,069.42	116.48
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,069.42	116.48
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,362.11	116.48
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	712.59	116.48
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	516.78	82.22
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	670.82	109.62
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	670.82	109.62
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,254.53	123.32
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,254.53	123.32
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,568.27	123.32
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	797.46	123.32
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	599.65	89.06
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,338.74	143.88
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,338.74	143.88
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,171.33	102.77
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,579.64	157.58
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,412.23	116.48
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,338.74	143.88
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,171.33	102.77
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,579.64	157.58
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,412.23	116.48
26 29 13 13-0083 Magnetic Motor Starters (26 29 13 13)		
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0003)		
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors (26 29 13 13-0004)		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	561.72	137.03
For Factory Installed Accessory, Deduct	-274.05	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	631.23	150.72
For Factory Installed Accessory, Deduct	-301.46	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	603.82	137.03
For Factory Installed Accessory, Deduct	-274.05	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	674.33	150.72
For Factory Installed Accessory, Deduct	-301.46	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	743.83	164.43
For Factory Installed Accessory, Deduct	-328.86	
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	939.32	205.54
For Factory Installed Accessory, Deduct	-411.08	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,178.89	246.65
For Factory Installed Accessory, Deduct	-493.29	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	701.40	150.72
For Factory Installed Accessory, Deduct	-301.46	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	770.89	164.43
For Factory Installed Accessory, Deduct	-328.86	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	842.40	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,079.99	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,318.57	280.91
<i>For Factory Installed Accessory, Deduct</i>	-561.80	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,157.80	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,295.15	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,689.77	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,724.15	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,976.44	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,512.40	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,563.56	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,854.54	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,249.17	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,727.33	479.59
<i>For Factory Installed Accessory, Deduct</i>	-959.17	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,690.22	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,564.67	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,031.00	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	31,562.52	1,233.22
<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	592.80	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	662.30	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	634.89	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	706.41	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	775.91	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	973.40	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,213.98	246.65
<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	734.47	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	805.98	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	875.47	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3)	1,114.07	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4)	1,351.65	280.91
<i>For Factory Installed Accessory, Deduct</i>	-561.80	
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1)	1,306.15	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2)	1,444.50	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3)	1,838.12	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1)	2,015.83	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2)	2,267.12	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3)	2,804.09	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1)	4,458.96	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2)	4,853.58	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2)	9,666.25	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2)	26,875.33	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJJ2)	36,420.89	1,233.22
<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1)	877.81	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2)	947.31	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2)	1,046.88	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1)	1,618.88	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2)	1,758.23	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1)	2,386.70	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2)	2,636.99	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2)	6,081.45	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2)	12,808.60	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2)	30,728.34	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12)	1,276.08	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11)	1,320.18	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12)	1,389.68	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0151	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13) 1,628.28 <i>For Factory Installed Accessory, Deduct</i> -479.59	1,148.69	239.80
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12) 2,472.90 <i>For Factory Installed Accessory, Deduct</i> -411.08	2,061.82	205.54
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12) 3,722.53 <i>For Factory Installed Accessory, Deduct</i> -548.10	3,174.43	274.05
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12) 7,338.39 <i>For Factory Installed Accessory, Deduct</i> -822.15	6,516.24	411.08
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12) 12,808.60 <i>For Factory Installed Accessory, Deduct</i> -1,096.20	11,712.40	548.10
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2) 34,012.02 <i>For Factory Installed Accessory, Deduct</i> -1,644.30	32,367.72	822.15
26 29 13 13-0157			NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small> Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2) 2,513.33 <i>For Factory Installed Accessory, Deduct</i> -438.48	2,074.85	219.24
26 29 13 13-0159			Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160			Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11) 660.96 <i>For Factory Installed Accessory, Deduct</i> -274.05	386.91	137.03
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12) 688.37 <i>For Factory Installed Accessory, Deduct</i> -301.46	386.91	150.72
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1) 737.48 <i>For Factory Installed Accessory, Deduct</i> -301.46	436.02	150.72
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2) 815.00 <i>For Factory Installed Accessory, Deduct</i> -328.86	486.14	164.43
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4) 1,304.19 <i>For Factory Installed Accessory, Deduct</i> -493.29	810.90	246.65
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1) 837.05 <i>For Factory Installed Accessory, Deduct</i> -328.86	508.19	164.43
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3) 977.71 <i>For Factory Installed Accessory, Deduct</i> -356.26	621.45	178.14
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2) 1,019.81 <i>For Factory Installed Accessory, Deduct</i> -356.26	663.55	178.14
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6) 1,249.01 <i>For Factory Installed Accessory, Deduct</i> -328.86	920.15	164.43
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1) 1,424.45 <i>For Factory Installed Accessory, Deduct</i> -411.08	1,013.37	205.54
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1) 2,189.94 <i>For Factory Installed Accessory, Deduct</i> -548.10	1,641.84	274.05
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1) 4,577.94 <i>For Factory Installed Accessory, Deduct</i> -822.15	3,755.79	411.08
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1) 10,269.66 <i>For Factory Installed Accessory, Deduct</i> -1,096.20	9,173.46	548.10
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2) 23,451.32 <i>For Factory Installed Accessory, Deduct</i> -1,644.30	21,807.02	822.15
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2) 33,799.75 <i>For Factory Installed Accessory, Deduct</i> -2,466.45	31,333.30	1,233.22
26 29 13 13-0176			NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11) 694.03 <i>For Factory Installed Accessory, Deduct</i> -274.05	420.00	137.03
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12) 721.44 <i>For Factory Installed Accessory, Deduct</i> -301.46	420.00	150.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0179 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	770.56	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	848.07	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	869.12	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	947.64	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	1,053.89	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,398.36	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,573.80	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,481.62	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	5,182.35	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	11,374.25	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0189 NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	941.96	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	1,019.48	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	1,040.52	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	1,119.04	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,225.29	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,712.10	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,886.53	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,851.49	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	6,409.22	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	14,513.59	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	34,448.04	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	941.96	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	1,019.48	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	1,040.52	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0205 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	1,119.04	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0206 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,225.29	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,712.10	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,886.53	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,851.49	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	6,409.22	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0211			NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,620.92	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	3,204.29	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,303.87	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	5,085.72	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	6,136.88	342.56
			<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	9,757.75	479.59
			<i>For Factory Installed Accessory, Deduct</i>	-959.17	
26 29 13 13-0218			NEMA 4/4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,269.73	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0220	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,348.24	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0221	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,383.33	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0222	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,461.85	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0223	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,568.10	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0224	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,424.76	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0225	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,936.03	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0226	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	7,665.16	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0227	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	16,928.24	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0228			NEMA 4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Glass polyester enclosure.		
26 29 13 13-0229	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,602.21	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,784.01	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	9,377.16	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0232			NEMA 7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,534.38	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	



Electrical	26
Low-Voltage Electrical Distribution	26 20
Low-Voltage Controllers	26 29

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0234	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2)	2,620.92	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0235	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1)	2,657.01	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0236	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3)	2,739.55	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0237	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2)	2,861.83	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0238	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1)	4,179.60	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0239			Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0240			Open Enclosure, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0241	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13)	1,221.28	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0242	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16)	1,284.43	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0243	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1)	1,420.09	191.83
			<i>For Factory Installed Accessory, Deduct</i>	-383.67	
26 29 13 13-0244	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2)	1,475.57	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0245	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10)	1,510.65	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0246	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2)	1,616.24	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0247	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3)	1,687.42	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0248	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7)	1,723.50	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0249	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1)	2,902.61	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0250	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1)	4,733.30	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0251	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1)	10,785.57	616.62
			<i>For Factory Installed Accessory, Deduct</i>	-1,233.22	
26 29 13 13-0252	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1)	19,996.23	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0253	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1)	64,408.18	1,507.28
			<i>For Factory Installed Accessory, Deduct</i>	-3,014.55	
26 29 13 13-0254			NEMA 1, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0255	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13)	1,254.02	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0256	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15)	1,311.49	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0257	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16)	1,347.58	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0258	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1)	1,480.24	191.83
			<i>For Factory Installed Accessory, Deduct</i>	-383.67	
26 29 13 13-0259	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2)	1,537.72	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0260	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4)	1,573.80	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0261	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,706.45	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,777.63	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0263 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,813.71	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,137.16	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,139.25	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,531.31	616.62
<i>For Factory Installed Accessory, Deduct</i>	-1,233.22	
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,794.32	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,830.40	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,070.31	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,566.16	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,229.33	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,620.59	219.24
<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0275 Magnetic Contactor/Starters Accessories (26 29 13 13-0083)		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	166.85	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	280.01	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	166.85	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	280.01	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	280.01	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	140.56	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	125.70	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	166.85	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	140.56	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	187.43	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0286 EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	208.00	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0287 EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	355.45	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0288 EA 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	377.17	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0289 EA 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	451.46	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0290 EA 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	784.08	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0291 EA 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	784.08	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	50.39	10.28
<i>For Factory Installed Accessory, Deduct</i>	-20.55	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	100.55	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	132.56	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	



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Low-Voltage Electrical Distribution	26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	105.13	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	58.62	10.28
<i>For Factory Installed Accessory, Deduct</i>	-20.55	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	36.90	10.28
<i>For Factory Installed Accessory, Deduct</i>	-20.55	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	181.71	13.71
<i>For Factory Installed Accessory, Deduct</i>	-27.40	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	312.02	17.13
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0300 Definite Purpose Starters (26 29 13 13)		
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	626.56	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	625.55	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23).....	677.01	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	662.64	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33).....	720.11	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	694.72	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43).....	811.02	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	894.21	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	1,119.09	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12).....	634.24	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13).....	685.69	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22).....	683.69	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23).....	738.15	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32).....	721.78	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33).....	780.25	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42).....	755.86	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43).....	871.16	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52).....	951.34	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53).....	1,177.22	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0322 Definite Purpose Starter Accessory (26 29 13 13-0300)		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory.....	187.43	17.13
Note: Or Hand-Off-Auto Selector Switch Kit		
<i>For Factory Installed Accessory, Deduct</i>	-34.26	
26 29 13 13-0324 Panel Mounted Miniature Contactor (26 29 13 13)		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	353.19	75.37
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	373.24	75.37
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	396.97	82.22
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	417.02	82.22
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	342.17	75.37
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	389.28	75.37
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	439.07	82.22
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	84.25	34.26
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	91.99	34.26
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	106.00	34.26
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	133.87	34.26
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	7,153.96	656.77
For NEMA 4, Add	726.57	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	12,371.17	875.69
For NEMA 4, Add	1,327.12	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	21,450.75	1,039.89
For NEMA 4, Add	2,422.20	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	51,789.59	1,272.49
For NEMA 4, Add	6,156.97	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	82,464.80	1,628.24
For NEMA 4, Add	9,900.88	
26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,105.55	670.72
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	12,282.74	877.06
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	21,289.34	1,036.60
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	51,379.32	1,266.88
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	81,805.05	1,628.92
26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	171.18	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	188.79	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	321.36	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	174.60	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	251.06	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	125.53	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	409.73	
26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,646.98	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,590.76	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	562.38	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	465.99	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,176.73	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	3,980.97	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,467.91	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0395 Factory Modifications Addition <small>(26 29 13 13-0365)</small> Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	365.57	
26 29 13 13-0400 Combination Starters Non-Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0401 240-600 Volt, 3-Pole <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,768.76	314.71
<i>For Electronic Overloads, Add</i>	215.71	
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,189.18	492.57
<i>For Electronic Overloads, Add</i>	227.56	
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,036.55	574.68
<i>For Electronic Overloads, Add</i>	360.30	
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,581.68	711.50
<i>For Electronic Overloads, Add</i>	599.72	
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,368.68	1,135.66
<i>For Electronic Overloads, Add</i>	1,156.76	
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	16,519.96	1,423.00
<i>For Electronic Overloads, Add</i>	2,597.19	
26 29 13 13-0409 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,217.90	314.71
<i>For Electronic Overloads, Add</i>	301.04	
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,638.32	492.57
<i>For Electronic Overloads, Add</i>	312.90	
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,473.21	574.68
<i>For Electronic Overloads, Add</i>	443.27	
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,818.72	711.50
<i>For Electronic Overloads, Add</i>	644.75	
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	9,728.55	1,135.66
<i>For Electronic Overloads, Add</i>	1,415.14	
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	20,125.48	1,423.00
<i>For Electronic Overloads, Add</i>	3,282.23	
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	204.53	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	480.40	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	331.55	
26 29 13 13-0420 NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,177.60	410.48
<i>For Electronic Overloads, Add</i>	443.27	
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,535.59	574.68
<i>For Electronic Overloads, Add</i>	455.12	
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,009.68	629.40
<i>For Electronic Overloads, Add</i>	711.12	
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	7,895.47	766.23
<i>For Electronic Overloads, Add</i>	1,211.28	
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	12,485.71	1,135.66
<i>For Electronic Overloads, Add</i>	1,939.00	
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	27,024.64	1,423.00
<i>For Electronic Overloads, Add</i>	4,593.08	
26 29 13 13-0427 NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,626.73	410.48
<i>For Electronic Overloads, Add</i>	528.60	
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,984.72	574.68
<i>For Electronic Overloads, Add</i>	540.46	
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,446.34	629.40
<i>For Electronic Overloads, Add</i>	794.09	
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	8,132.51	766.23
<i>For Electronic Overloads, Add</i>	1,256.32	
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	13,845.58	1,135.66
<i>For Electronic Overloads, Add</i>	2,197.37	
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	25,614.87	1,423.00
<i>For Electronic Overloads, Add</i>	4,325.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	204.56	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	480.40	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	331.55	
26 29 13 13-0438 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,825.53	316.75
For Electronic Overloads, Add	226.49	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,249.07	495.72
For Electronic Overloads, Add	238.94	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,131.37	570.16
For Electronic Overloads, Add	378.32	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,739.49	712.60
For Electronic Overloads, Add	629.70	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,673.08	1,140.31
For Electronic Overloads, Add	1,214.60	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	17,203.41	1,425.19
For Electronic Overloads, Add	2,727.04	
26 29 13 13-0445 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,361.82	316.75
For Electronic Overloads, Add	328.39	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,787.91	495.72
For Electronic Overloads, Add	341.32	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,685.13	570.16
For Electronic Overloads, Add	483.53	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,126.97	712.60
For Electronic Overloads, Add	703.32	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,405.11	1,140.31
For Electronic Overloads, Add	1,543.69	
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	21,694.70	1,425.19
For Electronic Overloads, Add	3,560.39	
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	202.85	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	476.40	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	328.79	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,108.50	656.77
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,562.25	875.69
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,118.24	1,204.08
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,049.68	1,641.93
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,587.14	2,298.69
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0466 Combination Starters Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0467 240-600 Volt, 3 Pole <small>(26 29 13 13-0466)</small>		
26 29 13 13-0468 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,197.53	410.48
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,583.73	574.68
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,679.83	629.40
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,518.66	766.23
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	10,654.65	1,135.66
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,434.50	410.48
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,836.70	574.68
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,975.95	629.40
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,110.97	766.23
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,455.64	1,135.66
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,335.33	422.39
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,730.77	570.16

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,925.59	633.51
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,925.91	760.21
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	11,507.62	1,140.31
26 29 13 13-0486 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,596.44	422.39
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,009.49	570.16
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,251.89	633.51
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,476.70	760.21
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,390.18	1,140.31
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,003.33	875.69
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,416.18	1,094.61
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,748.01	1,423.00
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,221.57	1,860.84
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	22,078.98	2,517.62
26 29 13 13-0498 Solid State Motor Controllers <small>(26 29 13 13)</small>		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,719.74	246.29
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,051.34	246.29
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters <small>(26 29 13 13)</small>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	977.33	
26 29 13 13-0504 Auxiliary Devices <small>(26 29 13 13)</small>		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact	531.83	136.83
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact.....	531.83	136.83
26 29 13 13-0507 EA Pilot Light Kit.....	557.89	136.83
26 29 23 Variable-Frequency Motor Controllers <small>(26 29)</small>		
26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small>		
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,278.40	516.39
<i>For 6-Pulse Drive Package, Deduct</i>		
	-685.03	
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive	2,557.42	564.38
<i>For 6-Pulse Drive Package, Deduct</i>		
	-788.63	
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,958.71	620.58
<i>For 6-Pulse Drive Package, Deduct</i>		
	-944.66	
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive	3,095.63	596.51
<i>For 6-Pulse Drive Package, Deduct</i>		
	-1,046.44	
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive	3,323.00	650.36
<i>For 6-Pulse Drive Package, Deduct</i>		
	-1,112.25	
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive	3,572.32	650.36
<i>For 6-Pulse Drive Package, Deduct</i>		
	-1,249.38	
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,267.90	776.53
<i>For 6-Pulse Drive Package, Deduct</i>		
	-1,493.16	
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive	4,628.04	776.53
<i>For 6-Pulse Drive Package, Deduct</i>		
	-1,691.24	
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive	6,161.37	1,169.22
<i>For 6-Pulse Drive Package, Deduct</i>		
	-2,102.62	
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive	7,158.67	1,169.22
<i>For 6-Pulse Drive Package, Deduct</i>		
	-2,651.13	
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive	8,785.26	1,553.19
<i>For 6-Pulse Drive Package, Deduct</i>		
	-3,123.46	
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive	10,031.87	1,553.19
<i>For 6-Pulse Drive Package, Deduct</i>		
	-3,809.09	
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive	11,112.27	1,553.19
<i>For 6-Pulse Drive Package, Deduct</i>		
	-4,403.31	
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive	14,619.89	1,963.44
<i>For 6-Pulse Drive Package, Deduct</i>		
	-5,881.24	
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive	17,610.17	2,322.70
<i>For 6-Pulse Drive Package, Deduct</i>		
	-7,130.62	
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive	19,826.37	2,322.70
<i>For 6-Pulse Drive Package, Deduct</i>		
	-8,349.53	
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small>		
Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0019	EA			3 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,293.32 -1,889.31	929.11
26 29 23 00-0020	EA			5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,459.53 -1,980.73	929.11
26 29 23 00-0021	EA			7.5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,009.19 -2,087.38	1,107.04
26 29 23 00-0022	EA			10 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,036.89 -2,102.62	1,107.04
26 29 23 00-0023	EA			15 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,176.88 -2,651.13	1,678.32
26 29 23 00-0024	EA			20 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,564.71 -2,864.44	1,678.32
26 29 23 00-0025	EA			25 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	10,384.09 -3,275.82	2,214.08
26 29 23 00-0026	EA			30 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	11,769.21 -4,037.64	2,214.08
26 29 23 00-0027	EA			40 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,209.74 -4,829.93	2,214.08
26 29 23 00-0028	EA			50 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	17,259.75 -6,399.28	2,812.42
26 29 23 00-0029	EA			60 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	22,848.61 -8,898.04	3,335.18
26 29 23 00-0030	EA			75 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	24,178.33 -9,629.39	3,335.18
26 29 23 00-0031	EA			100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	27,932.56 -11,274.92	3,716.42
26 29 23 00-0032	EA			125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	29,373.09 -12,067.21	3,716.42
26 29 23 00-0033	EA			150 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	32,364.96 -13,712.74	3,716.42
26 29 23 00-0034	EA			200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	37,448.72 -15,662.99	4,485.28
26 29 23 00-0035	EA			250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	46,474.53 -20,406.99	4,685.46
26 29 23 00-0036	EA			300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	54,456.25 -24,036.90	5,376.40
26 29 23 00-0037	EA			350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	62,500.39 -27,961.19	5,830.87
26 29 23 00-0038	EA			400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	72,244.49 -32,808.79	6,296.14
26 29 23 00-0039	EA			450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	77,879.33 -35,323.40	6,827.49

26 29 33 Controllers for Fire Pump Drivers (26 29)

26 29 33 13 Full-Service Controllers for Fire Pump Electric-Motor Drivers (26 29 33)

26 29 33 13-0001 Electric Controllers For Fire Pumps (26 29 33 13)

26 29 33 13-0002 Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller (26 29 33 13-0001)

26 29 33 13-0003	EA			30 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	27,514.56	287.51
26 29 33 13-0004	EA			40 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	31,149.93	319.44
26 29 33 13-0005	EA			50 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	32,661.90	351.39
26 29 33 13-0006	EA			75 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	37,239.79	383.34
26 29 33 13-0007	EA			150 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	39,353.73	447.23
26 29 33 13-0008	EA			175 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	41,956.57	575.01
26 29 33 13-0009	EA			200 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	45,478.88	638.90
26 29 33 13-0010	EA			250 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	52,013.48	728.34
26 29 33 13-0011	EA			300 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	62,673.19	785.84
26 29 33 13-0012	EA			350 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	73,651.79	894.45
26 29 33 13-0013	EA			400 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	87,863.24	958.34
26 29 33 13-0014	EA			500 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	99,185.74	1,022.23

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 29 33 19 **Controllers for Fire Pump Diesel Engine Drivers** (26 29 33)

See CSI section 26 29 33 13-0000 for controllers for fire pump diesel engine drivers.

26 30 Facility Electrical Power Generating and Storing Equipment

(26)

26 31 Photovoltaic Collectors (26 30)

26 31 00 00-0002 Rigid Photovoltaic Modules (26 31)

26 31 00 00-0003 Sanyo Rigid Photovoltaic Modules (26 31 00 00-0002)

26 31 00 00-0004	EA	205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,830.89	129.98
		<i>For >50, Deduct</i>	-157.09	
26 31 00 00-0005	EA	210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,916.04	129.98
		<i>For >50, Deduct</i>	-165.61	
26 31 00 00-0006	EA	215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,797.48	129.98
		<i>For >50, Deduct</i>	-153.75	

26 31 00 00-0007 Sharp Rigid Photovoltaic Modules (26 31 00 00-0002)

26 31 00 00-0008	EA	224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,447.45	129.98
		<i>For >50, Deduct</i>	-118.75	
26 31 00 00-0009	EA	230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,637.52	129.98
		<i>For >50, Deduct</i>	-137.76	
26 31 00 00-0010	EA	235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	1,667.63	129.98
		<i>For >50, Deduct</i>	-140.77	
26 31 00 00-0011	EA	240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,573.54	129.98
		<i>For >50, Deduct</i>	-131.36	

26 31 00 00-0012 BP Solar Rigid Photovoltaic Modules (26 31 00 00-0002)

Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.

26 31 00 00-0013	EA	50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	747.29	129.98
		<i>For >50, Deduct</i>	-48.73	
26 31 00 00-0014	EA	75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	907.25	129.98
		<i>For >50, Deduct</i>	-64.73	
26 31 00 00-0015	EA	80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	971.23	129.98
		<i>For >50, Deduct</i>	-71.13	

26 31 00 00-0016 Photovoltaic Inverters (26 31)

26 31 00 00-0017 Fronius Photovoltaic Inverters (26 31 00 00-0016)

26 31 00 00-0018	EA	3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	4,274.75	136.83
26 31 00 00-0019	EA	5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	5,616.45	136.83
26 31 00 00-0020	EA	6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	5,924.71	136.83
26 31 00 00-0021	EA	7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	6,616.31	136.83
26 31 00 00-0022	EA	10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	10,436.32	136.83
26 31 00 00-0023	EA	12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	12,120.22	136.83
26 31 00 00-0024	EA	11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	9,952.75	273.66
26 31 00 00-0025	EA	11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	12,559.38	273.66
26 31 00 00-0026	EA	Inverter Display Stand (Fronius 4,045,894).....	403.50	68.41

26 31 00 00-0027 SMA Photovoltaic Inverters (26 31 00 00-0016)

26 31 00 00-0028	EA	4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	3,196.20	136.83
26 31 00 00-0029	EA	5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	3,822.62	136.83
26 31 00 00-0030	EA	6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	4,406.41	136.83
26 31 00 00-0031	EA	7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	4,852.09	136.83
26 31 00 00-0032	EA	8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	4,701.96	136.83

26 31 00 00-0033 PVPowered Photovoltaic Inverters (26 31 00 00-0016)

26 31 00 00-0034	EA	120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	3,934.20	136.83
26 31 00 00-0035	EA	240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	4,111.44	136.83
26 31 00 00-0036	EA	240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	4,535.30	136.83
26 31 00 00-0037	EA	240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	5,382.04	171.03
26 31 00 00-0038	EA	208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	6,560.17	205.24
26 31 00 00-0039	EA	240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	6,614.13	205.24
26 31 00 00-0040	EA	240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	6,973.23	205.24
26 31 00 00-0041	EA	208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	82,447.72	1,094.61
26 31 00 00-0042	EA	480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	82,556.11	1,094.61
26 31 00 00-0043	EA	208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	89,287.53	1,094.61
26 31 00 00-0044	EA	480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	82,814.77	1,094.61

26 31 00 00-0045 Solectria Photovoltaic Inverters (26 31 00 00-0016)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	13,029.77	273.66
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	13,029.77	273.66
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	13,406.75	273.66
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	13,406.75	273.66
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	40,806.69	820.96
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	38,921.75	820.96
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	44,576.56	820.96
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	43,529.37	820.96
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	47,299.24	820.96
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	45,204.87	820.96
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	49,940.91	1,094.61
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	47,637.10	1,094.61
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	51,825.85	1,094.61
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	49,103.16	1,094.61
26 31 00 00-0060 Xantrex Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	556.29	34.21
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	604.75	34.21
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	960.88	34.21
26 31 00 00-0064 Photovoltaic DC-DC Converters (26 31)		
26 31 00 00-0065 EA 15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	343.50	51.31
Note: Hazardous locations.		
26 31 00 00-0066 EA 20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	238.12	51.31
26 31 00 00-0067 EA 60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	614.50	51.31
26 31 00 00-0068 Photovoltaic Combiner Boxes (26 31)		
26 31 00 00-0069 Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0070 EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	451.36	136.83
26 31 00 00-0071 EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	441.60	136.83
26 31 00 00-0072 EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	696.05	205.24
26 31 00 00-0073 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	699.47	205.24
26 31 00 00-0074 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	1,016.04	205.24
26 31 00 00-0075 SMA Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0076 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	911.99	136.83
26 31 00 00-0077 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	1,078.30	136.83
26 31 00 00-0078 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	2,093.03	273.66
26 31 00 00-0079 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	4,625.27	273.66
26 31 00 00-0080 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	821.98	136.83
26 31 00 00-0081 Photovoltaic Charge Controller (26 31)		
26 31 00 00-0082 EA 35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35)	279.52	51.31
26 31 00 00-0083 EA 40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40)	364.20	51.31
26 31 00 00-0084 EA 60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60)	420.66	51.31
26 31 00 00-0085 EA Remote Digital Meter For Xantrex C-35, 40 And 60	328.45	51.31
26 31 00 00-0086 EA MPPT Charge Controller (Xantrex XW SCC)	1,081.45	68.41
26 31 00 00-0087 Photovoltaic Batteries (26 31)		
26 31 00 00-0088 Concorde Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0089 EA 34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	244.15	20.52
26 31 00 00-0090 EA 45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	308.61	27.36
26 31 00 00-0091 EA 49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	333.16	27.36
26 31 00 00-0092 EA 56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	386.75	41.05
26 31 00 00-0093 EA 69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	437.52	41.05
26 31 00 00-0094 EA 89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	518.90	47.89
26 31 00 00-0095 EA 104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	594.90	54.73
26 31 00 00-0096 EA 108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	588.44	54.73
26 31 00 00-0097 EA 210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	1,060.86	65.00
26 31 00 00-0098 EA 255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	1,223.41	68.41
26 31 00 00-0099 Deka Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0100 EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1)	262.35	34.26
26 31 00 00-0101 EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	354.56	34.26
26 31 00 00-0102 EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24)	514.52	34.26
26 31 00 00-0103 EA 86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27)	586.03	34.26
26 31 00 00-0104 EA 98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31)	587.91	34.26
26 31 00 00-0105 EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D)	1,122.37	34.26

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 31 Photovoltaic Collectors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0106 EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D)	1,295.51	34.26
26 31 00 00-0107 Battery Enclosures <small>(26 31 00 00-0087)</small>		
26 31 00 00-0108 EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010)	294.24	34.21
26 31 00 00-0109 EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC)	1,372.67	34.26
26 31 00 00-0110 EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL)	1,291.75	34.26
26 31 00 00-0111 EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC)	1,715.17	34.26
26 31 00 00-0112 EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1)	774.22	34.26
26 31 00 00-0113 EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP)	1,796.09	34.26
26 31 00 00-0114 Photovoltaic System Monitoring <small>(26 31)</small>		
26 31 00 00-0115 EA Solar Inverter Monitor (Xantrex 864-0203)	618.97	68.41
26 31 00 00-0116 EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	1,224.37	34.21
26 31 00 00-0117 EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	1,025.88	34.21
26 31 00 00-0118 EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	203.57	34.21
26 31 00 00-0119 EA Wind Sensor Accessory For Sunny SensorBox (SMA)	494.92	68.41
26 31 00 00-0120 EA Sunny Boy Control with RS485 (SMA)	1,204.61	34.21
26 31 00 00-0121 EA RS 485 Module (SMA)	287.45	34.21
26 31 00 00-0122 EA RS 232 Module (SMA)	294.24	34.21
26 31 00 00-0123 EA Wireless Monitor with Bluetooth (SMA Sunny Beam)	554.06	
26 31 00 00-0124 EA Bluetooth Piggy-Back Computer Card (SMA)	297.90	34.21
26 31 00 00-0125 EA RS485-N Communication Computer Card (SMA)	296.01	34.21
26 31 00 00-0126 EA Bluetooth Repeater (SMA)	543.52	34.21
26 31 00 00-0127 EA Sunny Boy PC Service Cable (SMA)	255.17	10.26
26 31 00 00-0128 EA Integrated Revenue Grade Meter, Option (PVPowered)	4,827.07	
26 31 00 00-0129 EA Data Monitoring Module (PVPowered PVM1010)	542.41	34.21
26 31 00 00-0130 EA Wireless IG Personal Display (Fronius 4,240,108)	562.32	
26 31 00 00-0131 EA DatCom Power Supply (Fronius 43,0001,2311)	180.79	
26 31 00 00-0132 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z)	329.95	34.21
26 31 00 00-0133 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z)	281.78	34.21
26 31 00 00-0134 EA Datalogger Pro Box (Fronius 4,240,102)	1,056.94	34.21
26 31 00 00-0135 EA Datalogger Easy Box (Fronius 4,240,103)	693.46	34.21
26 31 00 00-0136 EA Datalogger Interface Box (Fronius 4,240,105)	1,191.07	34.21
26 31 00 00-0137 EA Datalogger Web (Fronius 4,240,122)	2,034.53	34.21
26 31 00 00-0138 EA Interface Box (Fronius 4,240,109)	559.03	34.21
26 31 00 00-0139 EA Interface Card (Fronius 4,240,009,Z)	403.74	34.21
26 31 00 00-0140 EA Interface Card Easy (Fronius 4,240,013,Z)	272.00	34.21
26 31 00 00-0141 EA Sensor Box (Fronius 4,240,104)	1,103.12	34.21
26 31 00 00-0142 EA Ambient Temperature Sensor (Fronius 43,0001,1188)	137.39	34.21
26 31 00 00-0143 EA Irradiance Sensor (Fronius 43,0001,1188)	394.17	34.21
26 31 00 00-0144 EA Module Temperature Sensor (Fronius 43,0001,1190)	437.07	34.21
26 31 00 00-0145 EA Wind Speed Sensor (Fronius 42,0411,0027)	256.20	68.41
26 31 00 00-0146 Photovoltaic System Accessories <small>(26 31)</small>		
26 31 00 00-0147 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q)	835.45	68.41
26 31 00 00-0148 EA Line Communication Filter (Enphase LCF)	1,814.94	136.83
26 31 00 00-0149 EA 15 Meter RS 485 Communication Cable (SMA)	139.08	10.26
26 31 00 00-0150 EA 15 Meter RS 232 Communication Cable (SMA)	206.83	10.26
26 31 00 00-0151 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	33.38	3.39
26 31 00 00-0152 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	35.65	3.39
26 31 00 00-0153 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	36.94	3.39
26 31 00 00-0154 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	40.49	3.39
26 31 00 00-0155 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	45.83	3.39
26 31 00 00-0156 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	73.87	6.77
26 31 00 00-0157 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	90.43	6.77
26 31 00 00-0158 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	119.71	10.16
26 31 00 00-0159 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	41.38	3.39
26 31 00 00-0160 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	56.50	3.39
26 31 00 00-0161 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	84.54	6.77
26 31 00 00-0162 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	111.22	6.77
26 31 00 00-0163 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	182.43	13.55
26 31 00 00-0164 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	189.96	13.55
26 31 00 00-0165 EA Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery	3,387.85	369.43
Note: Tamper proof enclosure.		
26 31 00 00-0166 Photovoltaic Mounting Systems <small>(26 31)</small>		
26 31 00 00-0167 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard)	12.69	3.42
26 31 00 00-0168 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229)	40.11	17.10
26 31 00 00-0169 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216)	48.49	17.10
26 31 00 00-0170 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046)	24.49	6.84
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171 EA Mounting Rail Grounding Clip (UNIRAC 980006)	12.60	5.13
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012)	24.88	6.84
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002) Note: Four for each row of modules you plan to mount.	6.90	2.28
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008) Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.	7.17	2.28
26 31 00 00-0175 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065)	18.38	6.84
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	106.09	34.21
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	115.57	34.21
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	123.21	34.21
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	156.37	51.31
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	184.82	51.31
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	210.64	51.31
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	238.00	68.41
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	305.98	68.41
26 31 00 00-0184 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	433.40	102.62
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351)	212.22	
26 31 00 00-0186 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355)..... Note: Excludes ballast.	390.23	
26 31 00 00-0187 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	87.14	34.21
26 31 00 00-0188 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	88.01	34.21
26 31 00 00-0189 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	88.81	34.21
26 31 00 00-0190 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	90.80	34.21
26 31 00 00-0191 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	81.85	34.21
26 31 00 00-0192 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	82.86	34.21
26 31 00 00-0193 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	85.80	34.21
26 31 00 00-0194 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	84.96	34.21
26 31 00 00-0195 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....	160.06	51.31
26 31 00 00-0196 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....	160.66	51.31
26 31 00 00-0197 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....	162.45	51.31
26 31 00 00-0198 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	160.58	51.31
26 31 00 00-0199 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	30.24	6.84
26 31 00 00-0200 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....	21.09	6.84
26 31 00 00-0201 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	38.65	10.26
26 31 00 00-0202 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....	40.02	10.26
26 31 00 00-0203 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100)..... Note: Mid or end clamp.	10.88	2.28
26 31 00 00-0204 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....	47.85	6.84
26 31 00 00-0205 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....	2.86	

26 32 Packaged Generator Assemblies (26 30)

26 32 13 Engine Generators (26 32)

See CSI section 23 13 23 13-0001 for fuel storage tanks.

26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)

See CSI section 01 22 23 00-0724 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0703 for loadbank rental, 01 22 23 00-0724 for fuel reimbursement, 23 13 23 13-0001 for fuel day tank, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002 EA 25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....	31,103.15	1,151.20
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,992.71	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,395.02	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,166.14	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	14,746.39	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	19,661.85	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0003 EA 35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA)	33,061.04	1,417.42
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,992.71	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,166.14	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	14,746.39	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	19,661.85	
26 32 13 13-0004 EA 40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB)	34,128.08	1,554.13
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,992.71	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,166.14	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	14,746.39	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	19,661.85	
26 32 13 13-0005 EA 50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC)	39,943.28	1,784.37
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,992.71	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,166.14	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	14,746.39	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	19,661.85	
26 32 13 13-0006 EA 60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD)	43,014.96	2,050.59
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,992.71	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,166.14	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	14,746.39	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	19,661.85	
26 32 13 13-0007 EA 80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE)	50,463.73	2,403.14
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,992.71	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,166.14	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	14,746.39	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	19,661.85	
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA)	54,235.01	2,791.67
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB)	55,638.43	3,309.71
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC)	61,488.88	3,647.88
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB)	64,560.62	4,072.40
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC)	68,539.03	4,460.93
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD)	73,716.65	4,712.75
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA)	76,762.75	4,907.02
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	83,388.94 39,275.28 43,489.14 57,985.51 47,635.02 53,159.90 70,879.86	5,173.23
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	85,275.68 39,275.28 43,489.14 57,985.51 47,635.02 53,159.90 70,879.86	5,403.47
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	95,849.63 39,275.28 43,489.14 57,985.51 47,635.02 53,159.90 70,879.86	6,043.84
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	103,077.85 39,275.28 43,489.14 57,985.51 47,635.02 53,159.90 70,879.86	6,619.44
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEG) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	116,001.12 39,275.28 43,489.14 57,985.51 47,635.02 53,159.90 70,879.86	7,130.28
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEG) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	121,906.54 39,275.28 43,489.14 57,985.51 47,635.02 53,159.90 70,879.86	7,597.96
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	175,598.96 80,232.19 96,618.30 128,824.41 94,368.69 112,558.87 150,078.49	8,367.83
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	200,877.08 80,232.19 96,618.30 128,824.41 94,368.69 112,558.87 150,078.49	9,202.45
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	209,660.26 80,232.19 96,618.30 128,824.41 94,368.69 112,558.87 150,078.49	9,403.91
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	255,092.45 80,232.19 96,618.30 128,824.41 94,368.69 112,558.87 150,078.49	10,137.81
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	285,081.17 80,232.19 96,618.30 128,824.41 94,368.69 112,558.87 150,078.49	10,792.56

26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 32 Packaged Generator Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins) <small>(26 32 13 19)</small>		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0703 for loadbank rental, 01 22 23 00-0724 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA).....	13,348.46	964.13
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,933.11	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	6,525.40	
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB).....	15,069.90	1,151.20
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,933.11	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	6,525.40	
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC).....	17,326.78	1,280.71
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,933.11	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	6,525.40	
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA).....	19,599.50	1,417.42
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB).....	21,942.90	1,554.13
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC).....	23,752.64	1,676.44
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....	26,066.04	2,050.59
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....	27,994.92	2,295.22
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	36,377.96	2,453.51
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	43,678.39	2,762.90
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHA).....	50,128.03	3,309.71
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHB).....	59,368.48	3,647.88
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....	94,900.62	9,703.09
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	35,319.82	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	39,097.90	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	52,130.53	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	38,617.89	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	57,950.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	107,565.64 35,319.82 39,097.90 52,130.53 38,617.89 57,950.12	4,381.78
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	115,737.25 35,319.82 39,097.90 52,130.53 38,617.89 57,950.12	4,907.02
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	149,105.95 35,319.82 39,097.90 52,130.53 38,617.89 57,950.12	5,403.47
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	160,140.30 35,319.82 39,097.90 52,130.53 38,617.89 57,950.12	6,043.84
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	224,164.50 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	7,130.28
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	286,058.11 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	7,597.96
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	319,777.93 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	8,008.08
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	363,785.85 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	8,367.83
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	380,317.07 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	8,684.41
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	402,280.02 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	9,281.60
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets <small>(26 32 13 19)</small>		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	4,576.89	630.29
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	5,728.13	700.32
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,556.02	753.63

26 32 29 Rotary Converters (26 32)

26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output (26 32 29)

26 32 29 00-0002 EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,036.36	273.66
26 32 29 00-0003 EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,759.03	273.66
26 32 29 00-0004 EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,883.64	273.66
26 32 29 00-0005 EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,983.92	273.66
26 32 29 00-0006 EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,431.99	342.07
26 32 29 00-0007 EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	15,615.63	342.07
26 32 29 00-0008 EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,343.50	342.07
26 32 29 00-0009 EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,921.77	451.52
26 32 29 00-0010 EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	22,116.12	451.52

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output (26 32 29)		
26 32 29 00-0012 EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,283.48	273.66
26 32 29 00-0013 EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,043.95	273.66
26 32 29 00-0014 EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,612.30	273.66
26 32 29 00-0015 EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,958.47	273.66
26 32 29 00-0016 EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,693.89	342.07
26 32 29 00-0017 EA 20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,142.82	342.07
26 32 29 00-0018 EA 25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,670.02	342.07
26 32 29 00-0019 EA 40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,843.54	451.52
26 32 29 00-0020 EA 50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,037.38	451.52
26 32 29 00-0021 460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)		
26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	25,152.57	5,036.53
26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	28,076.52	5,036.53
26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	32,026.87	7,195.04
26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	37,149.88	7,195.04
26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	41,983.84	7,195.04
26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	49,572.53	10,792.56
26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	60,411.90	10,792.56
26 32 29 00-0029 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)		
26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	86,372.25	14,390.08
26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	94,194.42	14,390.08
26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	113,213.66	18,707.10
26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	128,839.18	22,736.33
26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	152,240.24	22,736.33
26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	215,432.22	33,960.59
26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	223,627.04	33,960.59
26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	256,991.17	39,572.73
26 33 Battery Equipment (26 30)		
26 33 13 Batteries (26 33)		
26 33 13 00-0001 Standby Batteries (26 33 13)		
26 33 13 00-0002 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery.....	984.52	34.26
26 33 13 00-0003 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket.....	1,062.15	34.26
26 33 13 00-0004 EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	281.64	34.26
26 33 13 00-0005 EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	258.20	34.26
26 33 13 00-0006 EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	425.34	34.26
26 33 13 00-0007 EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	490.11	34.26
26 33 43 Battery Chargers (26 33)		
26 33 43 00-0001 Solid State Chargers, Single Phase (26 33 43)		
Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002 EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,132.53	781.35
26 33 43 00-0003 EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,624.71	781.35
26 33 43 00-0004 EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,984.72	781.35
26 33 43 00-0005 EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,232.09	925.11
26 33 53 Static Uninterruptible Power Supply (26 33)		
26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		
26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)		
26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004 EA 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	1,103.66	135.46
Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005 EA 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,315.74	158.04
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006 EA 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,612.00	180.61
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007 EA 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	1,957.21	203.19
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008 EA 2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,487.41	225.76
Note: Includes 4 minutes of battery backup at full load.		



Electrical	26
Facility Electrical Power Generating and Storing Equipment	26 30
Battery Equipment	26 33

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0009 EA 3 KVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120) Note: Includes 4 minutes of battery backup at full load.	3,942.30	270.92
26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011 EA 3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208) Note: Includes 4 minutes of battery backup at full load.	3,873.15	270.92
26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013 EA 5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208) Note: Includes 5 minutes of battery backup at full load.	5,935.71	361.23
26 33 53 00-0014 EA 6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208) Note: Includes 4 minutes of battery backup at full load.	6,498.97	406.38
26 33 53 00-0015 EA 8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208) Note: Includes 7 minutes of battery backup at full load.	9,641.45	496.68
26 33 53 00-0016 EA 10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208) Note: Includes 4-1/2 minutes of battery backup at full load.	11,062.93	541.83
26 33 53 00-0017 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230) Note: Includes 11 minutes of battery backup at full load.	1,315.74	158.04
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230) Note: Includes 6 minutes of battery backup at full load.	1,612.00	180.61
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230)..... Note: Includes 4 minutes of battery backup at full load.	1,977.64	203.19
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230) Note: Includes 4 minutes of battery backup at full load.	2,492.34	225.76
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230) Note: Includes 4 minutes of battery backup at full load.	3,957.65	270.92
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230) Note: Includes 9 minutes of battery backup at full load.	5,704.79	361.23
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230) Note: Includes 6 minutes of battery backup at full load.	6,979.07	406.38
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230)..... Note: Includes 3 minutes of battery backup at full load.	10,732.82	541.83
26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)		
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT)..... Note: Rack mount or tower configuration.	688.86	41.05
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT)..... Note: Rack mount or tower configuration.	896.58	41.05
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT)..... Note: Rack mount or tower configuration.	873.46	41.05
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT)..... Note: Rack mount or tower configuration.	599.38	41.05
26 33 53 00-0031 EA Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	951.73	135.46
26 33 53 00-0032 EA Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	1,088.56	180.61
26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0034 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery <small>(26 33 53 00-0033)</small>		
Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035 EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	34,049.85	541.83
26 33 53 00-0036 EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	37,806.63	722.44
26 33 53 00-0037 EA 20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	42,346.22	903.06
26 33 53 00-0038 EA 30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	46,024.73	1,083.67
26 33 53 00-0039 EA 40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	55,339.39	1,264.29
26 33 53 00-0040 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery <small>(26 33 53 00-0033)</small>		
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041 EA 60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	75,356.74	2,155.02
26 33 53 00-0042 EA 80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	82,384.85	2,668.12
26 33 53 00-0043 EA 100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,268.00	3,112.82
26 33 53 00-0044 EA 120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	112,226.66	3,523.29
26 33 53 00-0045 EA 140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	116,804.41	3,933.77
26 33 53 00-0046 EA 160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	121,324.90	4,344.26
26 33 53 00-0047 EA 180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	126,784.77	4,754.74
26 33 53 00-0048 EA 200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	132,244.64	5,165.21
26 33 53 00-0049 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery <small>(26 33 53 00-0033)</small>		
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050 EA 60 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	70,254.71	1,778.75
26 33 53 00-0051 EA 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,737.68	3,126.49
26 33 53 00-0052 EA 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	124,765.27	3,612.23
26 33 53 00-0053 EA 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	146,585.01	3,967.98
26 33 53 00-0054 EA 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	171,066.26	4,378.46
26 33 53 00-0055 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0033)</small>		
26 33 53 00-0056 EA Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	628.80	68.41
26 33 53 00-0057 EA Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	993.24	68.41
26 33 53 00-0058 EA Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	1,970.91	136.83
26 33 53 00-0059 EA Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	6,243.41	547.31
26 33 53 00-0060 EA 12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	519.96	68.41
26 33 53 00-0061 EA 12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	287.98	68.41
26 33 53 00-0062 EA 12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	321.83	68.41
26 33 53 00-0063 EA 12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	355.68	68.41
26 33 53 00-0064 EA 12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	416.61	68.41
26 33 53 00-0065 EA 12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	436.92	68.41
26 33 53 00-0066 EA 12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	541.86	68.41
26 33 53 00-0067 EA 12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	567.25	68.41
26 33 53 00-0068 Other Uninterruptable Power Supply Equipment <small>(26 33 53)</small>		
26 33 53 00-0069 EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	5,069.81	125.01
26 33 53 00-0070 EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	6,150.84	250.03
26 33 53 00-0071 EA 1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	29.96	7.50
26 33 53 00-0072 EA 2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	51.99	9.38
26 33 53 00-0073 EA 2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	93.54	9.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0074 EA 3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	136.36	12.50
26 33 53 00-0075 EA 3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	191.21	12.50
26 33 53 00-0076 EA Uninterrupted Power Supply Remote Status Panel.....	3,490.92	125.01
26 33 53 00-0077 EA Uninterrupted Power Supply Remote Contact Board.....	1,184.70	93.76

26 35 Power Filters and Conditioners (26 30)

26 35 33 Power Factor Correction Equipment (26 35)

26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)

26 35 33 16-0001 Power Factor Correction Capacitors (26 35 33 16)

26 35 33 16-0002 EA Power Factor Correction Capacitors, 2.0 KVAC	735.06	
26 35 33 16-0003 EA Power Factor Correction Capacitors, 3.0 KVAC	814.10	
26 35 33 16-0004 EA Power Factor Correction Capacitors, 4.0 KVAC	893.14	
26 35 33 16-0005 EA Power Factor Correction Capacitors, 5.0 KVAC	969.02	
26 35 33 16-0006 EA Power Factor Correction Capacitors, 7.5 KVAC	1,190.33	
26 35 33 16-0007 EA Power Factor Correction Capacitors, 10.0 KVAC	1,454.32	
26 35 33 16-0008 EA Power Factor Correction Capacitors, 15.0 KVAC	2,246.29	
26 35 33 16-0009 EA Power Factor Correction Capacitors, 20.0 KVAC	2,728.43	
26 35 33 16-0010 EA Power Factor Correction Capacitors, 25.0 KVAC	3,525.14	
26 35 33 16-0011 EA Power Factor Correction Capacitors, 30.0 KVAC	4,008.86	
26 35 33 16-0012 EA Power Factor Correction Capacitors, 50.0 KVAC	7,034.47	
26 35 33 16-0013 EA Power Factor Correction Capacitors, 75.0 KVAC	10,577.00	
26 35 33 16-0014 EA Power Factor Correction Capacitors, 100.0 KVAC	14,103.72	
26 35 33 16-0015 EA Power Factor Correction Capacitors, Fuse Kit.....	654.44	

26 35 43 Static-Frequency Converters (26 35)

26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)

26 35 43 00-0002 EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure.....	648.33	136.83
26 35 43 00-0003 EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,102.60	164.19
26 35 43 00-0004 EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,267.86	218.92
26 35 43 00-0005 EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,732.31	273.66
26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,374.49	355.75
26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,056.49	437.85
26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,818.17	519.94
26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,632.14	588.35
26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,396.24	711.50
26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,171.59	800.44
26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,946.94	889.37
26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	8,610.92	1,074.09
26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	11,139.95	1,293.01
26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	14,090.85	1,573.51
26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	16,138.10	1,840.32
26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	20,625.15	2,052.40
26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	31,130.46	2,326.05
26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	46,017.30	2,599.71

26 35 53 Voltage Regulators (26 35)

26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)

Note: For diesel motor generator sets mounted in switchgear cabinet.

26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	7,057.11	2,175.55
26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	8,189.23	2,736.54
26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	9,231.72	3,256.48

26 36 Transfer Switches (26 30)

26 36 13 Manual Transfer Switches (26 36)

26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)

26 36 13 00-0002 EA 30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,372.67	239.45
26 36 13 00-0003 EA 60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,605.56	297.46

26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure

26 36 13 00-0005 EA 40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	2,805.58	350.16
<i>For NEMA 3R Enclosure, Add</i>	<i>828.47</i>	
<i>For NEMA 12 Enclosure, Add</i>	<i>779.73</i>	
26 36 13 00-0006 EA 70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	3,127.94	420.19
<i>For NEMA 3R Enclosure, Add</i>	<i>828.47</i>	
<i>For NEMA 12 Enclosure, Add</i>	<i>779.73</i>	
26 36 13 00-0007 EA 125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	3,558.40	490.22
<i>For NEMA 3R Enclosure, Add</i>	<i>828.47</i>	
<i>For NEMA 12 Enclosure, Add</i>	<i>779.73</i>	

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36	13 00-0008	EA	150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	4,388.93	560.26
			<i>For NEMA 3R Enclosure, Add</i>	974.67	
			<i>For NEMA 12 Enclosure, Add</i>	779.73	
26 36	13 00-0009	EA	225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	5,394.24	630.29
			<i>For NEMA 3R Enclosure, Add</i>	974.67	
			<i>For NEMA 12 Enclosure, Add</i>	779.73	
26 36	13 00-0010	EA	260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	6,059.71	700.32
			<i>For NEMA 3R Enclosure, Add</i>	974.67	
			<i>For NEMA 12 Enclosure, Add</i>	779.73	
26 36	13 00-0011	EA	300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	6,735.03	770.35
			<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36	13 00-0012	EA	400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	7,868.75	840.39
			<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36	13 00-0013	EA	600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	10,370.06	1,050.48
			<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36	13 00-0014	EA	800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	11,714.20	1,260.58
			<i>For NEMA 3R Enclosure, Add</i>	1,413.26	
			<i>For NEMA 12 Enclosure, Add</i>	1,364.53	
26 36	13 00-0015	EA	1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	15,576.69	1,726.81
			<i>For NEMA 3R Enclosure, Add</i>	1,413.26	
			<i>For NEMA 12 Enclosure, Add</i>	1,364.53	

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23

00-0001)
 Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003	EA	100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	2,639.31	490.22
26 36 23 00-0004	EA	225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	3,568.57	630.29
26 36 23 00-0005	EA	400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	5,575.51	840.39
26 36 23 00-0006	EA	600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	12,198.45	1,050.48

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23

00-0001)

26 36 23 00-0008	EA	40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	4,079.81	350.16
		<i>For NEMA 3R Enclosure, Add</i>	828.47	
		<i>For NEMA 4 Enclosure, Add</i>	877.20	
		<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0009	EA	70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	4,719.37	420.19
		<i>For NEMA 3R Enclosure, Add</i>	828.47	
		<i>For NEMA 4 Enclosure, Add</i>	877.20	
		<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0010	EA	125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	5,204.35	490.22
		<i>For NEMA 3R Enclosure, Add</i>	828.47	
		<i>For NEMA 4 Enclosure, Add</i>	877.20	
		<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0011	EA	150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	6,178.12	560.26
		<i>For NEMA 3R Enclosure, Add</i>	974.67	
		<i>For NEMA 4 Enclosure, Add</i>	1,267.06	
		<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0012	EA	225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....	7,049.13	630.29
		<i>For NEMA 3R Enclosure, Add</i>	974.67	
		<i>For NEMA 4 Enclosure, Add</i>	1,267.06	
		<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0013	EA	260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....	7,781.63	700.32
		<i>For NEMA 3R Enclosure, Add</i>	974.67	
		<i>For NEMA 4 Enclosure, Add</i>	1,267.06	
		<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0014	EA	300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....	8,153.12	770.35
		<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
		<i>For NEMA 4 Enclosure, Add</i>	1,364.53	
		<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0015	EA	400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....	9,202.84	840.39
		<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
		<i>For NEMA 4 Enclosure, Add</i>	1,364.53	
		<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0016	EA	600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....	12,553.95	1,050.48
		<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
		<i>For NEMA 4 Enclosure, Add</i>	1,364.53	
		<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0017	EA	800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....	14,125.95	1,260.58
		<i>For NEMA 3R Enclosure, Add</i>	1,413.26	
		<i>For NEMA 4 Enclosure, Add</i>	1,559.47	
		<i>For NEMA 12 Enclosure, Add</i>	1,364.53	
26 36 23 00-0018	EA	1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	18,395.90	1,726.81
		<i>For NEMA 3R Enclosure, Add</i>	1,413.26	
		<i>For NEMA 4 Enclosure, Add</i>	1,559.47	
		<i>For NEMA 12 Enclosure, Add</i>	1,364.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0019 EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	23,680.43	1,870.71
<i>For NEMA 3R Enclosure, Add</i>	3,118.93	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	1,462.00	
26 36 23 00-0020 EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	25,332.80	2,158.51
<i>For NEMA 3R Enclosure, Add</i>	5,068.25	
<i>For NEMA 4 Enclosure, Add</i>	6,237.85	
<i>For NEMA 12 Enclosure, Add</i>	5,068.25	
26 36 23 00-0021 EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	28,953.53	2,446.32
<i>For NEMA 3R Enclosure, Add</i>	5,068.25	
<i>For NEMA 4 Enclosure, Add</i>	6,237.85	
<i>For NEMA 12 Enclosure, Add</i>	5,068.25	
26 36 23 00-0022 EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	35,003.93	3,021.92
<i>For NEMA 3R Enclosure, Add</i>	5,068.25	
26 36 23 00-0023 EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	59,891.01	3,597.52
<i>For NEMA 3R Enclosure, Add</i>	23,820.75	
26 36 23 00-0024 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0025 EA 150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	20,813.22	2,661.22
<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0026 EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	21,738.67	2,801.29
<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0027 EA 260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	22,790.91	2,941.35
<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0028 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	25,297.82	3,011.38
<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0029 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	28,995.30	3,081.41
<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0030 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	34,569.59	3,221.48
<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0031 EA 800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	38,012.51	3,361.54
<i>For NEMA 3R Enclosure, Add</i>	1,754.40	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	1,072.14	
26 36 23 00-0032 EA 1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	47,608.09	3,921.80
<i>For NEMA 3R Enclosure, Add</i>	1,754.40	
<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
<i>For NEMA 12 Enclosure, Add</i>	1,072.14	
26 36 23 00-0033 EA 1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	61,868.07	4,317.02
<i>For NEMA 3R Enclosure, Add</i>	7,797.30	
<i>For NEMA 4 Enclosure, Add</i>	9,746.63	
<i>For NEMA 12 Enclosure, Add</i>	7,797.30	
26 36 23 00-0034 EA 1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	80,219.37	4,604.83
<i>For NEMA 3R Enclosure, Add</i>	16,569.26	
<i>For NEMA 4 Enclosure, Add</i>	16,569.26	
<i>For NEMA 12 Enclosure, Add</i>	15,438.66	
26 36 23 00-0035 EA 2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	90,993.33	5,036.53
<i>For NEMA 3R Enclosure, Add</i>	16,569.26	
<i>For NEMA 4 Enclosure, Add</i>	16,569.26	
<i>For NEMA 12 Enclosure, Add</i>	15,438.66	
26 36 23 00-0036 EA 3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	144,418.83	5,756.03
<i>For NEMA 3R Enclosure, Add</i>	20,467.91	
26 36 23 00-0037 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	156,011.56	6,475.54
<i>For NEMA 3R Enclosure, Add</i>	20,467.91	
26 36 23 00-0038 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0039 EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	6,538.91	350.16
<i>For NEMA 3R Enclosure, Add</i>	487.33	
<i>For NEMA 12 Enclosure, Add</i>	877.20	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0040 EA 70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	7,093.60	420.19
For NEMA 3R Enclosure, Add	487.33	
For NEMA 12 Enclosure, Add	877.20	
26 36 23 00-0041 EA 125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	7,647.38	490.22
For NEMA 3R Enclosure, Add	487.33	
For NEMA 12 Enclosure, Add	877.20	
26 36 23 00-0042 EA 150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	9,168.90	560.26
For Four Pole Circuit Breaker, Add	2,436.66	
For NEMA 3R Enclosure, Add	487.33	
For NEMA 12 Enclosure, Add	877.20	
26 36 23 00-0043 EA 225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	11,886.02	630.29
For Four Pole Circuit Breaker, Add	2,436.66	
For NEMA 3R Enclosure, Add	487.33	
For NEMA 12 Enclosure, Add	877.20	
26 36 23 00-0044 EA 250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	12,670.34	700.32
For Four Pole Circuit Breaker, Add	2,436.66	
For NEMA 3R Enclosure, Add	487.33	
For NEMA 12 Enclosure, Add	877.20	
26 36 23 00-0045 EA 300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	13,199.11	770.35
For Four Pole Circuit Breaker, Add	3,313.86	
For NEMA 3R Enclosure, Add	1,267.06	
For NEMA 12 Enclosure, Add	974.67	
26 36 23 00-0046 EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	14,919.91	840.39
For Four Pole Circuit Breaker, Add	3,313.86	
For NEMA 3R Enclosure, Add	1,267.06	
For NEMA 12 Enclosure, Add	974.67	
26 36 23 00-0047 EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	18,119.99	1,050.48
For Four Pole Circuit Breaker, Add	3,313.86	
For NEMA 3R Enclosure, Add	1,267.06	
For NEMA 12 Enclosure, Add	974.67	
26 36 23 00-0048 EA 800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	18,965.52	1,260.58
For Four Pole Circuit Breaker, Add	4,727.12	
For NEMA 3R Enclosure, Add	2,183.25	
For NEMA 12 Enclosure, Add	1,364.53	
26 36 23 00-0049 EA 1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	22,577.81	1,726.81
For Four Pole Circuit Breaker, Add	4,727.12	
For NEMA 3R Enclosure, Add	2,183.25	
For NEMA 12 Enclosure, Add	1,364.53	
26 36 23 00-0050 Accessories <small>(26 36 23)</small>		
26 36 23 00-0051 EA Auxiliary Contacts For Automatic Transfer Switch.....	226.13	
26 36 23 00-0052 EA Battery Charger For Automatic Transfer Switch.....	1,851.87	
26 36 23 00-0053 EA Elevator Relay Signal For Automatic Transfer Switch.....	672.52	

26 40 Electrical And Cathodic Protection (26)**26 41 Facility Lightning Protection (26 40)****26 41 13 Lightning Protection for Structures (26 41)****26 41 13 13 Lightning Protection for Buildings (26 41 13)****26 41 13 13-0001 Lightning Protection (26 41 13 13)**

See CSI section 26 05 26 00-0001 for conductors.

26 41 13 13-0002 Air Terminals For Lightning Protection (26 41 13 13-0001)**26 41 13 13-0003 Copper Lightning Protection Air Terminals (26 41 13 13-0002)**

26 41 13 13-0004 EA 3/8" x 10" Copper Lightning Protection Air Terminal.....	69.65	13.69
26 41 13 13-0005 EA 1/2" x 12" Copper Lightning Protection Air Terminal.....	86.90	13.69
26 41 13 13-0006 EA 5/8" x 12" Copper Lightning Protection Air Terminal.....	112.11	13.69
26 41 13 13-0007 EA 1/2" x 24" Copper Lightning Protection Air Terminal.....	124.78	13.69
26 41 13 13-0008 EA 1/2" x 60" Copper Lightning Protection Air Terminal.....	240.05	27.36

26 41 13 13-0009 Aluminum Lightning Protection Air Terminals (26 41 13 13-0002)

26 41 13 13-0010 EA 3/8" x 10" Aluminum Lightning Protection Air Terminal.....	60.34	13.69
26 41 13 13-0011 EA 1/2" x 12" Aluminum Lightning Protection Air Terminal.....	77.42	13.69
26 41 13 13-0012 EA 5/8" x 12" Aluminum Lightning Protection Air Terminal.....	96.51	13.69
26 41 13 13-0013 EA 1/2" x 24" Aluminum Lightning Protection Air Terminal.....	107.56	13.69
26 41 13 13-0014 EA 1/2" x 60" Aluminum Lightning Protection Air Terminal.....	204.58	27.36



Electrical	26	26
Electrical And Cathodic Protection	26 40	
Facility Lightning Protection	26 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 41 13 13-0015 Terminal Bases For Lightning Protection (26 41 13 13-0001)		
26 41 13 13-0016 Copper Lightning Protection Terminal Bases (26 41 13 13-0015)		
26 41 13 13-0017 EA Adhesive Base For Copper Lightning Protection Terminal	101.79	41.05
26 41 13 13-0018 EA Bolted Base For Copper Lightning Protection Terminal	137.98	54.73
26 41 13 13-0019 EA Hinged Base For Copper Lightning Protection Terminal	184.23	68.41
26 41 13 13-0020 EA Side Mounted Base For Copper Lightning Protection Terminal	137.98	54.73
26 41 13 13-0021 EA Offset Point Support For Copper Lightning Protection Terminal	145.88	54.73
26 41 13 13-0022 EA Concealed Base Assembly For Copper Lightning Protection Terminal	260.95	109.46
26 41 13 13-0023 EA 36" Tripod Base For 60" Copper Lightning Protection Terminal	182.16	68.41
26 41 13 13-0024 EA Intermediate Base For Copper Lightning Protection Terminal	101.79	41.05
26 41 13 13-0025 Aluminum Lightning Protection Terminal Bases (26 41 13 13-0015)		
26 41 13 13-0026 EA Adhesive Base For Aluminum Lightning Protection Terminal	93.99	41.05
26 41 13 13-0027 EA Bolted Base For Aluminum Lightning Protection Terminal	134.39	54.73
26 41 13 13-0028 EA Hinged Base For Aluminum Lightning Protection Terminal	177.00	68.41
26 41 13 13-0029 EA Side Mounted Base For Aluminum Lightning Protection Terminal	134.70	54.73
26 41 13 13-0030 EA Offset Point Support For Aluminum Lightning Protection Terminal	139.01	54.73
26 41 13 13-0031 EA Concealed Base Assembly For Aluminum Lightning Protection Terminal	254.88	109.46
26 41 13 13-0032 EA 36" Tripod Base For 60" Aluminum Lightning Protection Terminal	173.41	68.41
26 41 13 13-0033 EA Intermediate Base For Aluminum Lightning Protection Terminal	93.99	41.05
26 41 13 13-0034 Connectors (26 41 13 13-0001)		
26 41 13 13-0035 Copper Cable Connectors (26 41 13 13-0034)		
26 41 13 13-0036 EA Thru Wall Cable Connector For Copper Lightning Protection System	205.13	68.41
26 41 13 13-0037 EA Thru Roof Adapter Assembly For Copper Lightning Protection System	282.28	109.46
26 41 13 13-0038 EA Beam Connector For Copper Lightning Protection System	185.66	68.41
26 41 13 13-0039 EA Double Bolt Cable Connector For Copper Lightning Protection System	43.57	13.69
26 41 13 13-0040 EA Cable To Bar Connector For Copper Lightning Protection System	44.30	13.69
26 41 13 13-0041 EA Tee Connector For Copper Lightning Protection Terminal	135.37	41.05
26 41 13 13-0042 Aluminum Cable Connectors (26 41 13 13-0034)		
26 41 13 13-0043 EA Thru Wall Cable Connector For Aluminum Lightning Protection System	190.25	68.41
26 41 13 13-0044 EA Thru Roof Adapter Assembly For Aluminum Lightning Protection System	272.58	109.46
26 41 13 13-0045 EA Beam Connector For Aluminum Lightning Protection System	181.01	68.41
26 41 13 13-0046 EA Double Bolt Cable Connector For Aluminum Lightning Protection System	41.06	13.69
26 41 13 13-0047 EA Tee Connector For Aluminum Lightning Protection Terminal	121.87	41.05
26 41 13 13-0048 Bonding Plates (26 41 13 13-0001)		
26 41 13 13-0049 Copper Bonding Plates (26 41 13 13-0048)		
26 41 13 13-0050 EA 8" Square I Beam Bonding Plate For Copper Lightning Protection System	166.86	68.41
26 41 13 13-0051 EA 8" Square Purlin Bonding Plate For Copper Lightning Protection System	171.68	68.41
26 41 13 13-0052 EA 16" Square Bonding Plate For Copper Lightning Protection System	253.22	109.46
26 41 13 13-0053 Aluminum Bonding Plates (26 41 13 13-0048)		
26 41 13 13-0054 EA 8" Square I Beam Bonding Plate For Aluminum Lightning Protection System	160.99	68.41
26 41 13 13-0055 EA 8" Square Purlin Bonding Plate For Aluminum Lightning Protection System	165.92	68.41
26 41 13 13-0056 EA 16" Square Bonding Plate For Aluminum Lightning Protection System	242.25	109.46
26 41 13 13-0057 Cable Supports (26 41 13 13-0001)		
26 41 13 13-0058 Copper Cable Supports (26 41 13 13-0057)		
26 41 13 13-0059 EA Loop Fastener, Copper Cable Supports For Lightning Protection System	30.82	13.69
26 41 13 13-0060 EA Adhesive Cable Holder, Copper Cable Support For Lightning Protection System	31.29	13.69
26 41 13 13-0061 Aluminum Cable Supports (26 41 13 13-0057)		
26 41 13 13-0062 EA Loop Fastener, Aluminum Cable Supports For Lightning Protection System	30.46	13.69
26 41 13 13-0063 EA Adhesive Cable Holder, Aluminum Cable Support For Lightning Protection System	30.30	13.69
26 41 13 13-0064 Bonding Straps (26 41 13 13-0001)		
26 41 13 13-0065 Copper Bonding Straps (26 41 13 13-0064)		
26 41 13 13-0066 EA 3/4" x 9-1/2" Flex Braided Strap For Copper Lightning Protection System	87.29	41.05
26 41 13 13-0067 Aluminum Bonding Straps (26 41 13 13-0064)		
26 41 13 13-0068 EA 3/4" x 9-1/2" Flex Braided Strap For Aluminum Lightning Protection System	83.52	41.05

26	Electrical
26 40	Electrical And Cathodic Protection
26 41	Facility Lightning Protection



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 41 13 13-0069	Accessories For Lightning Protection <small>(26 41 13 13-0001)</small> See CSI section 26 05 26 00-0001 for conductors straps and conduit jumpers.		
26 41 13 13-0070	Copper Adapters <small>(26 41 13 13-0069)</small>		
26 41 13 13-0071	EA Swivel Adapters For Copper Lightning Protection System.....	31.77	6.84
26 41 13 13-0072	Aluminum Adapters <small>(26 41 13 13-0069)</small>		
26 41 13 13-0073	EA Swivel Adapters For Aluminum Lightning Protection System	31.34	6.84
26 41 13 13-0074	EA Floor Ground Receptacle For Aluminum Lightning Protection System	207.14	68.41

26 41 23 Lightning Protection Surge Arresters and Suppressors (26 41)

26 41 23 00-0001	Surge And Lightning Arrestors <small>(26 41 23)</small>		
26 41 23 00-0002	Metal Top Intermediate Type IMX <small>(26 41 23 00-0001)</small> Note: For outdoor construction, single phase.		
26 41 23 00-0003	EA 3 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,243.54	298.76
26 41 23 00-0004	EA 4.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,344.04	298.76
26 41 23 00-0005	EA 6 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,344.04	298.76
26 41 23 00-0006	EA 7.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,530.67	298.76
26 41 23 00-0007	EA 9 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,530.67	298.76
26 41 23 00-0008	EA 10 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,685.72	298.76
26 41 23 00-0009	EA 12 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,685.72	298.76
26 41 23 00-0010	EA 15 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,294.49	373.45
26 41 23 00-0011	EA 18 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,374.88	373.45
26 41 23 00-0012	EA 21 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,615.64	448.13
26 41 23 00-0013	EA 24 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,822.37	448.13
26 41 23 00-0014	EA 27 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	3,342.07	448.13

26 41 23 00-0015 Porcelain Top Intermediate Type IMX (26 41 23 00-0001)

Note: For cubicle mounting, single phase.

26 41 23 00-0016	EA 3 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,243.54	298.76
26 41 23 00-0017	EA 4.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,344.04	298.76
26 41 23 00-0018	EA 6 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,344.04	298.76
26 41 23 00-0019	EA 7.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,530.67	298.76
26 41 23 00-0020	EA 9 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,530.67	298.76
26 41 23 00-0021	EA 10 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,685.72	298.76
26 41 23 00-0022	EA 12 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,685.72	298.76
26 41 23 00-0023	EA 15 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,294.49	373.45
26 41 23 00-0024	EA 18 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,374.88	373.45
26 41 23 00-0025	EA 21 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,615.64	448.13
26 41 23 00-0026	EA 24 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,822.37	448.13
26 41 23 00-0027	EA 27 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	3,342.07	448.13

26 41 23 00-0028 IMX Accessories (26 41 23 00-0001)

26 41 23 00-0029	EA 1 Crossarm Bracket Reversible 3-27 KV IMX.....	1,036.81	298.76
26 41 23 00-0030	EA Single Unit Horizontal Pole Mounted Bracket (IMX).....	1,025.33	298.76
26 41 23 00-0031	EA 3 Unit Horizontal Pole Mounted Bracket (IMX)	939.30	298.76

26 41 23 00-0032 Lightning Arrester And Cutouts (26 41 23 00-0001)

26 41 23 00-0033	EA 3 KV La Distribution Class, Lightning Arrester	715.23	298.76
26 41 23 00-0034	EA 3 KV La Interior Class, Lightning Arrester.....	1,320.03	298.76
26 41 23 00-0035	EA 3 KV La Station Class, Lightning Arrester.....	1,243.54	298.76
26 41 23 00-0036	EA 9 KV La Distribution Class, Lightning Arrester	778.40	298.76
26 41 23 00-0037	EA 9 KV La Interior Class, Lightning Arrester.....	1,487.48	298.76
26 41 23 00-0038	EA 9 KV La Station Class, Lightning Arrester.....	1,530.67	298.76
26 41 23 00-0039	EA 5 KV Enclosed Fused Cutout.....	876.60	298.76
26 41 23 00-0040	EA 15 KV Open Fused Cutout.....	956.48	373.45
26 41 23 00-0041	EA 18 KV La Distribution Class, Lightning Arrester	745.17	298.76
26 41 23 00-0042	EA 18 KV La Interior Class, Lightning Arrester.....	1,576.99	298.76

26 43 Surge Protective Devices (26 40)

26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)

26 43 13 00-0001 25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)

Note: Liebert LPL

26 43 13 00-0002	EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	313.65	34.21
26 43 13 00-0003	EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	338.53	34.21
26 43 13 00-0004	EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	352.22	41.05
26 43 13 00-0005	EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	292.86	27.36
26 43 13 00-0006	EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	352.22	41.05



Electrical	26	26
Electrical And Cathodic Protection	26 40	
Surge Protective Devices	26 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0007 50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small> Note: Liebert LPL		
26 43 13 00-0008 EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	436.27	34.21
26 43 13 00-0009 EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	464.18	41.05
26 43 13 00-0010 EA 208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	450.49	34.21
26 43 13 00-0011 EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	464.18	41.05
26 43 13 00-0012 100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small> Note: Liebert LPL		
26 43 13 00-0013 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	528.68	34.21
26 43 13 00-0014 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	556.59	41.05
26 43 13 00-0015 EA 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	493.67	27.36
26 43 13 00-0016 EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	556.59	41.05
26 43 13 00-0017 100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small> Note: Liebert LPM		
26 43 13 00-0018 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	624.64	34.21
26 43 13 00-0019 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	704.08	41.05
26 43 13 00-0020 EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	591.41	27.36
26 43 13 00-0021 160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small> Note: Liebert LPM		
26 43 13 00-0022 EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	1,103.93	41.05
26 43 13 00-0023 EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	1,090.24	34.21
26 43 13 00-0024 EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	1,103.93	41.05
26 43 13 00-0025 250 kA, 500 Joule Transient Voltage Surge Suppression <small>(26 43 13)</small> Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026 EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	6,407.01	68.41
26 43 13 00-0027 EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	7,828.69	68.41
26 43 13 00-0028 Class 1310 Transient Voltage Surge Suppression <small>(26 43 13)</small> Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029 NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small> Note: Square D. EMA series.		
26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,160.43	177.88
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0031 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,690.70	205.24
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,320.79	239.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,074.44	273.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	16,390.35	376.28
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,385.53	177.88
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,937.98	205.24
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,702.84	239.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,570.61	273.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	17,156.00	376.28
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,385.53	177.88
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,937.98	205.24
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,702.78	239.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,570.61	273.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,156.00 265.68 203.04	376.28
26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,610.65 265.68 203.04	177.88
26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,188.45 265.68 203.04	205.24
26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,088.02 265.68 203.04	239.45
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,070.02 265.68 203.04	273.66
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,924.76 265.68 203.04	376.28
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,872.20 265.68 203.04	177.88
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,448.47 265.68 203.04	205.24
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,490.66 265.68 203.04	239.45
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,593.12 265.68 203.04	273.66
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,641.75 265.68 203.04	376.28
26 43 13 00-0055 NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶ ^{43 13 00-0028)} Note: Square D EBA series.		
26 43 13 00-0056 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,019.13 265.68 203.04	177.88
26 43 13 00-0057 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,856.95 265.68 203.04	205.24
26 43 13 00-0058 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,125.59 265.68 203.04	239.45
26 43 13 00-0059 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,147.53 265.68 203.04	177.88
26 43 13 00-0060 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,047.17 265.68 203.04	205.24
26 43 13 00-0061 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,374.45 265.68 203.04	239.45
26 43 13 00-0062 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,147.53 265.68 203.04	177.88
26 43 13 00-0063 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,047.17 265.68 203.04	205.24
26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,374.45 265.68 203.04	239.45
26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,310.81 265.68 203.04	177.88
26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,251.66 265.68 203.04	205.24
26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,693.07 265.68 203.04	239.45
26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,482.01 265.68 203.04	177.88
26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,468.82 265.68 203.04	205.24
26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,027.54 265.68 203.04	239.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small>		
<small>Note: Square D EMA series. Stainless steel.</small>		
26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,658.42	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,188.69	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	9,818.78	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,883.52	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,435.97	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	10,200.82	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,883.52	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,435.97	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	10,200.76	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,108.64	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,686.43	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	10,586.01	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,370.19	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,946.46	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	10,988.65	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small>		
<small>Note: Square D EBA series. Stainless steel.</small>		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	5,517.12	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	6,354.94	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	8,623.58	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	5,645.52	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	6,545.16	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	8,872.44	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	5,645.52	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	6,545.16	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	8,872.44	239.45
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	5,808.80	177.88
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor.....	6,749.65	205.24
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	9,191.06 265.68 203.04	239.45
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,980.00 265.68 203.04	177.88
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,966.81 265.68 203.04	205.24
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	9,525.53 265.68 203.04	239.45

26 50 Lighting ⁽²⁶⁾

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 51 Interior Lighting ^(26 50)

26 51 13 Incandescent Interior Lighting ^(26 51)

26 51 13 00-0001 Recessed Fixtures ^(26 51 13)

Note: Housing and trim priced separately.

26 51 13 00-0002 Incandescent, Recessed Fixture Housings ^(26 51 13 00-0001)

26 51 13 00-0003 EA 4" Round, Incandescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	84.91 3.36	39.14
26 51 13 00-0004 EA 5" Round, Incandescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	84.91 3.36	39.14
26 51 13 00-0005 EA 6" Round, Incandescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	89.90 3.65	41.05
26 51 13 00-0006 EA 7" Round, Incandescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	95.02 3.96	42.82
26 51 13 00-0007 EA 8" Round, Incandescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	100.16 4.27	44.61
26 51 13 00-0008 EA 10" To 12" Square, Incandescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	102.88 4.09	47.34

26 51 13 00-0009 Recessed Fixture Trim ^(26 51 13 00-0001)

26 51 13 00-0010 EA Circular, Recessed Fixture Trim.....	61.00	19.16
26 51 13 00-0011 EA Circular Clear Lens, Recessed Fixture Trim.....	66.91	19.16
26 51 13 00-0012 EA Open/Baffle, Recessed Fixture Trim.....	77.15	19.16
26 51 13 00-0013 EA Specular Reflector, Recessed Fixture Trim.....	82.57	19.16
26 51 13 00-0014 EA Eyeball, Recessed Fixture Trim.....	66.99	19.16
26 51 13 00-0015 EA 10" To 12" Square, Clear Lens, Recessed Fixture Trim.....	63.82	19.16
26 51 13 00-0016 EA 10" To 12" Square, Drop Dish, Recessed Fixture Trim.....	67.46	19.16

26 51 13 00-0017 Track Lighting ^(26 51 13)

26 51 13 00-0018 Track Lighting Tracks ^(26 51 13 00-0017)

26 51 13 00-0019 LF 1 Circuit Track Lighting Track.....	25.45	9.03
26 51 13 00-0020 LF 2 Circuit Track Lighting Track.....	32.59	9.03
26 51 13 00-0021 LF 3 Circuit Track Lighting Track.....	38.71	9.03
26 51 13 00-0022 LF 4 Circuit Track Lighting Track.....	44.85	10.94

26 51 13 00-0023 Incandescent Track Lighting Fixtures ^(26 51 13 00-0017)

26 51 13 00-0024 EA Incandescent Track Lighting Fixture, 120 Volt.....	78.06	22.85
26 51 13 00-0025 EA Par 20 Track Fixture, White Or Black Finish, 120 Volt.....	62.81	22.85
26 51 13 00-0026 EA Par 30 Track Fixture, White Or Black Finish, 120 Volt.....	84.90	22.85
26 51 13 00-0027 EA Par 38 Track Fixture, White Or Black Finish, 120 Volt.....	87.09	22.85
26 51 13 00-0028 EA PAR 16, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	72.81	22.85
26 51 13 00-0029 EA PAR 20, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	62.81	22.85
26 51 13 00-0030 EA PAR 30, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt..... Note: 120V.	71.76	22.85
26 51 13 00-0031 EA PAR 38, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	89.28	22.85

26 51 13 00-0032 Track Lighting Accessories ^(26 51 13 00-0017)

26 51 13 00-0033 Pendant Mounting ^(26 51 13 00-0032)

26 51 13 00-0034 EA Track Lighting Pendant Mounting, Up to 12".....	30.19	
26 51 13 00-0035 EA Track Lighting Pendant Mounting, >12" To 24".....	38.41	
26 51 13 00-0036 EA Track Lighting Pendant Mounting, >24" To 36".....	46.69	

26 51 13 00-0037 Wet Location, Dust Resistant, Vapor Tight Fixtures ^(26 51 13)

26 51 13 00-0038 Incandescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures ^(26 51 13 00-0037)



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0039 EA 100 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	146.72 5.10	54.73
26 51 13 00-0040 EA 200 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	167.12 5.10	54.73
26 51 16 Fluorescent Interior Lighting (26 51)		
26 51 16 00-0001 Fluorescent Fixtures (26 51 16)		
26 51 16 00-0002 Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0003 6" x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
26 51 16 00-0004 EA 1 T8 Lamp, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture	167.74	39.13
26 51 16 00-0005 EA 2 T8 Lamps, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....	186.68	39.13
26 51 16 00-0006 6" x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
26 51 16 00-0007 EA 1 T8 Lamp, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture	186.27	40.75
26 51 16 00-0008 EA 2 T8 Lamps, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....	205.12	40.75
26 51 16 00-0009 1' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
26 51 16 00-0010 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	219.75	45.75
26 51 16 00-0011 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	256.36	45.75
26 51 16 00-0012 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	296.84	45.75
26 51 16 00-0013 2' x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
26 51 16 00-0014 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	186.99	50.00
26 51 16 00-0015 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	213.31	50.00
26 51 16 00-0016 2' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
26 51 16 00-0017 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	282.10	58.26
26 51 16 00-0018 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	300.42	58.26
26 51 16 00-0019 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	336.98	58.26
26 51 16 00-0020 Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0001) Note: Includes prismatic lens.		
26 51 16 00-0021 1' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0022 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	218.60	45.38
26 51 16 00-0023 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	345.04	45.38
26 51 16 00-0024 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	390.11	45.38
26 51 16 00-0025 2' x 2', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0026 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	339.51	50.00
26 51 16 00-0027 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	369.16	50.00
26 51 16 00-0028 EA 4 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	390.56	50.00
26 51 16 00-0029 2' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0030 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	343.48	58.26
26 51 16 00-0031 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	373.19	58.26
26 51 16 00-0032 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	388.73	58.26
26 51 16 00-0033 EA 6 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	411.50	58.26
26 51 16 00-0034 4' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0035 EA 4 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	665.98	75.01
26 51 16 00-0036 EA 6 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	672.94	75.01
26 51 16 00-0037 EA 8 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	549.19	75.01
26 51 16 00-0038 Recessed Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0039 Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0040 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0041 EA 2 T8 Lamps, 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	224.24 26.44	39.13
<i>For Drywall Or Plaster Ceilings, Add</i>		
26 51 16 00-0042 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0043 EA 2 T8 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	284.79 30.94	45.38
<i>For Drywall Or Plaster Ceilings, Add</i>		
26 51 16 00-0044 EA 2 T5 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	504.38 30.94	45.38
<i>For Drywall Or Plaster Ceilings, Add</i>		

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0045			2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
	EA		2 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	294.17	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.75	
26 51 16 00-0047	EA		3 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	332.80	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.75	
26 51 16 00-0048	EA		4 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	337.40	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.76	
26 51 16 00-0049	EA		2 T5 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	362.56	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.75	
26 51 16 00-0050			2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0051	EA		2 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	287.17	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0052	EA		3 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	385.26	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0053	EA		4 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	388.74	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0054	EA		6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	428.44	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0055	EA		2 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	382.01	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0056	EA		3 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	510.09	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0057	EA		4 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	522.85	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0058			Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0059			1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0060	EA		1 T8 Lamp, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	256.05	39.13
			<i>For Drywall Or Plaster Ceilings, Add</i>	26.44	
26 51 16 00-0061	EA		2 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	260.64	39.13
			<i>For Drywall Or Plaster Ceilings, Add</i>	26.44	
26 51 16 00-0062	EA		3 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	301.62	39.13
			<i>For Drywall Or Plaster Ceilings, Add</i>	26.44	
26 51 16 00-0063			1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0064	EA		1 T8 Lamp, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	289.63	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0065	EA		2 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	293.11	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0066	EA		3 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	326.48	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0067			2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0068	EA		2 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	302.07	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.76	
26 51 16 00-0069	EA		3 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	306.66	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.76	
26 51 16 00-0070	EA		4 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	347.05	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.76	
26 51 16 00-0071			2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0072	EA		2 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	287.17	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0073	EA		3 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	329.00	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0074	EA		4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	368.72	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0075	EA		6 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	412.07	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0076			Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0077			1' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)		
26 51 16 00-0078	EA		1 T8 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture	517.87	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0079	EA		2 T8 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture	521.35	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0080	EA		1 T5 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture	613.23	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0081	EA		2 T5 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture	626.00	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0082 2' x 2', Direct-Indirect, Recessed Fluorescent Fixtures <small>(26 51 16 00-0076)</small>		
26 51 16 00-0083 EA 2 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	422.47 33.75	50.00
26 51 16 00-0084 EA 3 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	468.42 33.75	50.00
26 51 16 00-0085 EA 2 T5 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	570.28 33.75	50.00
26 51 16 00-0086 2' x 4', Direct-Indirect, Recessed Fluorescent Fixtures <small>(26 51 16 00-0076)</small>		
26 51 16 00-0087 EA 2 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	470.95 39.38	58.26
26 51 16 00-0088 EA 3 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	572.69 39.38	58.26
26 51 16 00-0089 EA 1 T5 Lamp, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	611.42 39.38	58.26
26 51 16 00-0090 EA 2 T5 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	671.22 39.38	58.26
26 51 16 00-0091 Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0092 1' x 4', Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0091)</small>		
26 51 16 00-0093 EA 2 T8 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	411.28 30.94	45.38
26 51 16 00-0094 EA 2 T5 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	534.92 30.94	45.38
26 51 16 00-0095 2' x 2', Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0091)</small>		
26 51 16 00-0096 EA 2 T8 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	412.60 33.75	50.00
26 51 16 00-0097 EA 2 T5 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	467.88 33.75	50.00
26 51 16 00-0098 2' x 4', Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0091)</small>		
26 51 16 00-0099 EA 2 T8 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	459.26 39.38	58.26
26 51 16 00-0100 EA 2 T5 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	460.18 39.38	58.26
26 51 16 00-0101 Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0102 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0103 EA 2 T8 Lamps, 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	384.00 30.94	45.38
26 51 16 00-0104 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0105 EA 2 T8 Lamps, 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	375.07 33.75	50.00
26 51 16 00-0106 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0107 EA 2 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	447.57 39.38	58.26
26 51 16 00-0108 EA 3 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	512.37 39.38	58.26
26 51 16 00-0109 EA 4 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	507.14 39.38	58.26
26 51 16 00-0110 Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0111 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0112 EA 2 T8 Lamps, 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	367.21 30.94	45.38
26 51 16 00-0113 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0114 EA 2 T8 Lamps, 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	374.67 33.75	50.00



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 16 00-0115		2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0110)</small>		
26 51 16 00-0116	EA	2 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	457.00 39.38	58.26
26 51 16 00-0117	EA	3 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	463.75 39.38	58.26
26 51 16 00-0118	EA	4 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	474.17 39.38	58.26
26 51 16 00-0119		Striplight Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
26 51 16 00-0120		1 Lamp Cross Section, Striplight Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0121	EA	1-1/2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	171.36	37.50
26 51 16 00-0122	EA	2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	204.43	37.50
26 51 16 00-0123	EA	3' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	204.27	41.63
26 51 16 00-0124	EA	4' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	208.53	45.75
26 51 16 00-0125	EA	8' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	252.11	54.19
26 51 16 00-0126		2 Lamp Cross Section, Striplight Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0127	EA	2' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	207.99	41.63
26 51 16 00-0128	EA	3' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	215.97	45.75
26 51 16 00-0129	EA	4' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	218.26	50.00
26 51 16 00-0130		3 Lamp Cross Section, Striplight Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0131	EA	2' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	290.82	41.63
26 51 16 00-0132	EA	3' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	285.13	45.75
26 51 16 00-0133	EA	4' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	285.43	50.00
26 51 16 00-0134		Display Case Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0135	EA	1 T8 Lamp, 1-1/2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU15W).....	130.66	41.05
26 51 16 00-0136	EA	1 T8 Lamp, 2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU20W).....	162.88	41.05
26 51 16 00-0137	EA	1 T8 Lamp, 3' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU30W).....	176.45	47.89
26 51 16 00-0138	EA	1 T8 Lamp, 4' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU40W).....	178.94	47.89
26 51 16 00-0139		Industrial Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
26 51 16 00-0140		1 Lamp Cross Section, Industrial Fluorescent Fixtures <small>(26 51 16 00-0139)</small>		
26 51 16 00-0141	EA	2' Length, 1 T8 Lamp, Industrial Fluorescent Fixture.....	235.36	37.50
26 51 16 00-0142	EA	4' Length, 1 T8 Lamp, Industrial Fluorescent Fixture.....	250.28	45.75
26 51 16 00-0143	EA	8' Length, 1 T8 Lamp, Industrial Fluorescent Fixture.....	440.02	58.26
26 51 16 00-0144		2 Lamp Cross Section, Industrial Fluorescent Fixtures <small>(26 51 16 00-0139)</small>		
26 51 16 00-0145	EA	2' Length, 2 T8 Lamps, Industrial Fluorescent Fixture.....	246.20	41.63
26 51 16 00-0146	EA	4' Length, 2 T8 Lamps, Industrial Fluorescent Fixture.....	260.03	50.00
26 51 16 00-0147	EA	8' Length, 2 T8 Lamps, Industrial Fluorescent Fixture.....	446.97	58.26
26 51 16 00-0148		3 Lamp Cross Section, Industrial Fluorescent Fixtures <small>(26 51 16 00-0139)</small>		
26 51 16 00-0149	EA	2' Length, 3 T8 Lamps, Industrial Fluorescent Fixture.....	256.25	41.63
26 51 16 00-0150	EA	4' Length, 3 T8 Lamps, Industrial Fluorescent Fixture.....	267.60	50.00
26 51 16 00-0151	EA	8' Length, 3 T8 Lamps, Industrial Fluorescent Fixture.....	392.05	58.26
26 51 16 00-0152		4 Lamp Cross Section, Industrial Fluorescent Fixtures <small>(26 51 16 00-0139)</small>		
26 51 16 00-0153	EA	4' Length, 4 T8 Lamps, Industrial Fluorescent Fixture.....	354.60	50.00
26 51 16 00-0154	EA	8' Length, 4 T8 Lamps, Industrial Fluorescent Fixture.....	508.18	58.26
26 51 16 00-0155		Flanged Fluorescent Fixture <small>(26 51 16 00-0001)</small> Note: For plaster or drywall application. With electronic ballast.		
26 51 16 00-0156	EA	2 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture.....	352.20	75.01
26 51 16 00-0157	EA	3 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture.....	410.26	75.01
26 51 16 00-0158	EA	4 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture.....	413.74	75.01
26 51 16 00-0159		Undercabinet Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
26 51 16 00-0160	EA	1 T5 Lamp, 12-3/16" Length, Slimline Undercabinet Fluorescent Fixture.....	131.96	33.76
26 51 16 00-0161	EA	1 T5 Lamp, 21-3/16" Length, Slimline Undercabinet Fluorescent Fixture.....	154.93	41.25
26 51 16 00-0162	EA	2 T5 Lamps, 24-7/16" Length, Slimline Undercabinet Fluorescent Fixture.....	152.85	41.25
26 51 16 00-0163	EA	1 T5 Lamp, 33-7/16" Length, Slimline Undercabinet Fluorescent Fixture.....	181.50	45.00
26 51 16 00-0164	EA	2 T5 Lamps, 42-7/16" Length, Slimline Undercabinet Fluorescent Fixture.....	211.12	52.51



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0165 Corner Mounted, Fluorescent Fixtures (26 51 16 00-0001) Note: Includes acrylic drop dish diffuser.		
26 51 16 00-0166 2' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0167 EA 1 T8 Lamp, 2' Length, Corner Mounted, Fluorescent Fixture.....	219.56	37.50
26 51 16 00-0168 EA 2 T8 Lamps, 2' Length, Corner Mounted, Fluorescent Fixture.....	243.20	37.50
26 51 16 00-0169 3' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0170 EA 1 T8 Lamp, 3' Length, Corner Mounted, Fluorescent Fixture.....	249.14	39.38
26 51 16 00-0171 EA 2 T8 Lamps, 3' Length, Corner Mounted, Fluorescent Fixture.....	271.72	39.38
26 51 16 00-0172 4' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0173 EA 1 T8 Lamp, 4' Length, Corner Mounted, Fluorescent Fixture.....	244.57	41.25
26 51 16 00-0174 EA 2 T8 Lamps, 4' Length, Corner Mounted, Fluorescent Fixture.....	266.05	41.25
26 51 16 00-0175 Wall Bracket, Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0176 Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0175) Note: Includes extruded aluminum housing with brushed finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0177 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0178 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	241.87	62.94
26 51 16 00-0179 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	245.78	62.94
26 51 16 00-0180 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0181 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	311.68	62.94
26 51 16 00-0182 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	317.14	62.94
26 51 16 00-0183 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0184 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	322.78	62.94
26 51 16 00-0185 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	326.69	62.94
26 51 16 00-0186 Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0175) Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0187 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)		
26 51 16 00-0188 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	564.95	62.94
26 51 16 00-0189 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	568.86	62.94
26 51 16 00-0190 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)		
26 51 16 00-0191 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	447.41	62.94
26 51 16 00-0192 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	452.87	62.94
26 51 16 00-0193 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)		
26 51 16 00-0194 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	514.02	62.94
26 51 16 00-0195 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	517.93	62.94
26 51 16 00-0196 Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0175) Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0197 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)		
26 51 16 00-0198 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	231.81	62.94
26 51 16 00-0199 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	235.72	62.94
26 51 16 00-0200 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)		
26 51 16 00-0201 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	233.37	62.94
26 51 16 00-0202 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	238.83	62.94
26 51 16 00-0203 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)		
26 51 16 00-0204 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	224.11	62.94
26 51 16 00-0205 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	228.02	62.94
26 51 16 00-0206 Low Occupancy, Industrial Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0207 EA 1 T8 Lamp, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	278.19	45.75
26 51 16 00-0208 EA 2 T8 Lamps, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	284.45	50.00

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0209		Ceiling Mounted Fluorescent Fixtures <small>(26 51 16)</small>		
26 51 16 00-0210		Ceiling Mounted, Compact Fluorescent/Incandescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0211		Glass Globe, Compact Fluorescent/Incandescent Fixtures <small>(26 51 16 00-0210)</small>		
26 51 16 00-0212	EA	6" Diameter, Ceiling Mounted, Glass Globe, Compact Fluorescent/Incandescent Fixture.....	149.94	54.73
26 51 16 00-0213	EA	9" Diameter, Ceiling Mounted, Mushroom Style Glass Globe, Compact Fluorescent/Incandescent Fixture.....	173.14	54.73
26 51 16 00-0214		Ceiling Mounted, Circline Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0215		Exposed Lamps, Circline Fluorescent Fixtures <small>(26 51 16 00-0214)</small>		
26 51 16 00-0216	EA	8-1/2" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture	131.45	54.73
26 51 16 00-0217	EA	12" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture	142.00	54.73
26 51 16 00-0218		Low Profile Acrylic Diffuser, Circline Fluorescent Fixtures <small>(26 51 16 00-0214)</small>		
26 51 16 00-0219	EA	11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	180.69	54.73
26 51 16 00-0220	EA	14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	244.56	54.73
26 51 16 00-0221	EA	19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	288.81	54.73
26 51 16 00-0222	EA	12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	201.38	54.73
26 51 16 00-0223	EA	15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	245.87	54.73
26 51 16 00-0224	EA	19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	288.81	54.73
26 51 16 00-0225		Ceiling Mounted, Double Twin Tube Compact Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0226		Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixtures <small>(26 51 16 00-0225)</small>		
26 51 16 00-0227	EA	11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	184.80	54.73
26 51 16 00-0228	EA	14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	229.36	54.73
26 51 16 00-0229	EA	19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	269.12	54.73
26 51 16 00-0230	EA	12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	152.87	54.73
26 51 16 00-0231	EA	15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	177.23	54.73
26 51 16 00-0232	EA	19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	223.40	54.73
26 51 16 00-0233		Pendant Mounted, Compact Fluorescent/Incandescent Downlights <small>(26 51 16 00-0209)</small>		
26 51 16 00-0234		Pendant Mounted, Compact Fluorescent/Incandescent Open Reflector Downlights <small>(26 51 16 00-0233)</small>		
26 51 16 00-0235	EA	6" Diameter, Pendant Mounted, Open Reflector Compact Fluorescent/Incandescent Downlight.....	266.15	44.96
26 51 16 00-0236		Pendant Mounted, Compact Fluorescent/Incandescent Downlights With Baffle <small>(26 51 16 00-0233)</small>		
26 51 16 00-0237	EA	6" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	301.47	44.96
26 51 16 00-0238	EA	8" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	415.42	44.96
26 51 16 00-0239		Pendant Mounted, Horizontal Indirect Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0240	EA	1 T5HO Lamp, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	262.69	44.96
26 51 16 00-0241	EA	2 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	277.68	44.96
26 51 16 00-0242	EA	3 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	328.87	44.96
26 51 16 00-0243	EA	2 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	341.83	44.96
26 51 16 00-0244	EA	4 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	404.72	44.96
26 51 16 00-0245	EA	6 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	479.12	44.96
26 51 16 00-0246		Finelite Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0247		Pendant Mounted, Fluorescent Downlight Fixtures (Finelite Series 10) <small>(26 51 16 00-0246)</small>		
26 51 16 00-0248	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	439.77	63.76
26 51 16 00-0249	EA	2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	436.12	63.76
26 51 16 00-0250	EA	3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	468.10	63.76
26 51 16 00-0251	EA	1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	526.94	63.76
26 51 16 00-0252	EA	2 T5HO Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	574.82	63.76
26 51 16 00-0253	EA	3 T5HO Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	701.10	63.76
26 51 16 00-0254	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	617.00	66.50
26 51 16 00-0255	EA	4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	631.08	66.50



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0256 EA 6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	695.04	66.50
26 51 16 00-0257 EA 2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	677.32	66.50
26 51 16 00-0258 EA 4 T5HO Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	844.35	66.50
26 51 16 00-0259 EA 6 T5HO Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	990.01	66.50
26 51 16 00-0260 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	808.50	69.24
26 51 16 00-0261 EA 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	833.18	69.24
26 51 16 00-0262 EA 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	914.86	69.24
26 51 16 00-0263 EA 3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	934.60	69.24
26 51 16 00-0264 EA 6 T5HO Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,149.52	69.24
26 51 16 00-0265 EA 9 T5HO Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,371.57	69.24
26 51 16 00-0266 Pendant Mounted, Fluorescent Wallwash Fixtures (Finelite Series X2-O) ^(26 51 16 00-0246)		
26 51 16 00-0267 EA 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	436.23	63.76
26 51 16 00-0268 EA 1 T5 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	475.12	63.76
26 51 16 00-0269 EA 1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	474.28	63.76
26 51 16 00-0270 EA 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	629.60	66.50
26 51 16 00-0271 EA 2 T5 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	676.18	66.50
26 51 16 00-0272 EA 2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	674.50	66.50
26 51 16 00-0273 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	822.98	69.24
26 51 16 00-0274 EA 3 T5 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	939.64	69.24
26 51 16 00-0275 EA 3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	937.12	69.24
26 51 16 00-0276 Pendant Mounted, Fluorescent Indirect Fixtures (Finelite Series 8) ^(26 51 16 00-0246)		
26 51 16 00-0277 EA 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	338.32	63.76
26 51 16 00-0278 EA 2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	353.75	63.76
26 51 16 00-0279 EA 3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	413.03	63.76
26 51 16 00-0280 EA 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	434.21	66.50
26 51 16 00-0281 EA 4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	504.93	66.50
26 51 16 00-0282 EA 6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	589.61	66.50
26 51 16 00-0283 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	589.89	69.24
26 51 16 00-0284 EA 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	711.93	69.24
26 51 16 00-0285 EA 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	841.93	69.24
26 51 16 00-0286 Fluorescent, Recessed Fixture Housings ^(26 51 16)		
26 51 16 00-0287 EA 4" Round, Fluorescent, T Or ICT Recessed Fixture Housing	126.31	39.14
For ICAT Housing, Add	8.70	
26 51 16 00-0288 EA 5" Round, Fluorescent, T Or ICT Recessed Fixture Housing	129.98	39.14
For ICAT Housing, Add	9.18	
26 51 16 00-0289 EA 6" Round, Fluorescent, T Or ICT Recessed Fixture Housing	135.50	40.91
For ICAT Housing, Add	9.54	
26 51 16 00-0290 EA 7" Round, Fluorescent, T Or ICT Recessed Fixture Housing	142.29	42.41
For ICAT Housing, Add	10.06	
26 51 16 00-0291 EA 8" Round, Fluorescent, T Or ICT Recessed Fixture Housing	148.30	44.61
For ICAT Housing, Add	10.48	
26 51 16 00-0292 EA 10" To 12" Square, Fluorescent, T Or ICT Recessed Fixture Housing	154.08	47.34
For ICAT Housing, Add	10.70	
26 51 16 00-0293 Compact Fluorescent, Recessed Fixture Housings ^(26 51 16)		
26 51 16 00-0294 EA 4" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing	142.11	39.14
For ICAT Housing, Add	10.74	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0295 EA 5" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	145.73 11.21	39.14
26 51 16 00-0296 EA 6" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	151.38 11.59	41.05
26 51 16 00-0297 EA 7" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	156.07 11.84	42.82
26 51 16 00-0298 EA 8" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	161.36 12.17	44.61
26 51 16 00-0299 EA 10" To 12" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	166.86 12.35	47.34
26 51 16 00-0300 Fluorescent Track Lighting Fixtures (26 51 16)		
26 51 16 00-0301 EA 2L 18W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	271.98	22.85
26 51 16 00-0302 EA 2L 39W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	280.74	22.85
26 51 16 00-0303 EA 2L 40W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	286.21	22.85
26 51 16 00-0304 EA 2L 50W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	198.47	22.85
26 51 16 00-0305 EA 2L, 55 Watt BX Track Fixture, Electronic Ballast..... Note: White or Black Finish, 120V.	309.46	22.85
26 51 16 00-0306 Compact Fluorescent Track Lighting Fixtures (26 51 16)		
26 51 16 00-0307 EA Compact Fluorescent Track Lighting Fixture	89.98	22.85
26 51 16 00-0308 Compact Fluorescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 16)		
26 51 16 00-0309 EA 13 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	157.25 6.02	54.73
26 51 16 00-0310 EA 22 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	161.26 6.02	54.73
26 51 16 00-0311 EA 28 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	171.18 6.02	54.73
26 51 16 00-0312 Wet Location, Dust Resistant, Vapor Tight, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16)		
26 51 16 00-0313 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16 00-0312)		
26 51 16 00-0314 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia DMW) (26 51 16 00-0313) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0315 EA 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	274.63 21.43	58.26
26 51 16 00-0316 EA 2 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW) <i>For T5 Fixture Instead Of T8, Add</i>	285.62 22.68	58.26
26 51 16 00-0317 EA 3 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW) <i>For T5 Fixture Instead Of T8, Add</i>	434.70 39.75	58.26
26 51 16 00-0318 EA 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	381.52	58.26
26 51 16 00-0319 EA 2 T8HO Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	600.41	58.26
26 51 16 00-0320 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Day- Brite V2W) (26 51 16 00-0313) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0321 EA 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	317.48	58.26
26 51 16 00-0322 EA 2 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	319.92	58.26
26 51 16 00-0323 EA 3 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	456.07	58.26
26 51 16 00-0324 EA 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W)	384.06	58.26
26 51 16 00-0325 EA 2 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W)	400.49	58.26
26 51 16 00-0326 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16 00-0312) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0327 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia TDMW) (26 51 16 00-0326) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0328 EA 2 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	506.03 44.34	79.14
26 51 16 00-0329 EA 4 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	522.81 46.26	79.14
26 51 16 00-0330 High Bay Fluorescent Fixtures (26 51 16)		
26 51 16 00-0331 (T8) Fluorescent, High Bay Fixtures (26 51 16 00-0330)		



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0332 (T8) Fluorescent, High Bay Fixtures (Lithonia) <small>(26 51 16 00-0331)</small>		
<i>Note: For 8' fixture, use two (2) 4' fixtures.</i>		
26 51 16 00-0333 EA 2 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	459.89	127.51
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0334 EA 3 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	482.71	141.27
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0335 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	546.39	161.27
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0336 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	644.04	169.89
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0337 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	695.48	177.77
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0338 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	442.68	161.27
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0339 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	462.13	169.89
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0340 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	522.66	177.77
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0341 (T5HO) Fluorescent, High Bay Fixtures <small>(26 51 16 00-0330)</small>		
26 51 16 00-0342 (T5HO) Fluorescent, High Bay Fixtures (Lithonia) <small>(26 51 16 00-0341)</small>		
<i>Note: For 8' fixture, use two (2) 4' fixtures.</i>		
26 51 16 00-0343 EA 2 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	467.64	127.51
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0344 EA 3 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	492.11	141.27
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0345 EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	560.47	161.27
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0346 EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	669.25	169.89
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0347 EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	471.99	161.27
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0348 EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	517.52	169.89
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 16 00-0349 EA 8 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	599.05	177.77
<i>For Wire Guard, Add</i>	40.50	
<i>For Polycarbonate Lens, Add</i>	47.75	
<i>For Acrylic Lens, Add</i>	54.00	
26 51 19 LED Interior Lighting <small>(26 51)</small>		
26 51 19 00-0001 LED Fixtures <small>(26 51 19)</small>		
26 51 19 00-0002 Undercabinet LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0003 EA 12" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ12-M6).....	142.41	33.76
<i>For >50 To 100, Deduct</i>	-4.97	
<i>For >100 To 250, Deduct</i>	-8.53	
<i>For >250 To 500, Deduct</i>	-14.24	
<i>For >500, Deduct</i>	-19.96	
26 51 19 00-0004 EA 18" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ18-M6).....	177.59	41.25
<i>For >50 To 100, Deduct</i>	-6.16	
<i>For >100 To 250, Deduct</i>	-10.60	
<i>For >250 To 500, Deduct</i>	-17.76	
<i>For >500, Deduct</i>	-24.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0005 EA 24" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ24-M6)	184.73	41.25
For >50 To 100, Deduct	-6.34	
For >100 To 250, Deduct	-10.96	
For >250 To 500, Deduct	-18.47	
For >500, Deduct	-25.99	
26 51 19 00-0006 EA 24" HIDE-A-LITE V Series LED Undercabinet Fixture (Progress Lighting P700003-028-30)	147.15	33.76
For >50 To 100, Deduct	-5.09	
For >100 To 250, Deduct	-8.76	
For >250 To 500, Deduct	-14.72	
For >500, Deduct	-20.67	
26 51 19 00-0007 Surface Mount Linear/Striplight LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0008 Striplight LED Fixtures (Lithonia ZL) (26 51 19 00-0007)		
26 51 19 00-0009 EA 3,000 Lumens, 2' Length, LED Striplight Fixture (Lithonia ZL1)	204.40	37.50
For >50 To 100, Deduct	-6.52	
For >100 To 250, Deduct	-11.63	
For >250 To 500, Deduct	-20.44	
For >500, Deduct	-29.25	
26 51 19 00-0010 EA 2,800 Lumens, 4' Length, LED Striplight Fixture (Lithonia ZL1)	216.90	45.75
For >50 To 100, Deduct	-7.14	
For >100 To 250, Deduct	-12.56	
For >250 To 500, Deduct	-21.69	
For >500, Deduct	-30.82	
26 51 19 00-0011 EA 1,400 Lumens, 2' Length, Lensed LED Striplight Fixture (Lithonia ZL2)	228.81	37.50
For >50 To 100, Deduct	-7.13	
For >100 To 250, Deduct	-12.85	
For >250 To 500, Deduct	-22.88	
For >500, Deduct	-32.92	
26 51 19 00-0012 EA 2,300 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2)	241.31	45.75
For >50 To 100, Deduct	-7.75	
For >100 To 250, Deduct	-13.78	
For >250 To 500, Deduct	-24.13	
For >500, Deduct	-34.48	
26 51 19 00-0013 EA 4,600 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2)	298.32	45.75
For >50 To 100, Deduct	-9.18	
For >100 To 250, Deduct	-16.64	
For >250 To 500, Deduct	-29.83	
For >500, Deduct	-43.03	
26 51 19 00-0014 Striplight LED Fixtures (Mobern) (26 51 19 00-0007)		
26 51 19 00-0015 EA 1,100 Lumens, 12 Watt, 2' Length, Chrome, LED Bracket Fixture (Mobern 7924LED12DMV30)	193.05	37.50
For >50 To 100, Deduct	-6.23	
For >100 To 250, Deduct	-11.06	
For >250 To 500, Deduct	-19.31	
For >500, Deduct	-27.55	
26 51 19 00-0016 Striplight LED Fixtures (Eaton) (26 51 19 00-0007)		
26 51 19 00-0017 EA 2,301 Lumens, 18 Watt, 4' Length, LED Strip Lighting (Eaton Lighting 4SNLED-LD4-22SL-LC-UNV-L840-CD1-U)	244.73	45.75
For >50 To 100, Deduct	-7.84	
For >100 To 250, Deduct	-13.96	
For >250 To 500, Deduct	-24.47	
For >500, Deduct	-34.99	
26 51 19 00-0018 EA 2,382 Lumens, 16 Watt, 4' Length, LED Clear Lensed Striplight (Cooper Industries 4SNLED-LD5-22SL-LC-UNV-L840-CD1-U)	231.89	45.75
For >50 To 100, Deduct	-7.52	
For >100 To 250, Deduct	-13.31	
For >250 To 500, Deduct	-23.19	
For >500, Deduct	-33.06	
26 51 19 00-0019 EA 2,382 Lumens, 16 Watt, 4' Length, Clear Lens, LED Striplight (Cooper Industries Metalux Series 4SNLED-LD5-22SL-LC-UNV-830-CD1-U)	244.73	45.75
For >50 To 100, Deduct	-7.84	
For >100 To 250, Deduct	-13.96	
For >250 To 500, Deduct	-24.47	
For >500, Deduct	-34.99	
26 51 19 00-0020 Lay-In/Troffer LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0021 Prismatic Lensed, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)		
26 51 19 00-0022 Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0021)		
26 51 19 00-0023 EA 1' x 4', 4,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia TL4)	496.45	45.38
For Drywall Or Plaster Ceilings With Frame Kit, Add	42.01	
For >50 To 100, Deduct	-14.13	
For >100 To 250, Deduct	-26.54	
For >250 To 500, Deduct	-49.65	
For >500, Deduct	-72.75	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0024	EA		2' x 2', 3,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL2) <i>For Drywall Or Plaster Ceilings, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	315.46 33.75 -9.76 -17.65 -31.55 -45.44	50.00
26 51 19 00-0025	EA		2' x 4', 4,600 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL4) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	506.01 47.18 -14.84 -27.49 -50.60 -73.71	58.26
26 51 19 00-0026 Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lunera) (26 51 19 00-0021)					
26 51 19 00-0027	EA		1' x 4', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 14G4) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	706.84 -19.39 -37.06 -70.68 -104.31	45.38
26 51 19 00-0028	EA		2' x 2', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 22G5) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	504.20 -14.48 -27.09 -50.42 -73.75	50.00
26 51 19 00-0029	EA		2' x 4', 4,175 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 24G4) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	654.16 -18.54 -34.90 -65.42 -95.94	58.26
26 51 19 00-0030 Prismatic Lensed, Lay-In/Troffer LED Fixtures (PlanLED) (26 51 19 00-0021)					
26 51 19 00-0031	EA		2,591 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	339.14 -10.35 -18.83 -33.91 -49.00	50.00
26 51 19 00-0032	EA		3,883 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	373.22 -11.21 -20.54 -37.32 -54.11	50.00
26 51 19 00-0033	EA		3,700 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-40) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	320.39 -9.89 -17.89 -32.04 -46.18	50.00
26 51 19 00-0034	EA		4,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-45) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	320.39 -9.89 -17.89 -32.04 -46.18	50.00
26 51 19 00-0035	EA		4,600 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-50) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	342.55 -10.44 -19.00 -34.26 -49.51	50.00
26 51 19 00-0036 Volumetric, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)					
26 51 19 00-0037 Volumetric, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0036)					
26 51 19 00-0038	EA		1' x 4', 2,500 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4) <i>For Drywall Or Plaster Ceilings, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	291.18 30.94 -9.00 -16.28 -29.12 -41.96	45.38
26 51 19 00-0039	EA		2' x 2', 2,400 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	264.26 31.97 -8.48 -15.09 -26.43 -37.76	50.00
26 51 19 00-0040	EA		2' x 2', 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	334.58 35.48 -10.24 -18.60 -33.46 -48.31	50.00
26 51 19 00-0041	EA		2' x 2', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	268.49 -8.59 -15.30 -26.85 -38.40	50.00

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0042	EA		2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	295.46 36.65 -9.57 -16.96 -29.55 -42.13	58.26
26 51 19 00-0043	EA		2' x 4', 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	309.93 37.37 -9.94 -17.68 -30.99 -44.30	58.26
26 51 19 00-0044	EA		2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2VTL4) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	437.68 43.76 -13.13 -24.07 -43.77 -63.46	58.26
26 51 19 00-0045			Architectural, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>		
26 51 19 00-0046			Architectural, Lay-In/Troffer LED Fixtures (Lithonia) <small>(26 51 19 00-0045)</small> Note: Includes 4,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51 19 00-0047	EA		2,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4)..... <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	357.51 39.75 -11.13 -20.06 -35.75 -51.44	58.26
26 51 19 00-0048	EA		4,300 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4)..... <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	415.69 42.66 -12.58 -22.97 -41.57 -60.17	58.26
26 51 19 00-0049	EA		6,400 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4)..... <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	468.04 45.28 -13.89 -25.59 -46.80 -68.02	58.26
26 51 19 00-0050			Architectural, Lay-In/Troffer LED Fixtures (CREE® CR Series) <small>(26 51 19 00-0045)</small> Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0051	EA		1' x 4', 2,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	370.89 3.58 136.12 188.93 -11.46 -20.73 -37.09 -53.45	58.26
26 51 19 00-0052	EA		1' x 4', 3,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	397.76 3.58 136.12 188.93 -12.13 -22.08 -39.78 -57.48	58.26
26 51 19 00-0053	EA		1' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	397.76 3.58 136.12 188.93 -12.13 -22.08 -39.78 -57.48	58.26
26 51 19 00-0054	EA		1' x 4', 5,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	437.41 3.58 136.12 188.93 -13.12 -24.06 -43.74 -63.42	58.26



Electrical	26	
Lighting	26 50	26
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0055	EA		2' x 2', 2,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	343.19 3.58 118.51 177.47 -10.46 -19.03 -34.32 -49.60	50.00
26 51 19 00-0056	EA		2' x 2', 3,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	325.13 3.58 118.51 177.47 -10.00 -18.13 -32.51 -46.89	50.00
26 51 19 00-0057	EA		2' x 4', 2,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	385.79 3.58 138.68 205.56 -11.83 -21.48 -38.58 -55.68	58.26
26 51 19 00-0058	EA		2' x 4', 3,100 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	397.76 3.58 138.68 205.56 -12.13 -22.08 -39.78 -57.48	58.26
26 51 19 00-0059	EA		2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	397.76 3.58 138.68 205.56 -12.13 -22.08 -39.78 -57.48	58.26
26 51 19 00-0060	EA		2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24 LHE™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	498.82 3.58 138.68 205.56 -14.66 -27.13 -49.88 -72.64	58.26
26 51 19 00-0061	EA		2' x 4', 5,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	437.41 3.58 138.68 205.56 -13.12 -24.06 -43.74 -63.42	58.26
26 51 19 00-0062			Architectural, Lay-In/Troffer LED Fixtures (Metalux®) <small>(26 51 19 00-0045)</small> Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0063	EA		2' x 2', 2,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	261.40 -8.41 -14.95 -26.14 -37.33	50.00
26 51 19 00-0064	EA		2' x 4', 4,700 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	344.23 -10.79 -19.40 -34.42 -49.45	58.26
26 51 19 00-0065			Architectural, Lay-In/Troffer LED Fixtures (Finelite) <small>(26 51 19 00-0045)</small> Note: Includes 3,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.		

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0066	EA	2' x 2'	4,301 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	339.86 -10.37 -18.87 -33.99 -49.10	50.00
26 51 19 00-0067	EA	2' x 4'	4,671 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	457.03 -13.61 -25.04 -45.70 -66.37	58.76
26 51 19 00-0068			Shadow Box Style, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>		
26 51 19 00-0069			Shadow Box Style, Lay-In/Troffer LED Fixtures (Lithonia SBSL) <small>(26 51 19 00-0068)</small>		
26 51 19 00-0070	EA	2' x 2'	3,300 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL2)..... <i>For Drywall Or Plaster Ceilings, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	527.43 33.75 -15.06 -28.25 -52.74 -77.24	50.00
26 51 19 00-0071	EA	2' x 4'	4,600 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL4)..... <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	715.67 57.66 -20.08 -37.97 -71.57 -105.16	58.26
26 51 19 00-0072			Panel Type, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>		
26 51 19 00-0073			Panel Type, Lay-In/Troffer LED Fixtures (PlanLED Galaxy) <small>(26 51 19 00-0072)</small>		
26 51 19 00-0074	EA	1' x 4'	3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL140-34) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	369.70 -11.43 -20.67 -36.97 -53.27	58.26
26 51 19 00-0075	EA	2' x 2'	3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL220-34) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	383.22 -11.77 -21.35 -38.32 -55.30	58.26
26 51 19 00-0076	EA	2' x 4'	4,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-40) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	472.78 -14.01 -25.83 -47.28 -68.73	58.26
26 51 19 00-0077	EA	2' x 4'	5,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-52) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	472.78 -14.01 -25.83 -47.28 -68.73	58.26
26 51 19 00-0078			Panel Type, Lay-In/Troffer LED Fixtures (Sylvania) <small>(26 51 19 00-0072)</small>		
26 51 19 00-0079	EA	1' x 4'	3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/14G/WH)..... <i>For Surface Mounting Kit (Sylvania SMK1T1A/14A/WH), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	206.40 44.41 -7.35 -12.51 -20.64 -28.77	58.26
26 51 19 00-0080	EA	2' x 2'	3,500 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/22G/WH)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	212.19 -7.49 -12.80 -21.22 -29.64	58.26
26 51 19 00-0081	EA	2' x 4'	3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/24G/WH)..... <i>For Surface Mounting Kit (Sylvania SMK1T1A/24A/WH)</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	214.84 55.52 -7.56 -12.93 -21.48 -30.04	58.26
26 51 19 00-0082	EA	2' x 4'	3,300 Lumens, 32 Watt, 3500K CCT, LED Edge Lite Panel With Kit (Sylvania PANELF1A/032UNVD835/24G/WH_SMK1T1A/24A/WH)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	465.03 -13.81 -25.44 -46.50 -67.57	58.26
26 51 19 00-0083			Surface Mount LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0084			Surface Mount, Volumetric LED Fixtures (Lithonia STL) <small>(26 51 19 00-0083)</small>		



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0085	EA		2' Length, 2,200 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL2).....	308.81	37.50
			<i>For >50 To 100, Deduct</i>	-9.13	
			<i>For >100 To 250, Deduct</i>	-16.85	
			<i>For >250 To 500, Deduct</i>	-30.88	
			<i>For >500, Deduct</i>	-44.92	
26 51 19 00-0086	EA		4' Length, 3,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....	331.08	45.75
			<i>For >50 To 100, Deduct</i>	-10.00	
			<i>For >100 To 250, Deduct</i>	-18.27	
			<i>For >250 To 500, Deduct</i>	-33.11	
			<i>For >500, Deduct</i>	-47.94	
26 51 19 00-0087	EA		4' Length, 4,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....	315.19	45.75
			<i>For >50 To 100, Deduct</i>	-9.60	
			<i>For >100 To 250, Deduct</i>	-17.48	
			<i>For >250 To 500, Deduct</i>	-31.52	
			<i>For >500, Deduct</i>	-45.56	
26 51 19 00-0088			Surface Mount, Wraparound LED Fixtures (Lithonia LBL) <small>(26 51 19 00-0083)</small>		
26 51 19 00-0089	EA		2' Length, 2,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL2).....	235.01	37.50
			<i>For >50 To 100, Deduct</i>	-7.28	
			<i>For >100 To 250, Deduct</i>	-13.16	
			<i>For >250 To 500, Deduct</i>	-23.50	
			<i>For >500, Deduct</i>	-33.85	
26 51 19 00-0090	EA		4' Length, 4,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL4).....	307.19	45.75
			<i>For >50 To 100, Deduct</i>	-9.40	
			<i>For >100 To 250, Deduct</i>	-17.08	
			<i>For >250 To 500, Deduct</i>	-30.72	
			<i>For >500, Deduct</i>	-44.36	
26 51 19 00-0091			Surface Mount, Shadow Box Style LED Fixtures <small>(26 51 19 00-0083)</small>		
26 51 19 00-0092			Surface Mount, Shadow Box Style LED Fixtures (Lithonia SBSLX) <small>(26 51 19 00-0091)</small>		
26 51 19 00-0093	EA		2' x 2', 3,300 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX2)	671.06	50.00
			<i>For >50 To 100, Deduct</i>	-18.65	
			<i>For >100 To 250, Deduct</i>	-35.43	
			<i>For >250 To 500, Deduct</i>	-67.11	
			<i>For >500, Deduct</i>	-98.78	
26 51 19 00-0094	EA		2' x 4', 4,600 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX4)	859.30	58.26
			<i>For >50 To 100, Deduct</i>	-23.67	
			<i>For >100 To 250, Deduct</i>	-45.15	
			<i>For >250 To 500, Deduct</i>	-85.93	
			<i>For >500, Deduct</i>	-126.71	
26 51 19 00-0095			Surface Mount, Low Profile Fixtures <small>(26 51 19 00-0083)</small>		
26 51 19 00-0096	EA		6" Diameter, 993 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8538-90)	105.21	34.26
			<i>For >50 To 100, Deduct</i>	-4.34	
			<i>For >100 To 250, Deduct</i>	-6.97	
			<i>For >250 To 500, Deduct</i>	-10.52	
			<i>For >500, Deduct</i>	-14.07	
26 51 19 00-0097	EA		6" Diameter, 1,215 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8569).....	89.28	34.26
			<i>For >50 To 100, Deduct</i>	-3.94	
			<i>For >100 To 250, Deduct</i>	-6.18	
			<i>For >250 To 500, Deduct</i>	-8.93	
			<i>For >500, Deduct</i>	-11.68	
26 51 19 00-0098	EA		13" Diameter, 1,400 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 4329).....	138.67	34.26
			<i>For >50 To 100, Deduct</i>	-5.18	
			<i>For >100 To 250, Deduct</i>	-8.65	
			<i>For >250 To 500, Deduct</i>	-13.87	
			<i>For >500, Deduct</i>	-19.09	
26 51 19 00-0099	EA		15" Diameter, 2,100 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting 4330).....	164.16	34.26
			<i>For >50 To 100, Deduct</i>	-5.82	
			<i>For >100 To 250, Deduct</i>	-9.92	
			<i>For >250 To 500, Deduct</i>	-16.42	
			<i>For >500, Deduct</i>	-22.91	
26 51 19 00-0100			Recessed LED Downlights <small>(26 51 19 00-0001)</small>		
26 51 19 00-0101			Recessed LED Downlights <small>(26 51 19 00-0100)</small>		
26 51 19 00-0102			Recessed LED Downlights (Lithonia) <small>(26 51 19 00-0101)</small>		
			Note: Includes housing and trim.		
26 51 19 00-0103	EA		8" Diameter, 1,200 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....	357.98	60.21
			<i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i>	73.00	
			<i>For >50 To 100, Deduct</i>	-11.21	
			<i>For >100 To 250, Deduct</i>	-20.16	
			<i>For >250 To 500, Deduct</i>	-35.80	
			<i>For >500, Deduct</i>	-51.44	
26 51 19 00-0104	EA		8" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....	387.07	60.21
			<i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i>	73.00	
			<i>For >50 To 100, Deduct</i>	-11.93	
			<i>For >100 To 250, Deduct</i>	-21.61	
			<i>For >250 To 500, Deduct</i>	-38.71	
			<i>For >500, Deduct</i>	-55.80	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0105			Recessed LED Downlights (Portfolio®) (26 51 19 00-0101) Note: Includes housing and trim.		
26 51 19 00-0106	EA		4" Diameter, 1,300 Lumens, Recessed LED Downlight With Open Trim (Portfolio® LD413)	234.26	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.97	
			For >250 To 500, Deduct	-23.43	
			For >500, Deduct	-32.88	
26 51 19 00-0107			Recessed LED Downlights (Gotham® EVO®) (26 51 19 00-0101) Note: Includes housing and trim.		
26 51 19 00-0108	EA		6" Diameter, 1,800 Lumens, Recessed LED Downlight With Open Trim (Gotham® EVO® ALED).....	285.32	60.21
			For >50 To 100, Deduct	-9.39	
			For >100 To 250, Deduct	-16.52	
			For >250 To 500, Deduct	-28.53	
			For >500, Deduct	-40.54	
26 51 19 00-0109	EA		6" Diameter, 1,800 Lumens, Recessed LED Shower Downlight With Non-Conductive Regressed Lens (Gotham® EVO® ALED).....	293.74	60.21
			For >50 To 100, Deduct	-9.60	
			For >100 To 250, Deduct	-16.94	
			For >250 To 500, Deduct	-29.37	
			For >500, Deduct	-41.80	
26 51 19 00-0110	EA		6" Diameter, 1,800 Lumens, Recessed LED Wallwash Downlight With Specular Reflector Trim (Gotham® EVO® DLWLED)	328.27	60.21
			For >50 To 100, Deduct	-10.46	
			For >100 To 250, Deduct	-18.67	
			For >250 To 500, Deduct	-32.83	
			For >500, Deduct	-46.98	
26 51 19 00-0111	EA		6" Diameter, 1,800 Lumens, Decorative Recessed LED Downlight With Glass Drop Luminous Ring (Gotham® EVO® ALED).....	331.64	60.21
			For >50 To 100, Deduct	-10.55	
			For >100 To 250, Deduct	-18.84	
			For >250 To 500, Deduct	-33.16	
			For >500, Deduct	-47.49	
26 51 19 00-0112	EA		6" Diameter, 1,800 Lumens, Vandal Resistant, Recessed LED Downlight With Tempered Prismatic Lens (Gotham® EVO® VRALED)	361.11	60.21
			For >50 To 100, Deduct	-11.29	
			For >100 To 250, Deduct	-20.31	
			For >250 To 500, Deduct	-36.11	
			For >500, Deduct	-51.91	
26 51 19 00-0113			Recessed LED Downlights (Lightolier) (26 51 19 00-0101) Note: Includes housing and trim.		
26 51 19 00-0114	EA		4" Diameter, 500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L05DL).....	511.10	60.21
			For >50 To 100, Deduct	-15.04	
			For >100 To 250, Deduct	-27.81	
			For >250 To 500, Deduct	-51.11	
			For >500, Deduct	-74.41	
26 51 19 00-0115	EA		4" Diameter, 1,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L10DL).....	595.47	60.21
			For >50 To 100, Deduct	-17.14	
			For >100 To 250, Deduct	-32.03	
			For >250 To 500, Deduct	-59.55	
			For >500, Deduct	-87.06	
26 51 19 00-0116	EA		6" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....	637.57	60.21
			For >50 To 100, Deduct	-18.20	
			For >100 To 250, Deduct	-34.14	
			For >250 To 500, Deduct	-63.76	
			For >500, Deduct	-93.38	
26 51 19 00-0117	EA		6" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....	637.57	60.21
			For >50 To 100, Deduct	-18.20	
			For >100 To 250, Deduct	-34.14	
			For >250 To 500, Deduct	-63.76	
			For >500, Deduct	-93.38	
26 51 19 00-0118	EA		7" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....	658.71	60.21
			For >50 To 100, Deduct	-18.73	
			For >100 To 250, Deduct	-35.19	
			For >250 To 500, Deduct	-65.87	
			For >500, Deduct	-96.55	
26 51 19 00-0119	EA		7" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....	679.86	60.21
			For >50 To 100, Deduct	-19.25	
			For >100 To 250, Deduct	-36.25	
			For >250 To 500, Deduct	-67.99	
			For >500, Deduct	-99.72	
26 51 19 00-0120			Recessed LED Downlights (Cooper) (26 51 19 00-0101)		
26 51 19 00-0121	EA		600 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5606827).....	185.00	60.21
			For >50 To 100, Deduct	-6.88	
			For >100 To 250, Deduct	-11.51	
			For >250 To 500, Deduct	-18.50	
			For >500, Deduct	-25.49	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0122	EA	600 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5606830)	185.00	60.21
			For >50 To 100, Deduct	-6.88	
			For >100 To 250, Deduct	-11.51	
			For >250 To 500, Deduct	-18.50	
			For >500, Deduct	-25.49	
26 51	19 00-0123	EA	600 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5606835)	185.00	60.21
			For >50 To 100, Deduct	-6.88	
			For >100 To 250, Deduct	-11.51	
			For >250 To 500, Deduct	-18.50	
			For >500, Deduct	-25.49	
26 51	19 00-0124	EA	600 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5606840)	185.00	60.21
			For >50 To 100, Deduct	-6.88	
			For >100 To 250, Deduct	-11.51	
			For >250 To 500, Deduct	-18.50	
			For >500, Deduct	-25.49	
26 51	19 00-0125	EA	900 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5609827)	188.52	60.21
			For >50 To 100, Deduct	-6.97	
			For >100 To 250, Deduct	-11.68	
			For >250 To 500, Deduct	-18.85	
			For >500, Deduct	-26.02	
26 51	19 00-0126	EA	900 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5609830)	188.52	60.21
			For >50 To 100, Deduct	-6.97	
			For >100 To 250, Deduct	-11.68	
			For >250 To 500, Deduct	-18.85	
			For >500, Deduct	-26.02	
26 51	19 00-0127	EA	900 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5609835)	188.52	60.21
			For >50 To 100, Deduct	-6.97	
			For >100 To 250, Deduct	-11.68	
			For >250 To 500, Deduct	-18.85	
			For >500, Deduct	-26.02	
26 51	19 00-0128	EA	900 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5609840)	188.52	60.21
			For >50 To 100, Deduct	-6.97	
			For >100 To 250, Deduct	-11.68	
			For >250 To 500, Deduct	-18.85	
			For >500, Deduct	-26.02	
26 51	19 00-0129	EA	1,200 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5612827)	236.33	60.21
			For >50 To 100, Deduct	-8.17	
			For >100 To 250, Deduct	-14.07	
			For >250 To 500, Deduct	-23.63	
			For >500, Deduct	-33.19	
26 51	19 00-0130	EA	1,200 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5612830)	233.91	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.95	
			For >250 To 500, Deduct	-23.39	
			For >500, Deduct	-32.83	
26 51	19 00-0131	EA	1,200 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5612835)	233.91	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.95	
			For >250 To 500, Deduct	-23.39	
			For >500, Deduct	-32.83	
26 51	19 00-0132	EA	1,200 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5612840)	233.91	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.95	
			For >250 To 500, Deduct	-23.39	
			For >500, Deduct	-32.83	
26 51	19 00-0133	EA	5" LED Trim, Polymer "Dead-Front", Shallow White Baffle And Flange (Cooper Halo 591WB)	113.81	19.16
			For >50 To 100, Deduct	-3.56	
			For >100 To 250, Deduct	-6.41	
			For >250 To 500, Deduct	-11.38	
			For >500, Deduct	-16.35	
26 51	19 00-0134	EA	5" LED Trim, Specular Reflector And White Flange (Cooper Halo 592SC)	70.06	19.16
			For >50 To 100, Deduct	-2.47	
			For >100 To 250, Deduct	-4.22	
			For >250 To 500, Deduct	-7.01	
			For >500, Deduct	-9.79	
26 51	19 00-0135	EA	5" LED Trim, Haze Reflector And White Flange (Cooper Halo 592H)	88.89	19.16
			For >50 To 100, Deduct	-2.94	
			For >100 To 250, Deduct	-5.16	
			For >250 To 500, Deduct	-8.89	
			For >500, Deduct	-12.62	
26 51	19 00-0136	EA	5" LED Trim, White Reflector And Flange (Cooper Halo 592W)	73.84	19.16
			For >50 To 100, Deduct	-2.56	
			For >100 To 250, Deduct	-4.41	
			For >250 To 500, Deduct	-7.38	
			For >500, Deduct	-10.36	
26 51	19 00-0137	EA	5" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 593WB)	58.46	19.16
			For >50 To 100, Deduct	-2.18	
			For >100 To 250, Deduct	-3.64	
			For >250 To 500, Deduct	-5.85	
			For >500, Deduct	-8.05	
26 51	19 00-0138	EA	5" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 593BB)	73.17	19.16
			For >50 To 100, Deduct	-2.55	
			For >100 To 250, Deduct	-4.38	
			For >250 To 500, Deduct	-7.32	
			For >500, Deduct	-10.26	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0139	EA	5" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 593SNB)	82.13	19.16
			<i>For >50 To 100, Deduct</i>	-2.77	
			<i>For >100 To 250, Deduct</i>	-4.83	
			<i>For >250 To 500, Deduct</i>	-8.21	
			<i>For >500, Deduct</i>	-11.60	
26 51	19 00-0140	EA	5" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 593TBZB)	90.11	19.16
			<i>For >50 To 100, Deduct</i>	-2.97	
			<i>For >100 To 250, Deduct</i>	-5.22	
			<i>For >250 To 500, Deduct</i>	-9.01	
			<i>For >500, Deduct</i>	-12.80	
26 51	19 00-0141	EA	5" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 594WB).....	105.70	19.16
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100 To 250, Deduct</i>	-6.00	
			<i>For >250 To 500, Deduct</i>	-10.57	
			<i>For >500, Deduct</i>	-15.14	
26 51	19 00-0142	EA	5" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 594SNB)	106.21	19.16
			<i>For >50 To 100, Deduct</i>	-3.37	
			<i>For >100 To 250, Deduct</i>	-6.03	
			<i>For >250 To 500, Deduct</i>	-10.62	
			<i>For >500, Deduct</i>	-15.21	
26 51	19 00-0143	EA	5" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 594TBZB)	103.97	19.16
			<i>For >50 To 100, Deduct</i>	-3.32	
			<i>For >100 To 250, Deduct</i>	-5.92	
			<i>For >250 To 500, Deduct</i>	-10.40	
			<i>For >500, Deduct</i>	-14.88	
26 51	19 00-0144	EA	5" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 595VW).....	129.55	19.16
			<i>For >50 To 100, Deduct</i>	-3.96	
			<i>For >100 To 250, Deduct</i>	-7.20	
			<i>For >250 To 500, Deduct</i>	-12.96	
			<i>For >500, Deduct</i>	-18.71	
26 51	19 00-0145	EA	5" LED Trim, White Shallow Baffle And Flange (Cooper Halo 596WB)	59.00	19.16
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100 To 250, Deduct</i>	-3.67	
			<i>For >250 To 500, Deduct</i>	-5.90	
			<i>For >500, Deduct</i>	-8.13	
26 51	19 00-0146	EA	6" LED Trim, Polymer "Dead-Front", White Shallow Baffle And Flange (Cooper Halo 691WB).....	110.07	19.16
			<i>For >50 To 100, Deduct</i>	-3.47	
			<i>For >100 To 250, Deduct</i>	-6.22	
			<i>For >250 To 500, Deduct</i>	-11.01	
			<i>For >500, Deduct</i>	-15.79	
26 51	19 00-0147	EA	6" LED Trim, Specular Reflector And White Flange (Cooper Halo 692SC)	92.85	19.16
			<i>For >50 To 100, Deduct</i>	-3.04	
			<i>For >100 To 250, Deduct</i>	-5.36	
			<i>For >250 To 500, Deduct</i>	-9.29	
			<i>For >500, Deduct</i>	-13.21	
26 51	19 00-0148	EA	6" LED Trim, Haze Reflector And White Flange (Cooper Halo 692H)	86.81	19.16
			<i>For >50 To 100, Deduct</i>	-2.89	
			<i>For >100 To 250, Deduct</i>	-5.06	
			<i>For >250 To 500, Deduct</i>	-8.68	
			<i>For >500, Deduct</i>	-12.30	
26 51	19 00-0149	EA	6" LED Trim, White Reflector And Flange (Cooper Halo 692W)	76.85	19.16
			<i>For >50 To 100, Deduct</i>	-2.64	
			<i>For >100 To 250, Deduct</i>	-4.56	
			<i>For >250 To 500, Deduct</i>	-7.69	
			<i>For >500, Deduct</i>	-10.81	
26 51	19 00-0150	EA	6" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 693WB).....	77.57	19.16
			<i>For >50 To 100, Deduct</i>	-2.66	
			<i>For >100 To 250, Deduct</i>	-4.60	
			<i>For >250 To 500, Deduct</i>	-7.76	
			<i>For >500, Deduct</i>	-10.92	
26 51	19 00-0151	EA	6" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 693BB).....	83.96	19.16
			<i>For >50 To 100, Deduct</i>	-2.82	
			<i>For >100 To 250, Deduct</i>	-4.92	
			<i>For >250 To 500, Deduct</i>	-8.40	
			<i>For >500, Deduct</i>	-11.88	
26 51	19 00-0152	EA	6" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 693SNB)	76.46	19.16
			<i>For >50 To 100, Deduct</i>	-2.63	
			<i>For >100 To 250, Deduct</i>	-4.54	
			<i>For >250 To 500, Deduct</i>	-7.65	
			<i>For >500, Deduct</i>	-10.75	
26 51	19 00-0153	EA	6" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 693TBZB)	96.84	19.16
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-9.68	
			<i>For >500, Deduct</i>	-13.81	
26 51	19 00-0154	EA	6" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 694WB).....	105.44	19.16
			<i>For >50 To 100, Deduct</i>	-3.35	
			<i>For >100 To 250, Deduct</i>	-5.99	
			<i>For >250 To 500, Deduct</i>	-10.54	
			<i>For >500, Deduct</i>	-15.10	
26 51	19 00-0155	EA	6" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 694SNB)	134.03	19.16
			<i>For >50 To 100, Deduct</i>	-4.07	
			<i>For >100 To 250, Deduct</i>	-7.42	
			<i>For >250 To 500, Deduct</i>	-13.40	
			<i>For >500, Deduct</i>	-19.39	



	Electrical	26
	Lighting	26 50
	Interior Lighting	26 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0156	EA	6" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 694TBZB)	130.44	19.16
			<i>For >50 To 100, Deduct</i>	-3.98	
			<i>For >100 To 250, Deduct</i>	-7.24	
			<i>For >250 To 500, Deduct</i>	-13.04	
			<i>For >500, Deduct</i>	-18.85	
26 51	19 00-0157	EA	6" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 695WW).....	132.02	19.16
			<i>For >50 To 100, Deduct</i>	-4.02	
			<i>For >100 To 250, Deduct</i>	-7.32	
			<i>For >250 To 500, Deduct</i>	-13.20	
			<i>For >500, Deduct</i>	-19.08	
26 51	19 00-0158	EA	6" LED Trim, White Shallow Baffle And Flange (Cooper Halo 696WB)	78.43	19.16
			<i>For >50 To 100, Deduct</i>	-2.68	
			<i>For >100 To 250, Deduct</i>	-4.64	
			<i>For >250 To 500, Deduct</i>	-7.84	
			<i>For >500, Deduct</i>	-11.05	
26 51	19 00-0159	EA	6" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H750ICAT)	69.26	41.05
			<i>For >50 To 100, Deduct</i>	-3.27	
			<i>For >100 To 250, Deduct</i>	-5.00	
			<i>For >250 To 500, Deduct</i>	-6.93	
			<i>For >500, Deduct</i>	-8.85	
26 51	19 00-0160	EA	6" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H750RICAT)	76.26	41.05
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100 To 250, Deduct</i>	-5.35	
			<i>For >250 To 500, Deduct</i>	-7.63	
			<i>For >500, Deduct</i>	-9.90	
26 51	19 00-0161	EA	6" LED, Non-IC, Air-Tite, New Construction Housing (Cooper Halo H750T)	73.45	41.05
			<i>For >50 To 100, Deduct</i>	-3.38	
			<i>For >100 To 250, Deduct</i>	-5.21	
			<i>For >250 To 500, Deduct</i>	-7.35	
			<i>For >500, Deduct</i>	-9.48	
26 51	19 00-0162	EA	6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing (Cooper Halo H750TCP)	101.04	41.05
			<i>For >50 To 100, Deduct</i>	-4.07	
			<i>For >100 To 250, Deduct</i>	-6.59	
			<i>For >250 To 500, Deduct</i>	-10.10	
			<i>For >500, Deduct</i>	-13.62	
26 51	19 00-0163	EA	6" LED, Shallow, Insulated Ceiling, Air-Tite, New Constr. (Cooper Halo H2750ICAT).....	97.80	41.05
			<i>For >50 To 100, Deduct</i>	-3.98	
			<i>For >100 To 250, Deduct</i>	-6.43	
			<i>For >250 To 500, Deduct</i>	-9.78	
			<i>For >500, Deduct</i>	-13.13	
26 51	19 00-0164	EA	6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H7ICAT).....	77.21	41.05
			<i>For >50 To 100, Deduct</i>	-3.47	
			<i>For >100 To 250, Deduct</i>	-5.40	
			<i>For >250 To 500, Deduct</i>	-7.72	
			<i>For >500, Deduct</i>	-10.04	
26 51	19 00-0165	EA	6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H7RICAT).....	81.92	41.05
			<i>For >50 To 100, Deduct</i>	-3.59	
			<i>For >100 To 250, Deduct</i>	-5.64	
			<i>For >250 To 500, Deduct</i>	-8.19	
			<i>For >500, Deduct</i>	-10.75	
26 51	19 00-0166	EA	6" Insulated Ceiling, New Construction Housing (Cooper Halo H7ICT).....	76.22	41.05
			<i>For >50 To 100, Deduct</i>	-3.44	
			<i>For >100 To 250, Deduct</i>	-5.35	
			<i>For >250 To 500, Deduct</i>	-7.62	
			<i>For >500, Deduct</i>	-9.89	
26 51	19 00-0167	EA	6" Insulated Ceiling, Remodel Housing (Cooper Halo H7RICT).....	81.39	41.05
			<i>For >50 To 100, Deduct</i>	-3.57	
			<i>For >100 To 250, Deduct</i>	-5.61	
			<i>For >250 To 500, Deduct</i>	-8.14	
			<i>For >500, Deduct</i>	-10.67	
26 51	19 00-0168	EA	6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo H7ICATNB)	77.09	41.05
			<i>For >50 To 100, Deduct</i>	-3.47	
			<i>For >100 To 250, Deduct</i>	-5.39	
			<i>For >250 To 500, Deduct</i>	-7.71	
			<i>For >500, Deduct</i>	-10.02	
26 51	19 00-0169	EA	6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo H7ICTNB)	76.60	41.05
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100 To 250, Deduct</i>	-5.37	
			<i>For >250 To 500, Deduct</i>	-7.66	
			<i>For >500, Deduct</i>	-9.95	
26 51	19 00-0170	EA	6" Non-IC, New Construction Housing (Cooper Halo H7T)	80.33	41.05
			<i>For >50 To 100, Deduct</i>	-3.55	
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-8.03	
			<i>For >500, Deduct</i>	-10.51	
26 51	19 00-0171	EA	6" Non-IC, Remodel Housing (Cooper Halo H7RT).....	82.35	41.05
			<i>For >50 To 100, Deduct</i>	-3.60	
			<i>For >100 To 250, Deduct</i>	-5.66	
			<i>For >250 To 500, Deduct</i>	-8.24	
			<i>For >500, Deduct</i>	-10.81	
26 51	19 00-0172	EA	6" Non-IC, New Construction Housing, No Socket Bracket (Cooper Halo H7TNB).....	82.99	41.05
			<i>For >50 To 100, Deduct</i>	-3.61	
			<i>For >100 To 250, Deduct</i>	-5.69	
			<i>For >250 To 500, Deduct</i>	-8.30	
			<i>For >500, Deduct</i>	-10.91	

26	26	Electrical
	26 50	Lighting
	26 51	Interior Lighting



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0173	EA 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing (Cooper Halo H7TCP).....	114.24	41.05
	<i>For >50 To 100, Deduct</i>	-4.40	
	<i>For >100 To 250, Deduct</i>	-7.25	
	<i>For >250 To 500, Deduct</i>	-11.42	
	<i>For >500, Deduct</i>	-15.60	
26 51 19 00-0174	EA 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo H7UICT)	106.39	41.05
	<i>For >50 To 100, Deduct</i>	-4.20	
	<i>For >100 To 250, Deduct</i>	-6.86	
	<i>For >250 To 500, Deduct</i>	-10.64	
	<i>For >500, Deduct</i>	-14.42	
26 51 19 00-0175	EA 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo H7UICAT)	107.30	41.05
	<i>For >50 To 100, Deduct</i>	-4.22	
	<i>For >100 To 250, Deduct</i>	-6.90	
	<i>For >250 To 500, Deduct</i>	-10.73	
	<i>For >500, Deduct</i>	-14.56	
26 51 19 00-0176	EA 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI700AT).....	112.55	41.05
	<i>For >50 To 100, Deduct</i>	-4.35	
	<i>For >100 To 250, Deduct</i>	-7.17	
	<i>For >250 To 500, Deduct</i>	-11.26	
	<i>For >500, Deduct</i>	-15.34	
26 51 19 00-0177	EA 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI700RAT).....	112.55	41.05
	<i>For >50 To 100, Deduct</i>	-4.35	
	<i>For >100 To 250, Deduct</i>	-7.17	
	<i>For >250 To 500, Deduct</i>	-11.26	
	<i>For >500, Deduct</i>	-15.34	
26 51 19 00-0178	EA 6" Insulated Ceiling, New Construction Housing (Cooper Halo EI700).....	112.55	41.05
	<i>For >50 To 100, Deduct</i>	-4.35	
	<i>For >100 To 250, Deduct</i>	-7.17	
	<i>For >250 To 500, Deduct</i>	-11.26	
	<i>For >500, Deduct</i>	-15.34	
26 51 19 00-0179	EA 6" Insulated Ceiling, Remodel Housing (Cooper Halo EI700R)	112.55	41.05
	<i>For >50 To 100, Deduct</i>	-4.35	
	<i>For >100 To 250, Deduct</i>	-7.17	
	<i>For >250 To 500, Deduct</i>	-11.26	
	<i>For >500, Deduct</i>	-15.34	
26 51 19 00-0180	EA 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo EI700ATNB)	112.55	41.05
	<i>For >50 To 100, Deduct</i>	-4.35	
	<i>For >100 To 250, Deduct</i>	-7.17	
	<i>For >250 To 500, Deduct</i>	-11.26	
	<i>For >500, Deduct</i>	-15.34	
26 51 19 00-0181	EA 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo EI700NB)	98.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.01	
	<i>For >100 To 250, Deduct</i>	-6.48	
	<i>For >250 To 500, Deduct</i>	-9.88	
	<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0182	EA 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo EI700U)	98.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.01	
	<i>For >100 To 250, Deduct</i>	-6.48	
	<i>For >250 To 500, Deduct</i>	-9.88	
	<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0183	EA 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo EI700UAT)	98.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.01	
	<i>For >100 To 250, Deduct</i>	-6.48	
	<i>For >250 To 500, Deduct</i>	-9.88	
	<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0184	EA 6" Non-IC, New Construction Housing (Cooper Halo ET700).....	98.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.01	
	<i>For >100 To 250, Deduct</i>	-6.48	
	<i>For >250 To 500, Deduct</i>	-9.88	
	<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0185	EA 6" Non-IC, Remodel Housing (Cooper Halo ET700R).....	98.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.01	
	<i>For >100 To 250, Deduct</i>	-6.48	
	<i>For >250 To 500, Deduct</i>	-9.88	
	<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0186	EA 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H27ICAT).....	99.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.04	
	<i>For >100 To 250, Deduct</i>	-6.53	
	<i>For >250 To 500, Deduct</i>	-9.98	
	<i>For >500, Deduct</i>	-13.44	
26 51 19 00-0187	EA 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H27RICAT).....	115.24	41.05
	<i>For >50 To 100, Deduct</i>	-4.42	
	<i>For >100 To 250, Deduct</i>	-7.30	
	<i>For >250 To 500, Deduct</i>	-11.52	
	<i>For >500, Deduct</i>	-15.75	
26 51 19 00-0188	EA 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo H27ICT)	99.83	41.05
	<i>For >50 To 100, Deduct</i>	-4.04	
	<i>For >100 To 250, Deduct</i>	-6.53	
	<i>For >250 To 500, Deduct</i>	-9.98	
	<i>For >500, Deduct</i>	-13.44	
26 51 19 00-0189	EA 6" Shallow, Insulated Ceiling, Remodel Housing (Cooper Halo H27RICT).....	110.89	41.05
	<i>For >50 To 100, Deduct</i>	-4.31	
	<i>For >100 To 250, Deduct</i>	-7.08	
	<i>For >250 To 500, Deduct</i>	-11.09	
	<i>For >500, Deduct</i>	-15.09	



	Electrical	26	
	Lighting	26 50	26
	Interior Lighting	26 51	

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00	-0190	EA 6" Shallow, Non-IC, New Construction Housing (Cooper Halo H27T).....	93.59	41.05
			For >50 To 100, Deduct	-3.88	
			For >100 To 250, Deduct	-6.22	
			For >250 To 500, Deduct	-9.36	
			For >500, Deduct	-12.50	
26 51	19 00	-0191	EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo H27RT).....	95.11	41.05
			For >50 To 100, Deduct	-3.92	
			For >100 To 250, Deduct	-6.29	
			For >250 To 500, Deduct	-9.51	
			For >500, Deduct	-12.73	
26 51	19 00	-0192	EA 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo EI2700AT).....	105.88	41.05
			For >50 To 100, Deduct	-4.19	
			For >100 To 250, Deduct	-6.83	
			For >250 To 500, Deduct	-10.59	
			For >500, Deduct	-14.34	
26 51	19 00	-0193	EA 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo EI2700).....	105.88	41.05
			For >50 To 100, Deduct	-4.19	
			For >100 To 250, Deduct	-6.83	
			For >250 To 500, Deduct	-10.59	
			For >500, Deduct	-14.34	
26 51	19 00	-0194	EA 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI2700R).....	105.88	41.05
			For >50 To 100, Deduct	-4.19	
			For >100 To 250, Deduct	-6.83	
			For >250 To 500, Deduct	-10.59	
			For >500, Deduct	-14.34	
26 51	19 00	-0195	EA 6" Shallow, Non-IC, New Construction Housing (Cooper Halo ET2700).....	105.88	41.05
			For >50 To 100, Deduct	-4.19	
			For >100 To 250, Deduct	-6.83	
			For >250 To 500, Deduct	-10.59	
			For >500, Deduct	-14.34	
26 51	19 00	-0196	EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo ET2700R).....	105.88	41.05
			For >50 To 100, Deduct	-4.19	
			For >100 To 250, Deduct	-6.83	
			For >250 To 500, Deduct	-10.59	
			For >500, Deduct	-14.34	
26 51	19 00	-0197	EA 6" Retrofit Enclosure, Non-IC, BX Whip (Cooper Halo ML7BXRFK).....	89.80	19.16
			For >50 To 100, Deduct	-2.96	
			For >100 To 250, Deduct	-5.21	
			For >250 To 500, Deduct	-8.98	
			For >500, Deduct	-12.75	
26 51	19 00	-0198	EA 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface (Cooper Halo ML7E26RFK).....	92.93	19.16
			For >50 To 100, Deduct	-3.04	
			For >100 To 250, Deduct	-5.37	
			For >250 To 500, Deduct	-9.29	
			For >500, Deduct	-13.22	
26 51	19 00	-0199	EA 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H550ICAT).....	86.78	41.05
			For >50 To 100, Deduct	-3.71	
			For >100 To 250, Deduct	-5.88	
			For >250 To 500, Deduct	-8.68	
			For >500, Deduct	-11.48	
26 51	19 00	-0200	EA 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H550RICAT).....	87.15	41.05
			For >50 To 100, Deduct	-3.72	
			For >100 To 250, Deduct	-5.90	
			For >250 To 500, Deduct	-8.72	
			For >500, Deduct	-11.53	
26 51	19 00	-0201	EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H5ICAT).....	80.65	41.05
			For >50 To 100, Deduct	-3.56	
			For >100 To 250, Deduct	-5.57	
			For >250 To 500, Deduct	-8.07	
			For >500, Deduct	-10.56	
26 51	19 00	-0202	EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H5RICAT).....	83.85	41.05
			For >50 To 100, Deduct	-3.64	
			For >100 To 250, Deduct	-5.73	
			For >250 To 500, Deduct	-8.39	
			For >500, Deduct	-11.04	
26 51	19 00	-0203	EA 5" Non-IC, New Construction Housing (Cooper Halo H5T).....	82.80	41.05
			For >50 To 100, Deduct	-3.61	
			For >100 To 250, Deduct	-5.68	
			For >250 To 500, Deduct	-8.28	
			For >500, Deduct	-10.88	
26 51	19 00	-0204	EA 5" Non-IC, Remodel Housing (Cooper Halo H5RT).....	83.77	41.05
			For >50 To 100, Deduct	-3.63	
			For >100 To 250, Deduct	-5.73	
			For >250 To 500, Deduct	-8.38	
			For >500, Deduct	-11.03	
26 51	19 00	-0205	EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI500AT).....	97.47	41.05
			For >50 To 100, Deduct	-3.98	
			For >100 To 250, Deduct	-6.41	
			For >250 To 500, Deduct	-9.75	
			For >500, Deduct	-13.08	
26 51	19 00	-0206	EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI500RAT).....	98.21	41.05
			For >50 To 100, Deduct	-3.99	
			For >100 To 250, Deduct	-6.45	
			For >250 To 500, Deduct	-9.82	
			For >500, Deduct	-13.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0207	EA	5" Non-IC, New Construction Housing (Cooper Halo ET500).....	101.88	41.05
			<i>For >50 To 100, Deduct</i>	-4.09	
			<i>For >100 To 250, Deduct</i>	-6.63	
			<i>For >250 To 500, Deduct</i>	-10.19	
			<i>For >500, Deduct</i>	-13.74	
26 51	19 00-0208	EA	5" Non-IC, Remodel Housing (Cooper Halo ET500R).....	104.47	41.05
			<i>For >50 To 100, Deduct</i>	-4.15	
			<i>For >100 To 250, Deduct</i>	-6.76	
			<i>For >250 To 500, Deduct</i>	-10.45	
			<i>For >500, Deduct</i>	-14.13	
26 51	19 00-0209	EA	5" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H25ICAT).....	115.80	41.05
			<i>For >50 To 100, Deduct</i>	-4.43	
			<i>For >100 To 250, Deduct</i>	-7.33	
			<i>For >250 To 500, Deduct</i>	-11.58	
			<i>For >500, Deduct</i>	-15.83	
26 51	19 00-0210		Recessed LED Downlights (Maxlite DLR) <small>(26 51 19 00-0101)</small>		
26 51	19 00-0211	EA	4" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR410).....	167.13	60.21
			<i>For >50 To 100, Deduct</i>	-6.44	
			<i>For >100 To 250, Deduct</i>	-10.61	
			<i>For >250 To 500, Deduct</i>	-16.71	
			<i>For >500, Deduct</i>	-22.81	
26 51	19 00-0212	EA	4" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR415).....	169.10	60.21
			<i>For >50 To 100, Deduct</i>	-6.49	
			<i>For >100 To 250, Deduct</i>	-10.71	
			<i>For >250 To 500, Deduct</i>	-16.91	
			<i>For >500, Deduct</i>	-23.11	
26 51	19 00-0213	EA	4" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR420).....	175.01	60.21
			<i>For >50 To 100, Deduct</i>	-6.63	
			<i>For >100 To 250, Deduct</i>	-11.01	
			<i>For >250 To 500, Deduct</i>	-17.50	
			<i>For >500, Deduct</i>	-23.99	
26 51	19 00-0214	EA	6" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR615).....	163.18	60.21
			<i>For >50 To 100, Deduct</i>	-6.34	
			<i>For >100 To 250, Deduct</i>	-10.42	
			<i>For >250 To 500, Deduct</i>	-16.32	
			<i>For >500, Deduct</i>	-22.22	
26 51	19 00-0215	EA	6" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR620).....	163.18	60.21
			<i>For >50 To 100, Deduct</i>	-6.34	
			<i>For >100 To 250, Deduct</i>	-10.42	
			<i>For >250 To 500, Deduct</i>	-16.32	
			<i>For >500, Deduct</i>	-22.22	
26 51	19 00-0216	EA	6" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR630).....	163.18	60.21
			<i>For >50 To 100, Deduct</i>	-6.34	
			<i>For >100 To 250, Deduct</i>	-10.42	
			<i>For >250 To 500, Deduct</i>	-16.32	
			<i>For >500, Deduct</i>	-22.22	
26 51	19 00-0217	EA	8" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR810).....	175.01	60.21
			<i>For >50 To 100, Deduct</i>	-6.63	
			<i>For >100 To 250, Deduct</i>	-11.01	
			<i>For >250 To 500, Deduct</i>	-17.50	
			<i>For >500, Deduct</i>	-23.99	
26 51	19 00-0218	EA	8" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR815).....	176.98	60.21
			<i>For >50 To 100, Deduct</i>	-6.68	
			<i>For >100 To 250, Deduct</i>	-11.11	
			<i>For >250 To 500, Deduct</i>	-17.70	
			<i>For >500, Deduct</i>	-24.29	
26 51	19 00-0219	EA	8" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR820).....	180.91	60.21
			<i>For >50 To 100, Deduct</i>	-6.78	
			<i>For >100 To 250, Deduct</i>	-11.30	
			<i>For >250 To 500, Deduct</i>	-18.09	
			<i>For >500, Deduct</i>	-24.88	
26 51	19 00-0220	EA	8" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR830).....	192.73	60.21
			<i>For >50 To 100, Deduct</i>	-7.08	
			<i>For >100 To 250, Deduct</i>	-11.89	
			<i>For >250 To 500, Deduct</i>	-19.27	
			<i>For >500, Deduct</i>	-26.65	
26 51	19 00-0221	EA	8" Diameter, 5,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR850).....	208.49	60.21
			<i>For >50 To 100, Deduct</i>	-7.47	
			<i>For >100 To 250, Deduct</i>	-12.68	
			<i>For >250 To 500, Deduct</i>	-20.85	
			<i>For >500, Deduct</i>	-29.02	
26 51	19 00-0222		Recessed LED Downlight Retrofits And Trim (CREE®) <small>(26 51 19 00-0100)</small>		
26 51	19 00-0223		Recessed LED Downlight Retrofits (CREE®) <small>(26 51 19 00-0222)</small>		
			Note: Dimmable to 5%. For installation in standard recessed IC or non-IC housings. Includes removal of existing lamp from fixture. Excludes housing and disposal of hazardous lamps.		
26 51	19 00-0224	EA	4" Diameter, 575 Lumens, Recessed LED Downlight Retrofit (Cree® CR4-575L).....	89.90	
			<i>For >50 To 100, Deduct</i>	-3.10	
			<i>For >100 To 250, Deduct</i>	-5.35	
			<i>For >250 To 500, Deduct</i>	-8.99	
			<i>For >500, Deduct</i>	-12.63	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0225	EA		6" Diameter, 625 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-625L)	80.87	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100 To 250, Deduct</i>	-4.90	
			<i>For >250 To 500, Deduct</i>	-8.09	
			<i>For >500, Deduct</i>	-11.28	
26 51 19 00-0226	EA		6" Diameter, 800 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-800L)	98.93	
			<i>For >50 To 100, Deduct</i>	-3.33	
			<i>For >100 To 250, Deduct</i>	-5.80	
			<i>For >250 To 500, Deduct</i>	-9.89	
			<i>For >500, Deduct</i>	-13.98	
26 51 19 00-0227	EA		6" Diameter, 650 Lumens, Recessed LED Downlight Retrofit (Cree® LR6C-277)	109.46	
			<i>For >50 To 100, Deduct</i>	-3.59	
			<i>For >100 To 250, Deduct</i>	-6.33	
			<i>For >250 To 500, Deduct</i>	-10.95	
			<i>For >500, Deduct</i>	-15.56	
26 51 19 00-0228	EA		6" Diameter, 1,000 Lumens, Deep Recessed LED Downlight Retrofit (Cree® LR6-10L-XXX-120V-A-DR)	118.49	
			<i>For >50 To 100, Deduct</i>	-3.82	
			<i>For >100 To 250, Deduct</i>	-6.78	
			<i>For >250 To 500, Deduct</i>	-11.85	
			<i>For >500, Deduct</i>	-16.92	
26 51 19 00-0229			Recessed LED Downlight Retrofits Trim (CREE®) <small>(26 51 19 00-0222)</small>		
			Note: For installation in standard recessed IC or non-IC housings. Excludes housing and lamp.		
26 51 19 00-0230	EA		6" Diameter, Diffuse Anodized Finish Reflector For LED Downlight Retrofits (Cree® CT6AX)	35.56	9.58
			<i>For >50 To 100, Deduct</i>	-1.40	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-3.56	
			<i>For >500, Deduct</i>	-4.82	
26 51 19 00-0231	EA		6" Diameter, Diffuse Anodized Finish Reflector With Painted Flange For LED Downlight Retrofits (Cree® LT6AP)	41.59	9.58
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100 To 250, Deduct</i>	-2.59	
			<i>For >250 To 500, Deduct</i>	-4.16	
			<i>For >500, Deduct</i>	-5.73	
26 51 19 00-0232	EA		6" Diameter, Flat Black Finish Trim And Reflector For LED Downlight Retrofits (Cree® CT6BB)	37.07	9.58
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100 To 250, Deduct</i>	-2.37	
			<i>For >250 To 500, Deduct</i>	-3.71	
			<i>For >500, Deduct</i>	-5.05	
26 51 19 00-0233			Recessed LED Downlight Fixture Housings (CREE®) <small>(26 51 19 00-0222)</small>		
			Note: Excludes lamp and trim.		
26 51 19 00-0234	EA		6" Diameter, IC Rated, Architectural Recessed LED Downlight Fixture Housing (Cree® H6)	97.70	41.05
			<i>For >50 To 100, Deduct</i>	-3.98	
			<i>For >100 To 250, Deduct</i>	-6.42	
			<i>For >250 To 500, Deduct</i>	-9.77	
			<i>For >500, Deduct</i>	-13.12	
26 51 19 00-0235	EA		6" Diameter, IC Rated, Retrofit Recessed LED Downlight Fixture Housing (Cree® RR6)	76.61	41.05
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100 To 250, Deduct</i>	-5.37	
			<i>For >250 To 500, Deduct</i>	-7.66	
			<i>For >500, Deduct</i>	-9.95	
26 51 19 00-0236			Can Retrofit Or Surface Mount, LED Downlights <small>(26 51 19 00-0100)</small>		
26 51 19 00-0237	EA		6" Diameter, 15 Watt, Can Retrofit Or Surface Mount, LED Downlight (Lighting Science® GLP6)	100.00	37.50
			<i>For >50 To 100, Deduct</i>	-3.91	
			<i>For >100 To 250, Deduct</i>	-6.41	
			<i>For >250 To 500, Deduct</i>	-10.00	
			<i>For >500, Deduct</i>	-13.59	
26 51 19 00-0238	EA		4" Diameter, 7 Watt, Can Retrofit, LED Downlight (Green Creative0 1-811-D)	83.00	37.50
			<i>For >50 To 100, Deduct</i>	-3.48	
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-8.30	
			<i>For >500, Deduct</i>	-11.04	
26 51 19 00-0239	EA		6" Diameter, 9.5 Watt, Can Retrofit, LED Downlight (Green Creative0 1-808-D)	83.00	37.50
			<i>For >50 To 100, Deduct</i>	-3.48	
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-8.30	
			<i>For >500, Deduct</i>	-11.04	
26 51 19 00-0240	EA		6" Diameter, 8.9 Watt, Can Retrofit, LED Downlight (Lithonia 6BP)	126.44	37.50
			<i>For Recessed IC/Non-IC Rated Housing For New Construction, Add</i>	48.18	
			<i>For >50 To 100, Deduct</i>	-4.57	
			<i>For >100 To 250, Deduct</i>	-7.73	
			<i>For >250 To 500, Deduct</i>	-12.64	
			<i>For >500, Deduct</i>	-17.56	
26 51 19 00-0241	EA		4" Diameter, 8 Watt, 600 Lumens, Retrofit LED Downlight (Sylvania LED/RT4/550/840)	71.04	37.50
			<i>For >50 To 100, Deduct</i>	-3.18	
			<i>For >100 To 250, Deduct</i>	-4.96	
			<i>For >250 To 500, Deduct</i>	-7.10	
			<i>For >500, Deduct</i>	-9.25	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0242	EA 5" Diameter, 10 Watt, 700 Lumens, Retrofit LED Downlight (Sylvania LED/RT5/6/625/840).....	76.98	37.50
	<i>For >50 To 100, Deduct</i>	-3.33	
	<i>For >100 To 250, Deduct</i>	-5.26	
	<i>For >250 To 500, Deduct</i>	-7.70	
	<i>For >500, Deduct</i>	-10.14	
26 51 19 00-0243	EA 6" Diameter, 800 Lumens, 10 Watt, Retrofit LED Wallwash Downlight (Indy Lighting LRT6-08LM)	752.70	37.50
	<i>For >50 To 100, Deduct</i>	-20.22	
	<i>For >100 To 250, Deduct</i>	-39.04	
	<i>For >250 To 500, Deduct</i>	-75.27	
	<i>For >500, Deduct</i>	-111.50	
26 51 19 00-0244	Wall Mount LED Cylinder Downlight (26 51 19 00-0001)		
26 51 19 00-0245	EA 9" Diameter, 2,200 Lumens, Wall Mount LED Cylinder Downlight With Semi-Specular Trim (Gotham® EVO® CLED9).....	368.42	58.26
	<i>For >50 To 100, Deduct</i>	-11.40	
	<i>For >100 To 250, Deduct</i>	-20.61	
	<i>For >250 To 500, Deduct</i>	-36.84	
	<i>For >500, Deduct</i>	-53.08	
26 51 19 00-0246	Wall Sconce And Wall Wash LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0247	LED Wall Sconce Fixtures (Hudson Valley Lighting) (26 51 19 00-0246)		
26 51 19 00-0248	EA 2-1/2" Diameter x 15-1/2" High, Polished Nickel, LED Wall Sconce (Hudson Valley Lighting SHAW 1200-PN)	445.90	54.73
	<i>For >50 To 100, Deduct</i>	-13.20	
	<i>For >100 To 250, Deduct</i>	-24.35	
	<i>For >250 To 500, Deduct</i>	-44.59	
	<i>For >500, Deduct</i>	-64.83	
26 51 19 00-0249	LED Wall Sconce Fixtures (Kichler) (26 51 19 00-0246)		
26 51 19 00-0250	EA 6" High x 11.75" Wide x 3.5" Deep, 900 Lumens, 15 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Kichler 10790NILED).....	258.25	54.73
	<i>For >50 To 100, Deduct</i>	-8.51	
	<i>For >100 To 250, Deduct</i>	-14.97	
	<i>For >250 To 500, Deduct</i>	-25.83	
	<i>For >500, Deduct</i>	-36.69	
26 51 19 00-0251	LED Wall Sconce Fixtures (Metalux) (26 51 19 00-0246)		
26 51 19 00-0252	EA 9.875" High x 7.125" Wide x 3.5" Deep, 9 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Metalux AFX VNTS071009L30ENBN)	151.95	54.73
	<i>For >50 To 100, Deduct</i>	-5.85	
	<i>For >100 To 250, Deduct</i>	-9.65	
	<i>For >250 To 500, Deduct</i>	-15.20	
	<i>For >500, Deduct</i>	-20.74	
26 51 19 00-0253	EA 5" LED, Cape Sconce Wall Light, White (AFX CAPW050804L30ENWH).....	143.22	54.73
	<i>For >50 To 100, Deduct</i>	-5.63	
	<i>For >100 To 250, Deduct</i>	-9.21	
	<i>For >250 To 500, Deduct</i>	-14.32	
	<i>For >500, Deduct</i>	-19.43	
26 51 19 00-0254	Concealed Continuous LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0255	Concealed Continuous LED Fixtures (Fraqtir™ S301) (26 51 19 00-0254)		
26 51 19 00-0256	LF Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Driver (Fraqtir™ S301)	579.25	6.25
	<i>For >50 To 100, Deduct</i>	-14.79	
	<i>For >100 To 250, Deduct</i>	-29.28	
	<i>For >250 To 500, Deduct</i>	-57.93	
	<i>For >500, Deduct</i>	-86.58	
26 51 19 00-0257	LF Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Dimming Driver (Fraqtir™ S301)	659.94	6.25
	<i>For >50 To 100, Deduct</i>	-16.81	
	<i>For >100 To 250, Deduct</i>	-33.31	
	<i>For >250 To 500, Deduct</i>	-65.99	
	<i>For >500, Deduct</i>	-98.68	
26 51 19 00-0258	Low Bay LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0259	LED Linear Low Bay Fixtures (PlanLED) (26 51 19 00-0258)		
26 51 19 00-0260	EA 4' Length, 23 Watt, LED Linear Low Bay Fixture (PlanLED A1W4)	329.50	75.01
	<i>For >50 To 100, Deduct</i>	-11.36	
	<i>For >100 To 250, Deduct</i>	-19.60	
	<i>For >250 To 500, Deduct</i>	-32.95	
	<i>For >500, Deduct</i>	-46.30	
26 51 19 00-0261	EA 4' Length, 42 Watt, LED Linear Low Bay Fixture (PlanLED A2W4A).....	435.15	75.01
	<i>For >50 To 100, Deduct</i>	-14.00	
	<i>For >100 To 250, Deduct</i>	-24.88	
	<i>For >250 To 500, Deduct</i>	-43.52	
	<i>For >500, Deduct</i>	-62.15	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0262 EA 8' Length, 84 Watt, LED Linear Low Bay Fixture (PlanLED A2W5A).....	710.08	93.76
For >50 To 100, Deduct	-21.66	
For >100 To 250, Deduct	-39.41	
For >250 To 500, Deduct	-71.01	
For >500, Deduct	-102.61	
26 51 19 00-0263 LED Low Bay Fixtures (CREE®) (26 51 19 00-0258)		
26 51 19 00-0264 LED Low Bay Fixtures (CREE® LS) (26 51 19 00-0263)		
Note: Includes 120/277 voltage and 22 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0265 EA 2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-35K-10V)	274.69	75.01
For >50 To 100, Deduct	-9.99	
For >100 To 250, Deduct	-16.86	
For >250 To 500, Deduct	-27.47	
For >500, Deduct	-38.08	
26 51 19 00-0266 EA 2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-50K-10V)	290.04	75.01
For >50 To 100, Deduct	-10.38	
For >100 To 250, Deduct	-17.63	
For >250 To 500, Deduct	-29.00	
For >500, Deduct	-40.38	
26 51 19 00-0267 EA 4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-35K-10V)	281.09	75.01
For >50 To 100, Deduct	-10.15	
For >100 To 250, Deduct	-17.18	
For >250 To 500, Deduct	-28.11	
For >500, Deduct	-39.04	
26 51 19 00-0268 EA 4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-50K-10V)	296.44	75.01
For >50 To 100, Deduct	-10.54	
For >100 To 250, Deduct	-17.95	
For >250 To 500, Deduct	-29.64	
For >500, Deduct	-41.34	
26 51 19 00-0269 EA 5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-35K-10V)	307.95	75.01
For >50 To 100, Deduct	-10.82	
For >100 To 250, Deduct	-18.52	
For >250 To 500, Deduct	-30.80	
For >500, Deduct	-43.07	
26 51 19 00-0270 EA 5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-50K-10V)	323.30	75.01
For >50 To 100, Deduct	-11.21	
For >100 To 250, Deduct	-19.29	
For >250 To 500, Deduct	-32.33	
For >500, Deduct	-45.37	
26 51 19 00-0271 EA 8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-35K-10V)	424.93	93.76
For >50 To 100, Deduct	-14.53	
For >100 To 250, Deduct	-25.15	
For >250 To 500, Deduct	-42.49	
For >500, Deduct	-59.83	
26 51 19 00-0272 EA 8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-50K-10V)	453.07	93.76
For >50 To 100, Deduct	-15.23	
For >100 To 250, Deduct	-26.56	
For >250 To 500, Deduct	-45.31	
For >500, Deduct	-64.05	
26 51 19 00-0273 EA 10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-35K-10V)	511.92	93.76
For >50 To 100, Deduct	-16.70	
For >100 To 250, Deduct	-29.50	
For >250 To 500, Deduct	-51.19	
For >500, Deduct	-72.88	
26 51 19 00-0274 EA 10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-50K-10V)	527.27	93.76
For >50 To 100, Deduct	-17.09	
For >100 To 250, Deduct	-30.27	
For >250 To 500, Deduct	-52.73	
For >500, Deduct	-75.18	
26 51 19 00-0275 LED Low Bay Fixtures (CREE® LN) (26 51 19 00-0263)		
Note: Includes 120/277 voltage and aluminum housing assembly. Excludes sensors.		
26 51 19 00-0276 EA 3,400 Lumens, 4' Length, LED Low Bay Fixture (Cree® LN4-34L-35K-10V)	558.70	75.01
For >50 To 100, Deduct	-17.09	
For >100 To 250, Deduct	-31.06	
For >250 To 500, Deduct	-55.87	
For >500, Deduct	-80.68	
26 51 19 00-0277 EA 3,400 Lumens, 4' Length, LED Low Bay Fixture, Smartcast Technology (Cree® LN4-34L-35K-CMA)	622.67	75.01
For >50 To 100, Deduct	-18.69	
For >100 To 250, Deduct	-34.26	
For >250 To 500, Deduct	-62.27	
For >500, Deduct	-90.28	
26 51 19 00-0278 LED Linear Low Bay Fixtures (CREE® CS) (26 51 19 00-0263)		
Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and lightweight polymer housing assembly. Excludes sensors.		
26 51 19 00-0279 EA 4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Cree® CS14™).....	545.20	75.01
For >50 To 100, Deduct	-16.76	
For >100 To 250, Deduct	-30.39	
For >250 To 500, Deduct	-54.52	
For >500, Deduct	-78.65	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0280	EA	7,500 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	677.30	93.76
			<i>For >50 To 100, Deduct</i>	-20.84	
			<i>For >100 To 250, Deduct</i>	-37.77	
			<i>For >250 To 500, Deduct</i>	-67.73	
			<i>For >500, Deduct</i>	-97.69	
26 51	19 00-0281	EA	8,000 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	844.36	93.76
			<i>For >50 To 100, Deduct</i>	-25.02	
			<i>For >100 To 250, Deduct</i>	-46.12	
			<i>For >250 To 500, Deduct</i>	-84.44	
			<i>For >500, Deduct</i>	-122.75	
26 51 19 00-0282 Accessories For LED Low Bay Fixtures (CREE®) (26 51 19 00-0263)					
26 51	19 00-0283	EA	Continuous Row Through Wiring Kit For 4' Fixtures (Cree® LS4TWK).....	56.84	20.55
			<i>For >50 To 100, Deduct</i>	-2.28	
			<i>For >100 To 250, Deduct</i>	-3.70	
			<i>For >250 To 500, Deduct</i>	-5.68	
			<i>For >500, Deduct</i>	-7.67	
26 51	19 00-0284	EA	Continuous Row Through Wiring Kit For 8' Fixtures (Cree® LS8TWK).....	61.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-3.92	
			<i>For >250 To 500, Deduct</i>	-6.14	
			<i>For >500, Deduct</i>	-8.35	
26 51	19 00-0285	EA	Top Housing Aligner For Continuous Row Installations (Cree® LS-RJ).....	49.30	20.55
			<i>For >50 To 100, Deduct</i>	-2.09	
			<i>For >100 To 250, Deduct</i>	-3.32	
			<i>For >250 To 500, Deduct</i>	-4.93	
			<i>For >500, Deduct</i>	-6.54	
26 51	19 00-0286	EA	Reflector Joint Aligner For Continuous Row Installations (Cree® LS-RFLJ).....	41.78	20.55
			<i>For >50 To 100, Deduct</i>	-1.90	
			<i>For >100 To 250, Deduct</i>	-2.95	
			<i>For >250 To 500, Deduct</i>	-4.18	
			<i>For >500, Deduct</i>	-5.41	
26 51	19 00-0287	EA	Solid Reflector, Pair (Cree® LS4-SR).....	109.51	20.55
			<i>For >50 To 100, Deduct</i>	-3.59	
			<i>For >100 To 250, Deduct</i>	-6.33	
			<i>For >250 To 500, Deduct</i>	-10.95	
			<i>For >500, Deduct</i>	-15.57	
26 51	19 00-0288	EA	Solid Reflector, Pair (Cree® LS8-SR).....	147.15	20.55
			<i>For >50 To 100, Deduct</i>	-4.54	
			<i>For >100 To 250, Deduct</i>	-8.21	
			<i>For >250 To 500, Deduct</i>	-14.72	
			<i>For >500, Deduct</i>	-21.22	
26 51	19 00-0289	EA	5" Cable Canopy With #18/2 SJT Cord, 48" (Cree® AC5-18/2-48-Q14B-JB).....	61.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-3.92	
			<i>For >250 To 500, Deduct</i>	-6.14	
			<i>For >500, Deduct</i>	-8.35	
26 51	19 00-0290	EA	5" Cable Canopy With #18/2 SJT Cord, 72" (Cree® AC5-18/2-72-Q14B-JB).....	82.43	20.55
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100 To 250, Deduct</i>	-4.98	
			<i>For >250 To 500, Deduct</i>	-8.24	
			<i>For >500, Deduct</i>	-11.51	
26 51	19 00-0291	EA	5" Cable Canopy With #18/5 SJT Cord, 48" (Cree® AC5-18/5-48-Q14B-JB).....	67.37	20.55
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100 To 250, Deduct</i>	-4.23	
			<i>For >250 To 500, Deduct</i>	-6.74	
			<i>For >500, Deduct</i>	-9.25	
26 51	19 00-0292	EA	5" Cable Canopy With #18/5 SJT Cord, 72" (Cree® AC5-18/5-72-Q14B-JB).....	86.94	20.55
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100 To 250, Deduct</i>	-5.20	
			<i>For >250 To 500, Deduct</i>	-8.69	
			<i>For >500, Deduct</i>	-12.18	
26 51	19 00-0293	EA	5" Cable Canopy With #18/5 SJT Cord, 96" (Cree® AC5-18/5-96-Q14B-JB).....	91.46	20.55
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100 To 250, Deduct</i>	-5.43	
			<i>For >250 To 500, Deduct</i>	-9.15	
			<i>For >500, Deduct</i>	-12.86	
26 51	19 00-0294	EA	5" Cable Canopy With #12/3 SJT Cord, 48" (Cree® AC5-12/3-48-Q14B-JB).....	79.41	20.55
			<i>For >50 To 100, Deduct</i>	-2.84	
			<i>For >100 To 250, Deduct</i>	-4.83	
			<i>For >250 To 500, Deduct</i>	-7.94	
			<i>For >500, Deduct</i>	-11.06	
26 51	19 00-0295	EA	5" Cable Canopy With #12/3 SJT Cord, 72" (Cree® AC5-12/3-72-Q14B-JB).....	114.03	20.55
			<i>For >50 To 100, Deduct</i>	-3.71	
			<i>For >100 To 250, Deduct</i>	-6.56	
			<i>For >250 To 500, Deduct</i>	-11.40	
			<i>For >500, Deduct</i>	-16.25	
26 51	19 00-0296	EA	Set Of End Caps, One With Power Feed, One Without (Cree® LN-EC).....	64.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.47	
			<i>For >100 To 250, Deduct</i>	-4.07	
			<i>For >250 To 500, Deduct</i>	-6.44	
			<i>For >500, Deduct</i>	-8.80	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0297	EA	Canopy Kit With Aircraft Cable And Opening For Power Feed (Cree® LN-CK-5-AC)	76.40	20.55
			<i>For >50 To 100, Deduct</i>	-2.77	
			<i>For >100 To 250, Deduct</i>	-4.68	
			<i>For >250 To 500, Deduct</i>	-7.64	
			<i>For >500, Deduct</i>	-10.60	
26 51	19 00-0298	EA	Canopy Kit With Aircraft Cable No Opening For Power Feed (Cree® LN-CK-0-AC)	61.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-3.92	
			<i>For >250 To 500, Deduct</i>	-6.14	
			<i>For >500, Deduct</i>	-8.35	
26 51	19 00-0299	EA	Emergency 125W Inverter, Ceiling Installed (Cree® ELI-125W)	1,015.68	50.00
			<i>For >50 To 100, Deduct</i>	-27.27	
			<i>For >100 To 250, Deduct</i>	-52.66	
			<i>For >250 To 500, Deduct</i>	-101.57	
			<i>For >500, Deduct</i>	-150.48	
26 51	19 00-0300	EA	120 Volt, Emergency Relay For Use With Generator Power (Cree® EL-SR-120)	376.02	50.00
			<i>For >50 To 100, Deduct</i>	-11.28	
			<i>For >100 To 250, Deduct</i>	-20.68	
			<i>For >250 To 500, Deduct</i>	-37.60	
			<i>For >500, Deduct</i>	-54.53	
26 51	19 00-0301		LED Linear Low Bay Fixtures (Lithonia MSL) <small>(26 51 19 00-0258)</small>		
			Note: Includes 3,500K, 4,000K or 5,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51	19 00-0302	EA	4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Lithonia MSL)	818.34	75.01
			<i>For >50 To 100, Deduct</i>	-23.58	
			<i>For >100 To 250, Deduct</i>	-44.04	
			<i>For >250 To 500, Deduct</i>	-81.83	
			<i>For >500, Deduct</i>	-119.63	
26 51	19 00-0303		High Bay LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51	19 00-0304		LED High Bay Fixtures (Columbia Lighting LWS) <small>(26 51 19 00-0303)</small>		
26 51	19 00-0305	EA	16" x 24", 7,909 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-LW-W-EU)	507.75	137.52
			<i>For >50 To 100, Deduct</i>	-19.57	
			<i>For >100 To 250, Deduct</i>	-32.26	
			<i>For >250 To 500, Deduct</i>	-50.78	
			<i>For >500, Deduct</i>	-69.29	
26 51	19 00-0306	EA	16" x 24", 8,526 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-LW-W-EU)	507.75	137.52
			<i>For >50 To 100, Deduct</i>	-19.57	
			<i>For >100 To 250, Deduct</i>	-32.26	
			<i>For >250 To 500, Deduct</i>	-50.78	
			<i>For >500, Deduct</i>	-69.29	
26 51	19 00-0307	EA	16" x 24", 11,812 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-ML-W-EU)	563.60	137.52
			<i>For >50 To 100, Deduct</i>	-20.97	
			<i>For >100 To 250, Deduct</i>	-35.06	
			<i>For >250 To 500, Deduct</i>	-56.36	
			<i>For >500, Deduct</i>	-77.66	
26 51	19 00-0308	EA	16" x 24", 12,734 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-ML-W-EU)	563.60	137.52
			<i>For >50 To 100, Deduct</i>	-20.97	
			<i>For >100 To 250, Deduct</i>	-35.06	
			<i>For >250 To 500, Deduct</i>	-56.36	
			<i>For >500, Deduct</i>	-77.66	
26 51	19 00-0309	EA	16" x 24", 14,813 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-HL-W-EU)	656.68	137.52
			<i>For >50 To 100, Deduct</i>	-23.29	
			<i>For >100 To 250, Deduct</i>	-39.71	
			<i>For >250 To 500, Deduct</i>	-65.67	
			<i>For >500, Deduct</i>	-91.63	
26 51	19 00-0310	EA	16" x 24", 15,968 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-HL-W-EU)	656.68	137.52
			<i>For >50 To 100, Deduct</i>	-23.29	
			<i>For >100 To 250, Deduct</i>	-39.71	
			<i>For >250 To 500, Deduct</i>	-65.67	
			<i>For >500, Deduct</i>	-91.63	
26 51	19 00-0311	EA	16" x 24", 18,714 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-VL-W-EU)	693.91	137.52
			<i>For >50 To 100, Deduct</i>	-24.22	
			<i>For >100 To 250, Deduct</i>	-41.57	
			<i>For >250 To 500, Deduct</i>	-69.39	
			<i>For >500, Deduct</i>	-97.21	
26 51	19 00-0312	EA	16" x 24", 19,511 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-VL-W-EU)	693.91	137.52
			<i>For >50 To 100, Deduct</i>	-24.22	
			<i>For >100 To 250, Deduct</i>	-41.57	
			<i>For >250 To 500, Deduct</i>	-69.39	
			<i>For >500, Deduct</i>	-97.21	
26 51	19 00-0313	EA	16" x 24", 22,994 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-XL-W-EU)	721.84	137.52
			<i>For >50 To 100, Deduct</i>	-24.92	
			<i>For >100 To 250, Deduct</i>	-42.97	
			<i>For >250 To 500, Deduct</i>	-72.18	
			<i>For >500, Deduct</i>	-101.40	
26 51	19 00-0314	EA	16" x 24", 24,787 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-XL-W-EU)	721.84	137.52
			<i>For >50 To 100, Deduct</i>	-24.92	
			<i>For >100 To 250, Deduct</i>	-42.97	
			<i>For >250 To 500, Deduct</i>	-72.18	
			<i>For >500, Deduct</i>	-101.40	

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0315			LED High Bay Fixtures (Cree) <small>(26 51 19 00-0303)</small>		
26 51 19 00-0316			LED High Bay Fixtures (CREE®) <small>(26 51 19 00-0315)</small>		
26 51 19 00-0317	EA		18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-10V).....	708.73	137.52
			For >50 To 100, Deduct	-24.59	
			For >100 To 250, Deduct	-42.31	
			For >250 To 500, Deduct	-70.87	
			For >500, Deduct	-99.43	
26 51 19 00-0318	EA		18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-ML).....	831.92	137.52
			For >50 To 100, Deduct	-27.67	
			For >100 To 250, Deduct	-48.47	
			For >250 To 500, Deduct	-83.19	
			For >500, Deduct	-117.91	
26 51 19 00-0319	EA		18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-10V).....	771.72	137.52
			For >50 To 100, Deduct	-26.17	
			For >100 To 250, Deduct	-45.46	
			For >250 To 500, Deduct	-77.17	
			For >500, Deduct	-108.88	
26 51 19 00-0320	EA		18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-ML).....	869.55	137.52
			For >50 To 100, Deduct	-28.61	
			For >100 To 250, Deduct	-50.35	
			For >250 To 500, Deduct	-86.96	
			For >500, Deduct	-123.56	
26 51 19 00-0321	EA		24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-10V).....	730.48	137.52
			For >50 To 100, Deduct	-25.14	
			For >100 To 250, Deduct	-43.40	
			For >250 To 500, Deduct	-73.05	
			For >500, Deduct	-102.70	
26 51 19 00-0322	EA		24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-ML).....	854.50	137.52
			For >50 To 100, Deduct	-28.24	
			For >100 To 250, Deduct	-49.60	
			For >250 To 500, Deduct	-85.45	
			For >500, Deduct	-121.30	
26 51 19 00-0323	EA		24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-10V).....	794.29	137.52
			For >50 To 100, Deduct	-26.73	
			For >100 To 250, Deduct	-46.59	
			For >250 To 500, Deduct	-79.43	
			For >500, Deduct	-112.27	
26 51 19 00-0324	EA		24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-ML).....	892.12	137.52
			For >50 To 100, Deduct	-29.18	
			For >100 To 250, Deduct	-51.48	
			For >250 To 500, Deduct	-89.21	
			For >500, Deduct	-126.94	
26 51 19 00-0325			Accessories For LED High Bay Fixtures (CREE®) <small>(26 51 19 00-0315)</small>		
26 51 19 00-0326	EA		15 Amperes, 120 Volt, Straight Blade Plug For LED High Bay Fixtures (Cree® AP-515P).....	56.84	20.55
			For >50 To 100, Deduct	-2.28	
			For >100 To 250, Deduct	-3.70	
			For >250 To 500, Deduct	-5.68	
			For >500, Deduct	-7.67	
26 51 19 00-0327	EA		15 Amperes, 120 Volt, Twist Lock Plug For LED High Bay Fixtures (Cree® AP-L515P).....	56.84	20.55
			For >50 To 100, Deduct	-2.28	
			For >100 To 250, Deduct	-3.70	
			For >250 To 500, Deduct	-5.68	
			For >500, Deduct	-7.67	
26 51 19 00-0328	EA		16" Matte Spun Aluminum Reflector For LED High Bay Fixture (Cree® CXBA16N).....	71.88	20.55
			For >50 To 100, Deduct	-2.65	
			For >100 To 250, Deduct	-4.45	
			For >250 To 500, Deduct	-7.19	
			For >500, Deduct	-9.93	
26 51 19 00-0329	EA		16" Clear Acrylic Reflector For LED High Bay Fixture (Cree® CXBP16).....	101.99	20.55
			For >50 To 100, Deduct	-3.41	
			For >100 To 250, Deduct	-5.96	
			For >250 To 500, Deduct	-10.20	
			For >500, Deduct	-14.44	
26 51 19 00-0330	EA		16" White Acrylic Reflector For LED High Bay Fixture (Cree® CXBW16).....	117.04	20.55
			For >50 To 100, Deduct	-3.78	
			For >100 To 250, Deduct	-6.71	
			For >250 To 500, Deduct	-11.70	
			For >500, Deduct	-16.70	
26 51 19 00-0331	EA		16" Clear Prismatic Conical Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® CL16).....	71.88	20.55
			For >50 To 100, Deduct	-2.65	
			For >100 To 250, Deduct	-4.45	
			For >250 To 500, Deduct	-7.19	
			For >500, Deduct	-9.93	
26 51 19 00-0332	EA		16" Clear Prismatic Drop Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® DL16).....	73.39	20.55
			For >50 To 100, Deduct	-2.69	
			For >100 To 250, Deduct	-4.53	
			For >250 To 500, Deduct	-7.34	
			For >500, Deduct	-10.15	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0333 EA 16" Wire Guard For Aluminum Reflector For LED High Bay Fixtures (Cree® WG-A).....	56.84	20.55
For >50 To 100, Deduct	-2.28	
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-5.68	
For >500, Deduct	-7.67	
26 51 19 00-0334 EA 16" Wire Guard For Prismatic And Acrylic Reflector For LED High Bay Fixtures (Cree® WG-AP).....	59.85	20.55
For >50 To 100, Deduct	-2.35	
For >100 To 250, Deduct	-3.85	
For >250 To 500, Deduct	-5.99	
For >500, Deduct	-8.12	
26 51 19 00-0335 EA 5' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-5)	43.29	20.55
For >50 To 100, Deduct	-1.94	
For >100 To 250, Deduct	-3.02	
For >250 To 500, Deduct	-4.33	
For >500, Deduct	-5.64	
26 51 19 00-0336 EA 10' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-10)	44.80	20.55
For >50 To 100, Deduct	-1.98	
For >100 To 250, Deduct	-3.10	
For >250 To 500, Deduct	-4.48	
For >500, Deduct	-5.86	
26 51 19 00-0337 LED High Bay Fixtures (DLE) <small>(26 51 19 00-0303)</small>		
26 51 19 00-0338 EA 12,000 Lumens, 120 Watt, LED High Bay Fixture (DLE-12-ST/HV)	1,227.60	137.52
For >50 To 100, Deduct	-37.57	
For >100 To 250, Deduct	-68.26	
For >250 To 500, Deduct	-122.76	
For >500, Deduct	-177.26	
26 51 19 00-0339 EA 18,000 Lumens, 180 Watt, LED High Bay Fixture (DLE-18-ST/HV)	1,490.02	137.52
For >50 To 100, Deduct	-44.13	
For >100 To 250, Deduct	-81.38	
For >250 To 500, Deduct	-149.00	
For >500, Deduct	-216.63	
26 51 19 00-0340 EA 24,000 Lumens, 230 Watt, LED High Bay Fixture (DLE-24-ST/HV)	1,733.70	137.52
For >50 To 100, Deduct	-50.22	
For >100 To 250, Deduct	-93.56	
For >250 To 500, Deduct	-173.37	
For >500, Deduct	-253.18	
26 51 19 00-0341 LED High Bay Fixtures (Everlast) <small>(26 51 19 00-0303)</small>		
26 51 19 00-0342 LED High Bay Fixtures (Everlast EL-LED-LG) <small>(26 51 19 00-0341)</small>		
26 51 19 00-0343 EA 13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	854.42	137.52
For >50 To 100, Deduct	-28.24	
For >100 To 250, Deduct	-49.60	
For >250 To 500, Deduct	-85.44	
For >500, Deduct	-121.29	
26 51 19 00-0344 EA 13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....	898.72	137.52
For >50 To 100, Deduct	-29.34	
For >100 To 250, Deduct	-51.81	
For >250 To 500, Deduct	-89.87	
For >500, Deduct	-127.93	
26 51 19 00-0345 EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16)	810.11	137.52
For >50 To 100, Deduct	-27.13	
For >100 To 250, Deduct	-47.38	
For >250 To 500, Deduct	-81.01	
For >500, Deduct	-114.64	
26 51 19 00-0346 EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22)	828.85	137.52
For >50 To 100, Deduct	-27.60	
For >100 To 250, Deduct	-48.32	
For >250 To 500, Deduct	-82.89	
For >500, Deduct	-117.45	
26 51 19 00-0347 EA 17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	931.10	137.52
For >50 To 100, Deduct	-30.15	
For >100 To 250, Deduct	-53.43	
For >250 To 500, Deduct	-93.11	
For >500, Deduct	-132.79	
26 51 19 00-0348 EA 17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....	1,007.78	137.52
For >50 To 100, Deduct	-32.07	
For >100 To 250, Deduct	-57.27	
For >250 To 500, Deduct	-100.78	
For >500, Deduct	-144.29	
26 51 19 00-0349 EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16)	890.20	137.52
For >50 To 100, Deduct	-29.13	
For >100 To 250, Deduct	-51.39	
For >250 To 500, Deduct	-89.02	
For >500, Deduct	-126.65	
26 51 19 00-0350 EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22)	956.66	137.52
For >50 To 100, Deduct	-30.79	
For >100 To 250, Deduct	-54.71	
For >250 To 500, Deduct	-95.67	
For >500, Deduct	-136.62	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0351	EA		34,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,357.11	137.52
			<i>For >50 To 100, Deduct</i>	-40.80	
			<i>For >100 To 250, Deduct</i>	-74.73	
			<i>For >250 To 500, Deduct</i>	-135.71	
			<i>For >500, Deduct</i>	-196.69	
26 51 19 00-0352	EA		43,000 Lumens, 400 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,476.39	137.52
			<i>For >50 To 100, Deduct</i>	-43.79	
			<i>For >100 To 250, Deduct</i>	-80.70	
			<i>For >250 To 500, Deduct</i>	-147.64	
			<i>For >500, Deduct</i>	-214.58	
26 51 19 00-0353	EA		66,000 Lumens, 600 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,817.20	137.52
			<i>For >50 To 100, Deduct</i>	-52.31	
			<i>For >100 To 250, Deduct</i>	-97.74	
			<i>For >250 To 500, Deduct</i>	-181.72	
			<i>For >500, Deduct</i>	-265.70	
26 51 19 00-0354			LED High Bay Fixtures (Everlast EL-LED-CS) <small>(26 51 19 00-0341)</small>		
26 51 19 00-0355	EA		5,000 Lumens, 50 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	564.73	137.52
			<i>For >50 To 100, Deduct</i>	-20.99	
			<i>For >100 To 250, Deduct</i>	-35.11	
			<i>For >250 To 500, Deduct</i>	-56.47	
			<i>For >500, Deduct</i>	-77.83	
26 51 19 00-0356	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	794.77	137.52
			<i>For >50 To 100, Deduct</i>	-26.75	
			<i>For >100 To 250, Deduct</i>	-46.61	
			<i>For >250 To 500, Deduct</i>	-79.48	
			<i>For >500, Deduct</i>	-112.34	
26 51 19 00-0357	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	897.02	137.52
			<i>For >50 To 100, Deduct</i>	-29.30	
			<i>For >100 To 250, Deduct</i>	-51.73	
			<i>For >250 To 500, Deduct</i>	-89.70	
			<i>For >500, Deduct</i>	-127.68	
26 51 19 00-0358	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	1,016.30	137.52
			<i>For >50 To 100, Deduct</i>	-32.28	
			<i>For >100 To 250, Deduct</i>	-57.69	
			<i>For >250 To 500, Deduct</i>	-101.63	
			<i>For >500, Deduct</i>	-145.57	
26 51 19 00-0359	EA		30,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	1,092.98	137.52
			<i>For >50 To 100, Deduct</i>	-34.20	
			<i>For >100 To 250, Deduct</i>	-61.53	
			<i>For >250 To 500, Deduct</i>	-109.30	
			<i>For >500, Deduct</i>	-157.07	
26 51 19 00-0360			LED High Bay Fixtures (Everlast EL-LED-HB-LG) <small>(26 51 19 00-0341)</small>		
26 51 19 00-0361	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	718.09	137.52
			<i>For >50 To 100, Deduct</i>	-24.83	
			<i>For >100 To 250, Deduct</i>	-42.78	
			<i>For >250 To 500, Deduct</i>	-71.81	
			<i>For >500, Deduct</i>	-100.84	
26 51 19 00-0362	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	760.69	137.52
			<i>For >50 To 100, Deduct</i>	-25.89	
			<i>For >100 To 250, Deduct</i>	-44.91	
			<i>For >250 To 500, Deduct</i>	-76.07	
			<i>For >500, Deduct</i>	-107.23	
26 51 19 00-0363	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	820.33	137.52
			<i>For >50 To 100, Deduct</i>	-27.38	
			<i>For >100 To 250, Deduct</i>	-47.89	
			<i>For >250 To 500, Deduct</i>	-82.03	
			<i>For >500, Deduct</i>	-116.17	
26 51 19 00-0364			LED High Bay Fixtures (Everlast EL-LED-LHB) <small>(26 51 19 00-0341)</small>		
26 51 19 00-0365	EA		13,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-LHB).....	728.32	137.52
			<i>For >50 To 100, Deduct</i>	-25.08	
			<i>For >100 To 250, Deduct</i>	-43.29	
			<i>For >250 To 500, Deduct</i>	-72.83	
			<i>For >500, Deduct</i>	-102.37	
26 51 19 00-0366	EA		26,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LHB).....	879.98	137.52
			<i>For >50 To 100, Deduct</i>	-28.88	
			<i>For >100 To 250, Deduct</i>	-50.88	
			<i>For >250 To 500, Deduct</i>	-88.00	
			<i>For >500, Deduct</i>	-125.12	
26 51 19 00-0367	EA		39,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LHB).....	1,075.94	137.52
			<i>For >50 To 100, Deduct</i>	-33.77	
			<i>For >100 To 250, Deduct</i>	-60.67	
			<i>For >250 To 500, Deduct</i>	-107.59	
			<i>For >500, Deduct</i>	-154.52	
26 51 19 00-0368			LED High Bay Fixtures (Lithonia IBL) <small>(26 51 19 00-0303)</small>		
			Note: Includes aluminum alloy chassis.		



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0369 EA 9,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 9L)	625.41	137.52
For >50 To 100, Deduct	-22.51	
For >100 To 250, Deduct	-38.15	
For >250 To 500, Deduct	-62.54	
For >500, Deduct	-86.94	
26 51 19 00-0370 EA 12,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 12L)	671.95	137.52
For >50 To 100, Deduct	-23.67	
For >100 To 250, Deduct	-40.47	
For >250 To 500, Deduct	-67.20	
For >500, Deduct	-93.92	
26 51 19 00-0371 EA 18,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 18L)	797.61	137.52
For >50 To 100, Deduct	-26.82	
For >100 To 250, Deduct	-46.76	
For >250 To 500, Deduct	-79.76	
For >500, Deduct	-112.77	
26 51 19 00-0372 EA 24,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 24L)	847.88	137.52
For >50 To 100, Deduct	-28.07	
For >100 To 250, Deduct	-49.27	
For >250 To 500, Deduct	-84.79	
For >500, Deduct	-120.31	
26 51 19 00-0373 LED High Bay Fixtures (Metalux SSLED) (26 51 19 00-0303)		
26 51 19 00-0374 EA 12,000 Lumens, 80 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-12-M-UNV-L840-CD1U)	681.44	137.52
For >50 To 100, Deduct	-23.91	
For >100 To 250, Deduct	-40.95	
For >250 To 500, Deduct	-68.14	
For >500, Deduct	-95.34	
26 51 19 00-0375 EA 15,000 Lumens, 100 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-15-M-UNV-L840-CD1U)	697.41	137.52
For >50 To 100, Deduct	-24.31	
For >100 To 250, Deduct	-41.75	
For >250 To 500, Deduct	-69.74	
For >500, Deduct	-97.74	
26 51 19 00-0376 EA 18,000 Lumens, 120 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-18-M-UNV-L840-CD1U)	703.84	137.52
For >50 To 100, Deduct	-24.47	
For >100 To 250, Deduct	-42.07	
For >250 To 500, Deduct	-70.38	
For >500, Deduct	-98.70	
26 51 19 00-0377 EA 24,000 Lumens, 160 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-24-M-UNV-L840-CD1U)	765.06	137.52
For >50 To 100, Deduct	-26.00	
For >100 To 250, Deduct	-45.13	
For >250 To 500, Deduct	-76.51	
For >500, Deduct	-107.88	
26 51 19 00-0378 EA 30,000 Lumens, 200 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-30-M-UNV-L840-CD1U)	836.37	137.52
For >50 To 100, Deduct	-27.79	
For >100 To 250, Deduct	-48.69	
For >250 To 500, Deduct	-83.64	
For >500, Deduct	-118.58	
26 51 19 00-0379 EA 36,000 Lumens, 240 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-36-M-UNV-L840-CD1U)	863.13	137.52
For >50 To 100, Deduct	-28.45	
For >100 To 250, Deduct	-50.03	
For >250 To 500, Deduct	-86.31	
For >500, Deduct	-122.59	
26 51 19 00-0380 LED High Bay Fixtures (PlanLED) (26 51 19 00-0303)		
26 51 19 00-0381 LED High Bay Fixtures (PlanLED LUNA) (26 51 19 00-0380)		
Note: Includes aluminum alloy chassis.		
26 51 19 00-0382 EA 7,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN70)	833.97	137.52
For >50 To 100, Deduct	-27.73	
For >100 To 250, Deduct	-48.57	
For >250 To 500, Deduct	-83.40	
For >500, Deduct	-118.22	
26 51 19 00-0383 EA 9,800 Lumens, LED High Bay Fixture (PlanLED LUNA LN98)	929.39	137.52
For >50 To 100, Deduct	-30.11	
For >100 To 250, Deduct	-53.35	
For >250 To 500, Deduct	-92.94	
For >500, Deduct	-132.53	
26 51 19 00-0384 EA 13,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN130)	1,067.42	137.52
For >50 To 100, Deduct	-33.56	
For >100 To 250, Deduct	-60.25	
For >250 To 500, Deduct	-106.74	
For >500, Deduct	-153.24	
26 51 19 00-0385 EA 16,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN160)	1,202.04	137.52
For >50 To 100, Deduct	-36.93	
For >100 To 250, Deduct	-66.98	
For >250 To 500, Deduct	-120.20	
For >500, Deduct	-173.43	
26 51 19 00-0386 LED High Bay Fixtures (PlanLED IBL) (26 51 19 00-0380)		
Note: Includes aluminum alloy chassis.		

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0387 EA 13,650 Lumens, 130 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 130W).....	902.13	137.52
For 480 Volt, Add	47.13	
For >50 To 100, Deduct	-29.43	
For >100 To 250, Deduct	-51.98	
For >250 To 500, Deduct	-90.21	
For >500, Deduct	-128.44	
26 51 19 00-0388 EA 21,000 Lumens, 200 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 200W).....	1,234.42	137.52
For 480 Volt, Add	59.55	
For >50 To 100, Deduct	-37.74	
For >100 To 250, Deduct	-68.60	
For >250 To 500, Deduct	-123.44	
For >500, Deduct	-178.29	
26 51 19 00-0389 EA 42,000 Lumens, 400 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 400W).....	2,149.49	137.52
For 480 Volt, Add	94.13	
For >50 To 100, Deduct	-60.61	
For >100 To 250, Deduct	-114.35	
For >250 To 500, Deduct	-214.95	
For >500, Deduct	-315.55	
26 51 19 00-0390 LED High Bay Fixtures (PlanLED SEGA) (26 51 19 00-0380)		
Note: Includes aluminum alloy chassis.		
26 51 19 00-0391 EA 10,400 Lumens, 80 Watt, LED High Bay Fixture (PlanLED SEGA SE080)	723.20	137.52
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-24.96	
For >100 To 250, Deduct	-43.04	
For >250 To 500, Deduct	-72.32	
For >500, Deduct	-101.60	
26 51 19 00-0392 EA 13,000 Lumens, 100 Watt, LED High Bay Fixture (PlanLED SEGA SE100)	769.21	137.52
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-26.11	
For >100 To 250, Deduct	-45.34	
For >250 To 500, Deduct	-76.92	
For >500, Deduct	-108.51	
26 51 19 00-0393 EA 16,900 Lumens, 130 Watt, LED High Bay Fixture (PlanLED SEGA SE130)	927.69	137.52
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-30.07	
For >100 To 250, Deduct	-53.26	
For >250 To 500, Deduct	-92.77	
For >500, Deduct	-132.28	
26 51 19 00-0394 EA 20,800 Lumens, 160 Watt, LED High Bay Fixture (PlanLED SEGA SE160)	1,041.86	137.52
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-32.92	
For >100 To 250, Deduct	-58.97	
For >250 To 500, Deduct	-104.19	
For >500, Deduct	-149.40	
26 51 19 00-0395 EA 50,000 Lumens, 400 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE400).....	1,883.66	137.52
For >50 To 100, Deduct	-53.97	
For >100 To 250, Deduct	-101.06	
For >250 To 500, Deduct	-188.37	
For >500, Deduct	-275.67	
26 51 19 00-0396 EA 57,040 Lumens, 500 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE500).....	2,033.61	137.52
For >50 To 100, Deduct	-57.72	
For >100 To 250, Deduct	-108.56	
For >250 To 500, Deduct	-203.36	
For >500, Deduct	-298.17	
26 51 19 00-0397 EA 80,000 Lumens, 640 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE640).....	3,063.15	137.52
For >50 To 100, Deduct	-83.45	
For >100 To 250, Deduct	-160.03	
For >250 To 500, Deduct	-306.32	
For >500, Deduct	-452.60	
26 51 19 00-0398 Wet/Hazardous Location, LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0399 Wet Location, LED Fixtures (26 51 19 00-0398)		
26 51 19 00-0400 Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper		
Champ® Pro PVM) (26 51 19 00-0399)		
Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0401 EA 3,531 Lumens, 29 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper		
Champ® Pro PVM3L).....	1,931.03	105.02
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-52.65	
For >100 To 250, Deduct	-100.93	
For >250 To 500, Deduct	-193.10	
For >500, Deduct	-285.28	



Electrical	26	
Lighting	26 50	26
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0402 EA 5,335 Lumens, 43 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM5L).....	1,971.17	112.51
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-53.97	
For >100 To 250, Deduct	-103.25	
For >250 To 500, Deduct	-197.12	
For >500, Deduct	-290.99	
26 51 19 00-0403 EA 7,195 Lumens, 62 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM7L).....	2,221.61	120.01
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-60.54	
For >100 To 250, Deduct	-116.08	
For >250 To 500, Deduct	-222.16	
For >500, Deduct	-328.24	
26 51 19 00-0404 EA 9,266 Lumens, 85 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM9L).....	2,665.06	127.52
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-71.94	
For >100 To 250, Deduct	-138.57	
For >250 To 500, Deduct	-266.51	
For >500, Deduct	-394.45	
26 51 19 00-0405 EA 11,440 Lumens, 113 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L).....	3,384.20	135.01
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-90.23	
For >100 To 250, Deduct	-174.84	
For >250 To 500, Deduct	-338.42	
For >500, Deduct	-502.00	
26 51 19 00-0406 EA 13,226 Lumens, 131 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L).....	4,432.49	138.76
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-116.59	
For >100 To 250, Deduct	-227.41	
For >250 To 500, Deduct	-443.25	
For >500, Deduct	-659.09	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0407	EA	18,793 Lumens, 168 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM17L).....	5,124.00	142.52
			<i>For Ceiling Mount, Add</i>	16.36	
			<i>For Quick Clip Mounting Option, Add</i>	24.05	
			<i>For Frosted Lens, Add</i>	51.71	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For Stanchion Mount, Add</i>	111.56	
			<i>For Wall Mount, Add</i>	123.49	
			<i>For Polycarbonate Lens, Add</i>	95.84	
			<i>For Teflon Coated Lens, Add</i>	109.75	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For >50 To 100, Deduct</i>	-134.04	
			<i>For >100 To 250, Deduct</i>	-262.14	
			<i>For >250 To 500, Deduct</i>	-512.40	
			<i>For >500, Deduct</i>	-762.66	
26 51	19 00-0408		Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM) <small>(26 51 19 00-0399)</small>		
			Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51	19 00-0409	EA	5,183 Lumens, 45 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM5L).....	1,749.60	112.51
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-48.43	
			<i>For >100 To 250, Deduct</i>	-92.17	
			<i>For >250 To 500, Deduct</i>	-174.96	
			<i>For >500, Deduct</i>	-257.75	
26 51	19 00-0410	EA	7,095 Lumens, 62 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM7L).....	2,557.33	120.01
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-68.93	
			<i>For >100 To 250, Deduct</i>	-132.87	
			<i>For >250 To 500, Deduct</i>	-255.73	
			<i>For >500, Deduct</i>	-378.60	
26 51	19 00-0411	EA	9,132 Lumens, 79 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM9L).....	2,817.00	127.52
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-75.74	
			<i>For >100 To 250, Deduct</i>	-146.16	
			<i>For >250 To 500, Deduct</i>	-281.70	
			<i>For >500, Deduct</i>	-417.24	
26 51	19 00-0412	EA	11,107 Lumens, 99 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM11L).....	3,228.11	135.01
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-86.33	
			<i>For >100 To 250, Deduct</i>	-167.03	
			<i>For >250 To 500, Deduct</i>	-322.81	
			<i>For >500, Deduct</i>	-478.59	
26 51	19 00-0413		Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2L) <small>(26 51 19 00-0399)</small>		
			Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51	19 00-0414	EA	1,400 Lumens, 25 Watt, Pendant Mount, Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2LC).....	1,227.93	105.02
			<i>For 12/24 Volt DC Driver, Add</i>	25.30	
			<i>For Frosted Lens, Add</i>	51.71	
			<i>For 55 Degree Ambient Suitability (AC Only), Add</i>	34.45	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For Ceiling Mount, Add</i>	78.61	
			<i>For Wall Mount, Add</i>	114.01	
			<i>For Teflon Coated Lens, Add</i>	109.75	
			<i>For Wall Mount With Junction Box, Add</i>	165.62	
			<i>For >50 To 100, Deduct</i>	-35.07	
			<i>For >100 To 250, Deduct</i>	-65.77	
			<i>For >250 To 500, Deduct</i>	-122.79	
			<i>For >500, Deduct</i>	-179.81	
26 51	19 00-0415		Vaportight, LED Fixtures <small>(26 51 19 00-0398)</small>		
26 51	19 00-0416		General Distribution, Vaportight, LED Fixtures (Metalux) <small>(26 51 19 00-0415)</small>		



Electrical	26	
Lighting	26 50	26
Interior Lighting	26 51	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0417	EA	2', 2,000 Lumens, 16 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-G-UNV-L850-CD1-U)	347.35	60.01
		<i>For >50 To 100, Deduct</i>	-11.18	
		<i>For >100 To 250, Deduct</i>	-19.87	
		<i>For >250 To 500, Deduct</i>	-34.74	
		<i>For >500, Deduct</i>	-49.60	
26 51 19 00-0418	EA	2', 3,000 Lumens, 24 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-G-UNV-L850-CD1-U)	362.51	60.01
		<i>For >50 To 100, Deduct</i>	-11.56	
		<i>For >100 To 250, Deduct</i>	-20.63	
		<i>For >250 To 500, Deduct</i>	-36.25	
		<i>For >500, Deduct</i>	-51.88	
26 51 19 00-0419	EA	2', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-G-UNV-L850-CD1-U)	392.85	60.01
		<i>For >50 To 100, Deduct</i>	-12.32	
		<i>For >100 To 250, Deduct</i>	-22.14	
		<i>For >250 To 500, Deduct</i>	-39.29	
		<i>For >500, Deduct</i>	-56.43	
26 51 19 00-0420	EA	4', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-G-UNV-L850-CD1-U)	351.47	75.01
		<i>For >50 To 100, Deduct</i>	-11.91	
		<i>For >100 To 250, Deduct</i>	-20.70	
		<i>For >250 To 500, Deduct</i>	-35.15	
		<i>For >500, Deduct</i>	-49.60	
26 51 19 00-0421	EA	4', 6,000 Lumens, 51 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-G-UNV-L850-CD1-U)	394.97	75.01
		<i>For >50 To 100, Deduct</i>	-13.00	
		<i>For >100 To 250, Deduct</i>	-22.87	
		<i>For >250 To 500, Deduct</i>	-39.50	
		<i>For >500, Deduct</i>	-56.12	
26 51 19 00-0422	EA	4', 8,000 Lumens, 67 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-G-UNV-L850-CD1-U)	554.34	75.01
		<i>For >50 To 100, Deduct</i>	-16.98	
		<i>For >100 To 250, Deduct</i>	-30.84	
		<i>For >250 To 500, Deduct</i>	-55.43	
		<i>For >500, Deduct</i>	-80.03	
26 51 19 00-0423		Wide Distribution, Vaportight, LED Fixtures (Metalux) <small>(26 51 19 00-0415)</small>		
26 51 19 00-0424	EA	2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-W-UNV-L850-CD1-U)	377.68	60.01
		<i>For >50 To 100, Deduct</i>	-11.94	
		<i>For >100 To 250, Deduct</i>	-21.38	
		<i>For >250 To 500, Deduct</i>	-37.77	
		<i>For >500, Deduct</i>	-54.15	
26 51 19 00-0425	EA	2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-W-UNV-L850-CD1-U)	392.85	60.01
		<i>For >50 To 100, Deduct</i>	-12.32	
		<i>For >100 To 250, Deduct</i>	-22.14	
		<i>For >250 To 500, Deduct</i>	-39.29	
		<i>For >500, Deduct</i>	-56.43	
26 51 19 00-0426	EA	2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-W-UNV-L850-CD1-U)	423.18	60.01
		<i>For >50 To 100, Deduct</i>	-13.08	
		<i>For >100 To 250, Deduct</i>	-23.66	
		<i>For >250 To 500, Deduct</i>	-42.32	
		<i>For >500, Deduct</i>	-60.98	
26 51 19 00-0427	EA	4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-W-UNV-L850-CD1-U)	493.68	75.01
		<i>For >50 To 100, Deduct</i>	-15.47	
		<i>For >100 To 250, Deduct</i>	-27.81	
		<i>For >250 To 500, Deduct</i>	-49.37	
		<i>For >500, Deduct</i>	-70.93	
26 51 19 00-0428	EA	4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-W-UNV-L850-CD1-U)	554.34	75.01
		<i>For >50 To 100, Deduct</i>	-16.98	
		<i>For >100 To 250, Deduct</i>	-30.84	
		<i>For >250 To 500, Deduct</i>	-55.43	
		<i>For >500, Deduct</i>	-80.03	
26 51 19 00-0429	EA	4', 8,000 Lumens, 70 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-W-UNV-L850-CD1-U)	615.01	75.01
		<i>For >50 To 100, Deduct</i>	-18.50	
		<i>For >100 To 250, Deduct</i>	-33.88	
		<i>For >250 To 500, Deduct</i>	-61.50	
		<i>For >500, Deduct</i>	-89.13	
26 51 19 00-0430		Parking Garage Distribution, Vaportight, LED Fixtures (Metalux) <small>(26 51 19 00-0415)</small>		
26 51 19 00-0431	EA	2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-P-UNV-L850-CD1-U)	377.68	60.01
		<i>For >50 To 100, Deduct</i>	-11.94	
		<i>For >100 To 250, Deduct</i>	-21.38	
		<i>For >250 To 500, Deduct</i>	-37.77	
		<i>For >500, Deduct</i>	-54.15	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0432	EA	2'	3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-P-UNV-L850-CD1-U).....	394.00	60.01
			<i>For >50 To 100, Deduct</i>	-12.35	
			<i>For >100 To 250, Deduct</i>	-22.20	
			<i>For >250 To 500, Deduct</i>	-39.40	
			<i>For >500, Deduct</i>	-56.60	
26 51 19 00-0433	EA	2'	4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-P-UNV-L850-CD1-U).....	423.18	60.01
			<i>For >50 To 100, Deduct</i>	-13.08	
			<i>For >100 To 250, Deduct</i>	-23.66	
			<i>For >250 To 500, Deduct</i>	-42.32	
			<i>For >500, Deduct</i>	-60.98	
26 51 19 00-0434	EA	4'	4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-P-UNV-L850-CD1-U).....	493.68	75.01
			<i>For >50 To 100, Deduct</i>	-15.47	
			<i>For >100 To 250, Deduct</i>	-27.81	
			<i>For >250 To 500, Deduct</i>	-49.37	
			<i>For >500, Deduct</i>	-70.93	
26 51 19 00-0435	EA	4'	6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-P-UNV-L850-CD1-U).....	554.34	75.01
			<i>For >50 To 100, Deduct</i>	-16.98	
			<i>For >100 To 250, Deduct</i>	-30.84	
			<i>For >250 To 500, Deduct</i>	-55.43	
			<i>For >500, Deduct</i>	-80.03	
26 51 19 00-0436	EA	4'	8,000 Lumens, 69 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-P-UNV-L850-CD1-U).....	615.01	75.01
			<i>For >50 To 100, Deduct</i>	-18.50	
			<i>For >100 To 250, Deduct</i>	-33.88	
			<i>For >250 To 500, Deduct</i>	-61.50	
			<i>For >500, Deduct</i>	-89.13	
26 51 19 00-0437			Ceiling Mounted LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0438			Ceiling Mounted, LED Drum Fixtures (Enertron) <small>(26 51 19 00-0437)</small>		
26 51 19 00-0439	EA	11"	Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X611-30)	143.64	50.00
			<i>For >50 To 100, Deduct</i>	-5.47	
			<i>For >100 To 250, Deduct</i>	-9.06	
			<i>For >250 To 500, Deduct</i>	-14.36	
			<i>For >500, Deduct</i>	-19.67	
26 51 19 00-0440	EA	11"	Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X611-30)	150.45	50.00
			<i>For >50 To 100, Deduct</i>	-5.64	
			<i>For >100 To 250, Deduct</i>	-9.40	
			<i>For >250 To 500, Deduct</i>	-15.05	
			<i>For >500, Deduct</i>	-20.69	
26 51 19 00-0441	EA	11"	Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X611-30)	157.26	50.00
			<i>For >50 To 100, Deduct</i>	-5.81	
			<i>For >100 To 250, Deduct</i>	-9.74	
			<i>For >250 To 500, Deduct</i>	-15.73	
			<i>For >500, Deduct</i>	-21.71	
26 51 19 00-0442	EA	11"	Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X611-30)	164.08	50.00
			<i>For >50 To 100, Deduct</i>	-5.98	
			<i>For >100 To 250, Deduct</i>	-10.08	
			<i>For >250 To 500, Deduct</i>	-16.41	
			<i>For >500, Deduct</i>	-22.74	
26 51 19 00-0443	EA	14"	Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X614-30)	158.20	55.00
			<i>For >50 To 100, Deduct</i>	-6.02	
			<i>For >100 To 250, Deduct</i>	-9.97	
			<i>For >250 To 500, Deduct</i>	-15.82	
			<i>For >500, Deduct</i>	-21.67	
26 51 19 00-0444	EA	14"	Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X614-30)	165.01	55.00
			<i>For >50 To 100, Deduct</i>	-6.19	
			<i>For >100 To 250, Deduct</i>	-10.31	
			<i>For >250 To 500, Deduct</i>	-16.50	
			<i>For >500, Deduct</i>	-22.69	
26 51 19 00-0445	EA	14"	Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X614-30)	171.82	55.00
			<i>For >50 To 100, Deduct</i>	-6.36	
			<i>For >100 To 250, Deduct</i>	-10.65	
			<i>For >250 To 500, Deduct</i>	-17.18	
			<i>For >500, Deduct</i>	-23.71	
26 51 19 00-0446	EA	14"	Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X614-30)	178.63	55.00
			<i>For >50 To 100, Deduct</i>	-6.53	
			<i>For >100 To 250, Deduct</i>	-10.99	
			<i>For >250 To 500, Deduct</i>	-17.86	
			<i>For >500, Deduct</i>	-24.73	
26 51 19 00-0447	EA	14"	Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X614-30)	192.26	55.00
			<i>For >50 To 100, Deduct</i>	-6.87	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-19.23	
			<i>For >500, Deduct</i>	-26.78	
26 51 19 00-0448	EA	11"	Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X611-35)	143.64	50.00
			<i>For >50 To 100, Deduct</i>	-5.47	
			<i>For >100 To 250, Deduct</i>	-9.06	
			<i>For >250 To 500, Deduct</i>	-14.36	
			<i>For >500, Deduct</i>	-19.67	



	Electrical	26
	Lighting	26 50
	Interior Lighting	26 51

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0449	EA	11" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X611-35)	150.45	50.00
			<i>For >50 To 100, Deduct</i>	-5.64	
			<i>For >100 To 250, Deduct</i>	-9.40	
			<i>For >250 To 500, Deduct</i>	-15.05	
			<i>For >500, Deduct</i>	-20.69	
26 51	19 00-0450	EA	11" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X611-35)	157.26	50.00
			<i>For >50 To 100, Deduct</i>	-5.81	
			<i>For >100 To 250, Deduct</i>	-9.74	
			<i>For >250 To 500, Deduct</i>	-15.73	
			<i>For >500, Deduct</i>	-21.71	
26 51	19 00-0451	EA	11" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X611-35)	164.07	50.00
			<i>For >50 To 100, Deduct</i>	-5.98	
			<i>For >100 To 250, Deduct</i>	-10.08	
			<i>For >250 To 500, Deduct</i>	-16.41	
			<i>For >500, Deduct</i>	-22.74	
26 51	19 00-0452	EA	14" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X614-35)	158.20	55.00
			<i>For >50 To 100, Deduct</i>	-6.02	
			<i>For >100 To 250, Deduct</i>	-9.97	
			<i>For >250 To 500, Deduct</i>	-15.82	
			<i>For >500, Deduct</i>	-21.67	
26 51	19 00-0453	EA	14" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X614-35)	165.01	55.00
			<i>For >50 To 100, Deduct</i>	-6.19	
			<i>For >100 To 250, Deduct</i>	-10.31	
			<i>For >250 To 500, Deduct</i>	-16.50	
			<i>For >500, Deduct</i>	-22.69	
26 51	19 00-0454	EA	14" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X614-35)	171.82	55.00
			<i>For >50 To 100, Deduct</i>	-6.36	
			<i>For >100 To 250, Deduct</i>	-10.65	
			<i>For >250 To 500, Deduct</i>	-17.18	
			<i>For >500, Deduct</i>	-23.71	
26 51	19 00-0455	EA	14" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X614-35)	178.63	55.00
			<i>For >50 To 100, Deduct</i>	-6.53	
			<i>For >100 To 250, Deduct</i>	-10.99	
			<i>For >250 To 500, Deduct</i>	-17.86	
			<i>For >500, Deduct</i>	-24.73	
26 51	19 00-0456	EA	14" Diameter, 3,180 Lumens, 24 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED6X614-30)	192.26	55.00
			<i>For >50 To 100, Deduct</i>	-6.87	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-19.23	
			<i>For >500, Deduct</i>	-26.78	
26 51	19 00-0457	EA	11" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X611-40)	143.64	50.00
			<i>For >50 To 100, Deduct</i>	-5.47	
			<i>For >100 To 250, Deduct</i>	-9.06	
			<i>For >250 To 500, Deduct</i>	-14.36	
			<i>For >500, Deduct</i>	-19.67	
26 51	19 00-0458	EA	11" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X611-40)	150.45	50.00
			<i>For >50 To 100, Deduct</i>	-5.64	
			<i>For >100 To 250, Deduct</i>	-9.40	
			<i>For >250 To 500, Deduct</i>	-15.05	
			<i>For >500, Deduct</i>	-20.69	
26 51	19 00-0459	EA	11" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X611-40)	157.26	50.00
			<i>For >50 To 100, Deduct</i>	-5.81	
			<i>For >100 To 250, Deduct</i>	-9.74	
			<i>For >250 To 500, Deduct</i>	-15.73	
			<i>For >500, Deduct</i>	-21.71	
26 51	19 00-0460	EA	11" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X611-40)	164.07	50.00
			<i>For >50 To 100, Deduct</i>	-5.98	
			<i>For >100 To 250, Deduct</i>	-10.08	
			<i>For >250 To 500, Deduct</i>	-16.41	
			<i>For >500, Deduct</i>	-22.74	
26 51	19 00-0461	EA	14" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)	158.20	55.00
			<i>For >50 To 100, Deduct</i>	-6.02	
			<i>For >100 To 250, Deduct</i>	-9.97	
			<i>For >250 To 500, Deduct</i>	-15.82	
			<i>For >500, Deduct</i>	-21.67	
26 51	19 00-0462	EA	14" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40)	165.01	55.00
			<i>For >50 To 100, Deduct</i>	-6.19	
			<i>For >100 To 250, Deduct</i>	-10.31	
			<i>For >250 To 500, Deduct</i>	-16.50	
			<i>For >500, Deduct</i>	-22.69	
26 51	19 00-0463	EA	14" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40)	171.82	55.00
			<i>For >50 To 100, Deduct</i>	-6.36	
			<i>For >100 To 250, Deduct</i>	-10.65	
			<i>For >250 To 500, Deduct</i>	-17.18	
			<i>For >500, Deduct</i>	-23.71	
26 51	19 00-0464	EA	14" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40)	178.63	55.00
			<i>For >50 To 100, Deduct</i>	-6.53	
			<i>For >100 To 250, Deduct</i>	-10.99	
			<i>For >250 To 500, Deduct</i>	-17.86	
			<i>For >500, Deduct</i>	-24.73	
26 51	19 00-0465	EA	14" Diameter, 3,300 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	192.26	55.00
			<i>For >50 To 100, Deduct</i>	-6.87	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-19.23	
			<i>For >500, Deduct</i>	-26.78	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0466	EA	11" Diameter, 560 Lumens, 7 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED1X611-50)	143.64	50.00
			For >50 To 100, Deduct	-5.47	
			For >100 To 250, Deduct	-9.06	
			For >250 To 500, Deduct	-14.36	
			For >500, Deduct	-19.67	
26 51	19 00-0467	EA	11" Diameter, 1,120 Lumens, 10 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED2X611-50)	150.45	50.00
			For >50 To 100, Deduct	-5.64	
			For >100 To 250, Deduct	-9.40	
			For >250 To 500, Deduct	-15.05	
			For >500, Deduct	-20.69	
26 51	19 00-0468	EA	11" Diameter, 1,680 Lumens, 14 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED3X611-50)	157.26	50.00
			For >50 To 100, Deduct	-5.81	
			For >100 To 250, Deduct	-9.74	
			For >250 To 500, Deduct	-15.73	
			For >500, Deduct	-21.71	
26 51	19 00-0469	EA	11" Diameter, 2,240 Lumens, 17 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED4X611-50)	164.07	50.00
			For >50 To 100, Deduct	-5.98	
			For >100 To 250, Deduct	-10.08	
			For >250 To 500, Deduct	-16.41	
			For >500, Deduct	-22.74	
26 51	19 00-0470	EA	14" Diameter, 560 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)	158.20	55.00
			For >50 To 100, Deduct	-6.02	
			For >100 To 250, Deduct	-9.97	
			For >250 To 500, Deduct	-15.82	
			For >500, Deduct	-21.67	
26 51	19 00-0471	EA	14" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40)	165.01	55.00
			For >50 To 100, Deduct	-6.19	
			For >100 To 250, Deduct	-10.31	
			For >250 To 500, Deduct	-16.50	
			For >500, Deduct	-22.69	
26 51	19 00-0472	EA	14" Diameter, 1,680 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40)	171.82	55.00
			For >50 To 100, Deduct	-6.36	
			For >100 To 250, Deduct	-10.65	
			For >250 To 500, Deduct	-17.18	
			For >500, Deduct	-23.71	
26 51	19 00-0473	EA	14" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40)	178.63	55.00
			For >50 To 100, Deduct	-6.53	
			For >100 To 250, Deduct	-10.99	
			For >250 To 500, Deduct	-17.86	
			For >500, Deduct	-24.73	
26 51	19 00-0474	EA	14" Diameter, 3,360 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	192.26	55.00
			For >50 To 100, Deduct	-6.87	
			For >100 To 250, Deduct	-11.68	
			For >250 To 500, Deduct	-19.23	
			For >500, Deduct	-26.78	
26 51	19 00-0475	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-30)	198.46	59.38
			For >50 To 100, Deduct	-7.21	
			For >100 To 250, Deduct	-12.17	
			For >250 To 500, Deduct	-19.85	
			For >500, Deduct	-27.52	
26 51	19 00-0476	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X619-30)	213.94	59.38
			For >50 To 100, Deduct	-7.60	
			For >100 To 250, Deduct	-12.95	
			For >250 To 500, Deduct	-21.39	
			For >500, Deduct	-29.84	
26 51	19 00-0477	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-30)	210.17	59.38
			For >50 To 100, Deduct	-7.50	
			For >100 To 250, Deduct	-12.76	
			For >250 To 500, Deduct	-21.02	
			For >500, Deduct	-29.28	
26 51	19 00-0478	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-30)	210.10	59.38
			For >50 To 100, Deduct	-7.50	
			For >100 To 250, Deduct	-12.76	
			For >250 To 500, Deduct	-21.01	
			For >500, Deduct	-29.26	
26 51	19 00-0479	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	227.57	59.38
			For >50 To 100, Deduct	-7.94	
			For >100 To 250, Deduct	-13.63	
			For >250 To 500, Deduct	-22.76	
			For >500, Deduct	-31.89	
26 51	19 00-0480	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	221.93	59.38
			For >50 To 100, Deduct	-7.80	
			For >100 To 250, Deduct	-13.35	
			For >250 To 500, Deduct	-22.19	
			For >500, Deduct	-31.04	
26 51	19 00-0481	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	245.53	59.38
			For >50 To 100, Deduct	-8.39	
			For >100 To 250, Deduct	-14.53	
			For >250 To 500, Deduct	-24.55	
			For >500, Deduct	-34.58	
26 51	19 00-0482	EA	19" Diameter, 3,820 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-30)	237.85	59.38
			For >50 To 100, Deduct	-8.20	
			For >100 To 250, Deduct	-14.14	
			For >250 To 500, Deduct	-23.79	
			For >500, Deduct	-33.43	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0483 EA 19" Diameter, 4,240 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-30).....	237.91	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.15	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.44	
26 51 19 00-0484 EA 19" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12S19-35).....	198.46	59.38
For >50 To 100, Deduct	-7.21	
For >100 To 250, Deduct	-12.17	
For >250 To 500, Deduct	-19.85	
For >500, Deduct	-27.52	
26 51 19 00-0485 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X619-35).....	213.94	59.38
For >50 To 100, Deduct	-7.60	
For >100 To 250, Deduct	-12.95	
For >250 To 500, Deduct	-21.39	
For >500, Deduct	-29.84	
26 51 19 00-0486 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	210.17	59.38
For >50 To 100, Deduct	-7.50	
For >100 To 250, Deduct	-12.76	
For >250 To 500, Deduct	-21.02	
For >500, Deduct	-29.28	
26 51 19 00-0487 EA 19" Diameter, 1,910 Lumens, 18 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12H19-35).....	210.10	59.38
For >50 To 100, Deduct	-7.50	
For >100 To 250, Deduct	-12.76	
For >250 To 500, Deduct	-21.01	
For >500, Deduct	-29.26	
26 51 19 00-0488 EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	227.57	59.38
For >50 To 100, Deduct	-7.94	
For >100 To 250, Deduct	-13.63	
For >250 To 500, Deduct	-22.76	
For >500, Deduct	-31.89	
26 51 19 00-0489 EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	221.93	59.38
For >50 To 100, Deduct	-7.80	
For >100 To 250, Deduct	-13.35	
For >250 To 500, Deduct	-22.19	
For >500, Deduct	-31.04	
26 51 19 00-0490 EA 19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....	245.53	59.38
For >50 To 100, Deduct	-8.39	
For >100 To 250, Deduct	-14.53	
For >250 To 500, Deduct	-24.55	
For >500, Deduct	-34.58	
26 51 19 00-0491 EA 19" Diameter, 3,820 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12H19-35).....	237.85	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.14	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.43	
26 51 19 00-0492 EA 19" Diameter, 4,240 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X12S19-35).....	237.91	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.15	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.44	
26 51 19 00-0493 EA 19" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-40).....	198.46	59.38
For >50 To 100, Deduct	-7.21	
For >100 To 250, Deduct	-12.17	
For >250 To 500, Deduct	-19.85	
For >500, Deduct	-27.52	
26 51 19 00-0494 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	213.94	59.38
For >50 To 100, Deduct	-7.60	
For >100 To 250, Deduct	-12.95	
For >250 To 500, Deduct	-21.39	
For >500, Deduct	-29.84	
26 51 19 00-0495 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	210.17	59.38
For >50 To 100, Deduct	-7.50	
For >100 To 250, Deduct	-12.76	
For >250 To 500, Deduct	-21.02	
For >500, Deduct	-29.28	
26 51 19 00-0496 EA 19" Diameter, 2,000 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-40).....	210.10	59.38
For >50 To 100, Deduct	-7.50	
For >100 To 250, Deduct	-12.76	
For >250 To 500, Deduct	-21.01	
For >500, Deduct	-29.26	
26 51 19 00-0497 EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	227.57	59.38
For >50 To 100, Deduct	-7.94	
For >100 To 250, Deduct	-13.63	
For >250 To 500, Deduct	-22.76	
For >500, Deduct	-31.89	
26 51 19 00-0498 EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	221.93	59.38
For >50 To 100, Deduct	-7.80	
For >100 To 250, Deduct	-13.35	
For >250 To 500, Deduct	-22.19	
For >500, Deduct	-31.04	
26 51 19 00-0499 EA 19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....	245.53	59.38
For >50 To 100, Deduct	-8.39	
For >100 To 250, Deduct	-14.53	
For >250 To 500, Deduct	-24.55	
For >500, Deduct	-34.58	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0500 EA 19" Diameter, 4,000 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-40).....	237.85	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.14	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.43	
26 51 19 00-0501 EA 19" Diameter, 4,400 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-40).....	237.91	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.15	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.44	
26 51 19 00-0502 EA 19" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-50).....	198.46	59.38
For >50 To 100, Deduct	-7.21	
For >100 To 250, Deduct	-12.17	
For >250 To 500, Deduct	-19.85	
For >500, Deduct	-27.52	
26 51 19 00-0503 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	213.94	59.38
For >50 To 100, Deduct	-7.60	
For >100 To 250, Deduct	-12.95	
For >250 To 500, Deduct	-21.39	
For >500, Deduct	-29.84	
26 51 19 00-0504 EA 19" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-50).....	210.17	59.38
For >50 To 100, Deduct	-7.50	
For >100 To 250, Deduct	-12.76	
For >250 To 500, Deduct	-21.02	
For >500, Deduct	-29.28	
26 51 19 00-0505 EA 19" Diameter, 2,010 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-50).....	210.10	59.38
For >50 To 100, Deduct	-7.50	
For >100 To 250, Deduct	-12.76	
For >250 To 500, Deduct	-21.01	
For >500, Deduct	-29.26	
26 51 19 00-0506 EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	227.57	59.38
For >50 To 100, Deduct	-7.94	
For >100 To 250, Deduct	-13.63	
For >250 To 500, Deduct	-22.76	
For >500, Deduct	-31.89	
26 51 19 00-0507 EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	221.93	59.38
For >50 To 100, Deduct	-7.80	
For >100 To 250, Deduct	-13.35	
For >250 To 500, Deduct	-22.19	
For >500, Deduct	-31.04	
26 51 19 00-0508 EA 19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....	245.53	59.38
For >50 To 100, Deduct	-8.39	
For >100 To 250, Deduct	-14.53	
For >250 To 500, Deduct	-24.55	
For >500, Deduct	-34.58	
26 51 19 00-0509 EA 19" Diameter, 4,020 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-50).....	237.85	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.14	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.43	
26 51 19 00-0510 EA 19" Diameter, 4,480 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-50).....	237.91	59.38
For >50 To 100, Deduct	-8.20	
For >100 To 250, Deduct	-14.15	
For >250 To 500, Deduct	-23.79	
For >500, Deduct	-33.44	
26 51 19 00-0511 Ceiling Mounted, LED Mushroom Fixtures (Mobern) <small>(26 51 19 00-0437)</small>		
26 51 19 00-0512 EA 14" Diameter, 800 Lumens, 12 Watt, LED Ceiling Fixture (Mobern 6814LED12MV30).....	175.64	55.00
For >50 To 100, Deduct	-6.45	
For >100 To 250, Deduct	-10.84	
For >250 To 500, Deduct	-17.56	
For >500, Deduct	-24.28	
26 51 19 00-0513 Ceiling Mounted, LED Fixtures (Sylvania) <small>(26 51 19 00-0437)</small>		
26 51 19 00-0514 EA 12.5" x 12.5" x 2.32" Deep, 4,200 Lumens, 35 Watt, LED Garage Light Fixture (Sylvania GARAG1/035UNVD740/G5/SV/D).....	592.05	59.38
For >50 To 100, Deduct	-17.05	
For >100 To 250, Deduct	-31.85	
For >250 To 500, Deduct	-59.21	
For >500, Deduct	-86.56	
26 51 19 00-0515 EA 2' x 2', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/22G/WH + SMK1A/24A/WH).....	239.32	50.00
For >50 To 100, Deduct	-7.86	
For >100 To 250, Deduct	-13.84	
For >250 To 500, Deduct	-23.93	
For >500, Deduct	-34.02	
26 51 19 00-0516 EA 2' x 4', 32 Watt, 120-277 Volt, 3500K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD835/24G/WH + SMK1A/24A/WH).....	296.24	58.26
For >50 To 100, Deduct	-9.59	
For >100 To 250, Deduct	-17.00	
For >250 To 500, Deduct	-29.62	
For >500, Deduct	-42.25	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0517	EA		2' x 4', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/24G/WH + SMK1T1A/24A/WH).....	299.43	58.26
			<i>For >50 To 100, Deduct</i>	-9.67	
			<i>For >100 To 250, Deduct</i>	-17.16	
			<i>For >250 To 500, Deduct</i>	-29.94	
			<i>For >500, Deduct</i>	-42.73	
26 51 19 00-0518			Refrigeration/Display LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0519			Refrigeration/Display LED Fixtures (Lithonia) <small>(26 51 19 00-0518)</small>		
			Note: Fixtures exclude driver.		
26 51 19 00-0520	EA		5' Length, Center Mount, Refrigeration/Display, Vertical LED Fixture (Lithonia FSV5 CM).....	273.97	58.26
			<i>For >50 To 100, Deduct</i>	-9.04	
			<i>For >100 To 250, Deduct</i>	-15.89	
			<i>For >250 To 500, Deduct</i>	-27.40	
			<i>For >500, Deduct</i>	-38.91	
26 51 19 00-0521	EA		5' Length, Left And Right Mount (Pair), Refrigeration/Display, Vertical LED Fixture (Lithonia FSVDRVL RLEM DLC).....	366.93	103.14
			<i>For >50 To 100, Deduct</i>	-13.08	
			<i>For >100 To 250, Deduct</i>	-22.25	
			<i>For >250 To 500, Deduct</i>	-36.69	
			<i>For >500, Deduct</i>	-51.13	
26 51 19 00-0522	EA		Up To 5 Door Configuration, LED Driver For Refrigeration/Display, Vertical LED Fixtures (Lithonia FSVDRVL).....	335.38	82.51
			<i>For >50 To 100, Deduct</i>	-11.51	
			<i>For >100 To 250, Deduct</i>	-19.89	
			<i>For >250 To 500, Deduct</i>	-33.54	
			<i>For >500, Deduct</i>	-47.18	
26 51 19 00-0523			Pendant Mount, LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0524			Pendant Mount, Circular Architectural LED Fixtures (Delray Lighting) <small>(26 51 19 00-0523)</small>		
26 51 19 00-0525	EA		2,166 Lumens, 2' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 W W35 S).....	2,147.35	127.52
			<i>For >50 To 100, Deduct</i>	-59.00	
			<i>For >100 To 250, Deduct</i>	-112.68	
			<i>For >250 To 500, Deduct</i>	-214.74	
			<i>For >500, Deduct</i>	-316.79	
26 51 19 00-0526	EA		3,250 Lumens, 3' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 W W35 S).....	3,217.66	135.01
			<i>For >50 To 100, Deduct</i>	-86.07	
			<i>For >100 To 250, Deduct</i>	-166.51	
			<i>For >250 To 500, Deduct</i>	-321.77	
			<i>For >500, Deduct</i>	-477.02	
26 51 19 00-0527	EA		4,333 Lumens, 4' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 W W35 S).....	4,096.07	142.52
			<i>For >50 To 100, Deduct</i>	-108.34	
			<i>For >100 To 250, Deduct</i>	-210.74	
			<i>For >250 To 500, Deduct</i>	-409.61	
			<i>For >500, Deduct</i>	-608.47	
26 51 19 00-0528	EA		5,416 Lumens, 5' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 W W35 S).....	5,166.38	150.02
			<i>For >50 To 100, Deduct</i>	-135.41	
			<i>For >100 To 250, Deduct</i>	-264.57	
			<i>For >250 To 500, Deduct</i>	-516.64	
			<i>For >500, Deduct</i>	-768.71	
26 51 19 00-0529	EA		2,166 Lumens, 2' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 S W35 S).....	2,274.23	127.52
			<i>For >50 To 100, Deduct</i>	-62.17	
			<i>For >100 To 250, Deduct</i>	-119.02	
			<i>For >250 To 500, Deduct</i>	-227.42	
			<i>For >500, Deduct</i>	-335.82	
26 51 19 00-0530	EA		3,250 Lumens, 3' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 S W35 S).....	3,385.77	135.01
			<i>For >50 To 100, Deduct</i>	-90.27	
			<i>For >100 To 250, Deduct</i>	-174.91	
			<i>For >250 To 500, Deduct</i>	-338.58	
			<i>For >500, Deduct</i>	-502.24	
26 51 19 00-0531	EA		4,333 Lumens, 4' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 S W35 S).....	4,265.77	142.52
			<i>For >50 To 100, Deduct</i>	-112.58	
			<i>For >100 To 250, Deduct</i>	-219.23	
			<i>For >250 To 500, Deduct</i>	-426.58	
			<i>For >500, Deduct</i>	-633.93	
26 51 19 00-0532	EA		5,416 Lumens, 5' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 S W35 S).....	5,356.69	150.02
			<i>For >50 To 100, Deduct</i>	-140.17	
			<i>For >100 To 250, Deduct</i>	-274.09	
			<i>For >250 To 500, Deduct</i>	-535.67	
			<i>For >500, Deduct</i>	-797.25	
26 51 19 00-0533			Pendant Mount, LED Commercial Fixtures (DMF) <small>(26 51 19 00-0523)</small>		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0534	EA	3,000 Lumens, 18-1/4" Diameter, Pendant Mount, LED Commercial Fixture (DMF DP610LED)	843.43	75.01
			<i>For >50 To 100, Deduct</i>	-24.21	
			<i>For >100 To 250, Deduct</i>	-45.30	
			<i>For >250 To 500, Deduct</i>	-84.34	
			<i>For >500, Deduct</i>	-123.39	
26 51	19 00-0535		LED Track Lighting Fixtures <small>(26 51 19)</small>		
	19 00-0536	EA	19 Watt, Dimmable, LED Track Lighting Fixture (Juno® TRAC-MASTER® Cyindra™)	190.99	22.85
			<i>For >50 To 100, Deduct</i>	-5.63	
			<i>For >100 To 250, Deduct</i>	-10.40	
			<i>For >250 To 500, Deduct</i>	-19.10	
			<i>For >500, Deduct</i>	-27.79	
	19 00-0537	EA	18 Watt, Dimmable, LED Track Lighting Fixture (HALO® Stasis L805MED)	327.52	22.85
			<i>For >50 To 100, Deduct</i>	-9.04	
			<i>For >100 To 250, Deduct</i>	-17.23	
			<i>For >250 To 500, Deduct</i>	-32.75	
			<i>For >500, Deduct</i>	-48.27	
	19 00-0538	EA	24 Watt, Dimmable, LED Track Lighting Fixture (Amerlux CNTRV33)	196.17	22.85
			<i>For >50 To 100, Deduct</i>	-5.76	
			<i>For >100 To 250, Deduct</i>	-10.66	
			<i>For >250 To 500, Deduct</i>	-19.62	
			<i>For >500, Deduct</i>	-28.57	
26 51 23			HID Interior Lighting <small>(26 51)</small>		
	23 00-0001		Large Interior Area Fixtures <small>(26 51 23)</small>		
	23 00-0002		Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small>		
			Note: Cast aluminum socket housing, anodized aluminum reflector, tempered glass or acrylic lens, plaster mounting frames and brackets.		
	23 00-0003		High Pressure Sodium, Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0002)</small>		
	23 00-0004	EA	150 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	440.78	145.86
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
	23 00-0005	EA	250 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	460.41	154.88
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
	23 00-0006	EA	400 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	488.40	176.78
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
	23 00-0007		Metal Halide, Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0002)</small>		
	23 00-0008	EA	150 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture	447.81	145.86
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
	23 00-0009	EA	250 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture	463.38	154.88
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
	23 00-0010	EA	400 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture	498.52	176.78
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
	23 00-0011		Low Bay Fixtures, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small>		
			Note: Heavy duty steel housing, aluminum reflector, tempered glass or acrylic lens. Low bay fixtures are for mounting below 20-25 feet.		
	23 00-0012		High Pressure Sodium, Low Bay Fixtures <small>(26 51 23 00-0011)</small>		
	23 00-0013	EA	150 Watt High Pressure Sodium, Low Bay Fixture	414.53	133.27
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Enclosed And Gasketed, Add</i>	75.47	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
			<i>For Glass Or Acrylic Reflector, Add</i>	90.00	
	23 00-0014	EA	250 Watt High Pressure Sodium, Low Bay Fixture	428.21	141.52
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Enclosed And Gasketed, Add</i>	75.47	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
			<i>For Glass Or Acrylic Reflector, Add</i>	90.00	
	23 00-0015	EA	400 Watt High Pressure Sodium, Low Bay Fixture	459.54	161.52
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Enclosed And Gasketed, Add</i>	75.47	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
			<i>For Glass Or Acrylic Reflector, Add</i>	90.00	
	23 00-0016		Metal Halide, Low Bay Fixtures <small>(26 51 23 00-0011)</small>		
	23 00-0017	EA	175 Watt Metal Halide, Low Bay Fixture	409.53	133.27
			<i>For Wire Guard, Add</i>	40.50	
			<i>For Enclosed And Gasketed, Add</i>	75.47	
			<i>For Instant Quartz Restrike, Add</i>	60.00	
			<i>For Glass Or Acrylic Reflector, Add</i>	90.00	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0018 EA 250 Watt Metal Halide, Low Bay Fixture.....	422.57	141.52
For Wire Guard, Add	40.50	
For Enclosed And Gasketed, Add	75.47	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0019 EA 400 Watt Metal Halide, Low Bay Fixture.....	462.63	161.52
For Wire Guard, Add	40.50	
For Enclosed And Gasketed, Add	75.47	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0020 High Bay Fixtures, Large Interior Area Fixtures (26 51 23 00-0001)		
Note: High bay fixtures are for mounting above 20-25 feet. See CSI section 01 22 23 00-0001 for lifts.		
26 51 23 00-0021 High Pressure Sodium, High Bay Fixtures (26 51 23 00-0020)		
Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0022 EA 250 Watt High Pressure Sodium, High Bay Fixture.....	391.33	141.52
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0023 EA 400 Watt High Pressure Sodium, High Bay Fixture.....	426.55	161.52
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0024 EA 1,000 Watt High Pressure Sodium, High Bay Fixture.....	592.71	169.89
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0025 Metal Halide, High Bay Fixtures (26 51 23 00-0020)		
Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0026 EA 250 Watt Metal Halide, High Bay Fixture.....	368.35	141.52
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0027 EA 400 Watt Metal Halide, High Bay Fixture.....	408.26	161.52
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0028 EA 1,000 Watt Metal Halide, High Bay Fixture.....	512.29	169.89
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0029 Induction, High Bay Fixtures (26 51 23 00-0020)		
26 51 23 00-0030 Induction, High Bay Fixtures (Everlast®) (26 51 23 00-0029)		
Note: Includes die cast aluminum ballast casing and acrylic lens.		
26 51 23 00-0031 EA 100 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC).....	478.23	123.77
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0032 EA 120 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC).....	511.48	127.89
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0033 EA 150 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC).....	521.45	132.02
For Impact Resistant Silicon Lens, Add	20.00	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0034 EA 200 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	565.86	136.15
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0035 EA 250 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	580.50	140.27
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0036 EA 100 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	510.81	123.77
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0037 EA 120 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	544.06	127.89
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0038 EA 150 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	554.03	132.02
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0039 EA 200 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	598.44	136.15
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0040 EA 250 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	613.08	140.27
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0041 Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0001)		
Note: Heavy duty aluminum housing, aluminum reflector, acrylic drop dish lens, fully gasketed.		
26 51 23 00-0042 High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)		
26 51 23 00-0043 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	318.41	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0044 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	584.23	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0045 EA 250 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	668.77	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0046 EA 400 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	887.93	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0047 Metal Halide, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)		
26 51 23 00-0048 EA 100 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	332.85	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0049 EA 175 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	353.65	105.22
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0050 EA 250 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	377.34	113.97
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0051 EA 400 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	421.92	135.74
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0052 High Pressure Sodium, Recessed Fixture Housings (26 51 23)		
26 51 23 00-0053 EA 4" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing	147.33	39.41
For ICAT Housing, Add	11.42	
26 51 23 00-0054 EA 5" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing	153.24	39.41
For ICAT Housing, Add	12.18	
26 51 23 00-0055 EA 6" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing	160.89	41.05
For ICAT Housing, Add	12.81	
26 51 23 00-0056 EA 7" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing	166.85	42.82
For ICAT Housing, Add	13.23	
26 51 23 00-0057 EA 8" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing	172.75	44.61
For ICAT Housing, Add	13.64	
26 51 23 00-0058 EA 10" To 12" Square, High Pressure Sodium, T Or ICT Recessed Fixture Housing	178.43	47.34
For ICAT Housing, Add	13.84	
26 51 23 00-0059 Metal Halide Track Lighting Fixtures (26 51 23)		
26 51 23 00-0060 EA Metal Halide Track Lighting Fixture	94.78	22.85
26 51 23 00-0061 Metal Halide, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)		
26 51 23 00-0062 EA 75 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture	192.15	54.73
For Wall Mounted, Add	6.30	
26 51 23 00-0063 EA 100 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture	197.78	54.73
For Wall Mounted, Add	6.30	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0064 EA 150 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	209.21	54.73
<i>For Wall Mounted, Add</i>	6.30	
26 51 23 00-0065 EA 175 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	226.40	54.73
<i>For Wall Mounted, Add</i>	6.30	
26 51 23 00-0066 High Pressure Sodium, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)		
26 51 23 00-0067 EA 70 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	178.75	54.73
<i>For Wall Mounted, Add</i>	6.67	
26 51 23 00-0068 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	185.74	54.73
<i>For Wall Mounted, Add</i>	6.67	
26 51 23 00-0069 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	212.77	54.73
<i>For Wall Mounted, Add</i>	6.67	
26 51 33 Interior Lighting Accessories (26 51)		
26 51 33 00-0001 Accessories And Modifiers For Fixtures (26 51 33)		
26 51 33 00-0002 Lens Modifications (26 51 33 00-0001)		
26 51 33 00-0003 EA For 1' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	30.21	
26 51 33 00-0004 EA For 1' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	37.32	
26 51 33 00-0005 EA For 2' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	39.10	
26 51 33 00-0006 EA For 2' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	42.65	
26 51 33 00-0007 EA For 4' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	51.54	
26 51 33 00-0008 EA For 1' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	12.44	
26 51 33 00-0009 EA For 1' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	17.77	
26 51 33 00-0010 EA For 2' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	19.55	
26 51 33 00-0011 EA For 2' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	23.10	
26 51 33 00-0012 Pendant Mounting Modifications (26 51 33 00-0001)		
Note: Per pendant. Use demolition cost for associated light fixture for demolition of pendant mounted light fixture assembly.		
26 51 33 00-0013 EA For Pendant Mounting Up to 1'-6" Long Section.....	13.51	
Note: Per pendant.		
26 51 33 00-0014 EA For Pendant Mounting 2' Long Section.....	15.64	
Note: Per pendant.		
26 51 33 00-0015 EA For Pendant Mounting 3' Long Section.....	20.01	
Note: Per pendant.		
26 51 33 00-0016 EA For Pendant Mounting 4' Long Section.....	23.64	
Note: Per pendant.		
26 51 33 00-0017 EA For Pendant Mounting 6' Long Section.....	29.86	
Note: Per pendant.		
26 51 33 00-0018 EA For Pendant Mounting 8' Long Section.....	40.52	
Note: Per pendant.		
26 51 33 00-0019 Fluorescent Light Accessories (26 51 33 00-0001)		
26 51 33 00-0020 EA Blank Metal Light Box Plate.....	24.28	
26 51 33 00-0021 EA Factory Installed Fixture Mounted Occupancy Sensor.....	136.82	
26 51 33 00-0022 Wire Guards (26 51 33 00-0001)		
26 51 33 00-0023 EA Wire Guard for 6" x 2' Fixture.....	61.22	6.85
26 51 33 00-0024 EA Wire Guard for 6" x 4' Fixture.....	86.53	10.96
26 51 33 00-0025 EA Wire Guard for 1" x 2' Fixture.....	68.28	7.54
26 51 33 00-0026 EA Wire Guard for 1" x 4' Fixture.....	97.41	11.65
26 51 33 00-0027 EA Wire Guard for 2" x 2' Fixture.....	82.96	8.22
26 51 33 00-0028 EA Wire Guard for 2" x 4' Fixture.....	113.97	12.33
26 51 33 00-0029 Lighting Accessories (26 51 33)		
26 51 33 00-0030 Modular Flexible Wiring Systems (26 51 33 00-0029)		
26 51 33 00-0031 EA 10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10).....	90.25	7.38
26 51 33 00-0032 EA 15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15).....	103.74	7.38
26 51 33 00-0033 EA 20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20).....	124.40	7.38
26 51 33 00-0034 EA 15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15).....	103.74	7.38
26 51 33 00-0035 EA 3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E).....	93.23	7.38
26 51 33 00-0036 EA 13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13).....	134.84	7.38
26 51 33 00-0037 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M).....	75.82	7.38
26 51 33 00-0038 EA 3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E).....	85.02	7.38
26 51 33 00-0039 EA 7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07).....	106.51	7.38
26 51 33 00-0040 EA 7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07).....	106.51	7.38
26 51 33 00-0041 EA 7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07).....	108.24	7.38
26 51 33 00-0042 EA 7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07).....	107.60	7.38
26 51 33 00-0043 EA 7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07).....	107.60	7.38
26 51 33 00-0044 EA 15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15).....	123.09	7.38

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 33 00-0045 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D).....	58.66	7.38
26 51 33 00-0046 EA 3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E).....	55.04	7.38
26 51 33 00-0047 EA 3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E).....	56.30	7.38
26 51 33 00-0048 EA 3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E).....	69.70	7.38
26 51 33 00-0049 EA 15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15).....	90.25	7.38
26 51 33 00-0050 EA 15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15).....	92.44	7.38
26 51 33 00-0051 EA Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E).....	73.03	7.38
26 51 33 00-0052 EA 3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E).....	55.04	7.38
26 51 33 00-0053 EA Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning.....	61.57	
26 51 33 00-0054 Additional Lighting Wire Whips (26 51 33)		
26 51 33 00-0055 LF For Each Additional LF Of Interior Lighting Wire Whip, Add.....	1.48	
Note: Wire whips are included with interior lighting fixtures, where necessary, up to six feet in length. Use this task for additional required whip length. For example, if the fixture requires a 15' wire whip then use 9 LF of this task to reach required length.		
26 51 33 00-0056 Removal And Reinstallation Of Light Fixtures (26 51 33)		
Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.		
26 51 33 00-0057 EA Removal And Reinstallation Of Lay-In Fluorescent Light Fixture.....	145.65	
26 51 33 00-0058 EA Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture.....	166.44	
26 52 Safety Lighting (26 50)		
26 52 13 Emergency and Exit Lighting (26 52)		
26 52 13 13 Emergency Lighting (26 52 13)		
26 52 13 13-0001 Commercial Emergency Lights (26 52 13 13)		
26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED).....	217.46	34.21
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2).....	154.82	34.21
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618).....	236.79	34.21
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627).....	273.91	34.21
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654).....	401.45	34.21
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254).....	453.22	34.21
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272).....	654.93	34.21
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0010 Remote Heads For Commercial Emergency Lights (26 52 13 13-0001)		
Note: For use with fixtures that have remote capability.		
26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	146.06	20.52
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	146.99	20.52
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	150.12	20.52
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	149.62	20.52
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	130.39	20.52
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	92.22	20.52
26 52 13 13-0017 Industrial Emergency Lights (26 52 13 13)		
26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	373.28	34.21
For Wireguard, Add	183.43	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0021	EA		24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24).....	315.35	34.21
			<i>For Wireguard, Add</i>	183.43	
26 52 13 13-0022	EA		36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36).....	484.64	34.21
			<i>For Wireguard, Add</i>	183.43	
26 52 13 13-0023	EA		50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	513.86	34.21
			<i>For Wireguard, Add</i>	183.43	
26 52 13 13-0024	EA		125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	728.11	34.21
			<i>For Wireguard, Add</i>	195.37	
26 52 13 13-0025	EA		275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	1,137.99	34.21
			<i>For Wireguard, Add</i>	195.37	
26 52 13 13-0026			Remote Heads For Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0018)</small>		
			Note: For use with fixtures that have remote capability.		
26 52 13 13-0027	EA		8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	114.22	20.52
			<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0028	EA		12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	117.86	20.52
			<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0029	EA		8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....	114.73	20.52
			<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0030	EA		12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	115.32	20.52
			<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0031	EA		12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	117.86	20.52
			<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0032	EA		12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	136.32	20.52
			<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0033			Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0017)</small>		
26 52 13 13-0034			Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035	EA		18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618).....	368.62	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0036	EA		36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	399.53	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0037	EA		54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	391.06	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0038	EA		54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	412.66	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0039	EA		100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	686.19	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0040	EA		18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....	541.80	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0041	EA		36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	605.32	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0042	EA		54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	637.50	34.21
			<i>For Wireguard, Add</i>	178.35	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0043			Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
			Note: For use with fixtures that have remote capability.		
26 52 13 13-0044	EA		9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	100.25	20.52

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0045	EA		12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	107.61	20.52
26 52 13 13-0046	EA		9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	100.33	20.52
26 52 13 13-0047	EA		12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	105.75	20.52
26 52 13 13-0048	EA		12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	91.83	20.52
26 52 13 13-0049			Outdoor Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0050			Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights <small>(26 52 13 13-0049)</small>		
			Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051	EA		10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	572.71	34.21
26 52 13 13-0052	EA		10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	680.69	34.21
26 52 13 13-0053			Recessed Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0054	EA		10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	621.92	34.21
			<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055	EA		16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	509.63	68.41
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	195.37	
26 52 13 13-0056	EA		50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	718.90	68.41
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	195.37	
26 52 13 13-0057			Square Wraparound Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0058	EA		10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....	291.86	34.21
26 52 13 16			Exit Signs <small>(26 52 13)</small>		
			Note: Excludes pendants.		
26 52 13 16-0001			LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0002	EA		Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	185.77	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-7.14	
			<i>For >100 To 250, Deduct</i>	-11.79	
			<i>For >250 To 500, Deduct</i>	-18.58	
			<i>For >500, Deduct</i>	-25.37	
26 52 13 16-0003	EA		Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	185.77	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-7.14	
			<i>For >100 To 250, Deduct</i>	-11.79	
			<i>For >250 To 500, Deduct</i>	-18.58	
			<i>For >500, Deduct</i>	-25.37	
26 52 13 16-0004	EA		Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	249.91	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-8.75	
			<i>For >100 To 250, Deduct</i>	-15.00	
			<i>For >250 To 500, Deduct</i>	-24.99	
			<i>For >500, Deduct</i>	-34.99	
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	249.91	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-8.75	
			<i>For >100 To 250, Deduct</i>	-15.00	
			<i>For >250 To 500, Deduct</i>	-24.99	
			<i>For >500, Deduct</i>	-34.99	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	272.83	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-9.32	
			<i>For >100 To 250, Deduct</i>	-16.14	
			<i>For >250 To 500, Deduct</i>	-27.28	
			<i>For >500, Deduct</i>	-38.42	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	306.26	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-10.16	
			<i>For >100 To 250, Deduct</i>	-17.81	
			<i>For >250 To 500, Deduct</i>	-30.63	
			<i>For >500, Deduct</i>	-43.44	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	258.85	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-8.97	
			<i>For >100 To 250, Deduct</i>	-15.44	
			<i>For >250 To 500, Deduct</i>	-25.89	
			<i>For >500, Deduct</i>	-36.33	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN)	283.12	50.01
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-9.58	
			<i>For >100 To 250, Deduct</i>	-16.66	
			<i>For >250 To 500, Deduct</i>	-28.31	
			<i>For >500, Deduct</i>	-39.97	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM)	331.62	50.01
			Note: Includes two circular side mounted krypton emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-11.71	
			<i>For >100 To 250, Deduct</i>	-20.00	
			<i>For >250 To 500, Deduct</i>	-33.16	
			<i>For >500, Deduct</i>	-46.32	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED)	313.33	50.01
			Note: Includes two circular side mounted LED emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-11.25	
			<i>For >100 To 250, Deduct</i>	-19.09	
			<i>For >250 To 500, Deduct</i>	-31.33	
			<i>For >500, Deduct</i>	-43.58	
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH)	407.53	50.01
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-13.61	
			<i>For >100 To 250, Deduct</i>	-23.80	
			<i>For >250 To 500, Deduct</i>	-40.75	
			<i>For >500, Deduct</i>	-57.71	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	425.15	50.01
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-14.05	
			<i>For >100 To 250, Deduct</i>	-24.68	
			<i>For >250 To 500, Deduct</i>	-42.52	
			<i>For >500, Deduct</i>	-60.35	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	131.74	50.01
			<i>For >50 To 100, Deduct</i>	-5.79	
			<i>For >100 To 250, Deduct</i>	-9.09	
			<i>For >250 To 500, Deduct</i>	-13.17	
			<i>For >500, Deduct</i>	-17.26	
26 52 13 16-0015	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R)	132.15	50.08
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100 To 250, Deduct</i>	-9.11	
			<i>For >250 To 500, Deduct</i>	-13.22	
			<i>For >500, Deduct</i>	-17.32	
26 52 13 16-0016			Edge-Lit LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0017	EA		Single Face, Edge-Lit LED Exit Sign	370.87	50.01
			<i>For Green LED Lamps, Add</i>	40.00	
			<i>For >50 To 100, Deduct</i>	-11.77	
			<i>For >100 To 250, Deduct</i>	-21.04	
			<i>For >250 To 500, Deduct</i>	-37.09	
			<i>For >500, Deduct</i>	-53.13	
26 52 13 16-0018	EA		Double Face, Edge-Lit LED Exit Sign.....	396.35	50.01
			<i>For Green LED Lamps, Add</i>	40.00	
			<i>For >50 To 100, Deduct</i>	-12.41	
			<i>For >100 To 250, Deduct</i>	-22.32	
			<i>For >250 To 500, Deduct</i>	-39.64	
			<i>For >500, Deduct</i>	-56.95	
26 52 13 16-0019	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up	449.54	50.01
			<i>For Green LED Lamps, Add</i>	40.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-13.74	
			<i>For >100 To 250, Deduct</i>	-24.98	
			<i>For >250 To 500, Deduct</i>	-44.95	
			<i>For >500, Deduct</i>	-64.93	
26 52 13 16-0020	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	468.31	50.01
			<i>For Green LED Lamps, Add</i>	40.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-14.21	
			<i>For >100 To 250, Deduct</i>	-25.92	
			<i>For >250 To 500, Deduct</i>	-46.83	
			<i>For >500, Deduct</i>	-67.75	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 52 13 16-0021 Self-Luminous Tritium Exit Signs <small>(26 52 13 16)</small>				
Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.				
26 52 13 16-0022	EA	10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	496.35	50.01
		For >50 To 100, Deduct	-14.91	
		For >100 To 250, Deduct	-27.32	
		For >250 To 500, Deduct	-49.64	
		For >500, Deduct	-71.95	
26 52 13 16-0023	EA	10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	892.25	50.01
		For >50 To 100, Deduct	-24.81	
		For >100 To 250, Deduct	-47.11	
		For >250 To 500, Deduct	-89.23	
		For >500, Deduct	-131.34	
26 52 13 16-0024	EA	20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	586.54	50.01
		For >50 To 100, Deduct	-17.16	
		For >100 To 250, Deduct	-31.83	
		For >250 To 500, Deduct	-58.65	
		For >500, Deduct	-85.48	
26 52 13 16-0025	EA	20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	964.66	50.01
		For >50 To 100, Deduct	-26.62	
		For >100 To 250, Deduct	-50.73	
		For >250 To 500, Deduct	-96.47	
		For >500, Deduct	-142.20	
26 52 13 16-0026	EA	10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	541.23	50.01
		For >50 To 100, Deduct	-16.03	
		For >100 To 250, Deduct	-29.56	
		For >250 To 500, Deduct	-54.12	
		For >500, Deduct	-78.68	
26 52 13 16-0027	EA	10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	964.66	50.01
		For >50 To 100, Deduct	-26.62	
		For >100 To 250, Deduct	-50.73	
		For >250 To 500, Deduct	-96.47	
		For >500, Deduct	-142.20	
26 52 13 16-0028	EA	20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	658.52	50.01
		For >50 To 100, Deduct	-18.96	
		For >100 To 250, Deduct	-35.43	
		For >250 To 500, Deduct	-65.85	
		For >500, Deduct	-96.28	
26 52 13 16-0029	EA	20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	1,191.62	50.01
		For >50 To 100, Deduct	-32.29	
		For >100 To 250, Deduct	-62.08	
		For >250 To 500, Deduct	-119.16	
		For >500, Deduct	-176.24	
26 52 13 16-0030 Vandal-Resistant LED Exit Signs <small>(26 52 13 16)</small>				
Note: Includes red LED lamps.				
26 52 13 16-0031	EA	Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign	469.67	50.01
		For >50 To 100, Deduct	-14.24	
		For >100 To 250, Deduct	-25.98	
		For >250 To 500, Deduct	-46.97	
		For >500, Deduct	-67.95	
26 52 13 16-0032	EA	Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup	714.84	50.01
		For >50 To 100, Deduct	-20.37	
		For >100 To 250, Deduct	-38.24	
		For >250 To 500, Deduct	-71.48	
		For >500, Deduct	-104.73	
26 52 13 16-0033	EA	Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup	865.15	50.01
		For >50 To 100, Deduct	-24.13	
		For >100 To 250, Deduct	-45.76	
		For >250 To 500, Deduct	-86.52	
		For >500, Deduct	-127.27	
26 52 13 16-0034 Removal And Reinstallation Of Exit Light Fixture <small>(26 52 13 16)</small>				
26 52 13 16-0035	EA	Removal And Reinstall Of Exit Light Fixtures	102.62	
		Note: Includes storage and cleaning.		
		For >50 To 100, Deduct	-5.13	
		For >100 To 250, Deduct	-7.70	
		For >250 To 500, Deduct	-10.26	
		For >500, Deduct	-12.83	
26 52 13 16-0036 Exit Sign Accessories <small>(26 52 13 16)</small>				
26 52 13 16-0037	EA	Polycarbonate Vandal Shield For Exit Signs	112.07	13.71
		For >50 To 100, Deduct	-3.49	
		For >100 To 250, Deduct	-6.29	
		For >250 To 500, Deduct	-11.21	
		For >500, Deduct	-16.13	
26 52 13 16-0038	EA	Wire Guard For Exit Signs Or Emergency Lights	68.30	13.71
		For >50 To 100, Deduct	-2.39	
		For >100 To 250, Deduct	-4.10	
		For >250 To 500, Deduct	-6.83	
		For >500, Deduct	-9.56	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0039	EA		Wire Guard For Combination Exit Sign And Emergency Light.....	103.71	10.96
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100 To 250, Deduct</i>	-5.73	
			<i>For >250 To 500, Deduct</i>	-10.37	
			<i>For >500, Deduct</i>	-15.01	
26 52 13 16-0040	EA		Removal And Replacement Of Battery For Exit Signs.....	113.77	
			<i>For >50 To 100, Deduct</i>	-3.70	
			<i>For >100 To 250, Deduct</i>	-6.55	
			<i>For >250 To 500, Deduct</i>	-11.38	
			<i>For >500, Deduct</i>	-16.21	

26 54 Classified Location Lighting (26 50)

26 54 19 LED Classified Location Lighting (26 54)

26 54 19 00-0001 Class I Division 2, Hazardous Location, LED Fixtures (26 54 19)

26 54 19 00-0002 Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV) (26 54 19 00-0001)

Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.

26 54 19 00-0003	EA		5,183 Lumens, 45 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV5L).....	2,361.44	112.51
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-63.72	
			<i>For >100 To 250, Deduct</i>	-122.76	
			<i>For >250 To 500, Deduct</i>	-236.14	
			<i>For >500, Deduct</i>	-349.53	
26 54 19 00-0004	EA		7,095 Lumens, 62 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV7L).....	2,886.79	120.01
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-77.17	
			<i>For >100 To 250, Deduct</i>	-149.34	
			<i>For >250 To 500, Deduct</i>	-288.68	
			<i>For >500, Deduct</i>	-428.02	
26 54 19 00-0005	EA		9,132 Lumens, 79 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV9L).....	3,258.33	127.52
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-86.77	
			<i>For >100 To 250, Deduct</i>	-168.23	
			<i>For >250 To 500, Deduct</i>	-325.83	
			<i>For >500, Deduct</i>	-483.44	
26 54 19 00-0006	EA		11,107 Lumens, 99 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV11L).....	3,640.09	135.01
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-96.63	
			<i>For >100 To 250, Deduct</i>	-187.63	
			<i>For >250 To 500, Deduct</i>	-364.01	
			<i>For >500, Deduct</i>	-540.39	

26 54 19 00-0007 Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC) (26 54 19 00-0001)

Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.

26 54 19 00-0008	EA		1,600 Lumens, 25 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC).....	1,407.93	105.02
			<i>For 12/24 Volt DC Driver, Add</i>	25.30	
			<i>For Frosted Lens, Add</i>	51.71	
			<i>For Warm White Color Temperature LEDs, Add</i>	66.57	
			<i>For 55 Degree Ambient Suitability (AC Only) Option, Add</i>	34.45	
			<i>For Stanchion Mount, Add</i>	213.31	
			<i>For Ceiling Mount, Add</i>	85.54	
			<i>For Wall Mount, Add</i>	124.86	
			<i>For Teflon Coated Lens, Add</i>	109.75	
			<i>For Wall Mount With Junction Box, Add</i>	182.31	
			<i>For >50 To 100, Deduct</i>	-39.57	
			<i>For >100 To 250, Deduct</i>	-74.77	
			<i>For >250 To 500, Deduct</i>	-140.79	
			<i>For >500, Deduct</i>	-206.81	

26	Electrical
26 50	Lighting
26 54	Classified Location Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0009		Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV) <small>(26 54 19 00-0001)</small> Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0010	EA	3,240 Lumens, 47 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV3L)	2,219.10	105.02
		<i>For Ceiling Mount, Add</i>	16.37	
		<i>For Quick Clip Mounting Option, Add</i>	24.05	
		<i>For Frosted Lens, Add</i>	51.71	
		<i>For Warm White Color Rendering, Add</i>	66.57	
		<i>For Polycarbonate Lens, Add</i>	95.84	
		<i>For 480 Volt, Add</i>	156.78	
		<i>For >50 To 100, Deduct</i>	-59.85	
		<i>For >100 To 250, Deduct</i>	-115.33	
		<i>For >250 To 500, Deduct</i>	-221.91	
		<i>For >500, Deduct</i>	-328.49	
26 54 19 00-0011	EA	3,778 Lumens, 63 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV5L)	2,456.89	112.51
		<i>For Ceiling Mount, Add</i>	16.37	
		<i>For Quick Clip Mounting Option, Add</i>	24.05	
		<i>For Frosted Lens, Add</i>	51.71	
		<i>For Warm White Color Rendering, Add</i>	66.57	
		<i>For Polycarbonate Lens, Add</i>	95.84	
		<i>For 480 Volt, Add</i>	156.78	
		<i>For >50 To 100, Deduct</i>	-66.11	
		<i>For >100 To 250, Deduct</i>	-127.53	
		<i>For >250 To 500, Deduct</i>	-245.69	
		<i>For >500, Deduct</i>	-363.85	
26 54 19 00-0012	EA	6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV7L)	2,751.21	120.01
		<i>For Ceiling Mount, Add</i>	16.37	
		<i>For Quick Clip Mounting Option, Add</i>	24.05	
		<i>For Frosted Lens, Add</i>	51.71	
		<i>For Warm White Color Rendering, Add</i>	66.57	
		<i>For Polycarbonate Lens, Add</i>	95.84	
		<i>For 480 Volt, Add</i>	156.78	
		<i>For >50 To 100, Deduct</i>	-73.78	
		<i>For >100 To 250, Deduct</i>	-142.56	
		<i>For >250 To 500, Deduct</i>	-275.12	
		<i>For >500, Deduct</i>	-407.68	
26 54 19 00-0013	EA	6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV9L)	3,575.78	127.52
		<i>For Ceiling Mount, Add</i>	16.37	
		<i>For Quick Clip Mounting Option, Add</i>	24.05	
		<i>For Frosted Lens, Add</i>	51.71	
		<i>For Warm White Color Rendering, Add</i>	66.57	
		<i>For Polycarbonate Lens, Add</i>	95.84	
		<i>For 480 Volt, Add</i>	156.78	
		<i>For >50 To 100, Deduct</i>	-94.71	
		<i>For >100 To 250, Deduct</i>	-184.10	
		<i>For >250 To 500, Deduct</i>	-357.58	
		<i>For >500, Deduct</i>	-531.05	
26 54 19 00-0014	EA	9,720 Lumens, 137 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV11L).....	4,099.25	135.01
		<i>For Ceiling Mount, Add</i>	16.37	
		<i>For Quick Clip Mounting Option, Add</i>	24.05	
		<i>For Frosted Lens, Add</i>	51.71	
		<i>For Warm White Color Rendering, Add</i>	66.57	
		<i>For Polycarbonate Lens, Add</i>	95.84	
		<i>For 480 Volt, Add</i>	156.78	
		<i>For >50 To 100, Deduct</i>	-108.11	
		<i>For >100 To 250, Deduct</i>	-210.59	
		<i>For >250 To 500, Deduct</i>	-409.93	
		<i>For >500, Deduct</i>	-609.26	
26 54 19 00-0015		Class I Division 1, Explosion Proof, LED Fixtures <small>(26 54 19)</small>		
26 54 19 00-0016		Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL) <small>(26 54 19 00-0015)</small> Note: Includes 5,600K CRI LED arrays, shatter resistant and explosion proof glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0017	EA	5,625 Lumens, 80 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL5L).....	3,135.92	112.51
		<i>For Wall Mount, Deduct</i>	-11.76	
		<i>For Warm Color Temperature LEDs, Add</i>	63.40	
		<i>For Stainless Steel Guard, Add</i>	113.80	
		<i>For Ceiling Mount, Add</i>	137.28	
		<i>For Stanchion Mount, Add</i>	159.77	
		<i>For Yoke Mount, Add</i>	399.42	
		<i>For >50 To 100, Deduct</i>	-83.09	
		<i>For >100 To 250, Deduct</i>	-161.48	
		<i>For >250 To 500, Deduct</i>	-313.59	
		<i>For >500, Deduct</i>	-465.70	



Electrical	26	
Lighting	26 50	26
Classified Location Lighting	26 54	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0018	EA		6,750 Lumens, 100 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL7L).....	3,804.65	120.01
			<i>For Wall Mount, Deduct</i>	-11.76	
			<i>For Warm Color Temperature LEDs, Add</i>	63.40	
			<i>For Stainless Steel Guard, Add</i>	113.80	
			<i>For Ceiling Mount, Add</i>	137.28	
			<i>For Stanchion Mount, Add</i>	159.77	
			<i>For Yoke Mount, Add</i>	399.42	
			<i>For >50 To 100, Deduct</i>	-100.12	
			<i>For >100 To 250, Deduct</i>	-195.23	
			<i>For >250 To 500, Deduct</i>	-380.47	
			<i>For >500, Deduct</i>	-565.70	
26 54 19 00-0019	EA		9,000 Lumens, 130 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL9L).....	4,413.82	127.52
			<i>For Wall Mount, Deduct</i>	-11.76	
			<i>For Warm Color Temperature LEDs, Add</i>	63.40	
			<i>For Stainless Steel Guard, Add</i>	113.80	
			<i>For Ceiling Mount, Add</i>	137.28	
			<i>For Stanchion Mount, Add</i>	159.77	
			<i>For Yoke Mount, Add</i>	399.42	
			<i>For >50 To 100, Deduct</i>	-115.66	
			<i>For >100 To 250, Deduct</i>	-226.00	
			<i>For >250 To 500, Deduct</i>	-441.38	
			<i>For >500, Deduct</i>	-656.76	
26 54 19 00-0020	EA		10,500 Lumens, 151 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL11L).....	5,034.10	135.01
			<i>For Wall Mount, Deduct</i>	-11.76	
			<i>For Warm Color Temperature LEDs, Add</i>	63.40	
			<i>For Stainless Steel Guard, Add</i>	113.80	
			<i>For Ceiling Mount, Add</i>	137.28	
			<i>For Stanchion Mount, Add</i>	159.77	
			<i>For Yoke Mount, Add</i>	399.42	
			<i>For >50 To 100, Deduct</i>	-131.48	
			<i>For >100 To 250, Deduct</i>	-257.33	
			<i>For >250 To 500, Deduct</i>	-503.41	
			<i>For >500, Deduct</i>	-749.49	
26 54 19 00-0021	EA		13,500 Lumens, 175 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL13L).....	5,826.17	130.01
			<i>For Wall Mount, Deduct</i>	-11.76	
			<i>For Warm Color Temperature LEDs, Add</i>	63.40	
			<i>For Stainless Steel Guard, Add</i>	113.80	
			<i>For Ceiling Mount, Add</i>	137.28	
			<i>For Stanchion Mount, Add</i>	159.77	
			<i>For Yoke Mount, Add</i>	399.42	
			<i>For >50 To 100, Deduct</i>	-151.59	
			<i>For >100 To 250, Deduct</i>	-297.25	
			<i>For >250 To 500, Deduct</i>	-582.62	
			<i>For >500, Deduct</i>	-867.99	

26 55 Special Purpose Lighting (26 50)

26 55 13 Landscape Lighting (26 55)

26 55 13 00-0001			Bollards (26 55 13) Note: Excludes concrete base.		
26 55 13 00-0002			Aluminum Architectural Bollards (26 55 13 00-0001)		
26 55 13 00-0003			High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0004			Square, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0005	EA		24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,338.49	116.31
26 55 13 00-0006	EA		30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,352.17	123.14
26 55 13 00-0007	EA		36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,365.85	129.98
26 55 13 00-0008	EA		42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,272.75	136.83
26 55 13 00-0009	EA		24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,338.49	116.31
26 55 13 00-0010	EA		30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,352.17	123.14
26 55 13 00-0011	EA		36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,365.85	129.98
26 55 13 00-0012	EA		42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,272.75	136.83
26 55 13 00-0013	EA		24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,338.49	116.31
26 55 13 00-0014	EA		30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,352.17	123.14
26 55 13 00-0015	EA		36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,365.85	129.98
26 55 13 00-0016	EA		42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,272.75	136.83
26 55 13 00-0017	EA		24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,338.49	116.31
26 55 13 00-0018	EA		30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,352.17	123.14
26 55 13 00-0019	EA		36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,365.85	129.98
26 55 13 00-0020	EA		42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,272.75	136.83
26 55 13 00-0021			Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0022	EA		24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,289.45	116.31
26 55 13 00-0023	EA		30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,303.13	123.14
26 55 13 00-0024	EA		36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,316.81	129.98
26 55 13 00-0025	EA		42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,223.26	136.83
26 55 13 00-0026	EA		24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,289.45	116.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0027 EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0028 EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0029 EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83
26 55 13 00-0030 EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,289.45	116.31
26 55 13 00-0031 EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0032 EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0033 EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83
26 55 13 00-0034 EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,289.45	116.31
26 55 13 00-0035 EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0036 EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0037 EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83
26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,402.16	116.31
26 55 13 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,415.84	123.14
26 55 13 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,429.52	129.98
26 55 13 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,335.97	136.83
26 55 13 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,402.16	116.31
26 55 13 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,415.84	123.14
26 55 13 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,429.52	129.98
26 55 13 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,335.97	136.83
26 55 13 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,402.16	116.31
26 55 13 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,415.84	123.14
26 55 13 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,429.52	129.98
26 55 13 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,389.26	136.83
26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,352.68	116.31
26 55 13 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,366.36	123.14
26 55 13 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,380.04	129.98
26 55 13 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,286.49	136.83
26 55 13 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,352.68	116.31
26 55 13 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,366.36	123.14
26 55 13 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,380.04	129.98
26 55 13 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,286.49	136.83
26 55 13 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,352.68	116.31
26 55 13 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,366.36	123.14
26 55 13 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,380.04	129.98
26 55 13 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,286.49	136.83
26 55 13 00-0065 Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,332.90	116.31
26 55 13 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,346.58	123.14
26 55 13 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,360.26	129.98
26 55 13 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,268.17	136.83
26 55 13 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,332.90	116.31
26 55 13 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,346.58	123.14
26 55 13 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,360.26	129.98
26 55 13 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,268.17	136.83
26 55 13 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,332.90	116.31
26 55 13 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,346.58	123.14
26 55 13 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,360.26	129.98
26 55 13 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,268.17	136.83
26 55 13 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,284.50	116.31
26 55 13 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,298.18	123.14
26 55 13 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,311.86	129.98
26 55 13 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,220.70	136.83
26 55 13 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,284.50	116.31
26 55 13 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,298.18	123.14
26 55 13 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,311.86	129.98
26 55 13 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,220.70	136.83
26 55 13 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,284.50	116.31
26 55 13 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,298.18	123.14
26 55 13 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,311.86	129.98
26 55 13 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,220.70	136.83
26 55 13 00-0092 LED, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0093 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,584.24	116.31



Electrical	26	
Lighting	26 50	26
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,597.92	123.14
26 55 13 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,611.60	129.98
26 55 13 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,520.85	136.83
26 55 13 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	1,921.22	116.31
26 55 13 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	1,934.90	123.14
26 55 13 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	1,948.58	129.98
26 55 13 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	1,856.15	136.83
26 55 13 00-0102 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,533.97	116.31
26 55 13 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,547.65	123.14
26 55 13 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,561.33	129.98
26 55 13 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,468.90	136.83
26 55 13 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,870.95	116.31
26 55 13 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,884.63	123.14
26 55 13 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,898.31	129.98
26 55 13 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,806.48	136.83
26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)		
26 55 13 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,442.84	342.07
26 55 13 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard.....	2,461.63	456.04
26 55 13 00-0114 Low Voltage (26 55 13)		
26 55 13 00-0115 EA Low Voltage Recessed Uplight	747.48	249.03
26 55 13 00-0116 EA Low Voltage Walkway	498.54	136.83
26 55 13 00-0117 EA Low Voltage Malibu - 5 Light Set	528.89	182.67
26 55 13 00-0118 EA Low Voltage Mushroom 24" Pier.....	441.30	136.83
26 55 13 00-0119 Recessed, Adjustable (26 55 13)		
26 55 13 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	818.08	218.92
26 55 13 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	879.41	218.92
26 55 13 00-0122 Recessed, Uplight (26 55 13)		
26 55 13 00-0123 EA 50 Watt Incandescent Recessed Uplight	748.57	218.92
26 55 13 00-0124 EA 150 Watt Incandescent Recessed Uplight	760.84	218.92
26 55 13 00-0125 EA 300 Watt Incandescent Recessed Uplight	797.64	218.92
26 55 13 00-0126 EA 500 Watt Quartz Recessed Uplight.....	793.55	218.92
26 55 13 00-0127 EA 5 Watt, LED Recessed Uplight	1,052.82	218.92
26 55 13 00-0128 EA 15 Watt, LED Recessed Uplight	1,146.68	218.92
26 55 13 00-0129 Recessed Wall Light (26 55 13)		
26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	404.50	136.83
26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light	392.24	136.83
26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	606.58	182.67
26 55 13 00-0133 Step Lights (26 55 13)		
26 55 13 00-0134 EA Incandescent Step Light	329.25	109.46
26 55 13 00-0135 EA Fluorescent Step Light	370.21	109.46
26 55 13 00-0136 EA 5 Watt, LED Step Light	572.46	109.46
26 55 13 00-0137 EA 15 Watt, LED Step Light	672.58	109.46
26 55 13 00-0138 Tree Lights, Surface Adjustable (26 55 13)		
26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights	659.73	182.67
26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights	672.00	182.67
26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights	874.41	273.66
26 55 16 Walkway Lighting (26 55)		
26 55 16 00-0001 Incandescent Walkway (26 55 16)		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	450.38	127.25
26 55 16 00-0003 Metal Halide Walkway (26 55 16)		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture	693.26	200.04
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture.....	733.32	207.30
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture	789.21	215.23
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture	845.60	232.61
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture	755.04	215.23
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	759.02	200.04
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	774.36	207.30

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture.....	609.83	142.57
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture.....	644.01	142.57
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	678.20	142.57
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	765.61	160.49
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	581.00	128.07
26 55 16 00-0016 High Pressure Sodium Walkway <small>(26 55 16)</small>		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....	629.13	200.04
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture.....	663.61	207.30
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture.....	710.70	215.23
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture.....	762.43	232.61
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....	683.99	215.23
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture.....	680.51	200.04
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....	695.67	207.30
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....	538.78	142.57
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....	565.49	142.57
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	592.20	142.57
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	668.39	160.49
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	447.86	128.07
26 55 16 00-0029 Walkway, Adjustable <small>(26 55 16)</small>		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....	652.07	182.67
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture.....	668.94	182.67
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture.....	1,143.26	273.66
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture.....	543.52	136.83
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture.....	566.01	136.83
26 55 16 00-0035 LED Walkway <small>(26 55 16)</small>		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) <small>(26 55 16 00-0035)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	740.48	105.02
<i>For Multi-Level Drive Currents, Add</i> 179.10		
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	762.23	105.02
<i>For Multi-Level Drive Currents, Add</i> 179.10		
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	800.61	105.02
<i>For Multi-Level Drive Currents, Add</i> 179.10		
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	830.03	105.02
<i>For Multi-Level Drive Currents, Add</i> 179.10		
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	963.20	135.01
<i>For Multi-Level Drive Currents, Add</i> 179.10		
26 55 16 00-0042 Wall Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....	3,699.16	
Note: Type Fixture 17 as Post		
26 55 16 00-0044 Pole Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	3,428.34	
26 55 16 00-0046 EA 12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12).....	3,367.93	
Note: Washers and nuts included		
26 55 29 Underwater Lighting <small>(26 55)</small>		
26 55 29 00-0001 Underwater Lights <small>(26 55 29)</small>		
26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights.....	496.83	90.99
26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights.....	545.89	90.99
26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights.....	1,275.42	136.83
26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights.....	517.27	90.99
26 55 29 00-0006 EA 300 Watt, 12 Volt Underwater Lights.....	574.52	90.99
26 55 29 00-0007 SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	1,452.86	205.24
26 55 53 Security Lighting <small>(26 55)</small>		
26 55 53 11 Security Flood Lighting <small>(26 55 53)</small>		
26 55 53 11-0001 General Electric Powerflood® Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights <small>(26 55 53 11-0002)</small>		
26 55 53 11-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light.....	363.02	112.04
26 55 53 11-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light.....	365.80	112.04



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light.....	370.43	112.04
26 55 53 11-0007 Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light.....	473.26	112.04
26 55 53 11-0009 P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0010 High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light.....	698.04	149.37
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light.....	701.74	149.37
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light.....	708.23	149.37
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light.....	781.41	149.37
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light.....	802.72	149.37
26 55 53 11-0016 Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light.....	691.55	149.37
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light.....	723.98	149.37
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light.....	740.65	149.37
26 55 53 11-0020 PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021 High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	719.63	168.05
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	724.26	168.05
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	731.67	168.05
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	803.93	168.05
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	824.31	168.05
26 55 53 11-0027 Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light.....	714.07	168.05
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light.....	745.57	168.05
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light.....	762.24	168.05
26 55 53 11-0031 PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032 High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	938.26	168.05
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,003.11	168.05
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	998.48	168.05
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,021.64	168.05
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	962.35	168.05
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	981.80	168.05
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	1,002.18	168.05
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-1000 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,252.60	186.72
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,252.60	186.72
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	1,198.87	186.72
26 55 53 11-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,027.19	168.05
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,044.80	168.05
26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light	1,037.38	168.05
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights <small>(26 55 53 11-0001)</small>		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light	181.23	37.35
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	112.67	37.35
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light.....	155.29	37.35
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light	122.86	37.35
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	318.55	112.04
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light	133.05	37.35
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light	249.07	112.04
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light	257.41	112.04
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light	104.33	37.35
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	101.56	37.35
26 55 53 11-0064 Lithonia Contour Series Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	648.72	149.37
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light	702.21	149.37
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light	754.59	149.37
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	819.95	149.37
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	807.08	149.37
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light	786.32	149.37
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light	784.79	149.37
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	814.62	149.37
26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light	964.79	168.05
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light	982.63	168.05
26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light	924.70	168.05
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light	924.70	168.05
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light	952.67	168.05
26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights <small>(26 55 53 11-0085)</small>		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	918.56	149.37
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	945.26	149.37
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	967.57	149.37
26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights <small>(26 55 53 11-0085)</small>		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light	909.63	149.37
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light	936.36	149.37



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small> Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights <small>(26 55 53 11-0093)</small>		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,733.18	186.72
26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights <small>(26 55 53 11-0093)</small>		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light	1,354.23	186.72
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light	1,487.96	186.72
26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
26 55 53 11-0100 EA Wireguard For Contour Series Lithonia Flood Light.....	158.75	37.35
26 55 53 11-0101 EA Vandal Guard For Contour Series Lithonia Flood Light	290.02	37.35
26 55 53 11-0102 EA Upper Visor For Contour Series Lithonia Flood Light	133.98	37.35
26 55 53 11-0103 EA Full Visor For Contour Series Lithonia Flood Light	174.09	37.35
26 55 53 11-0104 EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light	402.35	112.04
26 55 53 11-0105 EA Radius Wall Bracket For Contour Series Lithonia Flood Light	331.37	112.04
26 55 53 11-0106 EA Steel Angle Bracket For Contour Series Lithonia Flood Light	331.37	112.04
26 55 53 11-0107 EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe	359.68	112.04
26 55 53 11-0108 EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light	152.66	37.35
26 55 53 11-0109 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	125.46	37.35
26 55 53 11-0110 Eaton Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0111 EA 6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	979.07	149.37
For NEMA Photocontrol Option (Eaton OA/RA1016), Add	48.01	
For >50 To 100, Deduct	-31.95	
For >100 To 250, Deduct	-56.42	
For >250 To 500, Deduct	-97.91	
For >500, Deduct	-139.39	
26 55 53 11-0112 EA 16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,208.93	165.48
For >50 To 100, Deduct	-38.50	
For >100 To 250, Deduct	-68.72	
For >250 To 500, Deduct	-120.89	
For >500, Deduct	-173.07	
26 55 53 11-0113 Ruud Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0114 NS (Micro) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small> Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115 High Pressure Sodium NS Series Ruud Flood Lights <small>(26 55 53 11-0114)</small>		
26 55 53 11-0116 EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light	433.43	112.04
26 55 53 11-0117 EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light	433.43	112.04
26 55 53 11-0118 EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light	433.43	112.04
26 55 53 11-0119 EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light	433.43	112.04
26 55 53 11-0120 EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light	433.43	112.04
26 55 53 11-0121 Metal Halide NS Series Ruud Flood Lights <small>(26 55 53 11-0114)</small>		
26 55 53 11-0122 EA 50 Watt Metal Halide NS Series Ruud Flood Light	485.30	112.04
26 55 53 11-0123 EA 70 Watt Metal Halide NS Series Ruud Flood Light	485.30	112.04
26 55 53 11-0124 EA 100 Watt Metal Halide NS Series Ruud Flood Light	485.30	112.04
26 55 53 11-0125 Compact Fluorescent NS Series Ruud Flood Lights <small>(26 55 53 11-0114)</small>		
26 55 53 11-0126 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light.....	379.70	112.04
26 55 53 11-0127 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light	392.66	112.04
26 55 53 11-0128 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light	396.37	112.04
26 55 53 11-0129 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light.....	400.08	112.04
26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small> Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>		
26 55 53 11-0132 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	665.90	168.05
26 55 53 11-0133 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	699.25	168.05
26 55 53 11-0134 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	717.78	168.05
26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	658.49	168.05
26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	662.19	168.05
26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	673.31	168.05
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light.....	645.52	168.05
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	764.10	168.05
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	767.80	168.05
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,253.53	186.72
26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	764.10	168.05
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	767.80	168.05
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	778.92	168.05
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,131.25	186.72
26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	608.18	149.37
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	660.06	149.37
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	660.06	149.37
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	660.06	149.37
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	639.68	149.37
26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	654.50	149.37
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	706.38	149.37
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	706.38	149.37
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	706.38	149.37
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	686.00	149.37
26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 55 53 11-0176 High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	851.18	168.05
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	869.71	168.05
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,299.85	186.72
26 55 53 11-0180 Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	810.42	168.05
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	814.12	168.05
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	825.24	168.05
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	1,177.57	186.72
26 55 53 11-0185 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0186 High Pressure Sodium CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>		
26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light	1,084.93	186.72
26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,277.62	186.72
26 55 53 11-0189 Metal Halide CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>		
26 55 53 11-0190 EA 400 Watt Metal Halide CN Series Ruud Flood Light.....	1,040.46	186.72
26 55 53 11-0191 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,155.33	186.72
26 55 53 11-0192 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small> Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0193 High Pressure Sodium PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>		
26 55 53 11-0194 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	877.12	168.05
26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	895.65	168.05
26 55 53 11-0196 Metal Halide PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>		
26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	836.36	168.05
26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	840.06	168.05
26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	851.18	168.05
26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,203.50	186.72
26 55 53 11-0201 Accessories For Ruud Flood Lighting <small>(26 55 53 11-0113)</small>		
26 55 53 11-0202 EA Wireguard For Rudd Flood Light.....	102.48	37.35
26 55 53 11-0203 EA Deep Baffle (Full Visor) For Rudd Flood Light.....	152.51	37.35
26 55 53 11-0204 EA Glare Guard (Upper Visor) For Rudd Flood Light.....	115.45	37.35
26 55 53 11-0205 EA Vandal Shield For Rudd Flood Light.....	133.98	37.35
26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light.....	287.06	112.04
26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	91.37	37.35
26 55 53 11-0208 Lumark Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0209 QZ Wedge Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small> Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	261.95	112.04
26 55 53 11-0211 LQL Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small> Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light.....	316.61	112.04
26 55 53 11-0213 Kim Lighting <small>(26 55 53 11)</small>		
26 55 53 11-0214 MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small> Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215 LED MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0214)</small>		
26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	460.63	47.96
For >50 To 100, Deduct	-13.91	
For >100 To 250, Deduct	-25.43	
For >250 To 500, Deduct	-46.06	
For >500, Deduct	-66.70	
26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	563.43	47.96
For >50 To 100, Deduct	-16.48	
For >100 To 250, Deduct	-30.57	
For >250 To 500, Deduct	-56.34	
For >500, Deduct	-82.12	
26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small> Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights <small>(26 55 53 11-0218)</small> Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	689.87	47.96
For >50 To 100, Deduct	-19.64	
For >100 To 250, Deduct	-36.89	
For >250 To 500, Deduct	-68.99	
For >500, Deduct	-101.08	
26 55 53 11-0221 CREE® BetaLED® Flood Lights <small>(26 55 53 11)</small>		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0222			Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) <small>(26 55 53 11-0221)</small> Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223	EA		40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	971.87	135.40
			<i>For >50 To 100, Deduct</i>	-31.07	
			<i>For >100 To 250, Deduct</i>	-55.36	
			<i>For >250 To 500, Deduct</i>	-97.19	
			<i>For >500, Deduct</i>	-139.01	
26 55 53 11-0224	EA		60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,061.11	142.92
			<i>For >50 To 100, Deduct</i>	-33.67	
			<i>For >100 To 250, Deduct</i>	-60.20	
			<i>For >250 To 500, Deduct</i>	-106.11	
			<i>For >500, Deduct</i>	-152.02	
26 55 53 11-0225			Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) <small>(26 55 53 11-0221)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0226	EA		20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	850.64	127.87
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-27.66	
			<i>For >100 To 250, Deduct</i>	-48.93	
			<i>For >250 To 500, Deduct</i>	-85.06	
			<i>For >500, Deduct</i>	-121.20	
26 55 53 11-0227	EA		40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,053.74	135.40
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-33.11	
			<i>For >100 To 250, Deduct</i>	-59.46	
			<i>For >250 To 500, Deduct</i>	-105.37	
			<i>For >500, Deduct</i>	-151.29	
26 55 53 11-0228	EA		60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,256.84	142.92
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-38.57	
			<i>For >100 To 250, Deduct</i>	-69.99	
			<i>For >250 To 500, Deduct</i>	-125.68	
			<i>For >500, Deduct</i>	-181.38	
26 55 53 11-0229	EA		80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,535.43	150.45
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-45.91	
			<i>For >100 To 250, Deduct</i>	-84.29	
			<i>For >250 To 500, Deduct</i>	-153.54	
			<i>For >500, Deduct</i>	-222.79	
26 55 53 11-0230	EA		100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,738.53	157.97
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-51.36	
			<i>For >100 To 250, Deduct</i>	-94.82	
			<i>For >250 To 500, Deduct</i>	-173.85	
			<i>For >500, Deduct</i>	-252.88	
26 55 53 11-0231	EA		120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,941.64	165.48
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-56.82	
			<i>For >100 To 250, Deduct</i>	-105.36	
			<i>For >250 To 500, Deduct</i>	-194.16	
			<i>For >500, Deduct</i>	-282.97	
26 55 53 11-0232	EA		140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,204.87	173.01
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-63.77	
			<i>For >100 To 250, Deduct</i>	-118.89	
			<i>For >250 To 500, Deduct</i>	-220.49	
			<i>For >500, Deduct</i>	-322.08	
26 55 53 11-0233	EA		160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,407.98	180.53
			<i>For 480 Volt, Add</i>	86.41	
			<i>For >50 To 100, Deduct</i>	-69.23	
			<i>For >100 To 250, Deduct</i>	-129.43	
			<i>For >250 To 500, Deduct</i>	-240.80	
			<i>For >500, Deduct</i>	-352.17	
26 55 53 11-0234			Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) <small>(26 55 53 11-0221)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical	26	
Lighting	26 50	26
Special Purpose Lighting	26 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0235	EA		120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO)	1,866.16	165.48
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Bird Spikes, Add</i>	40.32	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.74	
			<i>For >50 To 100, Deduct</i>	-54.93	
			<i>For >100 To 250, Deduct</i>	-101.58	
			<i>For >250 To 500, Deduct</i>	-186.62	
			<i>For >500, Deduct</i>	-271.65	
26 55 53 11-0236	EA		240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO)	3,113.77	203.10
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	58.34	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.74	
			<i>For 480 Volt, Add</i>	135.79	
			<i>For >50 To 100, Deduct</i>	-88.00	
			<i>For >100 To 250, Deduct</i>	-165.84	
			<i>For >250 To 500, Deduct</i>	-311.38	
			<i>For >500, Deduct</i>	-456.91	
26 55 53 11-0237			Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) <small>(26 55 53 11-0221)</small>		
			Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0238	EA		112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL)	1,138.97	165.48
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	32.39	
			<i>For Rotated Optics, Back Light Shield, Add</i>	32.39	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-36.75	
			<i>For >100 To 250, Deduct</i>	-65.22	
			<i>For >250 To 500, Deduct</i>	-113.90	
			<i>For >500, Deduct</i>	-162.57	
26 55 53 11-0239	EA		168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL)	1,210.27	165.48
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	32.39	
			<i>For Rotated Optics, Back Light Shield, Add</i>	32.39	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	397.19	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-38.53	
			<i>For >100 To 250, Deduct</i>	-68.79	
			<i>For >250 To 500, Deduct</i>	-121.03	
			<i>For >500, Deduct</i>	-173.27	
26 55 53 11-0240	EA		223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL)	1,546.89	203.10
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	39.32	
			<i>For Rotated Optics, Back Light Shield, Add</i>	39.32	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-48.83	
			<i>For >100 To 250, Deduct</i>	-87.50	
			<i>For >250 To 500, Deduct</i>	-154.69	
			<i>For >500, Deduct</i>	-221.88	
26 55 53 11-0241			PlanLED Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0242			Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) <small>(26 55 53 11-0241)</small>		
26 55 53 11-0243	EA		6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	603.09	135.40
			<i>For >50 To 100, Deduct</i>	-21.85	
			<i>For >100 To 250, Deduct</i>	-36.92	
			<i>For >250 To 500, Deduct</i>	-60.31	
			<i>For >500, Deduct</i>	-83.69	

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0244 EA 9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	711.85	142.92
For >50 To 100, Deduct	-24.94	
For >100 To 250, Deduct	-42.74	
For >250 To 500, Deduct	-71.19	
For >500, Deduct	-99.63	
26 55 53 11-0245 EA 12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100)	816.23	154.21
For >50 To 100, Deduct	-28.12	
For >100 To 250, Deduct	-48.52	
For >250 To 500, Deduct	-81.62	
For >500, Deduct	-114.72	
26 55 53 11-0246 Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 55 53 11-0241)		
26 55 53 11-0247 EA 21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200)	1,649.76	300.89
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-56.29	
For >100 To 250, Deduct	-97.53	
For >250 To 500, Deduct	-164.98	
For >500, Deduct	-232.42	
26 55 53 11-0248 EA 42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400)	2,476.22	300.89
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-76.95	
For >100 To 250, Deduct	-138.86	
For >250 To 500, Deduct	-247.62	
For >500, Deduct	-356.39	
26 55 53 11-0249 EA 84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800)	4,255.24	300.89
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-121.43	
For >100 To 250, Deduct	-227.81	
For >250 To 500, Deduct	-425.52	
For >500, Deduct	-623.24	
26 55 53 11-0250 Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 55 53 11-0241)		
26 55 53 11-0251 EA 21,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200)	1,425.51	195.58
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	-28.93	
For >50 To 100, Deduct	-45.42	
For >100 To 250, Deduct	-81.05	
For >250 To 500, Deduct	-142.55	
For >500, Deduct	-204.05	
26 55 53 11-0252 EA 39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300)	1,801.81	203.10
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	88.00	
For >50 To 100, Deduct	-55.20	
For >100 To 250, Deduct	-100.25	
For >250 To 500, Deduct	-180.18	
For >500, Deduct	-260.12	
26 55 53 11-0253 EA 52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400)	2,275.24	210.62
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	70.64	
For >50 To 100, Deduct	-67.41	
For >100 To 250, Deduct	-124.29	
For >250 To 500, Deduct	-227.52	
For >500, Deduct	-330.76	
26 55 53 12 Security Hazardous Location Flood Lights (26 55 53)		
Note: For general to heavy industrial applications in marine and corrosive environments. Class 1 Division 2.		
26 55 53 12-0001 Lithonia Hazardous Location Flood Lights (26 55 53 12)		
26 55 53 12-0002 HFR (Horizontally Oriented Mogul Base) Series Hazardous Location Flood Lights (26 55 53 12-0001)		
Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0003 High Pressure Sodium HFR Series Hazardous Location Flood Lights (26 55 53 12-0002)		
26 55 53 12-0004 EA 150 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	910.76	149.37
26 55 53 12-0005 EA 250 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	968.20	149.37
26 55 53 12-0006 EA 400 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	912.61	149.37
26 55 53 12-0007 Metal Halide HFR Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0002)		
26 55 53 12-0008 EA 250 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	962.06	149.37
26 55 53 12-0009 EA 400 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	934.84	149.37
26 55 53 12-0010 HFM (Medium Base) Series Hazardous Location Flood Lights (26 55 53 12-0001)		
Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 12-0011 High Pressure Sodium HFM Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0010)</small>		
26 55 53 12-0012 EA 100 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	871.28	149.37
26 55 53 12-0013 EA 150 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	905.55	149.37
26 55 53 12-0014 Metal Halide HFM Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0010)</small>		
26 55 53 12-0015 EA 175 Watt Metal Halide HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	778.64	149.37
26 55 53 12-0016 HFA (Large) Series Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small> Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0017 High Pressure Sodium HFA Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0016)</small>		
26 55 53 12-0018 EA 250 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,220.18	186.72
26 55 53 12-0019 EA 400 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,236.85	186.72
26 55 53 12-0020 Metal Halide HFA Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0016)</small>		
26 55 53 12-0021 EA 250 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,214.62	186.72
26 55 53 12-0022 EA 400 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,236.85	186.72
26 55 53 12-0023 HFL (Medium) Series Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small> Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0024 High Pressure Sodium HFL Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0023)</small>		
26 55 53 12-0025 EA 400 Watt High Pressure Sodium HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	919.73	168.05
26 55 53 12-0026 Metal Halide HFL Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0023)</small>		
26 55 53 12-0027 EA 400 Watt Metal Halide HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	984.58	168.05
26 55 53 12-0028 Accessories For Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small> See CSI section 26 55 53 11-0099 for accessories.		
26 55 53 13 Security High Performance Flood Lights <small>(26 55 53)</small> Note: For airport aprons and parking areas.		
26 55 53 13-0001 Lithonia High Performance Flood Lights <small>(26 55 53 13)</small>		
26 55 53 13-0002 170S Series Lithonia High Performance Flood Lights <small>(26 55 53 13-0001)</small> Note: Die-cast aluminum housing welded seams, stainless steel hardware, corrosion resistant polyester powder finish, and thermal and shock resistant flat lens.		
26 55 53 13-0003 High Pressure Sodium 170S Series Lithonia High Performance Flood Lights <small>(26 55 53 13-0002)</small>		
26 55 53 13-0004 EA 250 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,058.21	224.06
26 55 53 13-0005 EA 400 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,210.14	224.06
26 55 53 13-0006 EA 750 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,217.55	224.06
26 55 53 13-0007 EA 1,000 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,449.15	224.06
26 55 53 13-0008 Metal Halide 170S Series Lithonia High Performance Flood Lights <small>(26 55 53 13-0002)</small>		
26 55 53 13-0009 EA 320 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....	2,352.81	224.06
26 55 53 13-0010 EA 350 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....	2,250.07	224.06
26 55 53 13-0011 EA 400 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....	2,152.71	224.06
26 55 53 13-0012 EA 1,000 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,249.05	224.06
26 55 53 13-0013 Accessories For Lithonia High Performance Flood Lights <small>(26 55 53 13-0002)</small> See CSI section 26 55 53 11-0099 for accessories.		
26 55 61 Theatrical Lighting <small>(26 55)</small>		
26 55 61 00-0001 Stage Lighting <small>(26 55 61)</small>		
26 55 61 00-0002 EA Ellipsoidal Spotlight, Two 6" x 9" Lenses	589.13	166.27
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0003 EA Ellipsoidal Spotlight, Two 6" x 12" Lenses	589.13	166.27
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0004 EA Ellipsoidal Spotlight, Two 6" x 16" Lenses	589.13	166.27
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0005 EA 14" Scoop Floodlight Altman #SC14.....	605.45	166.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 61 00-0006 EA 6" Diameter Fresnel Spotlight, Spherical Specular Alzak Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, c-clamp, safety cable, color frame, male pin connector and lamp.	435.77	166.27
26 55 61 00-0007 EA 8" Diameter Fresnel Spotlight, Spherical Specular Alzak Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, C-clamp, safety cable, color frame, male pin connector and lamp.	671.78	166.27
26 55 61 00-0008 EA Follow Spotlight With Steel Chassis And Lightweight Note: Aluminum housing, includes lamp adjustment plate, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.	1,884.21	166.27
26 55 61 00-0009 EA Follow Spotlight With Steel Chassis And Lightweight Note: Aluminum housing, includes lamp adjustment plate, ballast, electronic power supply, stepdown transformer, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.	2,255.69	166.27
26 55 61 00-0010 EA PAR 64 Can Lighting With 20 Gauge Sheet Steel Note: Formed lamp housing, hinged and latched rear housing secured by retention ring, safety cable, safety screen, PAR 64 lamp, male pin connector.	377.75	166.27
26 55 61 00-0011 EA 6' Long Borderlight Sections Note: With continuous sheet steel housing, supported by 1-1/2" x 3/16" steel yoke with C-clamp, includes 30 lights per section wired on 3 circuits, alzak aluminum reflector with matte finish.	1,133.65	166.27
26 55 61 00-0012 EA 1,000 Watt, 25 To 125' Throw, Follow Spotlight (Times Square Lighting QF1000S)	2,425.55	166.27
26 55 68 Athletic Field Lighting (26 55)		
26 55 68 00-0001 Sports Lighting System (26 55 68) Note: Musco.		
26 55 68 00-0002 Round Steel Tapered Poles (26 55 68 00-0001) Note: With Internal wiring harness.		
26 55 68 00-0003 EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,657.50	717.01
26 55 68 00-0004 EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,402.68	866.39
26 55 68 00-0005 EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,946.64	941.08
26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,387.10	978.42
26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,665.71	1,015.77
26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,682.25	1,239.83
26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,247.85	1,314.51
26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,369.40	1,493.77
26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	10,630.75	1,680.49
26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,716.16	1,834.74
26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	12,799.92	2,050.59
26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	13,983.38	2,302.41
26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	15,765.01	2,770.09
26 55 68 00-0016 Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017 EA Two Light Bracket	469.99	74.69
26 55 68 00-0018 EA Three Light Bracket	594.21	104.56
26 55 68 00-0019 EA Four Light Bracket	847.03	126.97
26 55 68 00-0020 EA Five Light Bracket	968.77	149.37
26 55 68 00-0021 EA Six Light Bracket	1,171.61	171.79
26 55 68 00-0022 EA Seven Light Bracket	1,341.35	194.19
26 55 68 00-0023 EA Eight Light Bracket	1,531.84	224.06
26 55 68 00-0024 EA Nine Light Bracket	1,728.62	246.47
26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug..... For 1,500 Watt Metal Halide Lamp, Add	1,547.09 12.17	
26 55 68 00-0027 Electrical Component Enclosure (26 55 68 00-0001) Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted	864.98	88.93
26 55 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted	1,299.73	136.83
26 55 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted	1,489.68	171.03
26 55 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted	1,922.23	191.56
26 55 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted	2,157.98	205.24
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®)	976.93	274.05
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®)	1,834.59	274.05
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®)	2,177.65	274.05
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®)	10,220.90	822.15
26 55 68 00-0038 EA Auxilliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	1,131.32	136.83
26 55 68 00-0039 EA Auxilliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	1,404.97	273.66

26 56 Exterior Lighting (26 50)

26 56 13 Lighting Poles and Standards (26 56)



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0001 Poles And Standards <small>(26 56 13)</small> See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002 Roadway Light Poles <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles <small>(26 56 13 00-0002)</small> Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles <small>(26 56 13 00-0003)</small>		
26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0004)</small>		
26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0005)</small>		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,643.96	448.13
For Galvanized Finish, Add	112.43	
For >10 To 20, Deduct	-116.10	
For >20 To 40, Deduct	-232.20	
For >40, Deduct	-370.70	
26 56 13 00-0008 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,653.21	448.13
For Galvanized Finish, Add	112.71	
For >10 To 20, Deduct	-116.33	
For >20 To 40, Deduct	-232.66	
For >40, Deduct	-371.40	
26 56 13 00-0009 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	5,006.85	597.51
For Galvanized Finish, Add	114.36	
For >10 To 20, Deduct	-125.17	
For >20 To 40, Deduct	-250.34	
For >40, Deduct	-405.39	
26 56 13 00-0010 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	5,118.23	597.51
For Galvanized Finish, Add	117.70	
For >10 To 20, Deduct	-127.96	
For >20 To 40, Deduct	-255.91	
For >40, Deduct	-413.74	
26 56 13 00-0011 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,229.61	597.51
For Galvanized Finish, Add	121.04	
For >10 To 20, Deduct	-130.74	
For >20 To 40, Deduct	-261.48	
For >40, Deduct	-422.10	
26 56 13 00-0012 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	5,402.45	672.19
For Galvanized Finish, Add	121.74	
For >10 To 20, Deduct	-135.06	
For >20 To 40, Deduct	-270.12	
For >40, Deduct	-438.79	
26 56 13 00-0013 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	5,455.26	672.19
For Galvanized Finish, Add	123.33	
For >10 To 20, Deduct	-136.38	
For >20 To 40, Deduct	-272.76	
For >40, Deduct	-442.75	
26 56 13 00-0014 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,465.32	672.19
For Galvanized Finish, Add	123.63	
For >10 To 20, Deduct	-136.63	
For >20 To 40, Deduct	-273.27	
For >40, Deduct	-443.51	
26 56 13 00-0015 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	5,727.51	709.54
For Galvanized Finish, Add	129.25	
For >10 To 20, Deduct	-143.19	
For >20 To 40, Deduct	-286.38	
For >40, Deduct	-465.04	
26 56 13 00-0016 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	5,767.41	709.54
For Galvanized Finish, Add	130.45	
For >10 To 20, Deduct	-144.19	
For >20 To 40, Deduct	-288.37	
For >40, Deduct	-468.03	
26 56 13 00-0017 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,810.97	709.54
For Galvanized Finish, Add	131.76	
For >10 To 20, Deduct	-145.27	
For >20 To 40, Deduct	-290.55	
For >40, Deduct	-471.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	6,665.95	746.88
			<i>For Galvanized Finish, Add</i>	155.17	
			<i>For >10 To 20, Deduct</i>	-166.65	
			<i>For >20 To 40, Deduct</i>	-333.30	
			<i>For >40, Deduct</i>	-537.29	
26 56	13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	6,680.15	746.88
			<i>For Galvanized Finish, Add</i>	155.59	
			<i>For >10 To 20, Deduct</i>	-167.00	
			<i>For >20 To 40, Deduct</i>	-334.01	
			<i>For >40, Deduct</i>	-538.36	
26 56	13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	6,694.20	746.88
			<i>For Galvanized Finish, Add</i>	156.01	
			<i>For >10 To 20, Deduct</i>	-167.36	
			<i>For >20 To 40, Deduct</i>	-334.71	
			<i>For >40, Deduct</i>	-539.41	
26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms					
			<small>(26 56 13 00-0005)</small>		
26 56	13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,804.21	522.82
			<i>For Galvanized Finish, Add</i>	142.76	
			<i>For >10 To 20, Deduct</i>	-145.11	
			<i>For >20 To 40, Deduct</i>	-290.21	
			<i>For >40, Deduct</i>	-461.46	
26 56	13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,901.07	541.49
			<i>For Galvanized Finish, Add</i>	144.54	
			<i>For >10 To 20, Deduct</i>	-147.53	
			<i>For >20 To 40, Deduct</i>	-295.05	
			<i>For >40, Deduct</i>	-469.65	
26 56	13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,983.26	560.16
			<i>For Galvanized Finish, Add</i>	145.89	
			<i>For >10 To 20, Deduct</i>	-149.58	
			<i>For >20 To 40, Deduct</i>	-299.16	
			<i>For >40, Deduct</i>	-476.75	
26 56	13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,717.12	672.19
			<i>For Galvanized Finish, Add</i>	131.18	
			<i>For >10 To 20, Deduct</i>	-142.93	
			<i>For >20 To 40, Deduct</i>	-285.86	
			<i>For >40, Deduct</i>	-462.39	
26 56	13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,778.09	690.86
			<i>For Galvanized Finish, Add</i>	131.89	
			<i>For >10 To 20, Deduct</i>	-144.45	
			<i>For >20 To 40, Deduct</i>	-288.90	
			<i>For >40, Deduct</i>	-467.90	
26 56	13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,825.01	709.54
			<i>For Galvanized Finish, Add</i>	132.18	
			<i>For >10 To 20, Deduct</i>	-145.63	
			<i>For >20 To 40, Deduct</i>	-291.25	
			<i>For >40, Deduct</i>	-472.35	
26 56	13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	6,158.20	746.88
			<i>For Galvanized Finish, Add</i>	139.93	
			<i>For >10 To 20, Deduct</i>	-153.96	
			<i>For >20 To 40, Deduct</i>	-307.91	
			<i>For >40, Deduct</i>	-499.21	
26 56	13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	6,209.90	765.56
			<i>For Galvanized Finish, Add</i>	140.36	
			<i>For >10 To 20, Deduct</i>	-155.25	
			<i>For >20 To 40, Deduct</i>	-310.50	
			<i>For >40, Deduct</i>	-504.02	
26 56	13 00-0030	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	6,256.34	784.23
			<i>For Galvanized Finish, Add</i>	140.64	
			<i>For >10 To 20, Deduct</i>	-156.41	
			<i>For >20 To 40, Deduct</i>	-312.82	
			<i>For >40, Deduct</i>	-508.44	
26 56	13 00-0031	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	6,538.46	784.23
			<i>For Galvanized Finish, Add</i>	149.10	
			<i>For >10 To 20, Deduct</i>	-163.46	
			<i>For >20 To 40, Deduct</i>	-326.92	
			<i>For >40, Deduct</i>	-529.60	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	6,637.56	802.90
			<i>For Galvanized Finish, Add</i>	150.95	
			<i>For >10 To 20, Deduct</i>	-165.94	
			<i>For >20 To 40, Deduct</i>	-331.88	
			<i>For >40, Deduct</i>	-537.96	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	6,733.47	821.57
			<i>For Galvanized Finish, Add</i>	152.71	
			<i>For >10 To 20, Deduct</i>	-168.34	
			<i>For >20 To 40, Deduct</i>	-336.67	
			<i>For >40, Deduct</i>	-546.09	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	7,422.02	821.57
			<i>For Galvanized Finish, Add</i>	173.37	
			<i>For >10 To 20, Deduct</i>	-185.55	
			<i>For >20 To 40, Deduct</i>	-371.10	
			<i>For >40, Deduct</i>	-597.73	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	7,468.62	840.25
			<i>For Galvanized Finish, Add</i>	173.64	
			<i>For >10 To 20, Deduct</i>	-186.72	
			<i>For >20 To 40, Deduct</i>	-373.43	
			<i>For >40, Deduct</i>	-602.16	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	7,515.53	858.92
			<i>For Galvanized Finish, Add</i>	173.93	
			<i>For >10 To 20, Deduct</i>	-187.89	
			<i>For >20 To 40, Deduct</i>	-375.78	
			<i>For >40, Deduct</i>	-606.61	

26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms
(26 56 13 00-0005)

26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	6,741.27	746.88
			<i>For Galvanized Finish, Add</i>	157.43	
			<i>For >10 To 20, Deduct</i>	-168.53	
			<i>For >20 To 40, Deduct</i>	-337.06	
			<i>For >40, Deduct</i>	-542.94	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	6,825.37	784.23
			<i>For Galvanized Finish, Add</i>	157.71	
			<i>For >10 To 20, Deduct</i>	-170.63	
			<i>For >20 To 40, Deduct</i>	-341.27	
			<i>For >40, Deduct</i>	-551.11	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	6,923.52	821.57
			<i>For Galvanized Finish, Add</i>	158.41	
			<i>For >10 To 20, Deduct</i>	-173.09	
			<i>For >20 To 40, Deduct</i>	-346.18	
			<i>For >40, Deduct</i>	-560.34	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	7,125.86	821.57
			<i>For Galvanized Finish, Add</i>	164.48	
			<i>For >10 To 20, Deduct</i>	-178.15	
			<i>For >20 To 40, Deduct</i>	-356.29	
			<i>For >40, Deduct</i>	-575.52	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	7,214.42	858.92
			<i>For Galvanized Finish, Add</i>	164.90	
			<i>For >10 To 20, Deduct</i>	-180.36	
			<i>For >20 To 40, Deduct</i>	-360.72	
			<i>For >40, Deduct</i>	-584.03	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	7,298.52	896.27
			<i>For Galvanized Finish, Add</i>	165.18	
			<i>For >10 To 20, Deduct</i>	-182.46	
			<i>For >20 To 40, Deduct</i>	-364.93	
			<i>For >40, Deduct</i>	-592.20	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	7,585.74	858.92
			<i>For Galvanized Finish, Add</i>	176.04	
			<i>For >10 To 20, Deduct</i>	-189.64	
			<i>For >20 To 40, Deduct</i>	-379.29	
			<i>For >40, Deduct</i>	-611.88	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	7,669.85	896.27
			<i>For Galvanized Finish, Add</i>	176.32	
			<i>For >10 To 20, Deduct</i>	-191.75	
			<i>For >20 To 40, Deduct</i>	-383.49	
			<i>For >40, Deduct</i>	-620.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0046	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	7,753.95	933.60
			<i>For Galvanized Finish, Add</i>	176.60	
			<i>For >10 To 20, Deduct</i>	-193.85	
			<i>For >20 To 40, Deduct</i>	-387.70	
			<i>For >40, Deduct</i>	-628.23	
26 56	13 00-0047	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	8,178.08	896.27
			<i>For Galvanized Finish, Add</i>	191.57	
			<i>For >10 To 20, Deduct</i>	-204.45	
			<i>For >20 To 40, Deduct</i>	-408.90	
			<i>For >40, Deduct</i>	-658.17	
26 56	13 00-0048	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	8,261.71	933.60
			<i>For Galvanized Finish, Add</i>	191.84	
			<i>For >10 To 20, Deduct</i>	-206.54	
			<i>For >20 To 40, Deduct</i>	-413.09	
			<i>For >40, Deduct</i>	-666.31	
26 56	13 00-0049	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	8,355.23	970.95
			<i>For Galvanized Finish, Add</i>	192.40	
			<i>For >10 To 20, Deduct</i>	-208.88	
			<i>For >20 To 40, Deduct</i>	-417.76	
			<i>For >40, Deduct</i>	-675.19	
26 56	13 00-0050		Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56	13 00-0051	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	7,501.97	821.57
			<i>For Galvanized Finish, Add</i>	175.76	
			<i>For >10 To 20, Deduct</i>	-187.55	
			<i>For >20 To 40, Deduct</i>	-375.10	
			<i>For >40, Deduct</i>	-603.73	
26 56	13 00-0052	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	7,628.04	877.59
			<i>For Galvanized Finish, Add</i>	176.19	
			<i>For >10 To 20, Deduct</i>	-190.70	
			<i>For >20 To 40, Deduct</i>	-381.40	
			<i>For >40, Deduct</i>	-615.98	
26 56	13 00-0053	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	7,749.32	933.60
			<i>For Galvanized Finish, Add</i>	176.46	
			<i>For >10 To 20, Deduct</i>	-193.73	
			<i>For >20 To 40, Deduct</i>	-387.47	
			<i>For >40, Deduct</i>	-627.88	
26 56	13 00-0054	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	7,944.15	896.27
			<i>For Galvanized Finish, Add</i>	184.55	
			<i>For >10 To 20, Deduct</i>	-198.60	
			<i>For >20 To 40, Deduct</i>	-397.21	
			<i>For >40, Deduct</i>	-640.62	
26 56	13 00-0055	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	8,066.08	952.27
			<i>For Galvanized Finish, Add</i>	184.85	
			<i>For >10 To 20, Deduct</i>	-201.65	
			<i>For >20 To 40, Deduct</i>	-403.30	
			<i>For >40, Deduct</i>	-652.57	
26 56	13 00-0056	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	8,133.75	1,008.29
			<i>For Galvanized Finish, Add</i>	183.51	
			<i>For >10 To 20, Deduct</i>	-203.34	
			<i>For >20 To 40, Deduct</i>	-406.69	
			<i>For >40, Deduct</i>	-660.45	
26 56	13 00-0057	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	8,553.24	933.60
			<i>For Galvanized Finish, Add</i>	200.58	
			<i>For >10 To 20, Deduct</i>	-213.83	
			<i>For >20 To 40, Deduct</i>	-427.66	
			<i>For >40, Deduct</i>	-688.17	
26 56	13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	8,738.68	989.62
			<i>For Galvanized Finish, Add</i>	202.78	
			<i>For >10 To 20, Deduct</i>	-218.47	
			<i>For >20 To 40, Deduct</i>	-436.93	
			<i>For >40, Deduct</i>	-704.88	
26 56	13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	8,801.09	1,045.64
			<i>For Galvanized Finish, Add</i>	201.29	
			<i>For >10 To 20, Deduct</i>	-220.03	
			<i>For >20 To 40, Deduct</i>	-440.05	
			<i>For >40, Deduct</i>	-712.36	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	8,933.67	970.95
		<i>For Galvanized Finish, Add</i>	209.75	
		<i>For >10 To 20, Deduct</i>	-223.34	
		<i>For >20 To 40, Deduct</i>	-446.68	
		<i>For >40, Deduct</i>	-718.57	
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	9,054.96	1,026.97
		<i>For Galvanized Finish, Add</i>	210.03	
		<i>For >10 To 20, Deduct</i>	-226.37	
		<i>For >20 To 40, Deduct</i>	-452.75	
		<i>For >40, Deduct</i>	-730.47	
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	9,181.04	1,082.98
		<i>For Galvanized Finish, Add</i>	210.45	
		<i>For >10 To 20, Deduct</i>	-229.53	
		<i>For >20 To 40, Deduct</i>	-459.05	
		<i>For >40, Deduct</i>	-742.73	
26 56 13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>		
26 56 13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	5,351.52	597.51
		<i>For Galvanized Finish, Add</i>	124.70	
		<i>For >10 To 20, Deduct</i>	-133.79	
		<i>For >20 To 40, Deduct</i>	-267.58	
		<i>For >40, Deduct</i>	-431.24	
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	6,057.96	672.19
		<i>For Galvanized Finish, Add</i>	141.41	
		<i>For >10 To 20, Deduct</i>	-151.45	
		<i>For >20 To 40, Deduct</i>	-302.90	
		<i>For >40, Deduct</i>	-487.96	
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	6,210.22	709.54
		<i>For Galvanized Finish, Add</i>	143.73	
		<i>For >10 To 20, Deduct</i>	-155.26	
		<i>For >20 To 40, Deduct</i>	-310.51	
		<i>For >40, Deduct</i>	-501.24	
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	7,474.66	746.88
		<i>For Galvanized Finish, Add</i>	179.43	
		<i>For >10 To 20, Deduct</i>	-186.87	
		<i>For >20 To 40, Deduct</i>	-373.73	
		<i>For >40, Deduct</i>	-597.94	
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0004)</small>		
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0069)</small>		
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	7,015.37	597.51
		<i>For Galvanized Finish, Add</i>	174.61	
		<i>For >10 To 20, Deduct</i>	-175.38	
		<i>For >20 To 40, Deduct</i>	-350.77	
		<i>For >40, Deduct</i>	-556.03	
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	7,086.70	597.51
		<i>For Galvanized Finish, Add</i>	176.75	
		<i>For >10 To 20, Deduct</i>	-177.17	
		<i>For >20 To 40, Deduct</i>	-354.34	
		<i>For >40, Deduct</i>	-561.38	
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	7,119.25	597.51
		<i>For Galvanized Finish, Add</i>	177.73	
		<i>For >10 To 20, Deduct</i>	-177.98	
		<i>For >20 To 40, Deduct</i>	-355.96	
		<i>For >40, Deduct</i>	-563.82	
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	7,236.08	672.19
		<i>For Galvanized Finish, Add</i>	176.75	
		<i>For >10 To 20, Deduct</i>	-180.90	
		<i>For >20 To 40, Deduct</i>	-361.80	
		<i>For >40, Deduct</i>	-576.32	
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	7,248.52	672.19
		<i>For Galvanized Finish, Add</i>	177.12	
		<i>For >10 To 20, Deduct</i>	-181.21	
		<i>For >20 To 40, Deduct</i>	-362.43	
		<i>For >40, Deduct</i>	-577.25	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	7,377.14	672.19
			<i>For Galvanized Finish, Add</i>	180.98	
			<i>For >10 To 20, Deduct</i>	-184.43	
			<i>For >20 To 40, Deduct</i>	-368.86	
			<i>For >40, Deduct</i>	-586.90	
26 56	13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	7,353.06	709.54
			<i>For Galvanized Finish, Add</i>	178.02	
			<i>For >10 To 20, Deduct</i>	-183.83	
			<i>For >20 To 40, Deduct</i>	-367.65	
			<i>For >40, Deduct</i>	-586.96	
26 56	13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	7,428.38	709.54
			<i>For Galvanized Finish, Add</i>	180.28	
			<i>For >10 To 20, Deduct</i>	-185.71	
			<i>For >20 To 40, Deduct</i>	-371.42	
			<i>For >40, Deduct</i>	-592.61	
26 56	13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	7,823.32	709.54
			<i>For Galvanized Finish, Add</i>	192.13	
			<i>For >10 To 20, Deduct</i>	-195.58	
			<i>For >20 To 40, Deduct</i>	-391.17	
			<i>For >40, Deduct</i>	-622.23	
26 56	13 00-0080		Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0069)</small>		
26 56	13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	9,211.75	746.88
			<i>For Galvanized Finish, Add</i>	231.54	
			<i>For >10 To 20, Deduct</i>	-230.29	
			<i>For >20 To 40, Deduct</i>	-460.59	
			<i>For >40, Deduct</i>	-728.23	
26 56	13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	9,354.74	784.23
			<i>For Galvanized Finish, Add</i>	233.59	
			<i>For >10 To 20, Deduct</i>	-233.87	
			<i>For >20 To 40, Deduct</i>	-467.74	
			<i>For >40, Deduct</i>	-740.82	
26 56	13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	9,697.51	821.57
			<i>For Galvanized Finish, Add</i>	241.63	
			<i>For >10 To 20, Deduct</i>	-242.44	
			<i>For >20 To 40, Deduct</i>	-484.88	
			<i>For >40, Deduct</i>	-768.39	
26 56	13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	9,321.56	821.57
			<i>For Galvanized Finish, Add</i>	230.35	
			<i>For >10 To 20, Deduct</i>	-233.04	
			<i>For >20 To 40, Deduct</i>	-466.08	
			<i>For >40, Deduct</i>	-740.20	
26 56	13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	9,749.05	858.92
			<i>For Galvanized Finish, Add</i>	240.94	
			<i>For >10 To 20, Deduct</i>	-243.73	
			<i>For >20 To 40, Deduct</i>	-487.45	
			<i>For >40, Deduct</i>	-774.12	
26 56	13 00-0086	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	9,997.35	896.27
			<i>For Galvanized Finish, Add</i>	246.14	
			<i>For >10 To 20, Deduct</i>	-249.93	
			<i>For >20 To 40, Deduct</i>	-499.87	
			<i>For >40, Deduct</i>	-794.61	
26 56	13 00-0087	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	9,593.31	858.92
			<i>For Galvanized Finish, Add</i>	236.26	
			<i>For >10 To 20, Deduct</i>	-239.83	
			<i>For >20 To 40, Deduct</i>	-479.67	
			<i>For >40, Deduct</i>	-762.44	
26 56	13 00-0088	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	10,171.28	896.27
			<i>For Galvanized Finish, Add</i>	251.36	
			<i>For >10 To 20, Deduct</i>	-254.28	
			<i>For >20 To 40, Deduct</i>	-508.56	
			<i>For >40, Deduct</i>	-807.66	
26 56	13 00-0089	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	10,504.48	933.60
			<i>For Galvanized Finish, Add</i>	259.12	
			<i>For >10 To 20, Deduct</i>	-262.61	
			<i>For >20 To 40, Deduct</i>	-525.22	
			<i>For >40, Deduct</i>	-834.52	

26 56 13 00-0090 Aluminum Roadway Light Poles (26 56 13 00-0002)
 Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0091 Round Tapered, Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small>		
26 56 13 00-0092 Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0093 Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0092)</small>		
26 56 13 00-0094 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,575.83	448.13
For >10 To 20, Deduct	-64.40	
For >20 To 40, Deduct	-128.79	
For >40, Deduct	-215.59	
26 56 13 00-0095 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,596.16	448.13
For >10 To 20, Deduct	-64.90	
For >20 To 40, Deduct	-129.81	
For >40, Deduct	-217.12	
26 56 13 00-0096 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,181.47	597.51
For >10 To 20, Deduct	-79.54	
For >20 To 40, Deduct	-159.07	
For >40, Deduct	-268.49	
26 56 13 00-0097 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,219.88	597.51
For >10 To 20, Deduct	-80.50	
For >20 To 40, Deduct	-160.99	
For >40, Deduct	-271.37	
26 56 13 00-0098 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,255.21	597.51
For >10 To 20, Deduct	-81.38	
For >20 To 40, Deduct	-162.76	
For >40, Deduct	-274.02	
26 56 13 00-0099 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,645.16	672.19
For >10 To 20, Deduct	-91.13	
For >20 To 40, Deduct	-182.26	
For >40, Deduct	-307.00	
26 56 13 00-0100 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,677.57	672.19
For >10 To 20, Deduct	-91.94	
For >20 To 40, Deduct	-183.88	
For >40, Deduct	-309.43	
26 56 13 00-0101 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,713.82	672.19
For >10 To 20, Deduct	-92.85	
For >20 To 40, Deduct	-185.69	
For >40, Deduct	-312.15	
26 56 13 00-0102 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,232.66	709.54
For >10 To 20, Deduct	-105.82	
For >20 To 40, Deduct	-211.63	
For >40, Deduct	-352.93	
26 56 13 00-0103 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,264.99	709.54
For >10 To 20, Deduct	-106.62	
For >20 To 40, Deduct	-213.25	
For >40, Deduct	-355.35	
26 56 13 00-0104 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,292.07	709.54
For >10 To 20, Deduct	-107.30	
For >20 To 40, Deduct	-214.60	
For >40, Deduct	-357.38	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56 13 00-0106 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	2,956.02	522.82
For >10 To 20, Deduct	-73.90	
For >20 To 40, Deduct	-147.80	
For >40, Deduct	-247.84	
26 56 13 00-0107 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,155.26	522.82
For >10 To 20, Deduct	-78.88	
For >20 To 40, Deduct	-157.76	
For >40, Deduct	-262.79	
26 56 13 00-0108 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,268.78	560.16
For >10 To 20, Deduct	-81.72	
For >20 To 40, Deduct	-163.44	
For >40, Deduct	-273.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0109	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,550.75	672.19
			<i>For >10 To 20, Deduct</i>	-88.77	
			<i>For >20 To 40, Deduct</i>	-177.54	
			<i>For >40, Deduct</i>	-299.92	
26 56	13 00-0110	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,714.92	690.86
			<i>For >10 To 20, Deduct</i>	-92.87	
			<i>For >20 To 40, Deduct</i>	-185.75	
			<i>For >40, Deduct</i>	-313.16	
26 56	13 00-0111	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,947.68	709.54
			<i>For >10 To 20, Deduct</i>	-98.69	
			<i>For >20 To 40, Deduct</i>	-197.38	
			<i>For >40, Deduct</i>	-331.55	
26 56	13 00-0112	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,084.27	746.88
			<i>For >10 To 20, Deduct</i>	-102.11	
			<i>For >20 To 40, Deduct</i>	-204.21	
			<i>For >40, Deduct</i>	-343.66	
26 56	13 00-0113	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,239.27	765.56
			<i>For >10 To 20, Deduct</i>	-105.98	
			<i>For >20 To 40, Deduct</i>	-211.96	
			<i>For >40, Deduct</i>	-356.22	
26 56	13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,426.44	784.23
			<i>For >10 To 20, Deduct</i>	-110.66	
			<i>For >20 To 40, Deduct</i>	-221.32	
			<i>For >40, Deduct</i>	-371.19	
26 56	13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,602.68	784.23
			<i>For >10 To 20, Deduct</i>	-115.07	
			<i>For >20 To 40, Deduct</i>	-230.13	
			<i>For >40, Deduct</i>	-384.41	
26 56	13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,006.83	802.90
			<i>For >10 To 20, Deduct</i>	-125.17	
			<i>For >20 To 40, Deduct</i>	-250.34	
			<i>For >40, Deduct</i>	-415.66	
26 56	13 00-0117	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,475.40	821.57
			<i>For >10 To 20, Deduct</i>	-136.89	
			<i>For >20 To 40, Deduct</i>	-273.77	
			<i>For >40, Deduct</i>	-451.73	
26 56	13 00-0118		Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56	13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,426.12	597.51
			<i>For >10 To 20, Deduct</i>	-85.65	
			<i>For >20 To 40, Deduct</i>	-171.31	
			<i>For >40, Deduct</i>	-286.83	
26 56	13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	3,661.96	634.86
			<i>For >10 To 20, Deduct</i>	-91.55	
			<i>For >20 To 40, Deduct</i>	-183.10	
			<i>For >40, Deduct</i>	-306.39	
26 56	13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,176.01	746.88
			<i>For >10 To 20, Deduct</i>	-104.40	
			<i>For >20 To 40, Deduct</i>	-208.80	
			<i>For >40, Deduct</i>	-350.55	
26 56	13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,357.28	784.23
			<i>For >10 To 20, Deduct</i>	-108.93	
			<i>For >20 To 40, Deduct</i>	-217.86	
			<i>For >40, Deduct</i>	-366.01	
26 56	13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,563.38	821.57
			<i>For >10 To 20, Deduct</i>	-114.08	
			<i>For >20 To 40, Deduct</i>	-228.17	
			<i>For >40, Deduct</i>	-383.33	
26 56	13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,729.80	858.92
			<i>For >10 To 20, Deduct</i>	-118.25	
			<i>For >20 To 40, Deduct</i>	-236.49	
			<i>For >40, Deduct</i>	-397.68	
26 56	13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,920.63	858.92
			<i>For >10 To 20, Deduct</i>	-123.02	
			<i>For >20 To 40, Deduct</i>	-246.03	
			<i>For >40, Deduct</i>	-411.99	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0126 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,333.96	896.27
For >10 To 20, Deduct	-133.35	
For >20 To 40, Deduct	-266.70	
For >40, Deduct	-444.86	
26 56 13 00-0127 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	9,652.37	933.60
For >10 To 20, Deduct	-241.31	
For >20 To 40, Deduct	-482.62	
For >40, Deduct	-770.61	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56 13 00-0129 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	3,575.00	672.19
For >10 To 20, Deduct	-89.38	
For >20 To 40, Deduct	-178.75	
For >40, Deduct	-301.73	
26 56 13 00-0130 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	3,696.99	672.19
For >10 To 20, Deduct	-92.42	
For >20 To 40, Deduct	-184.85	
For >40, Deduct	-310.88	
26 56 13 00-0131 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,570.96	821.57
For >10 To 20, Deduct	-114.27	
For >20 To 40, Deduct	-228.55	
For >40, Deduct	-383.90	
26 56 13 00-0132 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,943.06	877.59
For >10 To 20, Deduct	-123.58	
For >20 To 40, Deduct	-247.15	
For >40, Deduct	-414.61	
26 56 13 00-0133 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,146.56	896.27
For >10 To 20, Deduct	-128.66	
For >20 To 40, Deduct	-257.33	
For >40, Deduct	-430.81	
26 56 13 00-0134 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,491.66	952.27
For >10 To 20, Deduct	-137.29	
For >20 To 40, Deduct	-274.58	
For >40, Deduct	-459.49	
26 56 13 00-0135 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,414.65	933.60
For >10 To 20, Deduct	-135.37	
For >20 To 40, Deduct	-270.73	
For >40, Deduct	-452.78	
26 56 13 00-0136 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,123.89	989.62
For >10 To 20, Deduct	-153.10	
For >20 To 40, Deduct	-306.19	
For >40, Deduct	-508.77	
26 56 13 00-0137 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,754.06	1,045.64
For >10 To 20, Deduct	-168.85	
For >20 To 40, Deduct	-337.70	
For >40, Deduct	-558.84	
26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0138)</small>		
26 56 13 00-0140 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,745.93	597.51
For >10 To 20, Deduct	-93.65	
For >20 To 40, Deduct	-187.30	
For >40, Deduct	-310.82	
26 56 13 00-0141 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,773.09	597.51
For >10 To 20, Deduct	-94.33	
For >20 To 40, Deduct	-188.65	
For >40, Deduct	-312.86	
26 56 13 00-0142 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,842.51	597.51
For >10 To 20, Deduct	-96.06	
For >20 To 40, Deduct	-192.13	
For >40, Deduct	-318.06	
26 56 13 00-0143 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	3,946.67	597.51
For >10 To 20, Deduct	-98.67	
For >20 To 40, Deduct	-197.33	
For >40, Deduct	-325.88	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,217.37	672.19
			<i>For >10 To 20, Deduct</i>	-105.43	
			<i>For >20 To 40, Deduct</i>	-210.87	
			<i>For >40, Deduct</i>	-349.91	
26 56	13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,278.62	672.19
			<i>For >10 To 20, Deduct</i>	-106.97	
			<i>For >20 To 40, Deduct</i>	-213.93	
			<i>For >40, Deduct</i>	-354.51	
26 56	13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,343.95	672.19
			<i>For >10 To 20, Deduct</i>	-108.60	
			<i>For >20 To 40, Deduct</i>	-217.20	
			<i>For >40, Deduct</i>	-359.41	
26 56	13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,738.01	672.19
			<i>For >10 To 20, Deduct</i>	-118.45	
			<i>For >20 To 40, Deduct</i>	-236.90	
			<i>For >40, Deduct</i>	-388.96	
26 56	13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,572.30	709.54
			<i>For >10 To 20, Deduct</i>	-114.31	
			<i>For >20 To 40, Deduct</i>	-228.62	
			<i>For >40, Deduct</i>	-378.40	
26 56	13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,077.94	709.54
			<i>For >10 To 20, Deduct</i>	-126.95	
			<i>For >20 To 40, Deduct</i>	-253.90	
			<i>For >40, Deduct</i>	-416.32	
26 56	13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,127.19	709.54
			<i>For >10 To 20, Deduct</i>	-128.18	
			<i>For >20 To 40, Deduct</i>	-256.36	
			<i>For >40, Deduct</i>	-420.02	
26 56	13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,439.83	709.54
			<i>For >10 To 20, Deduct</i>	-136.00	
			<i>For >20 To 40, Deduct</i>	-271.99	
			<i>For >40, Deduct</i>	-443.46	
26 56	13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,724.98	709.54
			<i>For >10 To 20, Deduct</i>	-143.12	
			<i>For >20 To 40, Deduct</i>	-286.25	
			<i>For >40, Deduct</i>	-464.85	
26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms					
			<small>(26 56 13 00-0138)</small>		
26 56	13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,847.81	746.88
			<i>For >10 To 20, Deduct</i>	-121.20	
			<i>For >20 To 40, Deduct</i>	-242.39	
			<i>For >40, Deduct</i>	-400.93	
26 56	13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	4,991.91	784.23
			<i>For >10 To 20, Deduct</i>	-124.80	
			<i>For >20 To 40, Deduct</i>	-249.60	
			<i>For >40, Deduct</i>	-413.60	
26 56	13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,111.26	821.57
			<i>For >10 To 20, Deduct</i>	-127.78	
			<i>For >20 To 40, Deduct</i>	-255.56	
			<i>For >40, Deduct</i>	-424.42	
26 56	13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,230.25	821.57
			<i>For >10 To 20, Deduct</i>	-130.76	
			<i>For >20 To 40, Deduct</i>	-261.51	
			<i>For >40, Deduct</i>	-433.35	
26 56	13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,666.74	858.92
			<i>For >10 To 20, Deduct</i>	-141.67	
			<i>For >20 To 40, Deduct</i>	-283.34	
			<i>For >40, Deduct</i>	-467.95	
26 56	13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,455.30	896.27
			<i>For >10 To 20, Deduct</i>	-161.38	
			<i>For >20 To 40, Deduct</i>	-322.77	
			<i>For >40, Deduct</i>	-528.96	
26 56	13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,239.29	858.92
			<i>For >10 To 20, Deduct</i>	-155.98	
			<i>For >20 To 40, Deduct</i>	-311.96	
			<i>For >40, Deduct</i>	-510.89	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0161 EA 35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,372.14	896.27
For >10 To 20, Deduct	-159.30	
For >20 To 40, Deduct	-318.61	
For >40, Deduct	-522.72	
26 56 13 00-0162 EA 35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,667.59	933.60
For >10 To 20, Deduct	-191.69	
For >20 To 40, Deduct	-383.38	
For >40, Deduct	-621.75	
26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm (26 56 13 00-0091)		
26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0163)		
26 56 13 00-0165 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,050.63	448.13
For >10 To 20, Deduct	-76.27	
For >20 To 40, Deduct	-152.53	
For >40, Deduct	-251.20	
26 56 13 00-0166 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,127.38	448.13
For >10 To 20, Deduct	-78.18	
For >20 To 40, Deduct	-156.37	
For >40, Deduct	-256.96	
26 56 13 00-0167 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,204.29	448.13
For >10 To 20, Deduct	-80.11	
For >20 To 40, Deduct	-160.21	
For >40, Deduct	-262.73	
26 56 13 00-0168 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,663.19	597.51
For >10 To 20, Deduct	-91.58	
For >20 To 40, Deduct	-183.16	
For >40, Deduct	-304.61	
26 56 13 00-0169 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,721.68	597.51
For >10 To 20, Deduct	-93.04	
For >20 To 40, Deduct	-186.08	
For >40, Deduct	-309.00	
26 56 13 00-0170 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,785.59	597.51
For >10 To 20, Deduct	-94.64	
For >20 To 40, Deduct	-189.28	
For >40, Deduct	-313.79	
26 56 13 00-0171 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,133.21	672.19
For >10 To 20, Deduct	-103.33	
For >20 To 40, Deduct	-206.66	
For >40, Deduct	-343.60	
26 56 13 00-0172 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,212.62	672.19
For >10 To 20, Deduct	-105.32	
For >20 To 40, Deduct	-210.63	
For >40, Deduct	-349.56	
26 56 13 00-0173 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,224.54	672.19
For >10 To 20, Deduct	-105.61	
For >20 To 40, Deduct	-211.23	
For >40, Deduct	-350.45	
26 56 13 00-0174 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,490.48	709.54
For >10 To 20, Deduct	-112.26	
For >20 To 40, Deduct	-224.52	
For >40, Deduct	-372.26	
26 56 13 00-0175 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,525.31	709.54
For >10 To 20, Deduct	-113.13	
For >20 To 40, Deduct	-226.27	
For >40, Deduct	-374.88	
26 56 13 00-0176 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,606.97	709.54
For >10 To 20, Deduct	-115.17	
For >20 To 40, Deduct	-230.35	
For >40, Deduct	-381.00	
26 56 13 00-0177 Area Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0178 Steel Area Light Poles (26 56 13 00-0177) Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179 Round Straight, Steel Area Light Poles (26 56 13 00-0178)		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0179)</small>		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,182.88	261.41
			<i>For Galvanized Finish, Add</i>	19.80	
			<i>For >10 To 20, Deduct</i>	-39.47	
			<i>For >20 To 40, Deduct</i>	-72.35	
			<i>For >40, Deduct</i>	-151.29	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,294.14	298.76
			<i>For Galvanized Finish, Add</i>	20.90	
			<i>For >10 To 20, Deduct</i>	-42.80	
			<i>For >20 To 40, Deduct</i>	-78.64	
			<i>For >40, Deduct</i>	-164.25	
26 56 13 00-0183	EA		14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,447.44	336.10
			<i>For Galvanized Finish, Add</i>	23.26	
			<i>For >10 To 20, Deduct</i>	-47.81	
			<i>For >20 To 40, Deduct</i>	-87.88	
			<i>For >40, Deduct</i>	-183.51	
26 56 13 00-0184	EA		16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,604.41	373.45
			<i>For Galvanized Finish, Add</i>	25.73	
			<i>For >10 To 20, Deduct</i>	-52.97	
			<i>For >20 To 40, Deduct</i>	-97.37	
			<i>For >40, Deduct</i>	-203.32	
26 56 13 00-0185	EA		18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,715.67	410.78
			<i>For Galvanized Finish, Add</i>	26.82	
			<i>For >10 To 20, Deduct</i>	-56.30	
			<i>For >20 To 40, Deduct</i>	-103.67	
			<i>For >40, Deduct</i>	-216.27	
26 56 13 00-0186	EA		20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,817.79	448.13
			<i>For Galvanized Finish, Add</i>	27.65	
			<i>For >10 To 20, Deduct</i>	-59.27	
			<i>For >20 To 40, Deduct</i>	-109.32	
			<i>For >40, Deduct</i>	-227.86	
26 56 13 00-0187	EA		10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,230.42	261.41
			<i>For Galvanized Finish, Add</i>	21.23	
			<i>For >10 To 20, Deduct</i>	-41.37	
			<i>For >20 To 40, Deduct</i>	-75.67	
			<i>For >40, Deduct</i>	-158.42	
26 56 13 00-0188	EA		12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,343.51	298.76
			<i>For Galvanized Finish, Add</i>	22.38	
			<i>For >10 To 20, Deduct</i>	-44.78	
			<i>For >20 To 40, Deduct</i>	-82.10	
			<i>For >40, Deduct</i>	-171.65	
26 56 13 00-0189	EA		14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,546.17	336.10
			<i>For Galvanized Finish, Add</i>	26.22	
			<i>For >10 To 20, Deduct</i>	-51.76	
			<i>For >20 To 40, Deduct</i>	-94.79	
			<i>For >40, Deduct</i>	-198.32	
26 56 13 00-0190	EA		16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,668.40	373.45
			<i>For Galvanized Finish, Add</i>	27.65	
			<i>For >10 To 20, Deduct</i>	-55.53	
			<i>For >20 To 40, Deduct</i>	-101.85	
			<i>For >40, Deduct</i>	-212.92	
26 56 13 00-0191	EA		18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,785.15	410.78
			<i>For Galvanized Finish, Add</i>	28.91	
			<i>For >10 To 20, Deduct</i>	-59.08	
			<i>For >20 To 40, Deduct</i>	-108.53	
			<i>For >40, Deduct</i>	-226.69	
26 56 13 00-0192	EA		20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,883.62	448.13
			<i>For Galvanized Finish, Add</i>	29.62	
			<i>For >10 To 20, Deduct</i>	-61.90	
			<i>For >20 To 40, Deduct</i>	-113.93	
			<i>For >40, Deduct</i>	-237.73	
26 56 13 00-0193	EA		25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,250.01	597.51
			<i>For Galvanized Finish, Add</i>	31.65	
			<i>For >10 To 20, Deduct</i>	-72.08	
			<i>For >20 To 40, Deduct</i>	-133.60	
			<i>For >40, Deduct</i>	-277.75	
26 56 13 00-0194	EA		10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,230.42	261.41
			<i>For Galvanized Finish, Add</i>	21.23	
			<i>For >10 To 20, Deduct</i>	-41.37	
			<i>For >20 To 40, Deduct</i>	-75.67	
			<i>For >40, Deduct</i>	-158.42	
26 56 13 00-0195	EA		12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,348.99	298.76
			<i>For Galvanized Finish, Add</i>	22.54	
			<i>For >10 To 20, Deduct</i>	-45.00	
			<i>For >20 To 40, Deduct</i>	-82.48	
			<i>For >40, Deduct</i>	-172.47	
26 56 13 00-0196	EA		14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,575.43	336.10
			<i>For Galvanized Finish, Add</i>	27.10	
			<i>For >10 To 20, Deduct</i>	-52.93	
			<i>For >20 To 40, Deduct</i>	-96.84	
			<i>For >40, Deduct</i>	-202.71	
26 56 13 00-0197	EA		16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,673.89	373.45
			<i>For Galvanized Finish, Add</i>	27.81	
			<i>For >10 To 20, Deduct</i>	-55.75	
			<i>For >20 To 40, Deduct</i>	-102.23	
			<i>For >40, Deduct</i>	-213.74	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0198	EA		18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,785.15 28.91 -59.08 -108.53 -226.69	410.78
26 56 13 00-0199	EA		20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,883.62 29.62 -61.90 -113.93 -237.73	448.13
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,301.20 33.19 -74.12 -137.18 -285.43	597.51
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,545.66 36.04 -81.66 -151.31 -314.63	672.19
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,000.64 33.13 -66.58 -122.12 -255.28	448.13
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,324.97 33.90 -75.07 -138.85 -289.00	597.51
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,591.37 37.41 -83.49 -154.51 -321.49	672.19
26 56 13 00-0205 Round Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>					
26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0205)</small>					
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,413.86 45.53 -83.11 -151.04 -317.27	448.13
26 56 13 00-0208	EA		20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,470.54 47.23 -85.38 -155.01 -325.77	448.13
26 56 13 00-0209	EA		25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,893.61 50.96 -97.82 -178.65 -374.29	597.51
26 56 13 00-0210	EA		25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,010.63 54.47 -102.50 -186.84 -391.84	597.51
26 56 13 00-0211	EA		30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,225.83 56.44 -108.87 -198.92 -416.66	672.19
26 56 13 00-0212	EA		30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,421.48 62.31 -116.69 -212.62 -446.00	672.19
26 56 13 00-0213	EA		35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,536.40 63.52 -120.17 -219.17 -459.51	709.54
26 56 13 00-0214	EA		35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,657.08 67.14 -125.00 -227.61 -477.61	709.54
26 56 13 00-0215	EA		35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,945.97 75.81 -136.55 -247.84 -520.94	709.54

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,998.71	746.88
			<i>For Galvanized Finish, Add</i>	75.15	
			<i>For >10 To 20, Deduct</i>	-137.54	
			<i>For >20 To 40, Deduct</i>	-250.03	
			<i>For >40, Deduct</i>	-525.12	
26 56	13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,049.90	746.88
			<i>For Galvanized Finish, Add</i>	76.68	
			<i>For >10 To 20, Deduct</i>	-139.59	
			<i>For >20 To 40, Deduct</i>	-253.62	
			<i>For >40, Deduct</i>	-532.80	
26 56	13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,483.55	970.95
			<i>For Galvanized Finish, Add</i>	106.25	
			<i>For >10 To 20, Deduct</i>	-190.21	
			<i>For >20 To 40, Deduct</i>	-345.01	
			<i>For >40, Deduct</i>	-725.44	
26 56	13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,771.33	1,120.33
			<i>For Galvanized Finish, Add</i>	105.92	
			<i>For >10 To 20, Deduct</i>	-197.24	
			<i>For >20 To 40, Deduct</i>	-359.18	
			<i>For >40, Deduct</i>	-753.67	
26 56	13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,804.17	597.51
			<i>For Galvanized Finish, Add</i>	78.27	
			<i>For >10 To 20, Deduct</i>	-134.24	
			<i>For >20 To 40, Deduct</i>	-242.39	
			<i>For >40, Deduct</i>	-510.88	
26 56	13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,315.57	672.19
			<i>For Galvanized Finish, Add</i>	89.14	
			<i>For >10 To 20, Deduct</i>	-152.46	
			<i>For >20 To 40, Deduct</i>	-275.20	
			<i>For >40, Deduct</i>	-580.12	
26 56	13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,984.22	746.88
			<i>For Galvanized Finish, Add</i>	104.71	
			<i>For >10 To 20, Deduct</i>	-176.96	
			<i>For >20 To 40, Deduct</i>	-319.02	
			<i>For >40, Deduct</i>	-672.94	
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,054.02	970.95
			<i>For Galvanized Finish, Add</i>	123.36	
			<i>For >10 To 20, Deduct</i>	-213.03	
			<i>For >20 To 40, Deduct</i>	-384.94	
			<i>For >40, Deduct</i>	-811.01	
26 56	13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,058.54	1,120.33
			<i>For Galvanized Finish, Add</i>	144.54	
			<i>For >10 To 20, Deduct</i>	-248.73	
			<i>For >20 To 40, Deduct</i>	-449.28	
			<i>For >40, Deduct</i>	-946.75	
26 56	13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,802.70	1,120.33
			<i>For Galvanized Finish, Add</i>	166.86	
			<i>For >10 To 20, Deduct</i>	-278.50	
			<i>For >20 To 40, Deduct</i>	-501.38	
			<i>For >40, Deduct</i>	-1,058.37	
26 56	13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	10,289.35	1,120.33
			<i>For Galvanized Finish, Add</i>	241.46	
			<i>For >10 To 20, Deduct</i>	-377.96	
			<i>For >20 To 40, Deduct</i>	-675.44	
			<i>For >40, Deduct</i>	-1,431.37	
26 56	13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	11,496.11	1,120.33
			<i>For Galvanized Finish, Add</i>	277.66	
			<i>For >10 To 20, Deduct</i>	-426.23	
			<i>For >20 To 40, Deduct</i>	-759.91	
			<i>For >40, Deduct</i>	-1,612.38	
26 56	13 00-0228		Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0229		Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56	13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,168.25	261.41
			<i>For Galvanized Finish, Add</i>	19.36	
			<i>For >10 To 20, Deduct</i>	-38.89	
			<i>For >20 To 40, Deduct</i>	-71.32	
			<i>For >40, Deduct</i>	-149.10	
26 56	13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,242.94	298.76
			<i>For Galvanized Finish, Add</i>	19.36	
			<i>For >10 To 20, Deduct</i>	-40.75	
			<i>For >20 To 40, Deduct</i>	-75.06	
			<i>For >40, Deduct</i>	-156.57	
26 56	13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,348.71	336.10
			<i>For Galvanized Finish, Add</i>	20.30	
			<i>For >10 To 20, Deduct</i>	-43.87	
			<i>For >20 To 40, Deduct</i>	-80.97	
			<i>For >40, Deduct</i>	-168.70	
26 56	13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,429.94	354.77
			<i>For Galvanized Finish, Add</i>	21.61	
			<i>For >10 To 20, Deduct</i>	-46.55	
			<i>For >20 To 40, Deduct</i>	-85.91	
			<i>For >40, Deduct</i>	-179.01	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0234 EA 16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,467.28	373.45
For Galvanized Finish, Add	21.61	
For >10 To 20, Deduct	-47.49	
For >20 To 40, Deduct	-87.77	
For >40, Deduct	-182.75	
26 56 13 00-0235 EA 18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,563.08	410.78
For Galvanized Finish, Add	22.22	
For >10 To 20, Deduct	-50.16	
For >20 To 40, Deduct	-92.91	
For >40, Deduct	-193.23	
26 56 13 00-0236 EA 20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,653.24	448.13
For Galvanized Finish, Add	22.71	
For >10 To 20, Deduct	-52.69	
For >20 To 40, Deduct	-97.80	
For >40, Deduct	-203.17	
26 56 13 00-0237 EA 25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,061.68	597.51
For Galvanized Finish, Add	26.00	
For >10 To 20, Deduct	-64.54	
For >20 To 40, Deduct	-120.42	
For >40, Deduct	-249.50	
26 56 13 00-0238 EA 20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,900.07	448.13
For Galvanized Finish, Add	30.11	
For >10 To 20, Deduct	-62.56	
For >20 To 40, Deduct	-115.08	
For >40, Deduct	-240.20	
26 56 13 00-0239 EA 25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,401.77	597.51
For Galvanized Finish, Add	36.20	
For >10 To 20, Deduct	-78.15	
For >20 To 40, Deduct	-144.22	
For >40, Deduct	-300.52	
26 56 13 00-0240 EA 30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,750.45	672.19
For Galvanized Finish, Add	42.18	
For >10 To 20, Deduct	-89.85	
For >20 To 40, Deduct	-165.64	
For >40, Deduct	-345.35	
26 56 13 00-0241 EA 20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,832.42	448.13
For Galvanized Finish, Add	28.08	
For >10 To 20, Deduct	-59.85	
For >20 To 40, Deduct	-110.34	
For >40, Deduct	-230.05	
26 56 13 00-0242 EA 25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,270.12	597.51
For Galvanized Finish, Add	32.25	
For >10 To 20, Deduct	-72.88	
For >20 To 40, Deduct	-135.01	
For >40, Deduct	-280.77	
26 56 13 00-0243 EA 30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,637.08	672.19
For Galvanized Finish, Add	38.78	
For >10 To 20, Deduct	-85.32	
For >20 To 40, Deduct	-157.71	
For >40, Deduct	-328.34	
26 56 13 00-0244 EA 20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,064.63	448.13
For Galvanized Finish, Add	35.05	
For >10 To 20, Deduct	-69.14	
For >20 To 40, Deduct	-126.60	
For >40, Deduct	-264.88	
26 56 13 00-0245 EA 25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,566.33	597.51
For Galvanized Finish, Add	41.14	
For >10 To 20, Deduct	-84.73	
For >20 To 40, Deduct	-155.74	
For >40, Deduct	-325.20	
26 56 13 00-0246 EA 30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,905.86	672.19
For Galvanized Finish, Add	46.84	
For >10 To 20, Deduct	-96.07	
For >20 To 40, Deduct	-176.52	
For >40, Deduct	-368.66	
26 56 13 00-0247 EA 35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,207.28	709.54
For Galvanized Finish, Add	53.65	
For >10 To 20, Deduct	-107.00	
For >20 To 40, Deduct	-196.13	
For >40, Deduct	-410.14	
26 56 13 00-0248 EA 30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,266.06	672.19
For Galvanized Finish, Add	57.65	
For >10 To 20, Deduct	-110.48	
For >20 To 40, Deduct	-201.74	
For >40, Deduct	-422.69	
26 56 13 00-0249 EA 35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,569.31	709.54
For Galvanized Finish, Add	64.51	
For >10 To 20, Deduct	-121.49	
For >20 To 40, Deduct	-221.47	
For >40, Deduct	-464.44	
26 56 13 00-0250 EA 40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,773.81	746.88
For Galvanized Finish, Add	68.40	
For >10 To 20, Deduct	-128.55	
For >20 To 40, Deduct	-234.29	
For >40, Deduct	-491.38	

26 Electrical
26 50 Lighting
 26 56 Exterior Lighting



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0251	Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252	Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253	EA 20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....3,928.17		448.13
	For Galvanized Finish, Add 90.96		
	For >10 To 20, Deduct -143.68		
	For >20 To 40, Deduct -257.05		
	For >40, Deduct -544.41		
26 56 13 00-0254	EA 25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....4,433.06		597.51
	For Galvanized Finish, Add 97.14		
	For >10 To 20, Deduct -159.40		
	For >20 To 40, Deduct -286.41		
	For >40, Deduct -605.21		
26 56 13 00-0255	EA 30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....6,122.70		672.19
	For Galvanized Finish, Add 143.35		
	For >10 To 20, Deduct -224.74		
	For >20 To 40, Deduct -401.70		
	For >40, Deduct -851.19		
26 56 13 00-0256	EA 20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....4,002.07		448.13
	For Galvanized Finish, Add 93.17		
	For >10 To 20, Deduct -146.64		
	For >20 To 40, Deduct -262.22		
	For >40, Deduct -555.50		
26 56 13 00-0257	EA 25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....4,862.85		597.51
	For Galvanized Finish, Add 110.04		
	For >10 To 20, Deduct -176.59		
	For >20 To 40, Deduct -316.50		
	For >40, Deduct -669.68		
26 56 13 00-0258	EA 30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....6,762.53		672.19
	For Galvanized Finish, Add 162.54		
	For >10 To 20, Deduct -250.34		
	For >20 To 40, Deduct -446.49		
	For >40, Deduct -947.16		
26 56 13 00-0259	EA 35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....7,729.88		709.54
	For Galvanized Finish, Add 189.32		
	For >10 To 20, Deduct -287.91		
	For >20 To 40, Deduct -512.71		
	For >40, Deduct -1,088.53		
26 56 13 00-0260	EA 39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....9,043.38		746.88
	For Galvanized Finish, Add 226.49		
	For >10 To 20, Deduct -339.33		
	For >20 To 40, Deduct -603.16		
	For >40, Deduct -1,281.82		
26 56 13 00-0261	EA 20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....3,811.49		448.13
	For Galvanized Finish, Add 87.46		
	For >10 To 20, Deduct -139.02		
	For >20 To 40, Deduct -248.88		
	For >40, Deduct -526.91		
26 56 13 00-0262	EA 25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....4,246.36		597.51
	For Galvanized Finish, Add 91.54		
	For >10 To 20, Deduct -151.93		
	For >20 To 40, Deduct -273.35		
	For >40, Deduct -577.20		
26 56 13 00-0263	EA 30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....5,794.03		672.19
	For Galvanized Finish, Add 133.49		
	For >10 To 20, Deduct -211.60		
	For >20 To 40, Deduct -378.69		
	For >40, Deduct -801.89		
26 56 13 00-0264	EA 20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....3,945.68		448.13
	For Galvanized Finish, Add 91.48		
	For >10 To 20, Deduct -144.38		
	For >20 To 40, Deduct -258.27		
	For >40, Deduct -547.04		
26 56 13 00-0265	EA 25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....4,687.82		597.51
	For Galvanized Finish, Add 104.78		
	For >10 To 20, Deduct -169.59		
	For >20 To 40, Deduct -304.25		
	For >40, Deduct -643.42		
26 56 13 00-0266	EA 30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base .....6,519.43		672.19
	For Galvanized Finish, Add 155.25		
	For >10 To 20, Deduct -240.61		
	For >20 To 40, Deduct -429.47		
	For >40, Deduct -910.70		
26 56 13 00-0267	EA 20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....4,151.82		448.13
	For Galvanized Finish, Add 97.67		
	For >10 To 20, Deduct -152.63		
	For >20 To 40, Deduct -272.70		
	For >40, Deduct -577.96		
26 56 13 00-0268	EA 25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....5,059.28		597.51
	For Galvanized Finish, Add 115.93		
	For >10 To 20, Deduct -184.45		
	For >20 To 40, Deduct -330.25		
	For >40, Deduct -699.14		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0269 EA 30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,957.01 168.38 -258.11 -460.10 -976.33	672.19
26 56 13 00-0270 EA 35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,967.14 196.44 -297.40 -529.32 -1,124.12	709.54
26 56 13 00-0271 EA 39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,169.79 230.28 -344.39 -612.01 -1,300.78	746.88
26 56 13 00-0272 Square Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0273 Square Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0272)</small>		
26 56 13 00-0274 EA 20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,030.04 64.01 -107.76 -194.18 -409.69	448.13
26 56 13 00-0275 EA 25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,705.43 75.31 -130.29 -235.48 -496.06	597.51
26 56 13 00-0276 EA 30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,127.25 83.49 -144.92 -262.02 -551.87	672.19
26 56 13 00-0277 EA 35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,562.14 94.29 -161.20 -290.97 -613.37	709.54
26 56 13 00-0278 EA 39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,808.70 99.45 -169.94 -306.73 -646.62	746.88
26 56 13 00-0279 EA 20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,851.00 88.64 -140.60 -251.64 -532.84	448.13
26 56 13 00-0280 EA 25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,349.03 94.62 -156.04 -280.53 -592.60	597.51
26 56 13 00-0281 EA 30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,653.83 99.28 -165.99 -298.88 -630.86	672.19
26 56 13 00-0282 EA 30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,136.53 113.76 -185.30 -332.67 -703.26	672.19
26 56 13 00-0283 EA 35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,558.63 124.19 -201.06 -360.72 -762.84	709.54
26 56 13 00-0284 EA 35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,156.53 142.12 -224.97 -402.58 -852.53	709.54
26 56 13 00-0285 EA 39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,660.74 125.01 -204.02 -366.38 -774.42	746.88
26 56 13 00-0286 EA 39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,132.62 169.17 -262.90 -469.41 -995.20	746.88

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0287	EA		45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	6,728.70	970.95
			<i>For Galvanized Finish, Add</i>	143.60	
			<i>For >10 To 20, Deduct</i>	-240.02	
			<i>For >20 To 40, Deduct</i>	-432.17	
			<i>For >40, Deduct</i>	-912.21	
26 56 13 00-0288	EA		45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	7,732.51	970.95
			<i>For Galvanized Finish, Add</i>	173.72	
			<i>For >10 To 20, Deduct</i>	-280.17	
			<i>For >20 To 40, Deduct</i>	-502.44	
			<i>For >40, Deduct</i>	-1,062.78	
26 56 13 00-0289	EA		50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	8,082.45	1,120.33
			<i>For Galvanized Finish, Add</i>	175.25	
			<i>For >10 To 20, Deduct</i>	-289.69	
			<i>For >20 To 40, Deduct</i>	-520.96	
			<i>For >40, Deduct</i>	-1,100.34	
26 56 13 00-0290			Factory Accessories For Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0291	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	64.83	
26 56 13 00-0292	EA		Extra Handhole For Steel Area Light Poles	96.41	
26 56 13 00-0293	EA		Vibration Dampener For Steel Area Light Poles	98.07	
26 56 13 00-0294			Aluminum Area Light Poles <small>(26 56 13 00-0177)</small>		
			Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295			Round Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0296			Round Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0295)</small>		
26 56 13 00-0297	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	820.50	224.06
			<i>For Bronze Or Satin Anodized Finish, Add</i>	37.24	
			<i>For Black Anodized Finish, Add</i>	74.47	
			<i>For >10 To 20, Deduct</i>	-26.10	
			<i>For >20 To 40, Deduct</i>	-48.47	
			<i>For >40, Deduct</i>	-100.67	
26 56 13 00-0298	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	914.29	261.41
			<i>For Bronze Or Satin Anodized Finish, Add</i>	39.15	
			<i>For Black Anodized Finish, Add</i>	78.29	
			<i>For >10 To 20, Deduct</i>	-28.73	
			<i>For >20 To 40, Deduct</i>	-53.54	
			<i>For >40, Deduct</i>	-111.00	
26 56 13 00-0299	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,012.85	298.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	41.53	
			<i>For Black Anodized Finish, Add</i>	83.07	
			<i>For >10 To 20, Deduct</i>	-31.55	
			<i>For >20 To 40, Deduct</i>	-58.95	
			<i>For >40, Deduct</i>	-122.05	
26 56 13 00-0300	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,112.35	336.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	44.02	
			<i>For Black Anodized Finish, Add</i>	88.03	
			<i>For >10 To 20, Deduct</i>	-34.41	
			<i>For >20 To 40, Deduct</i>	-64.42	
			<i>For >40, Deduct</i>	-133.24	
26 56 13 00-0301	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,165.93	354.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	45.64	
			<i>For Black Anodized Finish, Add</i>	91.28	
			<i>For >10 To 20, Deduct</i>	-35.99	
			<i>For >20 To 40, Deduct</i>	-67.42	
			<i>For >40, Deduct</i>	-139.41	
26 56 13 00-0302	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,218.55	373.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	47.17	
			<i>For Black Anodized Finish, Add</i>	94.33	
			<i>For >10 To 20, Deduct</i>	-37.54	
			<i>For >20 To 40, Deduct</i>	-70.36	
			<i>For >40, Deduct</i>	-145.44	
26 56 13 00-0303	EA		16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,275.84	373.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.90	
			<i>For Black Anodized Finish, Add</i>	105.79	
			<i>For >10 To 20, Deduct</i>	-39.83	
			<i>For >20 To 40, Deduct</i>	-74.37	
			<i>For >40, Deduct</i>	-154.03	
26 56 13 00-0304	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,386.81	410.78
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.52	
			<i>For Black Anodized Finish, Add</i>	113.05	
			<i>For >10 To 20, Deduct</i>	-43.15	
			<i>For >20 To 40, Deduct</i>	-80.65	
			<i>For >40, Deduct</i>	-166.94	
26 56 13 00-0305	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,492.07	448.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	59.58	
			<i>For Black Anodized Finish, Add</i>	119.16	
			<i>For >10 To 20, Deduct</i>	-46.24	
			<i>For >20 To 40, Deduct</i>	-86.52	
			<i>For >40, Deduct</i>	-179.00	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0306 EA 15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,376.95	354.77
For Bronze Or Satin Anodized Finish, Add	66.74	
For Black Anodized Finish, Add	133.48	
For >10 To 20, Deduct	-44.43	
For >20 To 40, Deduct	-82.20	
For >40, Deduct	-171.07	
26 56 13 00-0307 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,703.08	448.13
For Bronze Or Satin Anodized Finish, Add	80.68	
For Black Anodized Finish, Add	161.36	
For >10 To 20, Deduct	-54.68	
For >20 To 40, Deduct	-101.29	
For >40, Deduct	-210.65	
26 56 13 00-0308 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,810.01	448.13
For Bronze Or Satin Anodized Finish, Add	91.37	
For Black Anodized Finish, Add	182.75	
For >10 To 20, Deduct	-58.96	
For >20 To 40, Deduct	-108.78	
For >40, Deduct	-226.69	
26 56 13 00-0309 EA 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,209.01	597.51
For Bronze Or Satin Anodized Finish, Add	101.40	
For Black Anodized Finish, Add	202.80	
For >10 To 20, Deduct	-70.44	
For >20 To 40, Deduct	-130.73	
For >40, Deduct	-271.60	
26 56 13 00-0310 EA 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,548.39	672.19
For Bronze Or Satin Anodized Finish, Add	120.40	
For Black Anodized Finish, Add	240.80	
For >10 To 20, Deduct	-81.77	
For >20 To 40, Deduct	-151.50	
For >40, Deduct	-315.04	
26 56 13 00-0311 EA 20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	1,557.95	448.13
For Bronze Or Satin Anodized Finish, Add	66.17	
For Black Anodized Finish, Add	132.34	
For >10 To 20, Deduct	-48.87	
For >20 To 40, Deduct	-91.13	
For >40, Deduct	-188.88	
26 56 13 00-0312 EA 20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	1,801.42	448.13
For Bronze Or Satin Anodized Finish, Add	90.52	
For Black Anodized Finish, Add	181.03	
For >10 To 20, Deduct	-58.61	
For >20 To 40, Deduct	-108.17	
For >40, Deduct	-225.40	
26 56 13 00-0313 EA 25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,193.73	597.51
For Bronze Or Satin Anodized Finish, Add	99.87	
For Black Anodized Finish, Add	199.74	
For >10 To 20, Deduct	-69.82	
For >20 To 40, Deduct	-129.66	
For >40, Deduct	-269.31	
26 56 13 00-0314 EA 25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,332.18	597.51
For Bronze Or Satin Anodized Finish, Add	113.72	
For Black Anodized Finish, Add	227.43	
For >10 To 20, Deduct	-75.36	
For >20 To 40, Deduct	-139.35	
For >40, Deduct	-290.08	
26 56 13 00-0315 EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,704.98	672.19
For Bronze Or Satin Anodized Finish, Add	136.06	
For Black Anodized Finish, Add	272.12	
For >10 To 20, Deduct	-88.03	
For >20 To 40, Deduct	-162.46	
For >40, Deduct	-338.53	
26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0295)</small>		
26 56 13 00-0317 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	917.89	224.06
For Bronze, Satin Or Black Anodized Finish, Add	70.46	
For >10 To 20, Deduct	-29.99	
For >20 To 40, Deduct	-55.29	
For >40, Deduct	-115.28	
26 56 13 00-0318 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,030.77	261.41
For Bronze, Satin Or Black Anodized Finish, Add	76.19	
For >10 To 20, Deduct	-33.39	
For >20 To 40, Deduct	-61.70	
For >40, Deduct	-128.47	
26 56 13 00-0319 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,139.84	298.76
For Bronze, Satin Or Black Anodized Finish, Add	81.35	
For >10 To 20, Deduct	-36.63	
For >20 To 40, Deduct	-67.84	
For >40, Deduct	-141.10	
26 56 13 00-0320 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,230.75	336.10
For Bronze, Satin Or Black Anodized Finish, Add	83.78	
For >10 To 20, Deduct	-39.15	
For >20 To 40, Deduct	-72.71	
For >40, Deduct	-151.00	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0321	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,333.13 87.94 -42.12 -78.38 -162.63	373.45
26 56	13 00-0322	EA	10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,050.82 79.20 -34.19 -63.10 -131.48	261.41
26 56	13 00-0323	EA	12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,157.98 84.07 -37.36 -69.11 -143.82	298.76
26 56	13 00-0324	EA	14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,267.99 89.37 -40.64 -75.32 -156.59	336.10
26 56	13 00-0325	EA	16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,377.05 94.53 -43.88 -81.46 -169.21	373.45
26 56	13 00-0326	EA	18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,490.88 100.40 -47.31 -87.93 -182.55	410.78
26 56	13 00-0327	EA	20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,599.00 105.41 -50.52 -94.00 -195.04	448.13
26 56	13 00-0328	EA	12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,195.21 89.66 -38.85 -71.71 -149.41	298.76
26 56	13 00-0329	EA	14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,311.91 95.96 -42.39 -78.39 -163.18	336.10
26 56	13 00-0330	EA	16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,427.65 102.12 -45.90 -85.00 -176.80	373.45
26 56	13 00-0331	EA	18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,545.31 108.56 -49.49 -91.74 -190.72	410.78
26 56	13 00-0332	EA	16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,481.12 110.14 -48.04 -88.74 -184.82	373.45
26 56	13 00-0333	EA	20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,724.08 124.17 -55.52 -102.76 -213.80	448.13
26 56	13 00-0334	EA	12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,230.54 94.95 -40.26 -74.19 -154.71	298.76
26 56	13 00-0335	EA	14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,357.74 102.83 -44.23 -81.60 -170.05	336.10
26 56	13 00-0336	EA	16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,475.39 109.28 -47.81 -88.34 -183.96	373.45
26 56	13 00-0337	EA	18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,598.78 116.58 -51.63 -95.48 -198.74	410.78



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0338	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base.....	1,719.31	448.13
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	123.46	
			<i>For >10 To 20, Deduct</i>	-55.33	
			<i>For >20 To 40, Deduct</i>	-102.43	
			<i>For >40, Deduct</i>	-213.08	
26 56 13 00-0339	EA		16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base.....	1,545.09	373.45
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	119.73	
			<i>For >10 To 20, Deduct</i>	-50.60	
			<i>For >20 To 40, Deduct</i>	-93.22	
			<i>For >40, Deduct</i>	-194.42	
26 56 13 00-0340	EA		18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base.....	1,677.07	410.78
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	128.33	
			<i>For >10 To 20, Deduct</i>	-54.76	
			<i>For >20 To 40, Deduct</i>	-100.96	
			<i>For >40, Deduct</i>	-210.48	
26 56 13 00-0341	EA		20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base.....	1,748.91	448.13
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	127.90	
			<i>For >10 To 20, Deduct</i>	-56.51	
			<i>For >20 To 40, Deduct</i>	-104.50	
			<i>For >40, Deduct</i>	-217.52	
26 56 13 00-0342			Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295)		
			Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0343	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	724.82	186.72
			<i>For Bronze Or Satin Anodized Finish, Add</i>	35.14	
			<i>For Black Anodized Finish, Add</i>	70.27	
			<i>For >10 To 20, Deduct</i>	-23.39	
			<i>For >20 To 40, Deduct</i>	-43.27	
			<i>For >40, Deduct</i>	-90.05	
26 56 13 00-0344	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	780.29	205.39
			<i>For Bronze Or Satin Anodized Finish, Add</i>	36.95	
			<i>For Black Anodized Finish, Add</i>	73.90	
			<i>For >10 To 20, Deduct</i>	-25.05	
			<i>For >20 To 40, Deduct</i>	-46.40	
			<i>For >40, Deduct</i>	-96.50	
26 56 13 00-0345	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	860.60	224.06
			<i>For Bronze Or Satin Anodized Finish, Add</i>	41.25	
			<i>For Black Anodized Finish, Add</i>	82.49	
			<i>For >10 To 20, Deduct</i>	-27.70	
			<i>For >20 To 40, Deduct</i>	-51.28	
			<i>For >40, Deduct</i>	-106.68	
26 56 13 00-0346	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	882.56	224.06
			<i>For Bronze Or Satin Anodized Finish, Add</i>	43.44	
			<i>For Black Anodized Finish, Add</i>	86.89	
			<i>For >10 To 20, Deduct</i>	-28.58	
			<i>For >20 To 40, Deduct</i>	-52.82	
			<i>For >40, Deduct</i>	-109.98	
26 56 13 00-0347	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	910.25	224.06
			<i>For Bronze Or Satin Anodized Finish, Add</i>	46.21	
			<i>For Black Anodized Finish, Add</i>	92.42	
			<i>For >10 To 20, Deduct</i>	-29.69	
			<i>For >20 To 40, Deduct</i>	-54.75	
			<i>For >40, Deduct</i>	-114.13	
26 56 13 00-0348	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,031.62	242.74
			<i>For Bronze Or Satin Anodized Finish, Add</i>	54.62	
			<i>For Black Anodized Finish, Add</i>	109.23	
			<i>For >10 To 20, Deduct</i>	-33.98	
			<i>For >20 To 40, Deduct</i>	-62.50	
			<i>For >40, Deduct</i>	-130.47	
26 56 13 00-0349	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,104.29	261.41
			<i>For Bronze Or Satin Anodized Finish, Add</i>	58.15	
			<i>For Black Anodized Finish, Add</i>	116.29	
			<i>For >10 To 20, Deduct</i>	-36.33	
			<i>For >20 To 40, Deduct</i>	-66.84	
			<i>For >40, Deduct</i>	-139.50	
26 56 13 00-0350	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,252.29	261.41
			<i>For Bronze Or Satin Anodized Finish, Add</i>	72.95	
			<i>For Black Anodized Finish, Add</i>	145.89	
			<i>For >10 To 20, Deduct</i>	-42.25	
			<i>For >20 To 40, Deduct</i>	-77.20	
			<i>For >40, Deduct</i>	-161.70	
26 56 13 00-0351	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,516.98	298.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	91.95	
			<i>For Black Anodized Finish, Add</i>	183.89	
			<i>For >10 To 20, Deduct</i>	-51.72	
			<i>For >20 To 40, Deduct</i>	-94.24	
			<i>For >40, Deduct</i>	-197.67	
26 56 13 00-0352	EA		30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,719.61	336.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	104.74	
			<i>For Black Anodized Finish, Add</i>	209.48	
			<i>For >10 To 20, Deduct</i>	-58.70	
			<i>For >20 To 40, Deduct</i>	-106.93	
			<i>For >40, Deduct</i>	-224.33	

26 Electrical

26 50 Lighting

26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0353 EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,894.33	336.10
For Bronze Or Satin Anodized Finish, Add	122.21	
For Black Anodized Finish, Add	244.43	
For >10 To 20, Deduct	-65.69	
For >20 To 40, Deduct	-119.16	
For >40, Deduct	-250.54	
26 56 13 00-0354 Round Tapered, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0355 Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0354)		
26 56 13 00-0356 EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	718.34	224.06
For Bronze Or Satin Anodized Finish, Add	27.02	
For Black Anodized Finish, Add	54.04	
For >10 To 20, Deduct	-22.01	
For >20 To 40, Deduct	-41.32	
For >40, Deduct	-85.34	
26 56 13 00-0357 EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	814.99	261.41
For Bronze Or Satin Anodized Finish, Add	29.22	
For Black Anodized Finish, Add	58.43	
For >10 To 20, Deduct	-24.76	
For >20 To 40, Deduct	-46.59	
For >40, Deduct	-96.11	
26 56 13 00-0358 EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	911.64	298.76
For Bronze Or Satin Anodized Finish, Add	31.41	
For Black Anodized Finish, Add	62.83	
For >10 To 20, Deduct	-27.50	
For >20 To 40, Deduct	-51.86	
For >40, Deduct	-106.87	
26 56 13 00-0359 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,016.87	336.10
For Bronze Or Satin Anodized Finish, Add	34.47	
For Black Anodized Finish, Add	68.94	
For >10 To 20, Deduct	-30.59	
For >20 To 40, Deduct	-57.74	
For >40, Deduct	-118.92	
26 56 13 00-0360 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,121.16	373.45
For Bronze Or Satin Anodized Finish, Add	37.43	
For Black Anodized Finish, Add	74.86	
For >10 To 20, Deduct	-33.64	
For >20 To 40, Deduct	-63.54	
For >40, Deduct	-130.83	
26 56 13 00-0361 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	839.81	261.41
For Bronze Or Satin Anodized Finish, Add	31.70	
For Black Anodized Finish, Add	63.40	
For >10 To 20, Deduct	-25.75	
For >20 To 40, Deduct	-48.33	
For >40, Deduct	-99.83	
26 56 13 00-0362 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	950.79	298.76
For Bronze Or Satin Anodized Finish, Add	35.33	
For Black Anodized Finish, Add	70.66	
For >10 To 20, Deduct	-29.07	
For >20 To 40, Deduct	-54.61	
For >40, Deduct	-112.74	
26 56 13 00-0363 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,058.88	336.10
For Bronze Or Satin Anodized Finish, Add	38.67	
For Black Anodized Finish, Add	77.34	
For >10 To 20, Deduct	-32.27	
For >20 To 40, Deduct	-60.68	
For >40, Deduct	-125.22	
26 56 13 00-0364 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,268.42	410.78
For Bronze Or Satin Anodized Finish, Add	44.69	
For Black Anodized Finish, Add	89.37	
For >10 To 20, Deduct	-38.41	
For >20 To 40, Deduct	-72.36	
For >40, Deduct	-149.18	
26 56 13 00-0365 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,366.99	448.13
For Bronze Or Satin Anodized Finish, Add	47.07	
For Black Anodized Finish, Add	94.14	
For >10 To 20, Deduct	-41.24	
For >20 To 40, Deduct	-77.76	
For >40, Deduct	-160.24	
26 56 13 00-0366 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	986.11	298.76
For Bronze Or Satin Anodized Finish, Add	38.86	
For Black Anodized Finish, Add	77.72	
For >10 To 20, Deduct	-30.48	
For >20 To 40, Deduct	-57.08	
For >40, Deduct	-118.04	
26 56 13 00-0367 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,099.94	336.10
For Bronze Or Satin Anodized Finish, Add	42.78	
For Black Anodized Finish, Add	85.55	
For >10 To 20, Deduct	-33.91	
For >20 To 40, Deduct	-63.55	
For >40, Deduct	-131.38	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,220.46 47.36 94.72 -37.62 -70.49 -145.73	373.45
26 56	13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,323.79 50.22 100.44 -40.63 -76.23 -157.49	410.78
26 56	13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,440.51 54.42 108.85 -44.18 -82.91 -171.26	448.13
26 56	13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,314.03 56.72 113.43 -41.36 -77.04 -159.76	373.45
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,443.14 62.16 124.31 -45.40 -84.59 -175.39	410.78
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,533.12 63.69 127.37 -47.88 -89.39 -185.15	448.13
26 56	13 00-0374	EA	23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,767.47 72.18 144.37 -55.01 -102.81 -212.84	522.82
26 56	13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,007.54 81.25 162.51 -62.38 -116.63 -241.38	597.51
26 56	13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,536.72 71.52 143.03 -49.15 -91.14 -189.43	410.78
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,646.74 75.05 150.09 -52.43 -97.35 -202.20	448.13
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,857.22 81.16 162.32 -58.60 -109.09 -226.30	522.82
26 56	13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,076.29 88.13 176.26 -65.13 -121.44 -251.69	597.51
26 56	13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,228.32 95.86 191.72 -70.09 -130.59 -270.76	634.86
26 56	13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,382.26 103.79 207.57 -75.12 -139.87 -290.12	672.19

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0382	EA		23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,946.02	522.82
			<i>For Bronze Or Satin Anodized Finish, Add</i>	90.04	
			<i>For Black Anodized Finish, Add</i>	180.08	
			<i>For >10 To 20, Deduct</i>	-62.16	
			<i>For >20 To 40, Deduct</i>	-115.31	
			<i>For >40, Deduct</i>	-239.62	
26 56 13 00-0383	EA		25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,135.49	597.51
			<i>For Bronze Or Satin Anodized Finish, Add</i>	94.05	
			<i>For Black Anodized Finish, Add</i>	188.10	
			<i>For >10 To 20, Deduct</i>	-67.49	
			<i>For >20 To 40, Deduct</i>	-125.58	
			<i>For >40, Deduct</i>	-260.57	
26 56 13 00-0384	EA		28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,292.29	634.86
			<i>For Bronze Or Satin Anodized Finish, Add</i>	102.26	
			<i>For Black Anodized Finish, Add</i>	204.52	
			<i>For >10 To 20, Deduct</i>	-72.65	
			<i>For >20 To 40, Deduct</i>	-135.07	
			<i>For >40, Deduct</i>	-280.36	
26 56 13 00-0385	EA		30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,481.56	672.19
			<i>For Bronze Or Satin Anodized Finish, Add</i>	113.72	
			<i>For Black Anodized Finish, Add</i>	227.43	
			<i>For >10 To 20, Deduct</i>	-79.10	
			<i>For >20 To 40, Deduct</i>	-146.82	
			<i>For >40, Deduct</i>	-305.01	
26 56 13 00-0386	EA		33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,561.87	690.86
			<i>For Bronze Or Satin Anodized Finish, Add</i>	118.01	
			<i>For Black Anodized Finish, Add</i>	236.03	
			<i>For >10 To 20, Deduct</i>	-81.75	
			<i>For >20 To 40, Deduct</i>	-151.70	
			<i>For >40, Deduct</i>	-315.19	
26 56 13 00-0387	EA		35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,714.75	709.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	129.57	
			<i>For Black Anodized Finish, Add</i>	259.13	
			<i>For >10 To 20, Deduct</i>	-87.30	
			<i>For >20 To 40, Deduct</i>	-161.65	
			<i>For >40, Deduct</i>	-336.26	
26 56 13 00-0388	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,025.26	298.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.78	
			<i>For Black Anodized Finish, Add</i>	85.55	
			<i>For >10 To 20, Deduct</i>	-32.05	
			<i>For >20 To 40, Deduct</i>	-59.82	
			<i>For >40, Deduct</i>	-123.91	
26 56 13 00-0389	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,145.77	336.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	47.36	
			<i>For Black Anodized Finish, Add</i>	94.72	
			<i>For >10 To 20, Deduct</i>	-35.75	
			<i>For >20 To 40, Deduct</i>	-66.76	
			<i>For >40, Deduct</i>	-138.26	
26 56 13 00-0390	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,270.11	373.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.32	
			<i>For Black Anodized Finish, Add</i>	104.65	
			<i>For >10 To 20, Deduct</i>	-39.60	
			<i>For >20 To 40, Deduct</i>	-73.97	
			<i>For >40, Deduct</i>	-153.17	
26 56 13 00-0391	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,383.95	410.78
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.24	
			<i>For Black Anodized Finish, Add</i>	112.48	
			<i>For >10 To 20, Deduct</i>	-43.03	
			<i>For >20 To 40, Deduct</i>	-80.45	
			<i>For >40, Deduct</i>	-166.51	
26 56 13 00-0392	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,496.84	448.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	60.06	
			<i>For Black Anodized Finish, Add</i>	120.11	
			<i>For >10 To 20, Deduct</i>	-46.43	
			<i>For >20 To 40, Deduct</i>	-86.85	
			<i>For >40, Deduct</i>	-179.71	
26 56 13 00-0393	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,374.18	373.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	62.73	
			<i>For Black Anodized Finish, Add</i>	125.46	
			<i>For >10 To 20, Deduct</i>	-43.76	
			<i>For >20 To 40, Deduct</i>	-81.26	
			<i>For >40, Deduct</i>	-168.78	
26 56 13 00-0394	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,506.16	410.78
			<i>For Bronze Or Satin Anodized Finish, Add</i>	68.46	
			<i>For Black Anodized Finish, Add</i>	136.92	
			<i>For >10 To 20, Deduct</i>	-47.92	
			<i>For >20 To 40, Deduct</i>	-89.00	
			<i>For >40, Deduct</i>	-184.85	
26 56 13 00-0395	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,608.55	448.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	71.23	
			<i>For Black Anodized Finish, Add</i>	142.46	
			<i>For >10 To 20, Deduct</i>	-50.90	
			<i>For >20 To 40, Deduct</i>	-94.67	
			<i>For >40, Deduct</i>	-196.47	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0396 EA 23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,838.12	522.82
For Bronze Or Satin Anodized Finish, Add	79.25	
For Black Anodized Finish, Add	158.50	
For >10 To 20, Deduct	-57.84	
For >20 To 40, Deduct	-107.76	
For >40, Deduct	-223.44	
26 56 13 00-0397 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,073.43	597.51
For Bronze Or Satin Anodized Finish, Add	87.84	
For Black Anodized Finish, Add	175.68	
For >10 To 20, Deduct	-65.01	
For >20 To 40, Deduct	-121.24	
For >40, Deduct	-251.26	
26 56 13 00-0398 EA 23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,053.91	522.82
For Bronze Or Satin Anodized Finish, Add	100.83	
For Black Anodized Finish, Add	201.65	
For >10 To 20, Deduct	-66.47	
For >20 To 40, Deduct	-122.86	
For >40, Deduct	-255.80	
26 56 13 00-0399 EA 25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,278.71	597.51
For Bronze Or Satin Anodized Finish, Add	108.37	
For Black Anodized Finish, Add	216.74	
For >10 To 20, Deduct	-73.22	
For >20 To 40, Deduct	-135.61	
For >40, Deduct	-282.06	
26 56 13 00-0400 EA 28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,446.97	634.86
For Bronze Or Satin Anodized Finish, Add	117.73	
For Black Anodized Finish, Add	235.45	
For >10 To 20, Deduct	-78.83	
For >20 To 40, Deduct	-145.89	
For >40, Deduct	-303.56	
26 56 13 00-0401 EA 30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,599.00	672.19
For Bronze Or Satin Anodized Finish, Add	125.46	
For Black Anodized Finish, Add	250.92	
For >10 To 20, Deduct	-83.79	
For >20 To 40, Deduct	-155.04	
For >40, Deduct	-322.63	
26 56 13 00-0402 EA 33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,728.96	690.86
For Bronze Or Satin Anodized Finish, Add	134.72	
For Black Anodized Finish, Add	269.44	
For >10 To 20, Deduct	-88.43	
For >20 To 40, Deduct	-163.39	
For >40, Deduct	-340.26	
26 56 13 00-0403 EA 35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,843.65	709.54
For Bronze Or Satin Anodized Finish, Add	142.46	
For Black Anodized Finish, Add	284.91	
For >10 To 20, Deduct	-92.46	
For >20 To 40, Deduct	-170.67	
For >40, Deduct	-355.59	
26 56 13 00-0404 EA 37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,943.04	728.21
For Bronze Or Satin Anodized Finish, Add	148.66	
For Black Anodized Finish, Add	297.32	
For >10 To 20, Deduct	-95.88	
For >20 To 40, Deduct	-176.88	
For >40, Deduct	-368.64	
26 56 13 00-0405 EA 39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,114.07	746.88
For Bronze Or Satin Anodized Finish, Add	162.03	
For Black Anodized Finish, Add	324.06	
For >10 To 20, Deduct	-102.16	
For >20 To 40, Deduct	-188.11	
For >40, Deduct	-392.42	
26 56 13 00-0406 EA 28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,859.44	634.86
For Bronze Or Satin Anodized Finish, Add	158.97	
For Black Anodized Finish, Add	317.95	
For >10 To 20, Deduct	-95.33	
For >20 To 40, Deduct	-174.77	
For >40, Deduct	-365.43	
26 56 13 00-0407 EA 30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,076.40	672.19
For Bronze Or Satin Anodized Finish, Add	173.20	
For Black Anodized Finish, Add	346.40	
For >10 To 20, Deduct	-102.89	
For >20 To 40, Deduct	-188.46	
For >40, Deduct	-394.24	
26 56 13 00-0408 EA 33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,225.46	690.86
For Bronze Or Satin Anodized Finish, Add	184.37	
For Black Anodized Finish, Add	368.74	
For >10 To 20, Deduct	-108.29	
For >20 To 40, Deduct	-198.15	
For >40, Deduct	-414.73	
26 56 13 00-0409 EA 35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,341.10	709.54
For Bronze Or Satin Anodized Finish, Add	192.20	
For Black Anodized Finish, Add	384.40	
For >10 To 20, Deduct	-112.36	
For >20 To 40, Deduct	-205.50	
For >40, Deduct	-430.21	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,409.94 195.35 390.70 -114.55 -209.57 -438.67	728.21
26 56	13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,597.19 210.34 420.68 -121.48 -221.93 -464.89	746.88
26 56	13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,728.63 145.89 291.79 -90.10 -165.61 -345.81	634.86
26 56	13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,928.40 158.40 316.80 -96.97 -178.10 -372.04	672.19
26 56	13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,008.72 162.70 325.40 -99.62 -182.98 -382.22	690.86
26 56	13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,198.84 177.98 355.95 -106.67 -195.54 -408.87	709.54
26 56	13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,297.27 184.09 368.17 -110.04 -201.68 -421.77	728.21
26 56	13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,485.48 199.17 398.34 -117.01 -214.11 -448.13	746.88
26 56	13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,326.34 205.66 411.33 -114.01 -207.45 -435.47	634.86
26 56	13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,517.51 217.31 434.62 -120.53 -219.34 -460.41	672.19
26 56	13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,668.49 228.68 457.35 -126.01 -229.16 -481.19	690.86
26 56	13 00-0421	EA	35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,896.80 247.77 495.54 -134.59 -244.39 -513.57	709.54
26 56	13 00-0422	EA	37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,955.13 249.87 499.74 -136.36 -247.73 -520.45	728.21
26 56	13 00-0423	EA	39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,182.49 268.87 537.74 -144.89 -262.90 -552.69	746.88



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,371.44 313.08 626.16 -181.25 -331.19 -693.68	1,120.33
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,489.83 324.92 649.84 -185.98 -339.48 -711.44	1,120.33
26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)					
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	923.62 71.32 -30.22 -55.69 -116.14	224.06
26 56 13 00-0428	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,018.36 74.33 -32.89 -60.83 -126.61	261.41
26 56 13 00-0429	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,114.06 77.48 -35.60 -66.03 -137.23	298.76
26 56 13 00-0430	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,211.65 80.92 -38.38 -71.37 -148.14	336.10
26 56 13 00-0431	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,308.30 84.21 -41.13 -76.64 -158.90	373.45
26 56 13 00-0432	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,029.82 76.05 -33.35 -61.63 -128.33	261.41
26 56 13 00-0433	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,127.42 79.49 -36.13 -66.97 -139.24	298.76
26 56 13 00-0434	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,226.93 83.21 -38.99 -72.44 -150.43	336.10
26 56 13 00-0435	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,325.49 86.79 -41.82 -77.85 -161.48	373.45
26 56 13 00-0436	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,436.46 92.23 -45.13 -84.12 -174.39	410.78
26 56 13 00-0437	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,538.85 96.39 -48.11 -89.79 -186.01	448.13
26 56 13 00-0438	EA		12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,164.66 85.07 -37.62 -69.58 -144.82	298.76
26 56 13 00-0439	EA		14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,268.94 89.51 -40.67 -75.38 -156.73	336.10
26 56 13 00-0440	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,384.69 95.67 -44.18 -81.99 -170.36	373.45

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0441	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,490.88 100.40 -47.31 -87.93 -182.55	410.78
26 56 13 00-0442	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,609.51 106.99 -50.94 -94.74 -196.61	448.13
26 56 13 00-0443	EA		16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,439.11 103.83 -46.36 -85.80 -178.52	373.45
26 56 13 00-0444	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,564.40 111.42 -50.25 -93.08 -193.58	410.78
26 56 13 00-0445	EA		20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,668.70 115.86 -53.30 -98.88 -205.49	448.13
26 56 13 00-0446	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,194.26 89.51 -38.81 -71.65 -149.26	298.76
26 56 13 00-0447	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,313.82 96.24 -42.47 -78.52 -163.46	336.10
26 56 13 00-0448	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,439.11 103.83 -46.36 -85.80 -178.52	373.45
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,552.95 109.71 -49.79 -92.28 -191.86	410.78
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,673.48 116.58 -53.50 -99.22 -206.21	448.13
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,501.17 113.14 -48.84 -90.14 -187.83	373.45
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,634.10 121.88 -53.04 -97.96 -204.04	410.78
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,743.18 127.04 -56.28 -104.10 -216.66	448.13
26 56 13 00-0454			Round Tapered, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0354)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	656.07 28.26 56.52 -20.64 -38.46 -79.74	186.72
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	682.81 30.94 61.87 -21.71 -40.33 -83.75	186.72



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0457	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	742.10 33.13 66.26 -23.52 -43.73 -90.78	205.39
26 56	13 00-0458	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	794.72 34.66 69.32 -25.07 -46.67 -96.80	224.06
26 56	13 00-0459	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	829.10 38.10 76.19 -26.44 -49.07 -101.96	224.06
26 56	13 00-0460	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	767.88 35.71 71.42 -24.55 -45.54 -94.64	205.39
26 56	13 00-0461	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	831.96 38.38 76.77 -26.56 -49.27 -102.39	224.06
26 56	13 00-0462	EA	16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	851.06 40.29 80.59 -27.32 -50.61 -105.25	224.06
26 56	13 00-0463	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	918.95 43.35 86.70 -29.48 -54.62 -113.57	242.74
26 56	13 00-0464	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	983.03 46.02 92.04 -31.48 -58.36 -121.31	261.41
26 56	13 00-0465	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	906.43 45.83 91.66 -29.54 -54.49 -113.56	224.06
26 56	13 00-0466	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	980.06 49.46 98.92 -31.92 -58.89 -122.74	242.74
26 56	13 00-0467	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,048.91 52.61 105.22 -34.11 -62.97 -131.20	261.41
26 56	13 00-0468	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,058.35 57.29 114.58 -35.05 -64.38 -134.48	242.74
26 56	13 00-0469	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,348.94 75.14 150.29 -44.99 -82.48 -172.47	298.76
26 56	13 00-0470	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,456.83 85.93 171.86 -49.31 -90.03 -188.65	298.76

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,624.13	336.10
For Bronze Or Satin Anodized Finish, Add	95.19	
For Black Anodized Finish, Add	190.39	
For >10 To 20, Deduct	-54.88	
For >20 To 40, Deduct	-100.25	
For >40, Deduct	-210.01	
26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,741.57	336.10
For Bronze Or Satin Anodized Finish, Add	106.94	
For Black Anodized Finish, Add	213.88	
For >10 To 20, Deduct	-59.58	
For >20 To 40, Deduct	-108.47	
For >40, Deduct	-227.63	
26 56 13 00-0473 Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)		
26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	842.46	224.06
For Bronze Or Satin Anodized Finish, Add	39.43	
For Black Anodized Finish, Add	78.87	
For >10 To 20, Deduct	-26.98	
For >20 To 40, Deduct	-50.01	
For >40, Deduct	-103.96	
26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	937.20	261.41
For Bronze Or Satin Anodized Finish, Add	41.44	
For Black Anodized Finish, Add	82.88	
For >10 To 20, Deduct	-29.65	
For >20 To 40, Deduct	-55.15	
For >40, Deduct	-114.44	
26 56 13 00-0477 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,039.58	298.76
For Bronze Or Satin Anodized Finish, Add	44.21	
For Black Anodized Finish, Add	88.41	
For >10 To 20, Deduct	-32.62	
For >20 To 40, Deduct	-60.82	
For >40, Deduct	-126.06	
26 56 13 00-0478 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,141.00	336.10
For Bronze Or Satin Anodized Finish, Add	46.88	
For Black Anodized Finish, Add	93.76	
For >10 To 20, Deduct	-35.56	
For >20 To 40, Deduct	-66.43	
For >40, Deduct	-137.54	
26 56 13 00-0479 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,195.53	354.77
For Bronze Or Satin Anodized Finish, Add	48.60	
For Black Anodized Finish, Add	97.20	
For >10 To 20, Deduct	-37.18	
For >20 To 40, Deduct	-69.50	
For >40, Deduct	-143.85	
26 56 13 00-0480 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,250.06	373.45
For Bronze Or Satin Anodized Finish, Add	50.32	
For Black Anodized Finish, Add	100.64	
For >10 To 20, Deduct	-38.80	
For >20 To 40, Deduct	-72.57	
For >40, Deduct	-150.17	
26 56 13 00-0481 EA 18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,357.21	410.78
For Bronze Or Satin Anodized Finish, Add	53.56	
For Black Anodized Finish, Add	107.13	
For >10 To 20, Deduct	-41.96	
For >20 To 40, Deduct	-78.57	
For >40, Deduct	-162.50	
26 56 13 00-0482 EA 20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,472.97	448.13
For Bronze Or Satin Anodized Finish, Add	57.67	
For Black Anodized Finish, Add	115.34	
For >10 To 20, Deduct	-45.47	
For >20 To 40, Deduct	-85.18	
For >40, Deduct	-176.13	
26 56 13 00-0483 EA 16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,315.94	373.45
For Bronze Or Satin Anodized Finish, Add	56.91	
For Black Anodized Finish, Add	113.81	
For >10 To 20, Deduct	-41.43	
For >20 To 40, Deduct	-77.18	
For >40, Deduct	-160.05	
26 56 13 00-0484 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,425.00	410.78
For Bronze Or Satin Anodized Finish, Add	60.34	
For Black Anodized Finish, Add	120.69	
For >10 To 20, Deduct	-44.68	
For >20 To 40, Deduct	-83.32	
For >40, Deduct	-172.67	
26 56 13 00-0485 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,546.49	448.13
For Bronze Or Satin Anodized Finish, Add	65.02	
For Black Anodized Finish, Add	130.04	
For >10 To 20, Deduct	-48.42	
For >20 To 40, Deduct	-90.33	
For >40, Deduct	-187.16	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0486 EA 15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,481.97	354.77
For Bronze Or Satin Anodized Finish, Add	77.24	
For Black Anodized Finish, Add	154.49	
For >10 To 20, Deduct	-48.64	
For >20 To 40, Deduct	-89.55	
For >40, Deduct	-186.82	
26 56 13 00-0487 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,820.52	448.13
For Bronze Or Satin Anodized Finish, Add	92.43	
For Black Anodized Finish, Add	184.85	
For >10 To 20, Deduct	-59.38	
For >20 To 40, Deduct	-109.51	
For >40, Deduct	-228.26	
26 56 13 00-0488 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	2,238.61	597.51
For Bronze Or Satin Anodized Finish, Add	104.36	
For Black Anodized Finish, Add	208.72	
For >10 To 20, Deduct	-71.62	
For >20 To 40, Deduct	-132.80	
For >40, Deduct	-276.04	
26 56 13 00-0489 EA 20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,605.69	448.13
For Bronze Or Satin Anodized Finish, Add	70.94	
For Black Anodized Finish, Add	141.88	
For >10 To 20, Deduct	-50.78	
For >20 To 40, Deduct	-94.47	
For >40, Deduct	-196.04	
26 56 13 00-0490 EA 20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,936.05	448.13
For Bronze Or Satin Anodized Finish, Add	103.98	
For Black Anodized Finish, Add	207.96	
For >10 To 20, Deduct	-64.00	
For >20 To 40, Deduct	-117.60	
For >40, Deduct	-245.59	
26 56 13 00-0491 EA 25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,343.63	597.51
For Bronze Or Satin Anodized Finish, Add	114.86	
For Black Anodized Finish, Add	229.72	
For >10 To 20, Deduct	-75.82	
For >20 To 40, Deduct	-140.15	
For >40, Deduct	-291.79	
26 56 13 00-0492 EA 20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,117.46	448.13
For Bronze Or Satin Anodized Finish, Add	122.12	
For Black Anodized Finish, Add	244.24	
For >10 To 20, Deduct	-71.25	
For >20 To 40, Deduct	-130.30	
For >40, Deduct	-272.81	
26 56 13 00-0493 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,580.42	597.51
For Bronze Or Satin Anodized Finish, Add	138.54	
For Black Anodized Finish, Add	277.08	
For >10 To 20, Deduct	-85.29	
For >20 To 40, Deduct	-156.73	
For >40, Deduct	-327.31	
26 56 13 00-0494 EA 30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,976.14	672.19
For Bronze Or Satin Anodized Finish, Add	163.18	
For Black Anodized Finish, Add	326.35	
For >10 To 20, Deduct	-98.88	
For >20 To 40, Deduct	-181.44	
For >40, Deduct	-379.20	
26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0473)</small>		
Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	749.64	186.72
For Bronze Or Satin Anodized Finish, Add	37.62	
For Black Anodized Finish, Add	75.24	
For >10 To 20, Deduct	-24.38	
For >20 To 40, Deduct	-45.01	
For >40, Deduct	-93.77	
26 56 13 00-0497 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	835.67	205.99
For Bronze Or Satin Anodized Finish, Add	42.49	
For Black Anodized Finish, Add	84.98	
For >10 To 20, Deduct	-27.27	
For >20 To 40, Deduct	-50.28	
For >40, Deduct	-104.81	
26 56 13 00-0498 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	893.07	224.06
For Bronze Or Satin Anodized Finish, Add	44.49	
For Black Anodized Finish, Add	88.99	
For >10 To 20, Deduct	-29.00	
For >20 To 40, Deduct	-53.55	
For >40, Deduct	-111.55	
26 56 13 00-0499 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	916.94	224.06
For Bronze Or Satin Anodized Finish, Add	46.88	
For Black Anodized Finish, Add	93.76	
For >10 To 20, Deduct	-29.96	
For >20 To 40, Deduct	-55.22	
For >40, Deduct	-115.13	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0500	EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	946.54 49.84 99.68 -31.14 -57.30 -119.57	224.06
26 56 13 00-0501	EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,085.08 59.96 119.92 -36.12 -66.25 -138.49	242.74
26 56 13 00-0502	EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,163.49 64.07 128.13 -38.70 -70.99 -148.38	261.41
26 56 13 00-0503	EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,313.39 79.06 158.11 -44.69 -81.48 -170.87	261.41
26 56 13 00-0504	EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,508.39 91.09 182.18 -51.37 -93.64 -196.38	298.76
26 56 13 00-0505	EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,843.52 124.60 249.20 -64.78 -117.10 -246.65	298.76
26 56 13 00-0506 Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)			
26 56 13 00-0507	EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	64.83	
26 56 13 00-0508	EA Extra Handhole For Aluminum Area Light Poles.....	35.59	
26 56 13 00-0509	EA Vibration Dampener For Aluminum Area Light Poles.....	98.07	
26 56 13 00-0510 Fiberglass Area Light Poles (26 56 13 00-0177)			
Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.			
26 56 13 00-0511 Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)			
26 56 13 00-0512 Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)			
26 56 13 00-0513	EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,597.93 -56.07 -101.40 -213.55	261.41
26 56 13 00-0514	EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,736.62 -60.50 -109.61 -230.62	298.76
26 56 13 00-0515	EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,877.12 -65.00 -117.95 -247.96	336.10
26 56 13 00-0516	EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,015.80 -69.43 -126.17 -265.03	373.45
26 56 13 00-0517	EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,187.40 -75.17 -136.69 -287.03	410.78
26 56 13 00-0518	EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,329.75 -79.75 -145.16 -304.65	448.13
26 56 13 00-0519	EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,544.94 -86.11 -157.23 -329.46	522.82
26 56 13 00-0520	EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,758.31 -92.41 -169.18 -354.00	597.51



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0521 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,906.41 -98.33 -179.55 -376.21	597.51
26 56 13 00-0522 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,110.92 -105.39 -192.37 -403.15	634.86
26 56 13 00-0523 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,315.43 -112.45 -205.19 -430.10	672.19
26 56 13 00-0524 EA 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,766.15 -62.80 -113.17 -238.78	261.41
26 56 13 00-0525 EA 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,871.92 -65.91 -119.08 -250.91	298.76
26 56 13 00-0526 EA 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,979.51 -69.10 -125.12 -263.32	336.10
26 56 13 00-0527 EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,090.77 -72.43 -131.42 -276.27	373.45
26 56 13 00-0528 EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,211.17 -76.12 -138.35 -290.60	410.78
26 56 13 00-0529 EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,329.75 -79.75 -145.16 -304.65	448.13
26 56 13 00-0530 EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,523.00 -85.24 -155.70 -326.17	522.82
26 56 13 00-0531 EA 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,758.31 -92.41 -169.18 -354.00	597.51
26 56 13 00-0532 EA 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,820.48 -94.89 -173.53 -363.32	597.51
26 56 13 00-0533 EA 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,959.16 -99.32 -181.75 -380.39	634.86
26 56 13 00-0534 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,097.84 -103.75 -189.96 -397.46	672.19
26 56 13 00-0535 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,012.98 -72.68 -130.45 -275.81	261.41
26 56 13 00-0536 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,144.35 -76.81 -138.15 -291.78	298.76
26 56 13 00-0537 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,275.71 -80.95 -145.86 -307.75	336.10
26 56 13 00-0538 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,408.91 -85.15 -153.69 -323.99	373.45
26 56 13 00-0539 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,549.43 -89.65 -162.03 -341.34	410.78
26 56 13 00-0540 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,700.92 -94.59 -171.14 -360.32	448.13
26 56 13 00-0541 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,943.54 -102.06 -185.14 -389.25	522.82

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,187.99	597.51
			<i>For >10 To 20, Deduct</i>	-109.59	
			<i>For >20 To 40, Deduct</i>	-199.26	
			<i>For >40, Deduct</i>	-418.45	
26 56	13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,283.07	597.51
			<i>For >10 To 20, Deduct</i>	-113.40	
			<i>For >20 To 40, Deduct</i>	-205.91	
			<i>For >40, Deduct</i>	-432.71	
26 56	13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,507.69	634.86
			<i>For >10 To 20, Deduct</i>	-121.26	
			<i>For >20 To 40, Deduct</i>	-220.14	
			<i>For >40, Deduct</i>	-462.67	
26 56	13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,690.25	672.19
			<i>For >10 To 20, Deduct</i>	-127.44	
			<i>For >20 To 40, Deduct</i>	-231.43	
			<i>For >40, Deduct</i>	-486.32	
26 56	13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,835.48	690.86
			<i>For >10 To 20, Deduct</i>	-132.69	
			<i>For >20 To 40, Deduct</i>	-240.85	
			<i>For >40, Deduct</i>	-506.24	
26 56	13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,980.71	709.54
			<i>For >10 To 20, Deduct</i>	-137.94	
			<i>For >20 To 40, Deduct</i>	-250.27	
			<i>For >40, Deduct</i>	-526.15	
26 56 13 00-0548 Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0511)					
26 56	13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	987.80	186.72
			<i>For >10 To 20, Deduct</i>	-33.91	
			<i>For >20 To 40, Deduct</i>	-61.68	
			<i>For >40, Deduct</i>	-129.50	
26 56	13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,059.87	205.39
			<i>For >10 To 20, Deduct</i>	-36.23	
			<i>For >20 To 40, Deduct</i>	-65.98	
			<i>For >40, Deduct</i>	-138.44	
26 56	13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,130.13	224.06
			<i>For >10 To 20, Deduct</i>	-38.48	
			<i>For >20 To 40, Deduct</i>	-70.15	
			<i>For >40, Deduct</i>	-147.11	
26 56	13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,161.21	224.06
			<i>For >10 To 20, Deduct</i>	-39.73	
			<i>For >20 To 40, Deduct</i>	-72.32	
			<i>For >40, Deduct</i>	-151.78	
26 56	13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,249.75	242.74
			<i>For >10 To 20, Deduct</i>	-42.71	
			<i>For >20 To 40, Deduct</i>	-77.77	
			<i>For >40, Deduct</i>	-163.19	
26 56	13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,323.67	261.41
			<i>For >10 To 20, Deduct</i>	-45.10	
			<i>For >20 To 40, Deduct</i>	-82.20	
			<i>For >40, Deduct</i>	-172.41	
26 56	13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,403.06	280.08
			<i>For >10 To 20, Deduct</i>	-47.72	
			<i>For >20 To 40, Deduct</i>	-87.01	
			<i>For >40, Deduct</i>	-182.45	
26 56	13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,491.61	298.76
			<i>For >10 To 20, Deduct</i>	-50.70	
			<i>For >20 To 40, Deduct</i>	-92.46	
			<i>For >40, Deduct</i>	-193.87	
26 56	13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,667.14	298.76
			<i>For >10 To 20, Deduct</i>	-57.72	
			<i>For >20 To 40, Deduct</i>	-104.75	
			<i>For >40, Deduct</i>	-220.20	
26 56	13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,880.01	317.43
			<i>For >10 To 20, Deduct</i>	-65.68	
			<i>For >20 To 40, Deduct</i>	-118.90	
			<i>For >40, Deduct</i>	-250.26	
26 56	13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,092.87	336.10
			<i>For >10 To 20, Deduct</i>	-73.63	
			<i>For >20 To 40, Deduct</i>	-133.06	
			<i>For >40, Deduct</i>	-280.32	
26 56	13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,156.01	186.72
			<i>For >10 To 20, Deduct</i>	-40.64	
			<i>For >20 To 40, Deduct</i>	-73.45	
			<i>For >40, Deduct</i>	-154.73	
26 56	13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,237.23	205.39
			<i>For >10 To 20, Deduct</i>	-43.33	
			<i>For >20 To 40, Deduct</i>	-78.39	
			<i>For >40, Deduct</i>	-165.05	
26 56	13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,318.46	224.06
			<i>For >10 To 20, Deduct</i>	-46.02	
			<i>For >20 To 40, Deduct</i>	-83.33	
			<i>For >40, Deduct</i>	-175.36	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0563 EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,364.17	224.06
For >10 To 20, Deduct	-47.84	
For >20 To 40, Deduct	-86.53	
For >40, Deduct	-182.22	
26 56 13 00-0564 EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,445.39	242.74
For >10 To 20, Deduct	-50.53	
For >20 To 40, Deduct	-91.47	
For >40, Deduct	-192.54	
26 56 13 00-0565 EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,526.62	261.41
For >10 To 20, Deduct	-53.22	
For >20 To 40, Deduct	-96.41	
For >40, Deduct	-202.85	
26 56 13 00-0566 EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,607.84	280.08
For >10 To 20, Deduct	-55.91	
For >20 To 40, Deduct	-101.35	
For >40, Deduct	-213.17	
26 56 13 00-0567 EA 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,731.13	298.76
For >10 To 20, Deduct	-60.28	
For >20 To 40, Deduct	-109.23	
For >40, Deduct	-229.79	
26 56 13 00-0568 EA 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,901.17	298.76
For >10 To 20, Deduct	-67.08	
For >20 To 40, Deduct	-121.13	
For >40, Deduct	-255.30	
26 56 13 00-0569 EA 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,110.39	317.43
For >10 To 20, Deduct	-74.89	
For >20 To 40, Deduct	-135.03	
For >40, Deduct	-284.82	
26 56 13 00-0570 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,317.77	336.10
For >10 To 20, Deduct	-82.63	
For >20 To 40, Deduct	-148.80	
For >40, Deduct	-314.06	
26 56 13 00-0571 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,304.12	186.72
For >10 To 20, Deduct	-46.56	
For >20 To 40, Deduct	-83.82	
For >40, Deduct	-176.95	
26 56 13 00-0572 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,374.36	205.39
For >10 To 20, Deduct	-48.81	
For >20 To 40, Deduct	-87.99	
For >40, Deduct	-185.62	
26 56 13 00-0573 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,442.79	224.06
For >10 To 20, Deduct	-50.99	
For >20 To 40, Deduct	-92.03	
For >40, Deduct	-194.01	
26 56 13 00-0574 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,473.87	224.06
For >10 To 20, Deduct	-52.23	
For >20 To 40, Deduct	-94.21	
For >40, Deduct	-198.67	
26 56 13 00-0575 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,542.30	242.74
For >10 To 20, Deduct	-54.41	
For >20 To 40, Deduct	-98.25	
For >40, Deduct	-207.07	
26 56 13 00-0576 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,612.56	261.41
For >10 To 20, Deduct	-56.66	
For >20 To 40, Deduct	-102.42	
For >40, Deduct	-215.74	
26 56 13 00-0577 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,744.98	280.08
For >10 To 20, Deduct	-61.40	
For >20 To 40, Deduct	-110.95	
For >40, Deduct	-233.74	
26 56 13 00-0578 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,899.35	298.76
For >10 To 20, Deduct	-67.01	
For >20 To 40, Deduct	-121.00	
For >40, Deduct	-255.03	
26 56 13 00-0579 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,005.39	298.76
For >10 To 20, Deduct	-71.25	
For >20 To 40, Deduct	-128.43	
For >40, Deduct	-270.93	
26 56 13 00-0580 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,150.62	317.43
For >10 To 20, Deduct	-76.50	
For >20 To 40, Deduct	-137.85	
For >40, Deduct	-290.85	
26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,295.83	336.10
For >10 To 20, Deduct	-81.75	
For >20 To 40, Deduct	-147.26	
For >40, Deduct	-310.77	
26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles.....	64.83	
26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	64.83	
26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....	123.00	
26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles.....	162.90	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 13 00-0587		Concrete Area Light Poles <small>(26 56 13 00-0177)</small>		
26 56 13 00-0588		Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base <small>(26 56 13 00-0587)</small>		
26 56 13 00-0589	EA	28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,713.03	634.86
26 56 13 00-0590	EA	30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,859.89	672.19
26 56 13 00-0591	EA	33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,967.73	690.86
26 56 13 00-0592	EA	36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,716.33	709.54
26 56 13 00-0593	EA	38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,135.59	746.88
26 56 13 00-0594	EA	43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,110.55	970.95
26 56 13 00-0595	EA	47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,116.82	1,195.01
26 56 13 00-0596	EA	27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,021.64	634.86
		Note: Polished brown with acrylic coating finish.		
26 56 13 00-0597	EA	30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,960.34	672.19
		Note: Polished brown with acrylic coating finish.		
26 56 13 00-0598	EA	Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	657.72	224.06
26 56 13 00-0599	EA	13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	3,611.78	447.98
26 56 13 00-0600	EA	Pole Base Cover For All Octagon Poles.....	255.96	91.42
26 56 13 00-0601	EA	Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	523.29	182.84
26 56 13 00-0602		Tapered, Spun Concrete Area Light Poles, Direct Burial <small>(26 56 13 00-0587)</small>		
		Note: Round or square.		
26 56 13 00-0603	EA	13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,981.72	298.76
26 56 13 00-0604	EA	16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,362.97	373.45
26 56 13 00-0605	EA	18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,707.21	448.13
26 56 13 00-0606	EA	30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,157.10	672.19
26 56 13 00-0607	EA	35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,958.46	709.54
26 56 13 00-0608	EA	40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,825.46	746.88
26 56 13 00-0609	EA	45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	7,893.86	970.95
26 56 13 00-0610		Round Tapered, Spun Concrete Area Light Poles, Direct Burial <small>(26 56 13 00-0587)</small>		
26 56 13 00-0611	EA	60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	15,717.02	1,680.49
26 56 13 00-0612	EA	70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	18,687.47	2,050.59
26 56 13 00-0613	EA	80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	22,226.77	2,770.09
26 56 13 00-0614		Treated Wood Area Light Poles <small>(26 56 13 00-0177)</small>		
		See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615		Cast Iron Decorative Light Posts <small>(26 56 13 00-0177)</small>		
26 56 13 00-0616		Round Tapered, Cast Iron Decorative Light Post, Anchor Base <small>(26 56 13 00-0615)</small>		
		Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617	EA	10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,353.20	186.72
26 56 13 00-0618	EA	12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,435.96	215.10
26 56 13 00-0619	EA	14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,552.66	224.06
26 56 13 00-0620	EA	16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,900.87	261.41
26 56 13 00-0621	EA	18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,209.60	283.82
26 56 13 00-0622	EA	20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,532.73	306.22
26 56 13 00-0623		Landscape Light Poles <small>(26 56 13 00-0001)</small>		
		Note: Excludes lighting fixtures.		
26 56 13 00-0624		Aluminum Landscape Light Poles <small>(26 56 13 00-0623)</small>		
		Note: Includes painted finish.		
26 56 13 00-0625		Round Straight, Aluminum Landscape Light Poles <small>(26 56 13 00-0624)</small>		
26 56 13 00-0626		Round Straight, Aluminum Landscape Light Poles, Anchor Base <small>(26 56 13 00-0625)</small>		
26 56 13 00-0627	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	533.10	224.06
26 56 13 00-0628	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	866.42	298.76
26 56 13 00-0629		Round Straight, Aluminum Landscape Light Poles, Direct Burial <small>(26 56 13 00-0625)</small>		
26 56 13 00-0630	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	493.11	224.06
26 56 13 00-0631	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	826.43	298.76
26 56 13 00-0632		Steel Landscape Light Poles <small>(26 56 13 00-0623)</small>		
		Note: Includes painted finish.		
26 56 13 00-0633		Round Straight, Steel Landscape Light Poles <small>(26 56 13 00-0632)</small>		
26 56 13 00-0634		Round Straight, Steel Landscape Light Poles, Anchor Base <small>(26 56 13 00-0633)</small>		
26 56 13 00-0635	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	558.80	224.06
26 56 13 00-0636		Round Straight, Steel Landscape Light Poles, Direct Burial <small>(26 56 13 00-0633)</small>		
26 56 13 00-0637	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	534.01	224.06



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0638 Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0639 Light Pole Brackets (26 56 13 00-0638)		
26 56 13 00-0640 Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0641 Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0642 Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.		
26 56 13 00-0643 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	533.45 44.38	44.81
26 56 13 00-0644 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	667.36 57.77	44.81
26 56 13 00-0645 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	708.23 61.86	44.81
26 56 13 00-0646 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	960.54 87.09	44.81
26 56 13 00-0647 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	999.83 91.02	44.81
26 56 13 00-0648 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.		
26 56 13 00-0649 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	245.25 15.56 31.13	44.81
26 56 13 00-0650 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	294.90 20.53 41.06	44.81
26 56 13 00-0651 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	308.27 21.87 43.73	44.81
26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	355.05 26.54 53.09	44.81
26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	364.60 27.50 55.00	44.81
26 56 13 00-0654 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654) Note: Includes powdercoat finish.		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	571.68 48.21	44.81
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	699.95 61.03	44.81
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	850.60 76.10	44.81
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	1,001.95 91.23	44.81
26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660) Note: Includes powdercoat finish.		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket 26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket..... 26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket 26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	559.90 822.43 1,133.06 1,235.25	74.69 74.69 74.69 74.69
26 56 13 00-0666 Light Pole Arms (26 56 13 00-0639)		
26 56 13 00-0667 Wood Pole Streetlight Arms (26 56 13 00-0666)		
26 56 13 00-0668 Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	339.18 360.98 422.47 486.78 547.92 664.37	67.22 74.69 93.36 74.69 93.36 112.04
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount..... 26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	256.28 311.12 413.61 538.82	74.69 74.69 93.36 112.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0680	Area Light Arms (26 56 13 00-0686)	
26 56 13 00-0681	Steel Area Light Arms (26 56 13 00-0680)	
26 56 13 00-0682 EA	Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	617.45 74.69
26 56 13 00-0683 EA	Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	948.70 82.16
26 56 13 00-0684 EA	Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,053.23 89.62
26 56 13 00-0685 EA	Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,245.53 97.10
26 56 13 00-0686 EA	Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	738.90 93.36
26 56 13 00-0687 EA	Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,037.25 100.83
26 56 13 00-0688	Aluminum Area Light Arms (26 56 13 00-0680)	
26 56 13 00-0689 EA	Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	305.00 74.69
26 56 13 00-0690 EA	Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	376.73 93.36
26 56 13 00-0691 EA	Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	450.35 112.04
26 56 13 00-0692 EA	Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	303.09 74.69
26 56 13 00-0693 EA	Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	421.15 82.16
26 56 13 00-0694 EA	Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	372.91 93.36
26 56 13 00-0695 EA	Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	513.88 100.83
26 56 13 00-0696 EA	Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	452.26 112.04
26 56 13 00-0697 EA	Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	622.83 119.50
26 56 13 00-0698	Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)	
26 56 13 00-0699 EA	Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	2,464.72
26 56 13 00-0700	High Mast Lighting (26 56 13 00-0001)	
26 56 13 00-0701	High Mast Lighting Assemblies (26 56 13 00-0700)	
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.		
26 56 13 00-0702 EA	60' High Mast Lighting Assembly	46,731.54 2,276.23
26 56 13 00-0703 EA	70' High Mast Lighting Assembly	49,356.11 2,384.01
26 56 13 00-0704 EA	80' High Mast Lighting Assembly	52,026.02 2,539.71
26 56 13 00-0705 EA	90' High Mast Lighting Assembly	54,739.70 2,743.32
26 56 13 00-0706 EA	100' High Mast Lighting Assembly	57,480.74 2,994.76
26 56 13 00-0707 EA	110' High Mast Lighting Assembly	61,009.16 3,294.47
26 56 13 00-0708 EA	120' High Mast Lighting Assembly	63,876.14 3,593.92
26 56 13 00-0709 EA	130' High Mast Lighting Assembly	66,531.76 3,893.38
26 56 13 00-0710 EA	140' High Mast Lighting Assembly	69,398.73 4,192.99
26 56 13 00-0711 EA	150' High Mast Lighting Assembly	72,863.77 4,492.44
26 56 13 00-0712	High Mast Light Poles (26 56 13 00-0700)	
26 56 13 00-0713 EA	60' High Mast Light Poles	18,095.78 1,367.06
26 56 13 00-0714 EA	70' High Mast Light Poles	20,687.98 1,431.81
26 56 13 00-0715 EA	80' High Mast Light Poles	23,311.12 1,525.35
26 56 13 00-0716 EA	90' High Mast Light Poles	25,963.65 1,647.67
26 56 13 00-0717 EA	100' High Mast Light Poles	28,647.12 1,798.76
26 56 13 00-0718 EA	110' High Mast Light Poles	31,361.54 1,978.64
26 56 13 00-0719 EA	120' High Mast Light Poles	33,434.05 2,158.51
26 56 13 00-0720 EA	130' High Mast Light Poles	32,955.26 4,000.44
26 56 13 00-0721 EA	140' High Mast Light Poles	37,366.17 2,518.27
26 56 13 00-0722 EA	150' High Mast Light Poles	39,651.61 2,698.14
26 56 13 00-0723	High Mast Lighting Accessories (26 56 13 00-0700)	
See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724 EA	Bottom Latching System For High Mast Lighting	836.87
26 56 13 00-0725 EA	Top Latching System For High Mast Lighting	2,335.70
26 56 13 00-0726 EA	Centering Springs For High Mast Lighting	1,768.60
26 56 13 00-0727 EA	Electric Power Cord For High Mast Lighting	752.19
26 56 13 00-0728 EA	Aircraft Warning Lights For High Mast Lighting.....	1,415.19
26 56 13 00-0729 EA	Internal Motorized Hoist For High Mast Lighting	14,809.71
26 56 13 00-0730 EA	Portable Hoist Motor With Step Down Transformer For High Mast Lighting	14,919.30
26 56 13 00-0731	Concrete Bases (26 56 13 00-0001)	
26 56 13 00-0732	Concrete Bases, Cast In Place (26 56 13 00-0731)	
Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733 EA	Cast In Place Concrete Base For Poles Minimum Charge	325.98
Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734 VLF	1-1/2' Diameter Concrete Base For Poles.....	47.30
26 56 13 00-0735 VLF	2' Diameter Concrete Base For Poles.....	74.26
26 56 13 00-0736 VLF	2-1/2' Diameter Concrete Base For Poles.....	107.74
26 56 13 00-0737 VLF	3' Diameter Concrete Base For Poles.....	148.41



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0738 VLF 3-1/2' Diameter Concrete Base For Poles	199.30	
26 56 13 00-0739 VLF 4' Diameter Concrete Base For Poles.....	254.64	
26 56 13 00-0740 VLF 5' Diameter Concrete Base For Poles.....	380.12	
26 56 13 00-0741 VLF 6' Diameter Concrete Base For Poles.....	531.89	
26 56 18 Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001 Exterior Globe (26 56 18)		
26 56 18 00-0002 Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	66.16	25.01
26 56 18 00-0004 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	99.63	25.01
26 56 18 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	76.96	25.01
26 56 18 00-0006 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	103.79	25.01
26 56 18 00-0007 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	268.16	100.01
26 56 18 00-0009 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	280.71	106.26
26 56 18 00-0010 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	306.54	112.51
26 56 18 00-0011 EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	306.79	125.01
26 56 18 00-0012 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	346.95	143.76
26 56 19 LED Exterior Lighting (26 56)		
26 56 19 00-0001 LED, Wall Packs (26 56 19)		
26 56 19 00-0002 Full Cutoff, LED Wall Packs (26 56 19 00-0001)		
26 56 19 00-0003 Full Cutoff, LED Wall Packs (Lithonia) (26 56 19 00-0002)		
26 56 19 00-0004 EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	949.30	131.64
For >50 To 100, Deduct	-47.47	
For >100 To 250, Deduct	-71.20	
For >250 To 500, Deduct	-112.08	
For >500 To 1000, Deduct	-152.96	
For >1000, Deduct	-193.85	
26 56 19 00-0005 EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,023.76	131.64
For >50 To 100, Deduct	-51.19	
For >100 To 250, Deduct	-76.78	
For >250 To 500, Deduct	-121.39	
For >500 To 1000, Deduct	-165.99	
For >1000, Deduct	-210.60	
26 56 19 00-0006 Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 19 00-0002)		
26 56 19 00-0007 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 19 00-0006)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0008 EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	802.34	127.87
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	41.31	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-40.12	
For >100 To 250, Deduct	-60.18	
For >250 To 500, Deduct	-93.90	
For >500 To 1000, Deduct	-127.62	
For >1000, Deduct	-161.34	
26 56 19 00-0009 EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,015.42	135.40
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	42.06	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-50.77	
For >100 To 250, Deduct	-76.16	
For >250 To 500, Deduct	-120.16	
For >500 To 1000, Deduct	-164.16	
For >1000, Deduct	-208.16	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0010	EA		60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,132.75	142.92
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
			For Bird Spikes, Add	42.81	
			For Fuse, Add	45.26	
			For 0 To 10 Volt Dimming, Add	45.26	
			For 480 Volt, Add	67.90	
			For Multi-Level, Add	98.07	
			For >50 To 100, Deduct	-56.64	
			For >100 To 250, Deduct	-84.96	
			For >250 To 500, Deduct	-134.45	
			For >500 To 1000, Deduct	-183.94	
			For >1000, Deduct	-233.43	
26 56 19 00-0011	EA		80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,441.58	150.45
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
			For Bird Spikes, Add	43.56	
			For Fuse, Add	45.26	
			For 0 To 10 Volt Dimming, Add	45.26	
			For 480 Volt, Add	67.90	
			For Multi-Level, Add	98.07	
			For >50 To 100, Deduct	-72.08	
			For >100 To 250, Deduct	-108.12	
			For >250 To 500, Deduct	-172.68	
			For >500 To 1000, Deduct	-237.23	
			For >1000, Deduct	-301.79	
26 56 19 00-0012	EA		100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,654.66	157.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
			For Bird Spikes, Add	44.32	
			For Fuse, Add	45.26	
			For 0 To 10 Volt Dimming, Add	45.26	
			For 480 Volt, Add	67.90	
			For Multi-Level, Add	98.07	
			For >50 To 100, Deduct	-82.73	
			For >100 To 250, Deduct	-124.10	
			For >250 To 500, Deduct	-198.93	
			For >500 To 1000, Deduct	-273.77	
			For >1000, Deduct	-348.60	
26 56 19 00-0013	EA		120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,867.75	165.48
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
			For Bird Spikes, Add	45.07	
			For Fuse, Add	45.26	
			For 0 To 10 Volt Dimming, Add	45.26	
			For 480 Volt, Add	67.90	
			For Multi-Level, Add	98.07	
			For >50 To 100, Deduct	-93.39	
			For >100 To 250, Deduct	-140.08	
			For >250 To 500, Deduct	-225.19	
			For >500 To 1000, Deduct	-310.31	
			For >1000, Deduct	-395.42	
26 56 19 00-0014			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) ^(26 56 19 00-0006) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0015	EA		25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	508.26	127.87
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
			For 0 To 10 Volt Dimming, Add	45.26	
			For Multi-Level, Add	45.26	
			For >50 To 100, Deduct	-25.41	
			For >100 To 250, Deduct	-38.12	
			For >250 To 500, Deduct	-57.14	
			For >500 To 1000, Deduct	-76.16	
			For >1000, Deduct	-95.18	
26 56 19 00-0016	EA		42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	582.21	135.40
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
			For 0 To 10 Volt Dimming, Add	45.26	
			For Multi-Level, Add	45.26	
			For >50 To 100, Deduct	-29.11	
			For >100 To 250, Deduct	-43.67	
			For >250 To 500, Deduct	-66.01	
			For >500 To 1000, Deduct	-88.35	
			For >1000, Deduct	-110.69	
26 56 19 00-0017			Open Face LED Wall Pack ^(26 56 19 00-0001) Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 19 00-0018	EA		3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	718.46	136.83
			For >50 To 100, Deduct	-35.92	
			For >100 To 250, Deduct	-53.88	
			For >250 To 500, Deduct	-79.55	
			For >500 To 1000, Deduct	-105.21	
			For >1000, Deduct	-130.87	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0019 EA 5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	764.02	136.83
For >50 To 100, Deduct	-38.20	
For >100 To 250, Deduct	-57.30	
For >250 To 500, Deduct	-85.24	
For >500 To 1000, Deduct	-113.18	
For >1000, Deduct	-141.12	
26 56 19 00-0020 EA 7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	787.89	136.83
For >50 To 100, Deduct	-39.39	
For >100 To 250, Deduct	-59.09	
For >250 To 500, Deduct	-88.22	
For >500 To 1000, Deduct	-117.36	
For >1000, Deduct	-146.49	
26 56 19 00-0021 EA 11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	807.24	136.83
For >50 To 100, Deduct	-40.36	
For >100 To 250, Deduct	-60.54	
For >250 To 500, Deduct	-90.64	
For >500 To 1000, Deduct	-120.74	
For >1000, Deduct	-150.84	
26 56 19 00-0022 EA 16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	952.40	136.83
For >50 To 100, Deduct	-47.62	
For >100 To 250, Deduct	-71.43	
For >250 To 500, Deduct	-108.79	
For >500 To 1000, Deduct	-146.15	
For >1000, Deduct	-183.50	
26 56 19 00-0023 Wall Pack Accessories <small>(26 56 19 00-0001)</small>		
26 56 19 00-0024 EA Photocell For Wall Pack.....	131.04	34.21
26 56 19 00-0025 EA Wire Guard For Mini And Small Wall Pack	144.13	34.21
26 56 19 00-0026 EA Wire Guard For Medium And Large Wall Pack.....	198.89	34.21
26 56 19 00-0027 EA Clear Polycarbonate Vandal Guard For Wall Packs	277.90	34.21
26 56 19 00-0028 EA Full Cutoff Visor For Wall Pack.....	140.57	34.21
26 56 19 00-0029 LED, Roadway Lighting <small>(26 56 19)</small>		
26 56 19 00-0030 LED Roadway Lighting (Philips Lumec) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0031 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) <small>(26 56 19 00-0030)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0032 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,390.65	180.91
For >50 To 100, Deduct	-69.53	
For >100 To 250, Deduct	-104.30	
For >250 To 500, Deduct	-164.79	
For >500 To 1000, Deduct	-225.27	
For >1000, Deduct	-285.76	
26 56 19 00-0033 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,127.04	185.79
For >50 To 100, Deduct	-106.35	
For >100 To 250, Deduct	-159.53	
For >250 To 500, Deduct	-256.59	
For >500 To 1000, Deduct	-353.65	
For >1000, Deduct	-450.71	
26 56 19 00-0034 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) <small>(26 56 19 00-0030)</small>		
Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0035 EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,035.02	180.91
For >50 To 100, Deduct	-51.75	
For >100 To 250, Deduct	-77.63	
For >250 To 500, Deduct	-120.33	
For >500 To 1000, Deduct	-163.04	
For >1000, Deduct	-205.74	
26 56 19 00-0036 EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,035.02	180.91
For >50 To 100, Deduct	-51.75	
For >100 To 250, Deduct	-77.63	
For >250 To 500, Deduct	-120.33	
For >500 To 1000, Deduct	-163.04	
For >1000, Deduct	-205.74	
26 56 19 00-0037 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,035.02	180.91
For >50 To 100, Deduct	-51.75	
For >100 To 250, Deduct	-77.63	
For >250 To 500, Deduct	-120.33	
For >500 To 1000, Deduct	-163.04	
For >1000, Deduct	-205.74	
26 56 19 00-0038 LED Roadway Lighting (Lithonia) <small>(26 56 19 00-0029)</small>		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 19 00-0039	Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) <small>(26 56 19 00-0038)</small>		
	Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0040	EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	1,978.77	171.13
	For >50 To 100, Deduct	-98.94	
	For >100 To 250, Deduct	-148.41	
	For >250 To 500, Deduct	-238.79	
	For >500 To 1000, Deduct	-329.17	
	For >1000, Deduct	-419.55	
26 56 19 00-0041	EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,223.06	176.02
	For >50 To 100, Deduct	-161.15	
	For >100 To 250, Deduct	-241.73	
	For >250 To 500, Deduct	-394.08	
	For >500 To 1000, Deduct	-546.43	
	For >1000, Deduct	-698.79	
26 56 19 00-0042	LED Roadway Lighting (CREE® BetaLED®) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0043	Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) <small>(26 56 19 00-0042)</small>		
	Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0044	EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	770.01	166.24
	For >50 To 100, Deduct	-38.50	
	For >100 To 250, Deduct	-57.75	
	For >250 To 500, Deduct	-87.94	
	For >500 To 1000, Deduct	-118.13	
	For >1000, Deduct	-148.32	
26 56 19 00-0045	EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	854.00	171.13
	For >50 To 100, Deduct	-42.70	
	For >100 To 250, Deduct	-64.05	
	For >250 To 500, Deduct	-98.19	
	For >500 To 1000, Deduct	-132.34	
	For >1000, Deduct	-166.48	
26 56 19 00-0046	EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	954.60	176.02
	For >50 To 100, Deduct	-47.73	
	For >100 To 250, Deduct	-71.60	
	For >250 To 500, Deduct	-110.52	
	For >500 To 1000, Deduct	-149.45	
	For >1000, Deduct	-188.38	
26 56 19 00-0047	EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,039.86	180.91
	For >50 To 100, Deduct	-51.99	
	For >100 To 250, Deduct	-77.99	
	For >250 To 500, Deduct	-120.94	
	For >500 To 1000, Deduct	-163.88	
	For >1000, Deduct	-206.83	
26 56 19 00-0048	EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,125.12	185.79
	For >50 To 100, Deduct	-56.26	
	For >100 To 250, Deduct	-84.38	
	For >250 To 500, Deduct	-131.35	
	For >500 To 1000, Deduct	-178.32	
	For >1000, Deduct	-225.28	
26 56 19 00-0049	EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,322.96	190.69
	For >50 To 100, Deduct	-66.15	
	For >100 To 250, Deduct	-99.22	
	For >250 To 500, Deduct	-155.84	
	For >500 To 1000, Deduct	-212.45	
	For >1000, Deduct	-269.06	
26 56 19 00-0050	EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,408.21	195.58
	For >50 To 100, Deduct	-70.41	
	For >100 To 250, Deduct	-105.62	
	For >250 To 500, Deduct	-166.25	
	For >500 To 1000, Deduct	-226.88	
	For >1000, Deduct	-287.51	
26 56 19 00-0051	EA 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,492.19	200.47
	For >50 To 100, Deduct	-74.61	
	For >100 To 250, Deduct	-111.91	
	For >250 To 500, Deduct	-176.50	
	For >500 To 1000, Deduct	-241.09	
	For >1000, Deduct	-305.67	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0052 EA 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,652.94	205.36
For >50 To 100, Deduct	-82.65	
For >100 To 250, Deduct	-123.97	
For >250 To 500, Deduct	-196.35	
For >500 To 1000, Deduct	-268.73	
For >1000, Deduct	-341.11	
26 56 19 00-0053 EA 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,738.20	210.25
For >50 To 100, Deduct	-86.91	
For >100 To 250, Deduct	-130.37	
For >250 To 500, Deduct	-206.76	
For >500 To 1000, Deduct	-283.16	
For >1000, Deduct	-359.56	
26 56 19 00-0054 EA 120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,823.45	215.14
For >50 To 100, Deduct	-91.17	
For >100 To 250, Deduct	-136.76	
For >250 To 500, Deduct	-217.17	
For >500 To 1000, Deduct	-297.59	
For >1000, Deduct	-378.01	
26 56 19 00-0055 Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) <small>(26 56 19 00-0042)</small>		
Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0056 EA 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,421.55	176.02
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-71.08	
For >100 To 250, Deduct	-106.62	
For >250 To 500, Deduct	-168.89	
For >500 To 1000, Deduct	-231.17	
For >1000, Deduct	-293.45	
26 56 19 00-0057 EA 60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,629.17	185.79
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-81.46	
For >100 To 250, Deduct	-122.19	
For >250 To 500, Deduct	-194.36	
For >500 To 1000, Deduct	-266.52	
For >1000, Deduct	-338.69	
26 56 19 00-0058 EA 80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,836.78	195.58
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-91.84	
For >100 To 250, Deduct	-137.76	
For >250 To 500, Deduct	-219.82	
For >500 To 1000, Deduct	-301.88	
For >1000, Deduct	-383.94	
26 56 19 00-0059 EA 100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,044.41	205.36
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-102.22	
For >100 To 250, Deduct	-153.33	
For >250 To 500, Deduct	-245.28	
For >500 To 1000, Deduct	-337.24	
For >1000, Deduct	-429.19	
26 56 19 00-0060 EA 120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,651.17	215.14
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-132.56	
For >100 To 250, Deduct	-198.84	
For >250 To 500, Deduct	-320.64	
For >500 To 1000, Deduct	-442.44	
For >1000, Deduct	-564.24	
26 56 19 00-0061 EA 140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,858.79	224.91
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-142.94	
For >100 To 250, Deduct	-214.41	
For >250 To 500, Deduct	-346.10	
For >500 To 1000, Deduct	-477.80	
For >1000, Deduct	-609.49	
26 56 19 00-0062 EA 160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,066.40	234.69
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-153.32	
For >100 To 250, Deduct	-229.98	
For >250 To 500, Deduct	-371.57	
For >500 To 1000, Deduct	-513.15	
For >1000, Deduct	-654.74	
26 56 19 00-0063 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 19 00-0042)</small>		
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 19 00-0064	EA	4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	667.32		176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		15.08	
		<i>For Backlight Control Shield, Add</i>		31.86	
		<i>For Field Adjustable Output, Add</i>		22.64	
		<i>For Bird Spikes, Add</i>		46.12	
		<i>For Field Adjustable Output And Utility Label, Add</i>		30.18	
		<i>For Fuse, Add</i>		45.26	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		45.26	
		<i>For 480 Volt, Add</i>		67.90	
		<i>For Multi-Level, Add</i>		98.07	
		<i>For >50 To 100, Deduct</i>		-33.37	
		<i>For >100 To 250, Deduct</i>		-50.05	
		<i>For >250 To 500, Deduct</i>		-74.61	
		<i>For >500 To 1000, Deduct</i>		-99.18	
		<i>For >1000, Deduct</i>		-123.74	
26 56 19 00-0065	EA	5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	667.32		176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		15.08	
		<i>For Backlight Control Shield, Add</i>		31.86	
		<i>For Field Adjustable Output, Add</i>		22.64	
		<i>For Bird Spikes, Add</i>		46.12	
		<i>For Field Adjustable Output And Utility Label, Add</i>		30.18	
		<i>For Fuse, Add</i>		45.26	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		45.26	
		<i>For 480 Volt, Add</i>		67.90	
		<i>For Multi-Level, Add</i>		98.07	
		<i>For >50 To 100, Deduct</i>		-33.37	
		<i>For >100 To 250, Deduct</i>		-50.05	
		<i>For >250 To 500, Deduct</i>		-74.61	
		<i>For >500 To 1000, Deduct</i>		-99.18	
		<i>For >1000, Deduct</i>		-123.74	
26 56 19 00-0066	EA	8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	724.35		176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		15.08	
		<i>For Backlight Control Shield, Add</i>		31.86	
		<i>For Field Adjustable Output, Add</i>		22.64	
		<i>For Bird Spikes, Add</i>		46.12	
		<i>For Field Adjustable Output And Utility Label, Add</i>		30.18	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		45.26	
		<i>For 480 Volt, Add</i>		67.90	
		<i>For >50 To 100, Deduct</i>		-36.22	
		<i>For >100 To 250, Deduct</i>		-54.33	
		<i>For >250 To 500, Deduct</i>		-81.74	
		<i>For >500 To 1000, Deduct</i>		-109.16	
		<i>For >1000, Deduct</i>		-136.58	
26 56 19 00-0067	EA	8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	724.35		176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		15.08	
		<i>For Backlight Control Shield, Add</i>		31.86	
		<i>For Field Adjustable Output, Add</i>		22.64	
		<i>For Bird Spikes, Add</i>		46.12	
		<i>For Field Adjustable Output And Utility Label, Add</i>		30.18	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		45.26	
		<i>For 480 Volt, Add</i>		67.90	
		<i>For >50 To 100, Deduct</i>		-36.22	
		<i>For >100 To 250, Deduct</i>		-54.33	
		<i>For >250 To 500, Deduct</i>		-81.74	
		<i>For >500 To 1000, Deduct</i>		-109.16	
		<i>For >1000, Deduct</i>		-136.58	
26 56 19 00-0068	EA	9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	825.73		176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		15.08	
		<i>For Field Adjustable Output, Add</i>		22.64	
		<i>For Backlight Control Shield, Add</i>		42.94	
		<i>For Field Adjustable Output And Utility Label, Add</i>		30.18	
		<i>For Fuse, Add</i>		45.26	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>		45.26	
		<i>For Bird Spikes, Add</i>		71.47	
		<i>For 480 Volt, Add</i>		67.90	
		<i>For Multi-Level, Add</i>		98.07	
		<i>For >50 To 100, Deduct</i>		-41.29	
		<i>For >100 To 250, Deduct</i>		-61.93	
		<i>For >250 To 500, Deduct</i>		-94.42	
		<i>For >500 To 1000, Deduct</i>		-126.90	
		<i>For >1000, Deduct</i>		-159.39	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0069 EA 10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	825.73	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	42.94	
For Field Adjustable Output And Utility Label, Add	30.18	
For Fuse, Add	45.26	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For Bird Spikes, Add	71.47	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-41.29	
For >100 To 250, Deduct	-61.93	
For >250 To 500, Deduct	-94.42	
For >500 To 1000, Deduct	-126.90	
For >1000, Deduct	-159.39	
26 56 19 00-0070 EA 13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	920.80	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	42.94	
For Field Adjustable Output And Utility Label, Add	30.18	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For Bird Spikes, Add	71.47	
For 480 Volt, Add	67.90	
For >50 To 100, Deduct	-46.04	
For >100 To 250, Deduct	-69.06	
For >250 To 500, Deduct	-106.30	
For >500 To 1000, Deduct	-143.54	
For >1000, Deduct	-180.78	
26 56 19 00-0071 EA 14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	920.80	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	42.94	
For Field Adjustable Output And Utility Label, Add	30.18	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For Bird Spikes, Add	71.47	
For 480 Volt, Add	67.90	
For >50 To 100, Deduct	-46.04	
For >100 To 250, Deduct	-69.06	
For >250 To 500, Deduct	-106.30	
For >500 To 1000, Deduct	-143.54	
For >1000, Deduct	-180.78	
26 56 19 00-0072 EA 2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-G)	565.92	176.02
For Utility Label, Add	7.54	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.64	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-28.30	
For >100 To 250, Deduct	-42.44	
For >250 To 500, Deduct	-61.94	
For >500 To 1000, Deduct	-81.43	
For >1000, Deduct	-100.93	
26 56 19 00-0073 EA 2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	565.92	176.02
For Utility Label, Add	7.54	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.64	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-28.30	
For >100 To 250, Deduct	-42.44	
For >250 To 500, Deduct	-61.94	
For >500 To 1000, Deduct	-81.43	
For >1000, Deduct	-100.93	
26 56 19 00-0074 EA 3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C)	589.69	176.02
For Utility Label, Add	7.54	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.64	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-29.48	
For >100 To 250, Deduct	-44.23	
For >250 To 500, Deduct	-64.91	
For >500 To 1000, Deduct	-85.59	
For >1000, Deduct	-106.28	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0075	EA	4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	589.69	176.02
		<i>For Utility Label, Add</i>	7.54	
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
		<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.64	
		<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
		<i>For >50 To 100, Deduct</i>	-29.48	
		<i>For >100 To 250, Deduct</i>	-44.23	
		<i>For >250 To 500, Deduct</i>	-64.91	
		<i>For >500 To 1000, Deduct</i>	-85.59	
		<i>For >1000, Deduct</i>	-106.28	
26 56 19 00-0076	EA	4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	597.61	176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
		<i>For Field Adjustable Output, Add</i>	22.64	
		<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
		<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
		<i>For >50 To 100, Deduct</i>	-29.88	
		<i>For >100 To 250, Deduct</i>	-44.82	
		<i>For >250 To 500, Deduct</i>	-65.90	
		<i>For >500 To 1000, Deduct</i>	-86.98	
		<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0077	EA	4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	597.61	176.02
		<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
		<i>For Field Adjustable Output, Add</i>	22.64	
		<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
		<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
		<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
		<i>For >50 To 100, Deduct</i>	-29.88	
		<i>For >100 To 250, Deduct</i>	-44.82	
		<i>For >250 To 500, Deduct</i>	-65.90	
		<i>For >500 To 1000, Deduct</i>	-86.98	
		<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0078		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) <small>(26 56 19 00-0042)</small>		
		Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0079	EA	3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	581.77	176.02
		<i>For Field Adjustable Output, Add</i>	22.64	
		<i>For Backlight Control Shield, Add</i>	55.32	
		<i>For Bird Spikes, Add</i>	71.92	
		<i>For >50 To 100, Deduct</i>	-29.09	
		<i>For >100 To 250, Deduct</i>	-43.63	
		<i>For >250 To 500, Deduct</i>	-63.92	
		<i>For >500 To 1000, Deduct</i>	-84.21	
		<i>For >1000, Deduct</i>	-104.50	
26 56 19 00-0080	EA	3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	581.77	176.02
		<i>For Field Adjustable Output, Add</i>	22.64	
		<i>For Backlight Control Shield, Add</i>	55.32	
		<i>For Bird Spikes, Add</i>	71.92	
		<i>For >50 To 100, Deduct</i>	-29.09	
		<i>For >100 To 250, Deduct</i>	-43.63	
		<i>For >250 To 500, Deduct</i>	-63.92	
		<i>For >500 To 1000, Deduct</i>	-84.21	
		<i>For >1000, Deduct</i>	-104.50	
26 56 19 00-0081	EA	5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	597.61	176.02
		<i>For Field Adjustable Output, Add</i>	22.64	
		<i>For Backlight Control Shield, Add</i>	55.32	
		<i>For Bird Spikes, Add</i>	71.92	
		<i>For >50 To 100, Deduct</i>	-29.88	
		<i>For >100 To 250, Deduct</i>	-44.82	
		<i>For >250 To 500, Deduct</i>	-65.90	
		<i>For >500 To 1000, Deduct</i>	-86.98	
		<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0082	EA	5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	597.61	176.02
		<i>For Field Adjustable Output, Add</i>	22.64	
		<i>For Backlight Control Shield, Add</i>	55.32	
		<i>For Bird Spikes, Add</i>	71.92	
		<i>For >50 To 100, Deduct</i>	-29.88	
		<i>For >100 To 250, Deduct</i>	-44.82	
		<i>For >250 To 500, Deduct</i>	-65.90	
		<i>For >500 To 1000, Deduct</i>	-86.98	
		<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0083		LED Roadway Lighting (Cooper Lighting) <small>(26 56 19 00-0029)</small>		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0084 Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) <small>(26 56 19 00-0083)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0085 EA 1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	914.80	176.02
For >50 To 100, Deduct	-45.74	
For >100 To 250, Deduct	-68.61	
For >250 To 500, Deduct	-105.55	
For >500 To 1000, Deduct	-142.49	
For >1000, Deduct	-179.43	
26 56 19 00-0086 EA 2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,220.36	195.58
For >50 To 100, Deduct	-61.02	
For >100 To 250, Deduct	-91.53	
For >250 To 500, Deduct	-142.77	
For >500 To 1000, Deduct	-194.01	
For >1000, Deduct	-245.24	
26 56 19 00-0087 EA 3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,315.90	224.91
For >50 To 100, Deduct	-65.80	
For >100 To 250, Deduct	-98.69	
For >250 To 500, Deduct	-153.24	
For >500 To 1000, Deduct	-207.79	
For >1000, Deduct	-262.34	
26 56 19 00-0088 EA 4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,916.91	244.47
For >50 To 100, Deduct	-95.85	
For >100 To 250, Deduct	-143.77	
For >250 To 500, Deduct	-227.39	
For >500 To 1000, Deduct	-311.01	
For >1000, Deduct	-394.63	
26 56 19 00-0089 EA 6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,494.88	278.32
For >50 To 100, Deduct	-124.74	
For >100 To 250, Deduct	-187.12	
For >250 To 500, Deduct	-297.94	
For >500 To 1000, Deduct	-408.77	
For >1000, Deduct	-519.60	
26 56 19 00-0090 LED Roadway Lighting (PlanLED) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0091 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) <small>(26 56 19 00-0090)</small>		
Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0092 EA 8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	1,081.83	171.13
For >50 To 100, Deduct	-54.09	
For >100 To 250, Deduct	-81.14	
For >250 To 500, Deduct	-126.67	
For >500 To 1000, Deduct	-172.21	
For >1000, Deduct	-217.74	
26 56 19 00-0093 EA 11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	1,170.78	173.01
For >50 To 100, Deduct	-58.54	
For >100 To 250, Deduct	-87.81	
For >250 To 500, Deduct	-137.70	
For >500 To 1000, Deduct	-187.59	
For >1000, Deduct	-237.47	
26 56 19 00-0094 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	1,241.55	176.02
For >50 To 100, Deduct	-62.08	
For >100 To 250, Deduct	-93.12	
For >250 To 500, Deduct	-146.39	
For >500 To 1000, Deduct	-199.67	
For >1000, Deduct	-252.95	
26 56 19 00-0095 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) <small>(26 56 19 00-0090)</small>		
Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0096 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060).....	737.85	166.99
For >50 To 100, Deduct	-36.89	
For >100 To 250, Deduct	-55.34	
For >250 To 500, Deduct	-83.88	
For >500 To 1000, Deduct	-112.42	
For >1000, Deduct	-140.97	
26 56 19 00-0097 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080).....	786.46	170.00
For >50 To 100, Deduct	-39.32	
For >100 To 250, Deduct	-58.98	
For >250 To 500, Deduct	-89.81	
For >500 To 1000, Deduct	-120.63	
For >1000, Deduct	-151.45	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0098	EA		12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	862.35	173.01
			<i>For >50 To 100, Deduct</i>	-43.12	
			<i>For >100 To 250, Deduct</i>	-64.68	
			<i>For >250 To 500, Deduct</i>	-99.14	
			<i>For >500 To 1000, Deduct</i>	-133.61	
			<i>For >1000, Deduct</i>	-168.08	
26 56 19 00-0099			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) <small>(26 56 19 00-0090)</small>		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0100	EA		13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100).....	911.76	173.01
			<i>For 0 To 10 Volt Dimming, Add</i>	72.99	
			<i>For 480 Volt, Add</i>	72.99	
			<i>For >50 To 100, Deduct</i>	-45.59	
			<i>For >100 To 250, Deduct</i>	-68.38	
			<i>For >250 To 500, Deduct</i>	-105.32	
			<i>For >500 To 1000, Deduct</i>	-142.26	
			<i>For >1000, Deduct</i>	-179.19	
26 56 19 00-0101	EA		16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130).....	1,003.39	174.52
			<i>For 0 To 10 Volt Dimming, Add</i>	72.99	
			<i>For 480 Volt, Add</i>	21.55	
			<i>For >50 To 100, Deduct</i>	-50.17	
			<i>For >100 To 250, Deduct</i>	-75.25	
			<i>For >250 To 500, Deduct</i>	-116.70	
			<i>For >500 To 1000, Deduct</i>	-158.14	
			<i>For >1000, Deduct</i>	-199.58	
26 56 19 00-0102	EA		19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150).....	1,074.56	176.02
			<i>For 0 To 10 Volt Dimming, Add</i>	72.99	
			<i>For 480 Volt, Add</i>	-7.74	
			<i>For >50 To 100, Deduct</i>	-53.73	
			<i>For >100 To 250, Deduct</i>	-80.59	
			<i>For >250 To 500, Deduct</i>	-125.52	
			<i>For >500 To 1000, Deduct</i>	-170.45	
			<i>For >1000, Deduct</i>	-215.37	
26 56 19 00-0103			LED Roadway Lighting (General Electric) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0104			Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) <small>(26 56 19 00-0103)</small>		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0105	EA		2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	581.41	166.24
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-29.07	
			<i>For >100 To 250, Deduct</i>	-43.61	
			<i>For >250 To 500, Deduct</i>	-64.36	
			<i>For >500 To 1000, Deduct</i>	-85.12	
			<i>For >1000, Deduct</i>	-105.88	
26 56 19 00-0106	EA		3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	585.92	168.50
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-29.30	
			<i>For >100 To 250, Deduct</i>	-43.94	
			<i>For >250 To 500, Deduct</i>	-64.82	
			<i>For >500 To 1000, Deduct</i>	-85.69	
			<i>For >1000, Deduct</i>	-106.56	
26 56 19 00-0107	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	608.42	171.13
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-30.42	
			<i>For >100 To 250, Deduct</i>	-45.63	
			<i>For >250 To 500, Deduct</i>	-67.50	
			<i>For >500 To 1000, Deduct</i>	-89.36	
			<i>For >1000, Deduct</i>	-111.22	
26 56 19 00-0108	EA		5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY)	630.96	173.01
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-31.55	
			<i>For >100 To 250, Deduct</i>	-47.32	
			<i>For >250 To 500, Deduct</i>	-70.22	
			<i>For >500 To 1000, Deduct</i>	-93.12	
			<i>For >1000, Deduct</i>	-116.01	
26 56 19 00-0109	EA		7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY)	690.14	176.77
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-34.51	
			<i>For >100 To 250, Deduct</i>	-51.76	
			<i>For >250 To 500, Deduct</i>	-77.43	
			<i>For >500 To 1000, Deduct</i>	-103.10	
			<i>For >1000, Deduct</i>	-128.77	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0110	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	721.33	178.28
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-36.07	
			<i>For >100 To 250, Deduct</i>	-54.10	
			<i>For >250 To 500, Deduct</i>	-81.25	
			<i>For >500 To 1000, Deduct</i>	-108.41	
			<i>For >1000, Deduct</i>	-135.56	
26 56 19 00-0111	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	779.84	180.91
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-38.99	
			<i>For >100 To 250, Deduct</i>	-58.49	
			<i>For >250 To 500, Deduct</i>	-88.43	
			<i>For >500 To 1000, Deduct</i>	-118.38	
			<i>For >1000, Deduct</i>	-148.33	
26 56 19 00-0112	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	903.90	185.79
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-45.20	
			<i>For >100 To 250, Deduct</i>	-67.79	
			<i>For >250 To 500, Deduct</i>	-103.70	
			<i>For >500 To 1000, Deduct</i>	-139.60	
			<i>For >1000, Deduct</i>	-175.51	
26 56 19 00-0113	EA		19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,048.70	195.58
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-52.44	
			<i>For >100 To 250, Deduct</i>	-78.65	
			<i>For >250 To 500, Deduct</i>	-121.31	
			<i>For >500 To 1000, Deduct</i>	-163.97	
			<i>For >1000, Deduct</i>	-206.62	
26 56 19 00-0114			LED Roadway Lighting (Acuity AEL Autobahn) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0115			Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) <small>(26 56 19 00-0114)</small>		
			Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0116	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20BLEDE70).....	1,050.45	171.13
			<i>For >50 To 100, Deduct</i>	-52.52	
			<i>For >100 To 250, Deduct</i>	-78.78	
			<i>For >250 To 500, Deduct</i>	-122.75	
			<i>For >500 To 1000, Deduct</i>	-166.72	
			<i>For >1000, Deduct</i>	-210.68	
26 56 19 00-0117	EA		6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,287.32	176.02
			<i>For >50 To 100, Deduct</i>	-64.37	
			<i>For >100 To 250, Deduct</i>	-96.55	
			<i>For >250 To 500, Deduct</i>	-152.11	
			<i>For >500 To 1000, Deduct</i>	-207.68	
			<i>For >1000, Deduct</i>	-263.24	
26 56 19 00-0118	EA		9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	1,764.86	180.91
			<i>For >50 To 100, Deduct</i>	-88.24	
			<i>For >100 To 250, Deduct</i>	-132.36	
			<i>For >250 To 500, Deduct</i>	-211.56	
			<i>For >500 To 1000, Deduct</i>	-290.76	
			<i>For >1000, Deduct</i>	-369.96	
26 56 19 00-0119	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,246.78	188.06
			<i>For >50 To 100, Deduct</i>	-112.34	
			<i>For >100 To 250, Deduct</i>	-168.51	
			<i>For >250 To 500, Deduct</i>	-271.44	
			<i>For >500 To 1000, Deduct</i>	-374.38	
			<i>For >1000, Deduct</i>	-477.32	
26 56 19 00-0120	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	2,716.98	193.32
			<i>For >50 To 100, Deduct</i>	-135.85	
			<i>For >100 To 250, Deduct</i>	-203.77	
			<i>For >250 To 500, Deduct</i>	-329.96	
			<i>For >500 To 1000, Deduct</i>	-456.14	
			<i>For >1000, Deduct</i>	-582.32	
26 56 19 00-0121			LED Roadway Lighting (Leotek) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0122			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) <small>(26 56 19 00-0121)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 19 00-0123	EA	Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	595.43		171.13
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-29.77		
		For >100 To 250, Deduct	-44.66		
		For >250 To 500, Deduct	-65.87		
		For >500 To 1000, Deduct	-87.09		
		For >1000, Deduct	-108.30		
26 56 19 00-0124	EA	Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	607.40		173.01
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-30.37		
		For >100 To 250, Deduct	-45.56		
		For >250 To 500, Deduct	-67.27		
		For >500 To 1000, Deduct	-88.99		
		For >1000, Deduct	-110.71		
26 56 19 00-0125	EA	Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	642.53		174.14
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-32.13		
		For >100 To 250, Deduct	-48.19		
		For >250 To 500, Deduct	-71.61		
		For >500 To 1000, Deduct	-95.03		
		For >1000, Deduct	-118.45		
26 56 19 00-0126	EA	Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	734.98		180.91
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-36.75		
		For >100 To 250, Deduct	-55.12		
		For >250 To 500, Deduct	-82.83		
		For >500 To 1000, Deduct	-110.53		
		For >1000, Deduct	-138.23		
26 56 19 00-0127	EA	Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	846.68		185.79
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-42.33		
		For >100 To 250, Deduct	-63.50		
		For >250 To 500, Deduct	-96.55		
		For >500 To 1000, Deduct	-129.59		
		For >1000, Deduct	-162.63		
26 56 19 00-0128	EA	Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	852.69		188.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-42.63		
		For >100 To 250, Deduct	-63.95		
		For >250 To 500, Deduct	-97.15		
		For >500 To 1000, Deduct	-130.34		
		For >1000, Deduct	-163.53		
26 56 19 00-0129	EA	Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	1,024.74		191.82
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	7.83		
		For ANSI 7-wire Photocontrol Receptacle, Add	23.48		
		For Ripley Long-Life Twist Lock Photocontrol, Add	42.02		
		For >50 To 100, Deduct	-51.24		
		For >100 To 250, Deduct	-76.86		
		For >250 To 500, Deduct	-118.50		
		For >500 To 1000, Deduct	-160.15		
		For >1000, Deduct	-201.79		



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0130	EA	Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	1,071.72	195.58
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-53.59	
			<i>For >100 To 250, Deduct</i>	-80.38	
			<i>For >250 To 500, Deduct</i>	-124.19	
			<i>For >500 To 1000, Deduct</i>	-167.99	
			<i>For >1000, Deduct</i>	-211.80	
26 56	19 00-0131	EA	Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....	1,186.23	198.59
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-59.31	
			<i>For >100 To 250, Deduct</i>	-88.97	
			<i>For >250 To 500, Deduct</i>	-138.35	
			<i>For >500 To 1000, Deduct</i>	-187.73	
			<i>For >1000, Deduct</i>	-237.11	
26 56	19 00-0132	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL).....	1,266.23	201.60
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-63.31	
			<i>For >100 To 250, Deduct</i>	-94.97	
			<i>For >250 To 500, Deduct</i>	-148.20	
			<i>For >500 To 1000, Deduct</i>	-201.43	
			<i>For >1000, Deduct</i>	-254.66	
26 56	19 00-0133	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	676.44	173.01
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-33.82	
			<i>For >100 To 250, Deduct</i>	-50.73	
			<i>For >250 To 500, Deduct</i>	-75.90	
			<i>For >500 To 1000, Deduct</i>	-101.08	
			<i>For >1000, Deduct</i>	-126.25	
26 56	19 00-0134	EA	Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	736.43	177.53
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-36.82	
			<i>For >100 To 250, Deduct</i>	-55.23	
			<i>For >250 To 500, Deduct</i>	-83.18	
			<i>For >500 To 1000, Deduct</i>	-111.12	
			<i>For >1000, Deduct</i>	-139.07	
26 56	19 00-0135	EA	Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	789.23	180.91
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-39.46	
			<i>For >100 To 250, Deduct</i>	-59.19	
			<i>For >250 To 500, Deduct</i>	-89.61	
			<i>For >500 To 1000, Deduct</i>	-120.02	
			<i>For >1000, Deduct</i>	-150.44	
26 56	19 00-0136	EA	Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	835.31	185.05
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-41.77	
			<i>For >100 To 250, Deduct</i>	-62.65	
			<i>For >250 To 500, Deduct</i>	-95.16	
			<i>For >500 To 1000, Deduct</i>	-127.67	
			<i>For >1000, Deduct</i>	-160.19	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0137	EA	Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	881.07	186.55
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-44.05	
			<i>For >100 To 250, Deduct</i>	-66.08	
			<i>For >250 To 500, Deduct</i>	-100.81	
			<i>For >500 To 1000, Deduct</i>	-135.53	
			<i>For >1000, Deduct</i>	-170.26	
26 56	19 00-0138	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,034.34	193.32
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-51.72	
			<i>For >100 To 250, Deduct</i>	-77.58	
			<i>For >250 To 500, Deduct</i>	-119.63	
			<i>For >500 To 1000, Deduct</i>	-161.68	
			<i>For >1000, Deduct</i>	-203.73	
26 56	19 00-0139	EA	Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,158.56	197.08
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-57.93	
			<i>For >100 To 250, Deduct</i>	-86.89	
			<i>For >250 To 500, Deduct</i>	-134.97	
			<i>For >500 To 1000, Deduct</i>	-183.04	
			<i>For >1000, Deduct</i>	-231.11	
26 56	19 00-0140	EA	Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,225.83	197.83
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-61.29	
			<i>For >100 To 250, Deduct</i>	-91.94	
			<i>For >250 To 500, Deduct</i>	-143.34	
			<i>For >500 To 1000, Deduct</i>	-194.74	
			<i>For >1000, Deduct</i>	-246.14	
26 56	19 00-0141	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	1,291.17	200.09
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-64.56	
			<i>For >100 To 250, Deduct</i>	-96.84	
			<i>For >250 To 500, Deduct</i>	-151.39	
			<i>For >500 To 1000, Deduct</i>	-205.95	
			<i>For >1000, Deduct</i>	-260.50	
26 56	19 00-0142	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	727.76	188.81
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-36.39	
			<i>For >100 To 250, Deduct</i>	-54.58	
			<i>For >250 To 500, Deduct</i>	-81.53	
			<i>For >500 To 1000, Deduct</i>	-108.48	
			<i>For >1000, Deduct</i>	-135.43	
26 56	19 00-0143	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....	780.84	190.69
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	7.83	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
			<i>For >50 To 100, Deduct</i>	-39.04	
			<i>For >100 To 250, Deduct</i>	-58.56	
			<i>For >250 To 500, Deduct</i>	-88.07	
			<i>For >500 To 1000, Deduct</i>	-117.58	
			<i>For >1000, Deduct</i>	-147.09	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0144 EA Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....	573.77	172.64
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-28.69	
For >100 To 250, Deduct	-43.03	
For >250 To 500, Deduct	-63.09	
For >500 To 1000, Deduct	-83.15	
For >1000, Deduct	-103.20	
26 56 19 00-0145 EA Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....	583.35	174.14
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-29.17	
For >100 To 250, Deduct	-43.75	
For >250 To 500, Deduct	-64.21	
For >500 To 1000, Deduct	-84.67	
For >1000, Deduct	-105.13	
26 56 19 00-0146 EA Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	627.93	177.53
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-31.40	
For >100 To 250, Deduct	-47.09	
For >250 To 500, Deduct	-69.62	
For >500 To 1000, Deduct	-92.14	
For >1000, Deduct	-114.66	
26 56 19 00-0147 EA Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	924.47	191.82
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-46.22	
For >100 To 250, Deduct	-69.34	
For >250 To 500, Deduct	-105.97	
For >500 To 1000, Deduct	-142.60	
For >1000, Deduct	-179.23	
26 56 19 00-0148 EA Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	1,179.80	197.83
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-58.99	
For >100 To 250, Deduct	-88.49	
For >250 To 500, Deduct	-137.58	
For >500 To 1000, Deduct	-186.68	
For >1000, Deduct	-235.78	
26 56 19 00-0149 EA Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	1,062.94	198.59
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-53.15	
For >100 To 250, Deduct	-79.72	
For >250 To 500, Deduct	-122.94	
For >500 To 1000, Deduct	-166.16	
For >1000, Deduct	-209.37	
26 56 19 00-0150 EA Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	554.79	173.01
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-27.74	
For >100 To 250, Deduct	-41.61	
For >250 To 500, Deduct	-60.70	
For >500 To 1000, Deduct	-79.79	
For >1000, Deduct	-98.88	

26 56 19 00-0151 LED, Area Fixtures ^(26 56 19)

26 56 19 00-0152 Pole Mount, LED Area Fixtures ^(26 56 19 00-0151)

26 56 19 00-0153 Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) ^(26 56 19 00-0152)

Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0154	EA	20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,136.74	127.87
			<i>For >50 To 100, Deduct</i>	-106.84	
			<i>For >100 To 250, Deduct</i>	-160.26	
			<i>For >250 To 500, Deduct</i>	-260.70	
			<i>For >500 To 1000, Deduct</i>	-361.14	
			<i>For >1000, Deduct</i>	-461.58	
26 56	19 00-0155	EA	40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,302.25	135.40
			<i>For >50 To 100, Deduct</i>	-115.11	
			<i>For >100 To 250, Deduct</i>	-172.67	
			<i>For >250 To 500, Deduct</i>	-281.01	
			<i>For >500 To 1000, Deduct</i>	-389.35	
			<i>For >1000, Deduct</i>	-497.70	
26 56	19 00-0156	EA	80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,482.82	150.45
			<i>For >50 To 100, Deduct</i>	-124.14	
			<i>For >100 To 250, Deduct</i>	-186.21	
			<i>For >250 To 500, Deduct</i>	-302.83	
			<i>For >500 To 1000, Deduct</i>	-419.45	
			<i>For >1000, Deduct</i>	-536.07	
26 56	19 00-0157	EA	100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,497.86	157.97
			<i>For >50 To 100, Deduct</i>	-124.89	
			<i>For >100 To 250, Deduct</i>	-187.34	
			<i>For >250 To 500, Deduct</i>	-304.33	
			<i>For >500 To 1000, Deduct</i>	-421.33	
			<i>For >1000, Deduct</i>	-538.32	
26 56	19 00-0158		Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) <small>(26 56 19 00-0152)</small>		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56	19 00-0159	EA	40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,053.74	135.40
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	35.04	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-52.69	
			<i>For >100 To 250, Deduct</i>	-79.03	
			<i>For >250 To 500, Deduct</i>	-124.95	
			<i>For >500 To 1000, Deduct</i>	-170.86	
			<i>For >1000, Deduct</i>	-216.78	
26 56	19 00-0160	EA	60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,256.84	142.92
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	35.79	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-62.84	
			<i>For >100 To 250, Deduct</i>	-94.26	
			<i>For >250 To 500, Deduct</i>	-149.96	
			<i>For >500 To 1000, Deduct</i>	-205.66	
			<i>For >1000, Deduct</i>	-261.35	
26 56	19 00-0161	EA	80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,535.43	150.45
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	36.54	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-76.77	
			<i>For >100 To 250, Deduct</i>	-115.16	
			<i>For >250 To 500, Deduct</i>	-184.41	
			<i>For >500 To 1000, Deduct</i>	-253.66	
			<i>For >1000, Deduct</i>	-322.91	
26 56	19 00-0162	EA	100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,738.53	157.97
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	37.30	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-86.93	
			<i>For >100 To 250, Deduct</i>	-130.39	
			<i>For >250 To 500, Deduct</i>	-209.42	
			<i>For >500 To 1000, Deduct</i>	-288.45	
			<i>For >1000, Deduct</i>	-367.47	
26 56	19 00-0163	EA	120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,941.64	165.48
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	38.05	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-97.08	
			<i>For >100 To 250, Deduct</i>	-145.62	
			<i>For >250 To 500, Deduct</i>	-234.43	
			<i>For >500 To 1000, Deduct</i>	-323.24	
			<i>For >1000, Deduct</i>	-412.05	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0164	EA		140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,204.87	173.01
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	38.80	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-110.24	
			<i>For >100 To 250, Deduct</i>	-165.37	
			<i>For >250 To 500, Deduct</i>	-266.96	
			<i>For >500 To 1000, Deduct</i>	-368.55	
			<i>For >1000, Deduct</i>	-470.14	
26 56 19 00-0165	EA		160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,407.98	180.53
			<i>For Backlight Shielding, Add</i>	17.91	
			<i>For Type II Medium Optic, Add</i>	39.55	
			<i>For 480 Volt, Add</i>	86.41	
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-120.40	
			<i>For >100 To 250, Deduct</i>	-180.60	
			<i>For >250 To 500, Deduct</i>	-291.97	
			<i>For >500 To 1000, Deduct</i>	-403.34	
			<i>For >1000, Deduct</i>	-514.72	
26 56 19 00-0166			Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) <small>(26 56 19 00-0152)</small>		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0167	EA		120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	1,802.79	165.48
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Bird Spikes, Add</i>	40.32	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.76	
			<i>For >50 To 100, Deduct</i>	-90.14	
			<i>For >100 To 250, Deduct</i>	-135.21	
			<i>For >250 To 500, Deduct</i>	-217.07	
			<i>For >500 To 1000, Deduct</i>	-298.94	
			<i>For >1000, Deduct</i>	-380.80	
26 56 19 00-0168	EA		240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	2,987.02	203.10
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	58.34	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.74	
			<i>For 480 Volt, Add</i>	135.79	
			<i>For >50 To 100, Deduct</i>	-149.35	
			<i>For >100 To 250, Deduct</i>	-224.03	
			<i>For >250 To 500, Deduct</i>	-363.22	
			<i>For >500 To 1000, Deduct</i>	-502.42	
			<i>For >1000, Deduct</i>	-641.61	
26 56 19 00-0169			Wall Mount, LED Area Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0170			Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) <small>(26 56 19 00-0169)</small>		
			Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0171	EA		20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	979.56	127.87
			<i>For >50 To 100, Deduct</i>	-48.98	
			<i>For >100 To 250, Deduct</i>	-73.47	
			<i>For >250 To 500, Deduct</i>	-116.05	
			<i>For >500 To 1000, Deduct</i>	-158.64	
			<i>For >1000, Deduct</i>	-201.22	
26 56 19 00-0172	EA		30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,009.64	142.92
			<i>For >50 To 100, Deduct</i>	-50.48	
			<i>For >100 To 250, Deduct</i>	-75.72	
			<i>For >250 To 500, Deduct</i>	-119.06	
			<i>For >500 To 1000, Deduct</i>	-162.40	
			<i>For >1000, Deduct</i>	-205.73	
26 56 19 00-0173			Surface Mount, LED Parking Structure Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0174			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) <small>(26 56 19 00-0173)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0175	EA	40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	941.16	135.40
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-47.06	
			<i>For >100 To 250, Deduct</i>	-70.59	
			<i>For >250 To 500, Deduct</i>	-110.88	
			<i>For >500 To 1000, Deduct</i>	-151.16	
			<i>For >1000, Deduct</i>	-191.45	
26 56	19 00-0176	EA	60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,144.26	142.92
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-57.21	
			<i>For >100 To 250, Deduct</i>	-85.82	
			<i>For >250 To 500, Deduct</i>	-135.89	
			<i>For >500 To 1000, Deduct</i>	-185.95	
			<i>For >1000, Deduct</i>	-236.02	
26 56	19 00-0177	EA	80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,347.37	150.45
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-67.37	
			<i>For >100 To 250, Deduct</i>	-101.05	
			<i>For >250 To 500, Deduct</i>	-160.90	
			<i>For >500 To 1000, Deduct</i>	-220.75	
			<i>For >1000, Deduct</i>	-280.59	
26 56	19 00-0178	EA	100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,550.47	157.97
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-77.52	
			<i>For >100 To 250, Deduct</i>	-116.29	
			<i>For >250 To 500, Deduct</i>	-185.91	
			<i>For >500 To 1000, Deduct</i>	-255.54	
			<i>For >1000, Deduct</i>	-325.16	
26 56 19 00-0179 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) <small>(26 56 19 00-0173)</small>					
Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.					
26 56	19 00-0180	EA	40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	910.46	135.40
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-45.52	
			<i>For >100 To 250, Deduct</i>	-68.28	
			<i>For >250 To 500, Deduct</i>	-107.04	
			<i>For >500 To 1000, Deduct</i>	-145.79	
			<i>For >1000, Deduct</i>	-184.54	
26 56	19 00-0181	EA	60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,000.98	142.92
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-50.05	
			<i>For >100 To 250, Deduct</i>	-75.07	
			<i>For >250 To 500, Deduct</i>	-117.98	
			<i>For >500 To 1000, Deduct</i>	-160.88	
			<i>For >1000, Deduct</i>	-203.78	
26 56 19 00-0182 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) <small>(26 56 19 00-0173)</small>					
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.					
26 56	19 00-0183	EA	3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADMSMA40KUL).....	879.14	135.40
			<i>For >50 To 100, Deduct</i>	-43.96	
			<i>For >100 To 250, Deduct</i>	-65.94	
			<i>For >250 To 500, Deduct</i>	-103.12	
			<i>For >500 To 1000, Deduct</i>	-140.31	
			<i>For >1000, Deduct</i>	-177.50	
26 56 19 00-0184 Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) <small>(26 56 19 00-0173)</small>					
Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.					
26 56	19 00-0185	EA	70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,679.61	142.92
			<i>For >50 To 100, Deduct</i>	-83.98	
			<i>For >100 To 250, Deduct</i>	-125.97	
			<i>For >250 To 500, Deduct</i>	-202.81	
			<i>For >500 To 1000, Deduct</i>	-279.64	
			<i>For >1000, Deduct</i>	-356.47	
26 56	19 00-0186	EA	110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,709.70	157.97
			<i>For >50 To 100, Deduct</i>	-85.49	
			<i>For >100 To 250, Deduct</i>	-128.23	
			<i>For >250 To 500, Deduct</i>	-205.81	
			<i>For >500 To 1000, Deduct</i>	-283.40	
			<i>For >1000, Deduct</i>	-360.99	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0187 Surface Mount, LED Canopy Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0188 Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) <small>(26 56 19 00-0187)</small> Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0189 EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	1,076.77 179.10 -53.84 -80.76 -127.83 -174.89 -221.96	135.40
26 56 19 00-0190 EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	1,279.87 179.10 -63.99 -95.99 -152.84 -209.69 -266.53	142.92
26 56 19 00-0191 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	1,482.98 179.10 -74.15 -111.22 -177.85 -244.48 -311.10	150.45
26 56 19 00-0192 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	1,686.08 179.10 -84.30 -126.46 -202.86 -279.27 -355.67	157.97
26 56 19 00-0193 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	1,889.19 179.10 -94.46 -141.69 -227.87 -314.06 -400.24	165.48
26 56 19 00-0194 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	2,167.77 179.10 -108.39 -162.58 -262.32 -362.06 -461.80	173.01
26 56 19 00-0195 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	2,370.88 179.10 -118.54 -177.82 -287.33 -396.85 -506.37	180.53
26 56 19 00-0196 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	2,777.08 179.10 -138.85 -208.28 -337.36 -466.43 -595.51	195.58
26 56 19 00-0197 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	3,168.25 179.10 -158.41 -237.62 -385.88 -534.13 -682.39	203.10
26 56 19 00-0198 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 19 00-0187)</small> Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0199 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250) For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1000, Deduct For >1000, Deduct	783.19 -39.16 -58.74 -90.38 -122.01 -153.65	150.45



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 19 00-0200	Recessed Mount, LED Soffit Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0201	Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 19 00-0200)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0202	EA 40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	925.81	135.40
	For >50 To 100, Deduct	-46.29	
	For >100 To 250, Deduct	-69.44	
	For >250 To 500, Deduct	-108.96	
	For >500 To 1000, Deduct	-148.48	
	For >1000, Deduct	-188.00	
26 56 19 00-0203	EA 60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,016.33	142.92
	For >50 To 100, Deduct	-50.82	
	For >100 To 250, Deduct	-76.22	
	For >250 To 500, Deduct	-119.90	
	For >500 To 1000, Deduct	-163.57	
	For >1000, Deduct	-207.24	
26 56 19 00-0204	Surface Mount, LED Area Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0205	Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0204)</small> Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0206	EA 50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	652.17	135.40
	For >50 To 100, Deduct	-32.61	
	For >100 To 250, Deduct	-48.91	
	For >250 To 500, Deduct	-74.75	
	For >500 To 1000, Deduct	-100.59	
	For >1000, Deduct	-126.43	
26 56 19 00-0207	EA 50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,240.45	135.40
	For >50 To 100, Deduct	-62.02	
	For >100 To 250, Deduct	-93.03	
	For >250 To 500, Deduct	-148.29	
	For >500 To 1000, Deduct	-203.54	
	For >1000, Deduct	-258.79	
26 56 19 00-0208	EA 68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,051.19	150.45
	For >50 To 100, Deduct	-52.56	
	For >100 To 250, Deduct	-78.84	
	For >250 To 500, Deduct	-123.88	
	For >500 To 1000, Deduct	-168.91	
	For >1000, Deduct	-213.95	
26 56 19 00-0209	EA 68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,282.73	150.45
	For >50 To 100, Deduct	-64.14	
	For >100 To 250, Deduct	-96.20	
	For >250 To 500, Deduct	-152.82	
	For >500 To 1000, Deduct	-209.43	
	For >1000, Deduct	-266.05	
26 56 19 00-0210	Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0204)</small> Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0211	EA 13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	210.74	49.26
	For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
	For >50 To 100, Deduct	-10.54	
	For >100 To 250, Deduct	-15.81	
	For >250 To 500, Deduct	-24.29	
	For >500 To 1000, Deduct	-32.77	
	For >1000, Deduct	-41.26	
26 56 19 00-0212	EA 20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	238.02	49.26
	For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
	For >50 To 100, Deduct	-11.90	
	For >100 To 250, Deduct	-17.85	
	For >250 To 500, Deduct	-27.70	
	For >500 To 1000, Deduct	-37.55	
	For >1000, Deduct	-47.40	
26 56 19 00-0213	EA 30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	290.00	49.26
	For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
	For >50 To 100, Deduct	-14.50	
	For >100 To 250, Deduct	-21.75	
	For >250 To 500, Deduct	-34.20	
	For >500 To 1000, Deduct	-46.65	
	For >1000, Deduct	-59.09	
26 56 19 00-0214	Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0215	Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0214)</small>		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0216 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	633.95	57.51
For >50 To 100, Deduct	-31.70	
For >100 To 250, Deduct	-47.55	
For >250 To 500, Deduct	-77.06	
For >500 To 1000, Deduct	-106.57	
For >1000, Deduct	-136.08	
26 56 19 00-0217 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,015.55	52.51
For >50 To 100, Deduct	-50.78	
For >100 To 250, Deduct	-76.17	
For >250 To 500, Deduct	-125.07	
For >500 To 1000, Deduct	-173.97	
For >1000, Deduct	-222.87	
26 56 19 00-0218 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,288.37	43.76
For >50 To 100, Deduct	-64.42	
For >100 To 250, Deduct	-96.63	
For >250 To 500, Deduct	-159.48	
For >500 To 1000, Deduct	-222.34	
For >1000, Deduct	-285.20	
26 56 19 00-0219 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,561.17	35.01
For >50 To 100, Deduct	-78.06	
For >100 To 250, Deduct	-117.09	
For >250 To 500, Deduct	-193.90	
For >500 To 1000, Deduct	-270.70	
For >1000, Deduct	-347.51	
26 56 19 00-0220 Post Top, LED Area Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0221 Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 19 00-0220)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0222 EA 1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	1,816.08	206.86
For >50 To 100, Deduct	-90.80	
For >100 To 250, Deduct	-136.21	
For >250 To 500, Deduct	-216.67	
For >500 To 1000, Deduct	-297.13	
For >1000, Deduct	-377.59	
26 56 19 00-0223 EA 3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	1,995.02	206.86
For >50 To 100, Deduct	-99.75	
For >100 To 250, Deduct	-149.63	
For >250 To 500, Deduct	-239.03	
For >500 To 1000, Deduct	-328.44	
For >1000, Deduct	-417.85	
26 56 19 00-0224 EA 77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	2,136.46	206.86
For >50 To 100, Deduct	-106.82	
For >100 To 250, Deduct	-160.23	
For >250 To 500, Deduct	-256.71	
For >500 To 1000, Deduct	-353.19	
For >1000, Deduct	-449.67	
26 56 19 00-0225 Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 19 00-0220)</small>		
Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0226 EA 3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	2,125.01	206.86
For >50 To 100, Deduct	-106.25	
For >100 To 250, Deduct	-159.38	
For >250 To 500, Deduct	-255.28	
For >500 To 1000, Deduct	-351.19	
For >1000, Deduct	-447.10	
26 56 19 00-0227 EA 6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,171.04	206.86
For >50 To 100, Deduct	-108.55	
For >100 To 250, Deduct	-162.83	
For >250 To 500, Deduct	-261.04	
For >500 To 1000, Deduct	-359.25	
For >1000, Deduct	-457.45	
26 56 19 00-0228 Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 19 00-0220)</small>		
Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0229 EA 3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....	1,501.82	206.86
For >50 To 100, Deduct	-75.09	
For >100 To 250, Deduct	-112.64	
For >250 To 500, Deduct	-177.38	
For >500 To 1000, Deduct	-242.13	
For >1000, Deduct	-306.88	
26 56 19 00-0230 EA 6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,570.71	206.86
For >50 To 100, Deduct	-78.54	
For >100 To 250, Deduct	-117.80	
For >250 To 500, Deduct	-186.00	
For >500 To 1000, Deduct	-254.19	
For >1000, Deduct	-322.38	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0231			Post Top, LED Area Fixtures (General Electric EPST) <small>(26 56 19 00-0220)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0232	EA		3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3) 1,188.70	206.86	
			<i>For >50 To 100, Deduct</i> -59.44		
			<i>For >100 To 250, Deduct</i> -89.15		
			<i>For >250 To 500, Deduct</i> -138.24		
			<i>For >500 To 1000, Deduct</i> -187.34		
			<i>For >1000, Deduct</i> -236.43		
26 56 19 00-0233	EA		6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3) 1,257.59	206.86	
			<i>For >50 To 100, Deduct</i> -62.88		
			<i>For >100 To 250, Deduct</i> -94.32		
			<i>For >250 To 500, Deduct</i> -146.86		
			<i>For >500 To 1000, Deduct</i> -199.39		
			<i>For >1000, Deduct</i> -251.93		
26 56 19 00-0234			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) <small>(26 56 19 00-0220)</small> Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0235	EA		13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR) 2,363.41	206.86	
			<i>For >50 To 100, Deduct</i> -118.17		
			<i>For >100 To 250, Deduct</i> -177.26		
			<i>For >250 To 500, Deduct</i> -285.08		
			<i>For >500 To 1000, Deduct</i> -392.91		
			<i>For >1000, Deduct</i> -500.74		
26 56 19 00-0236			LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) <small>(26 56 19 00-0220)</small> Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 56 19 00-0237	EA		LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53) 693.04	112.83	
			<i>For 0 To 10 Volt Dimming, Add</i> 45.26		
			<i>For >50 To 100, Deduct</i> -34.65		
			<i>For >100 To 250, Deduct</i> -51.98		
			<i>For >250 To 500, Deduct</i> -80.99		
			<i>For >500 To 1000, Deduct</i> -110.00		
			<i>For >1000, Deduct</i> -139.01		
26 56 19 00-0238			LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) <small>(26 56 19 00-0220)</small> Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 56 19 00-0239	EA		LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) 419.48	24.07	
			<i>For Backlight Control Shield, Add</i> 31.74		
			<i>For >50 To 100, Deduct</i> -20.97		
			<i>For >100 To 250, Deduct</i> -31.46		
			<i>For >250 To 500, Deduct</i> -50.03		
			<i>For >500 To 1000, Deduct</i> -68.59		
			<i>For >1000, Deduct</i> -87.16		
26 56 19 00-0240			Surface Mount, LED Strip Fixtures (Sylvania) <small>(26 56 19 00-0151)</small>		
26 56 19 00-0241	EA		4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D) 440.60	45.75	
			<i>For >50 To 100, Deduct</i> -22.03		
			<i>For >100 To 250, Deduct</i> -33.05		
			<i>For >250 To 500, Deduct</i> -53.36		
			<i>For >500 To 1000, Deduct</i> -73.67		
			<i>For >1000, Deduct</i> -93.98		
26 56 21			HID Exterior Lighting <small>(26 56)</small>		
26 56 21 00-0001			High Mast Fixtures <small>(26 56 21)</small>		
26 56 21 00-0002			Metal Halide, High Mast Fixtures <small>(26 56 21 00-0001)</small>		
26 56 21 00-0003	EA		400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux 1,690.47	186.13	
26 56 21 00-0004	EA		400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux 1,802.75	186.13	
26 56 21 00-0005	EA		750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux 1,796.06	212.64	
26 56 21 00-0006	EA		750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux 1,863.43	212.64	
26 56 21 00-0007	EA		1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux 1,900.61	265.80	
26 56 21 00-0008	EA		1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux 1,967.98	265.80	
26 56 21 00-0009			High Pressure Sodium, High Mast Fixtures <small>(26 56 21 00-0001)</small>		
26 56 21 00-0010	EA		400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux 1,745.06	186.13	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,812.43	186.13
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,101.70	196.77
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,156.65	212.64
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,294.89	265.80
26 56 21 00-0015 HID, Pole Mounted <small>(26 56 21)</small>		
26 56 21 00-0016 Metal Halide, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	662.07	303.52
26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	739.68	329.46
26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	849.75	354.40
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,101.70	415.37
26 56 21 00-0021 High Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	787.07	354.40
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	808.09	354.40
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	844.62	354.40
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	935.75	354.40
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,081.62	354.40
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,069.26	354.40
26 56 21 00-0028 Low Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	667.71	192.80
26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	769.65	283.53
26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	877.00	283.53
26 56 21 00-0032 Metal Halide, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0033 Metal Halide, Pole Mount, Area Fixtures <small>(26 56 21 00-0032)</small>		
Note: Includes pulse start ballast.		
26 56 21 00-0034 EA 150 Watt, Metal Halide Area Fixture, Pole Mount	1,022.11	186.72
26 56 21 00-0035 EA 175 Watt, Metal Halide Area Fixture, Pole Mount	1,121.88	205.39
26 56 21 00-0036 EA 250 Watt, Metal Halide Area Fixture, Pole Mount	1,239.29	224.06
26 56 21 00-0037 EA 400 Watt, Metal Halide Area Fixture, Pole Mount	1,321.90	261.41
26 56 21 00-0038 High Pressure Sodium, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0039 Pole Mount, High Pressure Sodium Area Fixtures <small>(26 56 21 00-0038)</small>		
26 56 21 00-0040 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount	846.52	149.37
26 56 21 00-0041 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount	932.38	186.72
26 56 21 00-0042 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,021.21	224.06
26 56 21 00-0043 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,088.20	261.41
26 56 21 00-0044 Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21)</small>		
26 56 21 00-0045 Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046 EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	630.34	283.53
26 56 21 00-0047 EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	709.83	318.97
26 56 21 00-0048 EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	833.65	354.40
26 56 21 00-0049 EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,086.74	415.37
26 56 21 00-0050 High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051 EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	591.51	242.42
26 56 21 00-0052 EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	639.21	258.01
26 56 21 00-0053 EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	686.45	272.19
26 56 21 00-0054 EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	710.42	283.53
26 56 21 00-0055 EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	784.63	318.97
26 56 21 00-0056 EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	846.31	354.40
26 56 21 00-0057 EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,176.00	415.37
26 56 21 00-0058 Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0059 High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060 EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	725.57	191.38
26 56 21 00-0061 EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	757.45	212.64
26 56 21 00-0062 EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	815.05	242.42
26 56 21 00-0063 EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	840.02	258.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0064 EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	866.26	272.19
26 56 21 00-0065 EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	907.06	283.53
26 56 21 00-0066 EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	992.57	318.97
26 56 21 00-0067 EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,190.97	354.40
26 56 21 00-0068 Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069 EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	799.39	212.64
26 56 21 00-0070 EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	850.60	242.42
26 56 21 00-0071 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	881.57	258.01
26 56 21 00-0072 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	920.55	272.19
26 56 21 00-0073 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	942.63	283.53
26 56 21 00-0074 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,029.96	318.97
26 56 21 00-0075 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,290.40	354.40
26 56 21 00-0076 Wall Packs <small>(26 56 21)</small>		
26 56 21 00-0077 Non Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	352.45	68.41
26 56 21 00-0079 EA 50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	374.07	68.41
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	374.07	68.41
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	478.93	68.41
26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	648.17	68.41
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	655.95	68.41
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	662.68	68.41
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	650.41	68.41
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	599.95	68.41
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	572.23	68.41
26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 21 00-0090 EA 42 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	680.10	68.41
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	687.18	68.41
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	674.93	68.41
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	684.80	68.41
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	684.80	68.41
26 56 21 00-0095 Non Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	666.99	91.13
26 56 21 00-0097 EA 100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	666.99	91.13
26 56 21 00-0098 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	629.01	91.13
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	643.56	91.13
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	643.56	91.13
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	601.46	91.13
26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	689.49	91.13
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	689.49	91.13
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	689.49	91.13
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	667.15	91.13
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	667.15	91.13
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	667.15	91.13
26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	871.25	91.13
26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. Lithonia TWR2.		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	839.89	112.88
Note: 9-1/4" x 17-7/8" x 9-3/8".		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	891.37	112.88
Note: 9-1/4" x 17-7/8" x 12-1/2".		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	952.75	112.88
Note: 9-1/4" x 17-7/8" x 9-3/8".		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 12-1/2".	969.64	112.88
26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	906.10	112.88
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	963.95	112.88
26 56 21 00-0119 Non Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 21 00-0076) Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	859.74	136.83
26 56 21 00-0121 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	798.48	136.83
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	845.57	136.83
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	850.25	136.83
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	855.17	136.83
26 56 21 00-0125 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	859.76	136.83
26 56 21 00-0127 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	880.20	136.83
26 56 21 00-0128 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	941.47	136.83
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	900.63	136.83
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	921.08	136.83
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	961.88	136.83
26 56 21 00-0132 Semi Cutoff, Induction Wall Packs (26 56 21 00-0076)		
26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) (26 56 21 00-0132) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	1,038.97	127.87
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	1,062.73	135.40
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	1,086.50	142.92
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	1,206.27	150.45
26 56 21 00-0138 Non Cutoff, Polycarbonate Lens, Small Wall Packs (26 56 21 00-0076)		
26 56 21 00-0139 EA 15 Watt, Exterior, Non-Cutoff Small Wall Pack (Sylvania 60066-SMWLPAK1N/015UNV740/NC/BZ/P)	362.13	68.41
26 56 21 00-0140 Induction, Roadway Lighting (26 56 21)		
26 56 21 00-0141 Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0140) Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 21 00-0142 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	688.70	225.67
26 56 21 00-0143 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	750.28	233.19
26 56 21 00-0144 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	780.36	248.23
26 56 21 00-0145 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	810.46	263.28
26 56 21 00-0146 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	932.55	270.80
26 56 21 00-0147 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	951.32	278.32
26 56 21 00-0148 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	649.61	225.67
26 56 21 00-0149 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	716.77	233.19
26 56 21 00-0150 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	746.85	248.23
26 56 21 00-0151 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	776.95	263.28
26 56 21 00-0152 Induction, Area Fixtures (26 56 21)		
26 56 21 00-0153 Post Top, Induction Area Fixtures (26 56 21 00-0152)		
26 56 21 00-0154 Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 21 00-0153) Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0155 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	749.76	206.86
26 56 21 00-0156 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	803.75	206.86
26 56 21 00-0157 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	803.75	206.86
26 56 21 00-0158 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	803.75	206.86
26 56 21 00-0159 Surface Mount, Induction Parking Structure Fixtures (26 56 21 00-0152)		
26 56 21 00-0160 Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 21 00-0159)		
26 56 21 00-0161 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	677.99	188.06
26 56 21 00-0162 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	717.16	191.82
26 56 21 00-0163 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	728.40	195.58
26 56 21 00-0164 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	739.65	199.34
26 56 21 00-0165 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	750.90	203.10
26 56 21 00-0166 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	765.87	206.86

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0167 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	782.39	195.58
26 56 21 00-0168 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	793.64	199.34
26 56 21 00-0169 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	804.89	203.10
26 56 21 00-0170 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	835.69	206.86
26 56 21 00-0171 Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0152)</small>		
26 56 21 00-0172 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0171)</small> Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0173 EA 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	1,082.60	127.87
26 56 21 00-0174 EA 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	1,115.09	135.40
26 56 21 00-0175 EA 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	1,147.59	142.92

END OF SECTION 26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

27 05 26 00-0001	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar	182.61	37.00
27 05 26 00-0002	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar	328.26	37.00
27 05 26 00-0003	EA	#6 AWG, Cable Runway Ground Strap	64.77	6.85
27 05 26 00-0004	EA	1/4" Screw Size, #6 AWG Compression Lug	25.06	6.85
27 05 26 00-0005	EA	3/8" Screw Size, #6 AWG Compression Lug	26.46	6.85
27 05 26 00-0006	EA	Two Mounting Hole, Ground Terminal Block	29.05	6.85
27 05 26 00-0007	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	926.68	140.04
		Note: Excludes terminations.		
27 05 26 00-0008	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,197.15	186.77
		Note: Excludes terminations.		
27 05 26 00-0009	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	1,881.17	280.08
		Note: Excludes terminations.		
27 05 26 00-0010	EA	Lucent 3B1-EW, Gas Tube Protector Unit	11.22	2.06

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	9.67	3.42
		<i>For >50 To 100, Deduct</i>	-0.41	
		<i>For >100 To 250, Deduct</i>	-0.83	
		<i>For >250 To 500, Deduct</i>	-1.58	
		<i>For >500, Deduct</i>	-2.34	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
		<i>For Work In Restricted Working Space, Add</i>	2.06	
		<i>For Painted Powder Coated Finish, Add</i>	0.57	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	10.11	3.42
		<i>For >50 To 100, Deduct</i>	-0.42	
		<i>For >100 To 250, Deduct</i>	-0.85	
		<i>For >250 To 500, Deduct</i>	-1.61	
		<i>For >500, Deduct</i>	-2.38	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
		<i>For Work In Restricted Working Space, Add</i>	2.06	
		<i>For Painted Powder Coated Finish, Add</i>	2.01	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	7.16	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	10.79	3.42
		<i>For >50 To 100, Deduct</i>	-0.44	
		<i>For >100 To 250, Deduct</i>	-0.88	
		<i>For >250 To 500, Deduct</i>	-1.67	
		<i>For >500, Deduct</i>	-2.45	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
		<i>For Work In Restricted Working Space, Add</i>	2.06	
		<i>For Painted Powder Coated Finish, Add</i>	2.47	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	8.90	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	16.65	3.42
		<i>For >50 To 100, Deduct</i>	-0.59	
		<i>For >100 To 250, Deduct</i>	-1.18	
		<i>For >250 To 500, Deduct</i>	-2.11	
		<i>For >500, Deduct</i>	-3.04	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
		<i>For Work In Restricted Working Space, Add</i>	2.06	
		<i>For Painted Powder Coated Finish, Add</i>	1.32	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	7.89	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0008	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	10.70	3.42
		<i>For >50 To 100, Deduct</i>	-0.44	
		<i>For >100 To 250, Deduct</i>	-0.88	
		<i>For >250 To 500, Deduct</i>	-1.66	
		<i>For >500, Deduct</i>	-2.44	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
		<i>For Work In Restricted Working Space, Add</i>	2.06	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0009	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	13.34	3.42
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-1.01	
			<i>For >250 To 500, Deduct</i>	-1.86	
			<i>For >500, Deduct</i>	-2.70	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0010	EA		2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	14.62	3.42
			<i>For >50 To 100, Deduct</i>	-0.54	
			<i>For >100 To 250, Deduct</i>	-1.07	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.83	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0011	EA		4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	19.22	3.42
			<i>For >50 To 100, Deduct</i>	-0.65	
			<i>For >100 To 250, Deduct</i>	-1.30	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-3.29	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0012			Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
			Note: Excludes strut.		
27 05 29 00-0013	EA		3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4)	11.19	3.42
			<i>For >50 To 100, Deduct</i>	-0.45	
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.49	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0014	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4)	12.95	3.42
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.67	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0015	EA		2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	13.86	3.42
			<i>For >50 To 100, Deduct</i>	-0.52	
			<i>For >100 To 250, Deduct</i>	-1.04	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.76	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0016	EA		4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	18.21	3.42
			<i>For >50 To 100, Deduct</i>	-0.63	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-3.19	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0017			T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
			Note: Excludes T-Bar.		
27 05 29 00-0018	EA		3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28)	13.12	3.42
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.84	
			<i>For >500, Deduct</i>	-2.68	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0019	EA		1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28)	16.09	3.42
			<i>For >50 To 100, Deduct</i>	-0.57	
			<i>For >100 To 250, Deduct</i>	-1.15	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.98	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0020	EA		2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28)	16.87	3.42
			<i>For >50 To 100, Deduct</i>	-0.59	
			<i>For >100 To 250, Deduct</i>	-1.19	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-3.06	
			<i>For Work In Restricted Working Space, Add</i>	2.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0021			Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small> Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
27 05 29 00-0022	EA		3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	10.96	3.42
			<i>For >50 To 100, Deduct</i>	-0.45	
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.68	
			<i>For >500, Deduct</i>	-2.47	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0023	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	11.36	3.42
			<i>For >50 To 100, Deduct</i>	-0.46	
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.71	
			<i>For >500, Deduct</i>	-2.51	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0024	EA		2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	13.42	3.42
			<i>For >50 To 100, Deduct</i>	-0.51	
			<i>For >100 To 250, Deduct</i>	-1.01	
			<i>For >250 To 500, Deduct</i>	-1.86	
			<i>For >500, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0025			Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small> Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	13.19	3.42
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.69	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0027	EA		2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	14.15	3.42
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-1.92	
			<i>For >500, Deduct</i>	-2.79	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0028	EA		4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	18.95	3.42
			<i>For >50 To 100, Deduct</i>	-0.65	
			<i>For >100 To 250, Deduct</i>	-1.29	
			<i>For >250 To 500, Deduct</i>	-2.28	
			<i>For >500, Deduct</i>	-3.27	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0029			Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
27 05 29 00-0030	EA		3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	13.05	3.42
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.84	
			<i>For >500, Deduct</i>	-2.68	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0031	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	14.77	3.42
			<i>For >50 To 100, Deduct</i>	-0.54	
			<i>For >100 To 250, Deduct</i>	-1.08	
			<i>For >250 To 500, Deduct</i>	-1.96	
			<i>For >500, Deduct</i>	-2.85	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0032	EA		2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	15.69	3.42
			<i>For >50 To 100, Deduct</i>	-0.56	
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500, Deduct</i>	-2.94	
			<i>For Work In Restricted Working Space, Add</i>	2.06	
27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	20.69	3.42
			<i>For >50 To 100, Deduct</i>	-0.69	
			<i>For >100 To 250, Deduct</i>	-1.38	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-3.44	
			<i>For Work In Restricted Working Space, Add</i>	2.06	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0034			Adjustable Cable Supports (Caddy® CableCat CAT425) ^(27 05 29)		
27 05 29 00-0035	EA		Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	35.72	4.52
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-4.39	
			<i>For >500, Deduct</i>	-6.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	3.52	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 29 00-0036	EA		Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	36.36	4.52
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100 To 250, Deduct</i>	-2.50	
			<i>For >250 To 500, Deduct</i>	-4.44	
			<i>For >500, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 29 00-0037	EA		Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	39.71	4.52
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100 To 250, Deduct</i>	-2.67	
			<i>For >250 To 500, Deduct</i>	-4.69	
			<i>For >500, Deduct</i>	-6.71	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 29 00-0038	EA		>1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	35.61	4.52
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-4.38	
			<i>For >500, Deduct</i>	-6.30	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 29 00-0039	EA		Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	37.16	4.52
			<i>For >50 To 100, Deduct</i>	-1.27	
			<i>For >100 To 250, Deduct</i>	-2.54	
			<i>For >250 To 500, Deduct</i>	-4.50	
			<i>For >500, Deduct</i>	-6.45	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 29 00-0040	EA		>1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	38.70	4.52
			<i>For >50 To 100, Deduct</i>	-1.31	
			<i>For >100 To 250, Deduct</i>	-2.62	
			<i>For >250 To 500, Deduct</i>	-4.61	
			<i>For >500, Deduct</i>	-6.61	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 29 00-0041	EA		Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	36.64	4.52
			<i>For >50 To 100, Deduct</i>	-1.26	
			<i>For >100 To 250, Deduct</i>	-2.52	
			<i>For >250 To 500, Deduct</i>	-4.46	
			<i>For >500, Deduct</i>	-6.40	
			<i>For Work In Restricted Working Space, Add</i>	4.11	
27 05 33			Conduits and Backboxes for Communications Systems ^(27 05)		
			See CSI section 26 05 33 00-0000 for conduit and boxes.		
27 05 36			Cable Trays for Communications Systems ^(27 05)		
			See CSI section 26 05 36 00-0000 for cable trays.		
27 05 39			Surface Raceways for Communications Systems ^(27 05)		
			See CSI section 26 05 33 00-0000 for surface raceways.		
27 05 43			Underground Ducts and Raceways for Communications Systems ^(27 05)		
			See CSI section 26 05 43 00-0000 for underground ducts and raceways.		
27 05 46			Utility Poles for Communications Systems ^(27 05)		
			See CSI section 26 05 46 00-0000 for utility poles.		
27 05 53			Identification for Communications Systems ^(27 05)		
			See CSI section 26 05 53 00-0000 for identification.		
27 10			Structured Cabling ⁽²⁷⁾		
			Note: Includes testing.		
27 11			Communications Equipment Room Fittings ^(27 10)		
27 11 16			Communications Cabinets, Racks, Frames, and Enclosures ^(27 11)		
27 11 16 00-0001			3/4" Fire Retardant Plywood Backboards ^(27 11 16)		
27 11 16 00-0002	EA		4' x 4' x 3/4" Fire Retardant Plywood Backboard	120.30	35.58
			<i>For Two Coats Of Non-Conductive, Fire Retardant Paint, Add</i>	51.43	
27 11 16 00-0003	EA		4' x 8' x 3/4" Fire Retardant Plywood Backboard	240.62	71.15
			<i>For Two Coats Of Non-Conductive, Fire Retardant Paint, Add</i>	102.85	



Communications	27
Structured Cabling	27 10
Communications Equipment Room Fittings	27 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0004 Terminal Cabinets <small>(27 11 16)</small>		
27 11 16 00-0005 EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	368.59	102.62
27 11 16 00-0006 EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	459.12	112.88
27 11 16 00-0007 EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	528.34	129.98
27 11 16 00-0008 EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	548.01	133.40
27 11 16 00-0009 EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	659.90	136.83
27 11 16 00-0010 EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard	810.95	153.93
27 11 16 00-0011 EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	827.41	150.50
27 11 16 00-0012 EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,070.89	214.41
27 11 16 00-0013 EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,148.03	235.61
27 11 16 00-0014 EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,373.10	248.89
27 11 16 00-0015 EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,133.92	205.24
27 11 16 00-0016 EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,226.47	222.35
27 11 16 00-0017 EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,532.13	285.01
27 11 16 00-0018 EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,845.20	356.30
27 11 16 00-0019 EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,072.32	352.33
27 11 16 00-0020 EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,389.60	428.68
27 11 16 00-0021 Equipment Racks And Cable Managers <small>(27 11 16)</small>		
27 11 16 00-0022 Equipment Racks <small>(27 11 16 00-0021)</small>		
Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
27 11 16 00-0023 Standard Equipment Racks <small>(27 11 16 00-0022)</small>		
27 11 16 00-0024 19" Width, Standard Equipment Racks <small>(27 11 16 00-0023)</small>		
27 11 16 00-0025 EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03)	624.12	218.92
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	9.31	
27 11 16 00-0026 EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15)	832.79	232.61
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	18.38	
27 11 16 00-0027 EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08)	897.28	246.29
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	20.24	
27 11 16 00-0028 Universal Equipment Racks <small>(27 11 16 00-0022)</small>		
27 11 16 00-0029 Universal Equipment Racks <small>(27 11 16 00-0028)</small>		
27 11 16 00-0030 19" Width, EIA Universal Equipment Racks <small>(27 11 16 00-0029)</small>		
27 11 16 00-0031 EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31)	768.32	191.56
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	19.26	
27 11 16 00-0032 EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20)	832.87	194.98
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	22.15	
27 11 16 00-0033 EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19)	833.51	198.40
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	21.84	
27 11 16 00-0034 EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00)	854.13	201.82
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	22.52	
27 11 16 00-0035 EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01)	874.55	205.24
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	23.20	
27 11 16 00-0036 EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02)	896.52	208.66
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	23.96	
27 11 16 00-0037 EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03)	779.90	212.09
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	17.79	
27 11 16 00-0038 EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05)	939.31	215.50
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	25.42	
27 11 16 00-0039 EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15)	970.60	218.92
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	26.64	
27 11 16 00-0040 EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17)	998.11	222.35
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	27.67	
27 11 16 00-0041 EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08)	1,005.99	225.76
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	27.72	
27 11 16 00-0042 23" Width, Universal Equipment Racks <small>(27 11 16 00-0029)</small>		
27 11 16 00-0043 EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31)	807.85	191.56
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	21.24	
27 11 16 00-0044 EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20)	834.33	194.98
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	22.22	
27 11 16 00-0045 EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19)	857.85	198.40
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	23.05	
27 11 16 00-0046 EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00)	900.43	201.82
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	24.84	
27 11 16 00-0047 EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01)	922.21	205.24
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	25.59	
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02)	945.76	208.66
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	26.42	
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03)	829.70	212.09
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	20.28	
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05)	991.57	215.50
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>		
	28.03	

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15).....	1,025.33	218.92
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.37	
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17).....	1,055.01	222.35
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.52	
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08).....	1,062.97	225.76
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.57	
27 11 16 00-0054 35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01).....	989.21	205.24
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.94	
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03).....	1,039.82	212.09
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.78	
27 11 16 00-0057 UL Listed Universal Equipment Racks (27 11 16 00-0028)		
Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31)	806.85	191.56
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	21.19	
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20)	866.59	194.98
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.83	
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19)	880.07	198.40
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.16	
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00)	899.22	201.82
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.78	
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01)	920.94	205.24
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	25.52	
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02)	944.44	208.66
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.36	
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03)	967.06	212.09
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.15	
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05)	990.17	215.50
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.96	
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15)	1,023.89	218.92
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.30	
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17)	1,053.50	222.35
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.44	
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08)	1,061.39	225.76
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.49	
27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31)	850.37	191.56
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.36	
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20)	925.60	194.98
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.78	
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19)	937.84	198.40
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.05	
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00)	950.10	201.82
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.32	
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01)	973.37	205.24
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.14	
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02)	998.61	208.66
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.06	
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03)	1,022.83	212.09
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.93	
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05)	1,047.60	215.50
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.83	
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15)	1,084.06	218.92
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	32.31	
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17)	1,116.04	222.35
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	33.57	
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08)	1,124.21	225.76
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	33.63	
27 11 16 00-0082 4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083 4-Post Equipment Racks (27 11 16 00-0082)		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03).....	1,609.86	342.07
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	46.29	
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15).....	1,749.57	355.75
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	51.90	
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08).....	1,881.71	369.43
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	57.14	
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03)	1,650.58	342.07
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	48.32	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 11 16 00-0089		Cable Managers <small>(27 11 16 00-0021)</small>		
27 11 16 00-0090		Horizontal Cable Managers <small>(27 11 16 00-0089)</small>		
27 11 16 00-0091		Single-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>		
27 11 16 00-0092	EA	1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	90.36	13.69
27 11 16 00-0093	EA	1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	99.92	13.69
27 11 16 00-0094	EA	1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	76.46	13.69
27 11 16 00-0095	EA	2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	91.80	13.69
27 11 16 00-0096	EA	2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	106.59	13.69
27 11 16 00-0097	EA	2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	84.02	13.69
27 11 16 00-0098	EA	3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	121.60	13.69
27 11 16 00-0099	EA	3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	137.57	13.69
27 11 16 00-0100	EA	3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	99.13	13.69
27 11 16 00-0101		Double-Sided, Horizontal Cable Managers <small>(27 11 16 00-0091)</small>		
27 11 16 00-0102	EA	1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	110.73	13.69
27 11 16 00-0103	EA	1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	123.32	13.69
27 11 16 00-0104	EA	2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	116.18	13.69
27 11 16 00-0105	EA	2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	134.22	13.69
27 11 16 00-0106	EA	3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	148.52	13.69
27 11 16 00-0107	EA	3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	165.57	13.69
27 11 16 00-0108		Vertical Cable Managers <small>(27 11 16 00-0089)</small>		
27 11 16 00-0109		Single-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0110	EA	3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	197.81	20.52
27 11 16 00-0111	EA	6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	275.24	20.52
27 11 16 00-0112	EA	10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	437.66	20.52
27 11 16 00-0113	EA	12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	494.32	20.52
27 11 16 00-0114	EA	3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	211.03	20.52
27 11 16 00-0115	EA	6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	296.02	20.52
27 11 16 00-0116	EA	10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	475.44	20.52
27 11 16 00-0117	EA	12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	532.09	20.52
27 11 16 00-0118	EA	3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	237.47	20.52
27 11 16 00-0119	EA	6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	324.34	20.52
27 11 16 00-0120	EA	10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	532.09	20.52
27 11 16 00-0121	EA	12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	588.75	20.52
27 11 16 00-0122		Double-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0123	EA	3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	282.79	20.52
27 11 16 00-0124	EA	6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	331.90	20.52
27 11 16 00-0125	EA	10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	532.09	20.52
27 11 16 00-0126	EA	12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	626.53	20.52
27 11 16 00-0127	EA	3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	305.46	20.52
27 11 16 00-0128	EA	6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	354.56	20.52
27 11 16 00-0129	EA	10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	569.87	20.52
27 11 16 00-0130	EA	12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	664.30	20.52
27 11 16 00-0131	EA	3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	335.68	20.52
27 11 16 00-0132	EA	6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	384.78	20.52
27 11 16 00-0133	EA	10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	626.53	20.52
27 11 16 00-0134	EA	12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	720.96	20.52
27 11 16 00-0135		Accessories For Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0136	EA	Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	121.79	13.69
27 11 16 00-0137	EA	Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	129.35	13.69
27 11 16 00-0138	EA	Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	136.90	13.69
27 11 16 00-0139	EA	Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	125.57	13.69
27 11 16 00-0140	EA	Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	136.90	13.69
27 11 16 00-0141	EA	Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	148.23	13.69
27 11 16 00-0142	EA	Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	140.68	13.69
27 11 16 00-0143	EA	Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	152.01	13.69
27 11 16 00-0144	EA	Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	163.34	13.69
27 11 16 00-0145	EA	Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	148.23	13.69
27 11 16 00-0146	EA	Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	163.34	13.69
27 11 16 00-0147	EA	Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	174.67	13.69
27 11 16 00-0148	EA	Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	102.91	13.69
27 11 16 00-0149	EA	Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	118.01	13.69
27 11 16 00-0150	EA	Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	123.11	13.69
27 11 16 00-0151	EA	Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	80.24	13.69

27 11 19 Communications Termination Blocks and Patch Panels (27 11)

Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.

27 11 19 00-0001 Computer Network Components (27 11 19)

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 00-0002	Ethernet Patch Panels (27 11 19 00-0001)		
27 11 19 00-0003	EA 12 Port, Category 5E Patch Panel	282.11	68.41
27 11 19 00-0004	EA 24 Port, Category 5E Patch Panel	406.06	68.41
27 11 19 00-0005	EA 32 Port, Category 5E Patch Panel	523.35	68.41
27 11 19 00-0006	EA 48 Port, Category 5E Patch Panel	632.64	68.41
27 11 19 00-0007	EA 64 Port, Category 5E Patch Panel	812.10	85.52
27 11 19 00-0008	EA 96 Port, Category 5E Patch Panel	1,159.54	102.62
27 11 19 00-0009	EA 12 Port, Category 6 Patch Panel.....	342.09	68.41
27 11 19 00-0010	EA 24 Port, Category 6 Patch Panel.....	414.06	68.41
27 11 19 00-0011	EA 48 Port, Category 6 Patch Panel.....	691.29	68.41
27 11 19 00-0012	EA 96 Port, Category 6 Patch Panel.....	1,271.50	102.62
27 11 19 00-0013	EA 16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	676.40	102.62
27 11 19 00-0014	EA 16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	715.84	102.62
27 11 19 00-0015	EA 12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-LeGrand OR-PMP61289).....	294.08	68.41
27 11 19 00-0016	EA Terminate One End Of A 4 Pair Cable To Category "X" Specifications	48.48	
	<i>For >5 To 10 Cables, Deduct</i>	-8.73	
	<i>For >10 Cables, Deduct</i>	-19.39	
27 11 19 00-0017	EA Terminate One End Of A Twisted Pair Of Wires.....	13.33	
	Note: Per each pair		
	<i>For >20 To 40 Pairs, Deduct</i>	-2.13	
	<i>For >40 Pairs, Deduct</i>	-5.07	
27 11 19 00-0018	Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)		
27 11 19 00-0019	Fiber Optic Cable Connector Housings (27 11 19 00-0018)		
27 11 19 00-0020	Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
	Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0021	EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	150.63	30.79
27 11 19 00-0022	EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	219.95	30.79
27 11 19 00-0023	EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	322.50	30.79
27 11 19 00-0024	EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	477.76	51.31
27 11 19 00-0025	EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	660.34	51.31
27 11 19 00-0026	Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
	Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0027	EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	496.47	51.31
27 11 19 00-0028	EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	566.09	51.31
27 11 19 00-0029	EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	608.67	51.31
27 11 19 00-0030	EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	711.56	51.31
27 11 19 00-0031	Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)		
	Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0032	EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	615.78	51.31
	<i>For Splice Tray Bracket, Add</i>	64.40	
27 11 19 00-0033	EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	719.33	51.31
	<i>For Splice Tray Bracket, Add</i>	70.43	
27 11 19 00-0034	EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	893.85	51.31
	<i>For Splice Tray Bracket, Add</i>	256.58	
27 11 19 00-0035	Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)		
	Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0036	EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	778.24	51.31
27 11 19 00-0037	EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	991.76	51.31
27 11 19 00-0038	EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,121.19	51.31
27 11 19 00-0039	EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,451.29	51.31
27 11 19 00-0040	Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)		
	Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0041	EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	691.37	30.79
27 11 19 00-0042	EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	958.38	51.31
27 11 19 00-0043	EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	1,005.13	51.31
27 11 19 00-0044	Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019)		
	Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0045	EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	723.68	30.79
27 11 19 00-0046	EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	957.81	51.31
27 11 19 00-0047	EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	1,123.21	51.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0048 Fiber Optic Cable Connector Panels <small>(27 11 19 00-0018)</small>		
27 11 19 00-0049 SC Simplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	95.77	6.84
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	103.79	6.84
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	116.25	6.84
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	126.94	6.84
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	157.24	6.84
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	173.24	6.84
27 11 19 00-0056 SC Duplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	92.22	6.84
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	94.10	6.84
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	111.55	6.84
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	114.05	6.84
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	150.18	6.84
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	153.91	6.84
27 11 19 00-0063 LC Duplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	99.46	6.84
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	108.91	6.84
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	121.16	6.84
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	133.78	6.84
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	164.63	6.84
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	183.51	6.84
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	208.07	6.84
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	233.25	6.84
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	294.94	6.84
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	303.71	6.84
27 11 19 00-0074 ST Simplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	79.88	6.84
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	85.95	6.84
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	95.07	6.84
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	103.17	6.84
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	125.44	6.84
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	137.60	6.84
27 11 19 00-0081 MT-RJ, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	98.89	6.84
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel.....	147.16	6.84
27 11 19 00-0084 Fiber Optic Cable Pretium Edge® Modules <small>(27 11 19 00-0048)</small>		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	839.10	6.84
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	842.01	6.84
27 11 19 00-0087 Fiber Optic Cable Splice Housings <small>(27 11 19 00-0018)</small>		
27 11 19 00-0088 Wall Mount, Fiber Optic Cable Splice Housings <small>(27 11 19 00-0087)</small>		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	351.86	68.41
27 11 19 00-0090 Rack Mount, Fiber Optic Cable Splice Housings <small>(27 11 19 00-0087)</small>		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	514.55	51.31
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	522.09	51.31
27 11 19 00-0093 Fiber Optic Cable Splice Trays <small>(27 11 19 00-0087)</small>		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray.....	100.01	17.10
27 11 19 00-0095 Fiber Optic Cable Jumper Management Panels <small>(27 11 19 00-0018)</small>		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel.....	198.76	51.31
27 11 19 00-0097 Miscellaneous Accessories <small>(27 11 19 00-0001)</small>		
27 11 19 00-0098 EA Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	73.21	
27 11 19 00-0099 EA Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	96.96	
27 11 19 00-0100 EA Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	106.24	
27 11 19 00-0101 EA Wall Mount Bracket For 96 Port Patch Panel.....	118.55	
27 11 19 00-0102 EA Lightning Protection Plus Stainless Steel Modules, Siemon.....	463.64	68.41

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0103			Telephone Components <small>(27 11 19)</small>		
27 11 19 00-0104			Terminal Blocks With Wide Range Of 22-8 AWG <small>(27 11 19 00-0103)</small>		
27 11 19 00-0105	EA		Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	37.17	13.71
27 11 19 00-0106	EA		Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	63.99	13.71
27 11 19 00-0107	EA		Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	53.02	13.71
27 11 19 00-0108	EA		Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	29.81	13.71
27 11 19 00-0109	EA		Flat Terminal Block Connection With Wire Range 22-8 AWG.....	21.23	9.59
27 11 19 00-0110	EA		Ground Terminal Block With Wire Range 22-8 AWG.....	38.34	13.71
27 11 19 00-0111	EA		Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG.....	29.81	13.71
27 11 19 00-0112	EA		Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG.....	21.06	9.59
27 11 19 00-0113	EA		Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG.....	20.94	9.59
27 11 19 00-0114	EA		Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG.....	21.48	9.59
27 11 19 00-0115			Terminal Block Mounting Channel <small>(27 11 19 00-0103)</small>		
27 11 19 00-0116	EA		Terminal Block Mounting Channel, .5 M Galvanized Steel.....	19.43	6.85
27 11 19 00-0117	EA		Terminal Block Mounting Channel, 1 M Galvanized Steel.....	24.12	6.85
27 11 19 00-0118	EA		Terminal Block Mounting Channel, 2 M Galvanized Steel.....	32.26	6.85
27 11 19 00-0119	EA		Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	24.36	8.22
27 11 19 00-0120	EA		Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	32.10	8.22
27 11 19 00-0121	EA		Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	44.63	8.22
27 11 19 00-0122			Outlet Termination Hardware <small>(27 11 19 00-0103)</small>		
27 11 19 00-0123	EA		Telephone Outlet Blocks.....	33.96	6.85
27 11 19 00-0124	EA		Phone Outlet Block For Floor Box.....	112.41	51.99
			Note: Excludes box.		
27 11 19 00-0125	EA		Fiber Optic "SC" Type Modular Bulkhead.....	90.64	30.79
27 11 19 00-0126	EA		Fiber Optic "ST" Type Modular Bulkhead.....	90.64	30.79
27 11 19 00-0127	EA		Type "F" Coaxial Connector Male.....	54.37	20.52
27 11 19 00-0128	EA		Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	130.18	34.21
27 11 19 00-0129	EA		Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	130.18	34.21
27 11 19 00-0130	EA		Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	153.20	34.21
27 11 19 00-0131	EA		Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	153.20	34.21
27 11 19 00-0132	EA		Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	141.08	34.21
27 11 19 00-0133	EA		Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	1,156.02	171.03
27 11 19 00-0134	EA		Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	62.11	13.69
			Note: Excludes cable terminations.		
27 11 19 00-0135	EA		5-Pair, Connecting Block.....	3.88	1.37
27 11 19 00-0136	EA		4-Pair, Connecting Block.....	4.14	1.37
27 11 19 00-0137	EA		Plastic Label Holder, Transparent.....	15.92	3.42
27 11 19 00-0138	EA		Marked Label, White, 5-Pair.....	4.49	
27 11 19 00-0139	EA		Marked Label, Blue, 4-Pair.....	4.49	
27 11 19 00-0140			Terminations in Manhole or Junction Box <small>(27 11 19 00-0103)</small>		
27 11 19 00-0141	EA		25 Pair Cable Termination In Manhole Or Junction Box.....	218.92	
27 11 19 00-0142	EA		50 Pair Cable Termination In Manhole Or Junction Box.....	437.85	
27 11 19 00-0143	EA		100 Pair Cable Termination In Manhole Or Junction Box.....	875.69	
27 11 19 00-0144	EA		150 Pair Cable Termination In Manhole Or Junction Box.....	1,313.53	
27 11 19 00-0145	EA		200 Pair Cable Termination In Manhole Or Junction Box.....	1,536.57	
27 11 19 00-0146	EA		300 Pair Cable Termination In Manhole Or Junction Box.....	2,304.16	
27 11 19 00-0147	EA		400 Pair Cable Termination In Manhole Or Junction Box.....	2,897.99	
27 11 19 00-0148	EA		500 Pair Cable Termination In Manhole Or Junction Box.....	3,623.17	
27 11 19 00-0149	EA		750 Pair Cable Termination In Manhole Or Junction Box.....	5,434.73	
27 11 19 00-0150	EA		1,000 Pair Cable Termination In Manhole Or Junction Box.....	6,590.90	
27 11 19 00-0151	EA		1,200 Pair Cable Termination In Manhole Or Junction Box.....	7,511.86	
27 11 23			Communications Cable Management and Ladder Rack <small>(27 11)</small>		
27 11 23 00-0001			Equipment Supports <small>(27 11 23)</small>		
27 11 23 00-0002	EA		110 Jumper Trough (Commscope 107831133).....	39.07	6.84
27 11 23 00-0003	LF		Velcro CMP.....	3.22	1.37
27 11 23 00-0004	EA		12" x 5'-11" Tubular Runway.....	117.50	32.83
27 11 23 00-0005	EA		12" x 9'-11" Tubular Runway.....	202.81	54.73
27 11 23 00-0006	EA		Shelf Bracket Support For Tubular Runway.....	37.35	10.26
27 11 23 00-0007	EA		Straight Clamp Hardware For Tubular Runway.....	17.17	6.84
27 11 23 00-0008	EA		Corner Clamp Hardware For Tubular Runway.....	18.03	6.84
27 11 23 00-0009	EA		90 Degree Edge Clamp Hardware For Tubular Runway.....	39.73	12.31
27 11 23 00-0010	EA		Wall Angle Assembly Hardware For 12" Wide Tubular Runway.....	81.84	20.52
27 11 23 00-0011	EA		J-Bolt Hardware For Tubular Runway.....	7.92	3.01
27 11 23 00-0012	EA		T Bracket Hardware For Tubular Runway.....	43.53	17.10
27 13			Communications Backbone Cabling <small>(27 10)</small>		
27 13 13			Communications Copper Backbone Cabling <small>(27 13)</small>		



Communications	27	27
Structured Cabling	27 10	
Communications Backbone Cabling	27 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 13 13 Communications Copper Cable Splicing and Terminations (27 13 13)		
27 13 13 13-0001 Modular Plugs For Copper Communications Cable (27 13 13 13)		
27 13 13 13-0002 EA Modular Plug For Non-Shielded Copper Communications Cable.....	31.35	
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
<i>For >5 To 10, Deduct</i>		
	-4.10	
<i>For >10, Deduct</i>		
	-8.19	
27 13 13 13-0003 EA Modular Plug For Shielded Copper Communications Cable.....	35.62	
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
<i>For >5 To 10, Deduct</i>		
	-4.61	
<i>For >10, Deduct</i>		
	-9.22	
27 13 13 13-0004 Communications Termination Blocks (27 13 13 13)		
27 13 13 13-0005 EA 100-Pair, 110 Block With Legs.....	59.21	17.10
27 13 13 13-0006 EA 300-Pair, 110 Block With Legs.....	95.58	17.10
27 13 13 13-0007 EA Clear Label Holder For 110 Wiring Block.....	14.40	6.84
27 13 13 13-0008 EA 4-Pair, 110C Connecting Block.....	7.94	3.42
27 13 13 13-0009 EA 5-Pair, 110C Connecting Block.....	8.07	3.42
27 13 13 13-0010 EA 100-Pair, 110 Jack Panel System.....	291.61	20.52
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0011 EA 300-Pair, 110 Jack Panel System.....	677.69	20.52
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0012 Testing And Certification Of Copper Communications Cable (27 13 13 13)		
Note: Use for existing systems.		
27 13 13 13-0013 EA Test 1-Pair Of A Copper Communications Cable For Continuity	6.84	
<i>For >25-Pair, Deduct</i>		
	-2.73	
27 13 13 13-0014 EA Certify 1-Pair Of A Copper Communications Cable.....	10.26	
<i>For >25-Pair, Deduct</i>		
	-4.10	
27 13 13 13-0015 EA Certify And Document 1-Pair Of A Copper Communications Cable	16.42	
<i>For >25-Pair, Deduct</i>		
	-6.56	
27 13 13 13-0016 EA Test 4-Pair Category 5-7 Telecommunications Cable For Continuity	27.36	
<i>For >25-Pair, Deduct</i>		
	-10.92	
27 13 13 13-0017 EA Certify 4-Pair Category 5-7 Telecommunications Cable	41.05	
<i>For >25-Pair, Deduct</i>		
	-16.39	
27 13 13 13-0018 EA Certify And Document 4-Pair Category 5-7 Telecommunications Cable	65.68	
<i>For >25-Pair, Deduct</i>		
	-26.22	
27 13 13 13-0019 Building Entrance Terminals (27 13 13 13)		
27 13 13 13-0020 EA 25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,831.54	300.03
27 13 13 13-0021 EA 50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,557.81	500.06
27 13 13 13-0022 EA 100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,734.61	800.72
27 13 23 Communications Optical Fiber Backbone Cabling (27 13)		
27 13 23 13 Communications Optical Fiber Splicing and Terminations (27 13 23)		
27 13 23 13-0001 Fiber Optic Cable Splice Closures (27 13 23 13)		
Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0002 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	865.85	136.83
27 13 23 13-0003 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure	1,139.50	273.66
27 13 23 13-0004 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,139.50	273.66
27 13 23 13-0005 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure	1,401.68	136.83
27 13 23 13-0006 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure	1,675.33	273.66
27 13 23 13-0007 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,675.33	273.66
27 13 23 13-0008 EA Splice Tray For Fiber Optic Cable Splice Closure.....	64.06	17.10
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 13 23 13-0009 Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0010 EA Single Strand, Fusion Splice Of Fiber Optic Cable	41.05	
27 13 23 13-0011 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	136.83	
27 13 23 13-0012 Fiber Optic Cable Testing (27 13 23 13)		
Note: Price based on testing one wavelength.		
27 13 23 13-0013 Fiber Optic Cable Testing Using An OTDR (27 13 23 13-0012)		
Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0014 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test	27.36	
<i>For >12 To 48 Strands, Deduct</i>		
	-2.05	
<i>For >48 Strands, Deduct</i>		
	-2.74	
27 13 23 13-0015 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test	41.05	
<i>For >12 To 48 Strands, Deduct</i>		
	-3.08	
<i>For >48 Strands, Deduct</i>		
	-4.11	
27 13 23 13-0016 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation	68.41	
<i>For >12 To 48 Strands, Deduct</i>		
	-5.13	
<i>For >48 Strands, Deduct</i>		
	-6.84	

27	Communications
27 10	Structured Cabling
27 13	Communications Backbone Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0017 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation <i>For >12 To 48 Strands, Deduct</i> <i>For >48 Strands, Deduct</i>	102.62 -7.70 -10.26	
27 13 23 13-0018 Fiber Optic Cable Testing Using A Power Meter (27 13 23 13-0012)		
27 13 23 13-0019 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test <i>For >12 To 48 Strands, Deduct</i> <i>For >48 Strands, Deduct</i>	27.36 -2.05 -2.74	
27 13 23 13-0020 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test <i>For >12 To 48 Strands, Deduct</i> <i>For >48 Strands, Deduct</i>	41.05 -3.08 -4.11	
27 13 23 13-0021 Fiber Optic Cable Light Source/Continuity Testing (27 13 23 13-0012)		
27 13 23 13-0022 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test <i>For >12 To 48 Strands, Deduct</i> <i>For >48 Strands, Deduct</i>	27.36 -2.05 -2.74	
27 13 23 13-0023 Other Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0024 EA Fiber Optic Finger Splice	44.51	25.72
27 13 23 13-0025 EA Fiber Optic Splice Box - Manholes.....	5,896.37	
27 13 23 13-0026 Fiber Optic Cable Fan Out Kits (27 13 23 13)		
27 13 23 13-0027 Buffer Tube Fan Out Kits For Fiber Optic Cable (27 13 23 13-0026)		
27 13 23 13-0028 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	289.45	
27 13 23 13-0029 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	292.47	
27 13 23 13-0030 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	317.94	
27 13 23 13-0031 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	337.05	
27 13 23 13-0032 Spider Fan Out Kits For Fiber Optic Cable (27 13 23 13-0026)		
Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 13 23 13-0033 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	326.61	
27 13 23 13-0034 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	346.86	
27 13 23 13-0035 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	510.15	
27 13 23 13-0036 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	667.22	
27 15 Communications Horizontal Cabling (27 10)		
27 15 01 Communications Horizontal Cabling Applications (27 15)		
27 15 01 13 Video Surveillance Communications Conductors and Cables (27 15 01)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.		
27 15 01 15 Access Control Communications Conductors and Cables (27 15 01)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.		
27 15 01 16 Voice Communications Horizontal Cabling (27 15 01)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.		
27 15 01 17 Intrusion Detection Communications Conductors and Cables (27 15 01)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables, 27 15 01 19-0000 for Type FPLP Cable.		
27 15 01 19 Fire Alarm Communications Conductors and Cables (27 15 01)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 01 19-0001 Fire Alarm/Life Safety Cable (27 15 01 19)		
27 15 01 19-0002 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable (27 15 01 19-0001)		
27 15 01 19-0003 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit (27 15 01 19-0002)		
27 15 01 19-0004 MLF 1-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,069.25	930.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0005 MLF 2-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,468.58	964.63
27 15 01 19-0006 MLF 1-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,358.18	1,058.22
27 15 01 19-0007 MLF 2-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,988.30	1,095.99
27 15 01 19-0008 MLF 1-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,696.65	1,184.65
27 15 01 19-0009 MLF 2-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,589.63	1,227.33
27 15 01 19-0010 MLF 1-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,388.31	1,354.58
27 15 01 19-0011 MLF 2-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	4,768.46	1,402.89
27 15 01 19-0012 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed <small>(27 15 01 19-0002)</small>		
27 15 01 19-0013 MLF 1-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,620.87	1,862.22
27 15 01 19-0014 MLF 2-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,076.30	1,929.26
27 15 01 19-0015 MLF 1-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,121.88	2,116.71
27 15 01 19-0016 MLF 2-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,814.94	2,191.97
27 15 01 19-0017 MLF 1-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,671.05	2,369.84
27 15 01 19-0018 MLF 2-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,635.18	2,454.68
27 15 01 19-0019 MLF 1-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,645.96	2,709.17
27 15 01 19-0020 MLF 2-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	7,106.84	2,806.33
27 15 01 19-0021 Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit <small>(27 15 01 19-0001)</small>		
27 15 01 19-0022 MLF 2 Conductors, #22 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,382.35	761.85
27 15 01 19-0023 MLF 4 Conductors, #22 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,480.70	788.94
27 15 01 19-0024 MLF 2 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,683.38	930.97
27 15 01 19-0025 MLF 3 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,777.24	947.80
27 15 01 19-0026 MLF 4 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,836.59	964.63
27 15 01 19-0027 MLF 6 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,020.28	998.28
27 15 01 19-0028 MLF 8 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,277.90	1,031.95
27 15 01 19-0029 MLF 2 Conductors, #16 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,952.64	1,058.22
27 15 01 19-0030 MLF 4 Conductors, #16 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,157.78	1,095.99
27 15 01 19-0031 MLF 2 Conductors, #14 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,245.20	1,184.65
27 15 01 19-0032 MLF 4 Conductors, #14 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,559.03	1,227.33
27 15 01 19-0033 MLF 2 Conductors, #12 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,703.06	1,354.58
27 15 01 19-0034 MLF 4 Conductors, #12 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,200.90	1,402.89
27 15 01 19-0035 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable <small>(27 15 01 19-0001)</small>		
27 15 01 19-0036 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit <small>(27 15 01 19-0035)</small>		
27 15 01 19-0037 MLF 2/c #22 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,373.49	761.85
27 15 01 19-0038 MLF 2/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,677.63	930.97
27 15 01 19-0039 MLF 3/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,832.88	947.80
27 15 01 19-0040 MLF 4/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,852.00	964.63
27 15 01 19-0041 MLF 6/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,100.68	998.28
27 15 01 19-0042 MLF 2/c #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,943.94	1,058.22

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0043 MLF 4/c #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,177.30	1,095.99
27 15 01 19-0044 MLF 2/c #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,206.04	1,184.65
27 15 01 19-0045 MLF 4/c #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,714.65	1,227.33
27 15 01 19-0046 MLF 2/c #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,690.26	1,354.58
27 15 01 19-0047 MLF 4/c #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,437.15	1,402.89
27 15 01 19-0048 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed <small>(27 15 01 19-0035)</small>		
27 15 01 19-0049 MLF 2/c #22 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	2,643.24	1,524.25
27 15 01 19-0050 MLF 2/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,229.25	1,862.22
27 15 01 19-0051 MLF 3/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,411.87	1,895.05
27 15 01 19-0052 MLF 4/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,459.72	1,929.26
27 15 01 19-0053 MLF 6 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,764.49	1,996.31
27 15 01 19-0054 MLF 2 Conductors, #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,707.64	2,116.71
27 15 01 19-0055 MLF 4/c #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,003.94	2,191.97
27 15 01 19-0056 MLF 2 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,180.44	2,369.84
27 15 01 19-0057 MLF 4 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,760.20	2,454.68
27 15 01 19-0058 MLF 2 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,947.91	2,709.17
27 15 01 19-0059 MLF 4 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	5,775.53	2,806.33
27 15 01 19-0060 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable <small>(27 15 01 19-0001)</small>		
27 15 01 19-0061 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit <small>(27 15 01 19-0060)</small>		
27 15 01 19-0062 MLF 2 Conductors, #22 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,409.97	761.85
27 15 01 19-0063 MLF 2 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,703.67	930.97
27 15 01 19-0064 MLF 3 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,929.57	947.80
27 15 01 19-0065 MLF 4 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,878.66	964.63
27 15 01 19-0066 MLF 6 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,127.94	998.28
27 15 01 19-0067 MLF 2 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,003.81	1,058.22
27 15 01 19-0068 MLF 4 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,204.99	1,095.99
27 15 01 19-0069 MLF 2 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,335.17	1,184.65
27 15 01 19-0070 MLF 4 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,649.90	1,227.33
27 15 01 19-0071 MLF 2 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,785.81	1,354.58
27 15 01 19-0072 MLF 4 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,240.57	1,402.89
27 15 01 19-0073 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed <small>(27 15 01 19-0060)</small>		
27 15 01 19-0074 MLF 2 Conductors, #22 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	2,679.72	1,524.25
27 15 01 19-0075 MLF 2 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,255.29	1,862.22
27 15 01 19-0076 MLF 3 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,508.56	1,895.05
27 15 01 19-0077 MLF 4 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,486.38	1,929.26
27 15 01 19-0078 MLF 6 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,791.75	1,996.31
27 15 01 19-0079 MLF 2/c #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,767.51	2,116.71
27 15 01 19-0080 MLF 4/c #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,031.63	2,191.97
27 15 01 19-0081 MLF 2/c #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,309.57	2,369.84



Communications	27
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0082 MLF 4 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,695.45	2,454.68
27 15 01 19-0083 MLF 2 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,043.46	2,709.17
27 15 01 19-0084 MLF 4 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,578.95	2,806.33
27 15 01 19-0085 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable <small>(27 15 01 19-0001)</small>		
27 15 01 19-0086 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit <small>(27 15 01 19-0085)</small>		
27 15 01 19-0087 MLF 2 Conductors, #22 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,378.85	761.85
27 15 01 19-0088 MLF 2 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,724.13	930.97
27 15 01 19-0089 MLF 3 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,837.74	947.80
27 15 01 19-0090 MLF 4 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,934.06	964.63
27 15 01 19-0091 MLF 6 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,143.98	998.28
27 15 01 19-0092 MLF 2 Conductors, #16 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,982.48	1,058.22
27 15 01 19-0093 MLF 4 Conductors, #16 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,266.05	1,095.99
27 15 01 19-0094 MLF 2 Conductors, #14 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,299.07	1,184.65
27 15 01 19-0095 MLF 4 Conductors, #14 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,798.29	1,227.33
27 15 01 19-0096 MLF 2 Conductors, #12 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,736.11	1,354.58
27 15 01 19-0097 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed <small>(27 15 01 19-0085)</small>		
27 15 01 19-0098 MLF 2 Conductors, #22 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	2,648.60	1,524.25
27 15 01 19-0099 MLF 2 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,275.75	1,862.22
27 15 01 19-0100 MLF 3 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,416.73	1,895.05
27 15 01 19-0101 MLF 4 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,541.78	1,929.26
27 15 01 19-0102 MLF 6 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,807.79	1,996.31
27 15 01 19-0103 MLF 2 Conductors, #16 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,746.18	2,116.71
27 15 01 19-0104 MLF 4 Conductors, #16 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,092.69	2,191.97
27 15 01 19-0105 MLF 2 Conductors, #14 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,273.47	2,369.84
27 15 01 19-0106 MLF 4 Conductors, #14 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,843.84	2,454.68
27 15 01 19-0107 MLF 2 Conductors, #12 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,993.76	2,709.17
27 15 13 Communications Copper Horizontal Cabling <small>(27 15)</small>		
<small>Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.</small>		
27 15 13 00-0001 Copper Telecommunications Cable <small>(27 15 13)</small>		
27 15 13 00-0002 Indoor Telecommunications Cable <small>(27 15 13 00-0001)</small>		
<small>Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.</small>		
27 15 13 00-0003 Category 3, Indoor Telecommunications Cable <small>(27 15 13 00-0002)</small>		
<small>Note: Un-shielded twisted pair cables (UTP).</small>		
27 15 13 00-0004 Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0003)</small>		
27 15 13 00-0005 24 AWG, Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0004)</small>		
27 15 13 00-0006 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0005)</small>		
27 15 13 00-0007 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,044.22	574.68
27 15 13 00-0008 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,081.10	574.68
27 15 13 00-0009 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,094.13	574.68
27 15 13 00-0010 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,304.34	656.77
27 15 13 00-0011 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,575.85	656.77
27 15 13 00-0012 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	2,006.97	656.77
27 15 13 00-0013 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,095.73	820.96

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0014 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,519.84	1,313.54
27 15 13 00-0015 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	7,335.49	1,477.73
27 15 13 00-0016 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	9,598.29	1,641.93
27 15 13 00-0017 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	13,991.43	2,298.69
27 15 13 00-0018 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	18,259.19	2,840.52
27 15 13 00-0019 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	28,675.48	3,940.62
27 15 13 00-0020 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	47,258.23	7,881.23
27 15 13 00-0021 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	64,759.61	11,821.85
27 15 13 00-0022 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0005)</small>		
27 15 13 00-0023 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,002.01	1,149.35
<i>For Work In Restricted Working Space, Add</i>	574.67	
27 15 13 00-0024 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,038.89	1,149.35
<i>For Work In Restricted Working Space, Add</i>	574.67	
27 15 13 00-0025 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,051.92	1,149.35
<i>For Work In Restricted Working Space, Add</i>	574.67	
27 15 13 00-0026 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,125.31	1,149.35
<i>For Work In Restricted Working Space, Add</i>	574.67	
27 15 13 00-0027 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,396.82	1,149.35
<i>For Work In Restricted Working Space, Add</i>	574.67	
27 15 13 00-0028 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,101.59	1,313.54
<i>For Work In Restricted Working Space, Add</i>	656.77	
27 15 13 00-0029 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,464.00	1,641.93
<i>For Work In Restricted Working Space, Add</i>	820.96	
27 15 13 00-0030 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	6,614.46	1,970.31
<i>For Work In Restricted Working Space, Add</i>	985.16	
27 15 13 00-0031 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	8,566.93	2,216.60
<i>For Work In Restricted Working Space, Add</i>	1,108.30	
27 15 13 00-0032 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	10,966.56	2,462.88
<i>For Work In Restricted Working Space, Add</i>	1,231.44	
27 15 13 00-0033 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	15,907.01	3,448.04
<i>For Work In Restricted Working Space, Add</i>	1,724.02	
27 15 13 00-0034 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	20,639.98	4,269.00
<i>For Work In Restricted Working Space, Add</i>	2,134.50	
27 15 13 00-0035 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	31,959.33	5,910.92
<i>For Work In Restricted Working Space, Add</i>	2,955.46	
27 15 13 00-0036 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	53,825.93	11,821.85
<i>For Work In Restricted Working Space, Add</i>	5,910.92	
27 15 13 00-0037 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	74,611.15	17,732.77
<i>For Work In Restricted Working Space, Add</i>	8,866.39	
27 15 13 00-0038 22 AWG, Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0004)</small>		
27 15 13 00-0039 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0038)</small>		
27 15 13 00-0040 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,080.76	656.77
27 15 13 00-0041 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	4,521.02	820.96
27 15 13 00-0042 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	8,176.73	1,313.54
27 15 13 00-0043 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	14,226.06	1,641.93
27 15 13 00-0044 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	20,873.63	2,298.69
27 15 13 00-0045 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	27,123.31	2,840.52
27 15 13 00-0046 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	40,098.21	3,940.62
27 15 13 00-0047 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0038)</small>		
27 15 13 00-0048 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,175.38	1,313.54
<i>For Work In Restricted Working Space, Add</i>	656.77	
27 15 13 00-0049 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	5,889.29	1,641.93
<i>For Work In Restricted Working Space, Add</i>	820.96	
27 15 13 00-0050 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	9,271.35	1,970.31
<i>For Work In Restricted Working Space, Add</i>	985.16	
27 15 13 00-0051 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	15,594.33	2,462.88
<i>For Work In Restricted Working Space, Add</i>	1,231.44	
27 15 13 00-0052 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	22,789.21	3,448.04
<i>For Work In Restricted Working Space, Add</i>	1,724.02	
27 15 13 00-0053 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	29,504.10	4,269.00
<i>For Work In Restricted Working Space, Add</i>	2,134.50	
27 15 13 00-0054 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	43,382.06	5,910.92
<i>For Work In Restricted Working Space, Add</i>	2,955.46	
27 15 13 00-0055 Category 3, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0003)</small>		
27 15 13 00-0056 24 AWG, Category 3, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0055)</small>		
27 15 13 00-0057 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0056)</small>		
27 15 13 00-0058 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,074.05	574.68



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0059 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,110.78	574.68
27 15 13 00-0060 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,138.25	574.68
27 15 13 00-0061 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,353.89	656.77
27 15 13 00-0062 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,649.85	656.77
27 15 13 00-0063 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,452.11	656.77
27 15 13 00-0064 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,002.01	820.96
27 15 13 00-0065 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	7,418.75	1,313.54
27 15 13 00-0066 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	12,573.99	1,641.93
27 15 13 00-0067 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	18,773.81	2,298.69
27 15 13 00-0068 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0056)</small>		
27 15 13 00-0069 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,031.84	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0070 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,068.57	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0071 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,096.04	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0072 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,174.86	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0073 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,470.82	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0074 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	3,546.73	1,313.54
<i>For Work In Restricted Working Space, Add</i>	<i>656.77</i>	
27 15 13 00-0075 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	5,370.28	1,641.93
<i>For Work In Restricted Working Space, Add</i>	<i>820.96</i>	
27 15 13 00-0076 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	8,513.37	1,970.31
<i>For Work In Restricted Working Space, Add</i>	<i>985.16</i>	
27 15 13 00-0077 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	13,942.26	2,462.88
<i>For Work In Restricted Working Space, Add</i>	<i>1,231.44</i>	
27 15 13 00-0078 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	20,689.39	3,448.04
<i>For Work In Restricted Working Space, Add</i>	<i>1,724.02</i>	
27 15 13 00-0079 Category 5E, Indoor Telecommunications Cable <small>(27 15 13 00-0002)</small>		
27 15 13 00-0080 Category 5E, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0079)</small>		
27 15 13 00-0081 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0080)</small>		
27 15 13 00-0082 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,160.32	574.68
27 15 13 00-0083 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,207.76	574.68
27 15 13 00-0084 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,345.49	656.77
27 15 13 00-0085 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	1,392.91	656.77
27 15 13 00-0086 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0080)</small>		
27 15 13 00-0087 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,118.11	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0088 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,165.55	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0089 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,440.11	1,313.54
<i>For Work In Restricted Working Space, Add</i>	<i>656.77</i>	
27 15 13 00-0090 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,487.53	1,313.54
<i>For Work In Restricted Working Space, Add</i>	<i>656.77</i>	
27 15 13 00-0091 Category 5E, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0079)</small>		
27 15 13 00-0092 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0091)</small>		
27 15 13 00-0093 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,334.77	574.68
27 15 13 00-0094 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,842.26	656.77
27 15 13 00-0095 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0091)</small>		
27 15 13 00-0096 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed	2,292.56	1,149.35
<i>For Work In Restricted Working Space, Add</i>	<i>574.67</i>	
27 15 13 00-0097 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed	2,936.88	1,313.54
<i>For Work In Restricted Working Space, Add</i>	<i>656.77</i>	
27 15 13 00-0098 Category 6, Indoor Telecommunications Cable <small>(27 15 13 00-0002)</small>		
27 15 13 00-0099 Category 6, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0098)</small>		
27 15 13 00-0100 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0099)</small>		
27 15 13 00-0101 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,536.65	574.68
27 15 13 00-0102 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit	1,601.37	574.68

27	27 Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0103 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0099)		
27 15 13 00-0104 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,494.44 574.67	1,149.35
27 15 13 00-0105 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,559.16 574.67	1,149.35
27 15 13 00-0106 Category 6, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0098)		
27 15 13 00-0107 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0106)		
27 15 13 00-0108 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,135.49	574.68
27 15 13 00-0109 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0108)		
27 15 13 00-0110 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,093.28 574.67	1,149.35
27 15 13 00-0111 Category 6a, Indoor Telecommunications Cable ^(27 15 13 00-0002)		
27 15 13 00-0112 Category 6a, Indoor Telecommunications Riser Cable ^(27 15 13 00-0111)		
27 15 13 00-0113 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit ^(27 15 13 00-0112)		
27 15 13 00-0114 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,640.07	574.68
27 15 13 00-0115 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0112)		
27 15 13 00-0116 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed	2,597.86 574.67	1,149.35
27 15 13 00-0117 Category 6a, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0111)		
27 15 13 00-0118 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0117)		
27 15 13 00-0119 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,441.58	574.68
27 15 13 00-0120 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0117)		
27 15 13 00-0121 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed	3,399.37 574.67	1,149.35
27 15 13 00-0122 Category 7, Indoor Telecommunications Cable ^(27 15 13 00-0002)		
27 15 13 00-0123 Category 7, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0122)		
27 15 13 00-0124 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,724.82	656.77
27 15 13 00-0125 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	7,515.11	656.77
27 15 13 00-0126 Category 7, Indoor Telecommunications Cable, Installed Exposed ^(27 15 13 00-0122)		
27 15 13 00-0127 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,819.44 656.77	1,313.54
27 15 13 00-0128 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,609.73 656.77	1,313.54
27 15 13 00-0129 Outdoor Telecommunications Cable ^(27 15 13 00-0001)		
27 15 13 00-0130 PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0129)		
27 15 13 00-0131 24 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0130)		
27 15 13 00-0132 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0131)		
27 15 13 00-0133 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,714.10	656.77
27 15 13 00-0134 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,976.12	1,149.35
27 15 13 00-0135 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,677.40	738.87
27 15 13 00-0136 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,889.54	820.96
27 15 13 00-0137 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,505.64	1,149.35
27 15 13 00-0138 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	6,850.58	1,313.54
27 15 13 00-0139 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	11,308.09	1,477.73
27 15 13 00-0140 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	16,601.19	2,134.50
27 15 13 00-0141 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	21,975.71	2,791.27
27 15 13 00-0142 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	29,836.74	3,776.42
27 15 13 00-0143 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	48,048.83	7,552.85
27 15 13 00-0144 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	66,166.42	11,165.07



	Communications	27
	Structured Cabling	27 10
	Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0145 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0131)		
27 15 13 00-0146 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,508.86	
27 15 13 00-0147 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,770.88	
27 15 13 00-0148 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,403.75	
27 15 13 00-0149 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,615.88	
27 15 13 00-0150 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,095.16	
27 15 13 00-0151 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,166.45	
27 15 13 00-0152 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	11,034.44	
27 15 13 00-0153 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	15,780.23	
27 15 13 00-0154 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	20,265.37	
27 15 13 00-0155 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	26,826.56	
27 15 13 00-0156 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	39,839.21	
27 15 13 00-0157 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	54,125.64	
27 15 13 00-0158 22 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0130)		
27 15 13 00-0159 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0158)		
27 15 13 00-0160 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,880.67	656.77
27 15 13 00-0161 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,287.33	656.77
27 15 13 00-0162 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,314.43	738.87
27 15 13 00-0163 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,023.39	820.96
27 15 13 00-0164 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,277.54	1,149.35
27 15 13 00-0165 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,259.42	1,313.54
27 15 13 00-0166 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	15,955.09	1,477.73
27 15 13 00-0167 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	23,228.73	2,134.50
27 15 13 00-0168 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	30,910.21	2,791.27
27 15 13 00-0169 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	45,439.20	3,776.42
27 15 13 00-0170 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	67,753.44	7,552.85
27 15 13 00-0171 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	95,646.34	11,165.07
27 15 13 00-0172 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0158)		
27 15 13 00-0173 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,675.43	
27 15 13 00-0174 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,082.09	
27 15 13 00-0175 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,040.78	
27 15 13 00-0176 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,749.73	
27 15 13 00-0177 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,867.06	
27 15 13 00-0178 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,848.94	
27 15 13 00-0179 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	15,681.44	
27 15 13 00-0180 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	22,407.77	
27 15 13 00-0181 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	29,199.87	
27 15 13 00-0182 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	42,429.02	
27 15 13 00-0183 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	59,543.82	
27 15 13 00-0184 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	83,605.56	
27 15 13 00-0185 19 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0130)		
27 15 13 00-0186 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0185)		
27 15 13 00-0187 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,278.28	738.87
27 15 13 00-0188 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	8,862.08	820.96
27 15 13 00-0189 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	14,105.85	1,149.35
27 15 13 00-0190 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	16,862.75	1,313.54
27 15 13 00-0191 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0185)		
27 15 13 00-0192 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,004.63	
27 15 13 00-0193 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,588.42	
27 15 13 00-0194 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	13,695.37	
27 15 13 00-0195 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	16,452.27	
27 15 13 00-0196 PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0129)		
Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0197 24 AWG, PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0196)		
27 15 13 00-0198 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0197)		
27 15 13 00-0199 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,558.49	1,149.35
27 15 13 00-0200 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,879.05	1,149.35
27 15 13 00-0201 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,525.76	1,149.35
27 15 13 00-0202 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,690.37	1,149.35
27 15 13 00-0203 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,052.37	1,149.35
27 15 13 00-0204 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	12,395.41	1,477.73
27 15 13 00-0205 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,084.34	2,134.50
27 15 13 00-0206 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	23,782.91	2,791.27

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0207 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	32,475.40	3,776.42
27 15 13 00-0208 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	51,461.26	7,552.85
27 15 13 00-0209 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	75,016.90	11,165.07
27 15 13 00-0210 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13		
<small>00-0197)</small>		
27 15 13 00-0211 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,148.01	
27 15 13 00-0212 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,468.57	
27 15 13 00-0213 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,115.28	
27 15 13 00-0214 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,279.89	
27 15 13 00-0215 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	6,641.89	
27 15 13 00-0216 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,121.76	
27 15 13 00-0217 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	17,263.38	
27 15 13 00-0218 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	22,072.57	
27 15 13 00-0219 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	29,465.22	
27 15 13 00-0220 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	43,251.64	
27 15 13 00-0221 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	62,976.12	
27 15 13 00-0222 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0223 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27		
<small>15 13 00-0222)</small>		
27 15 13 00-0224 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,743.81	1,149.35
27 15 13 00-0225 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,214.86	1,149.35
27 15 13 00-0226 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,217.28	1,149.35
27 15 13 00-0227 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,061.36	1,149.35
27 15 13 00-0228 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,909.73	1,149.35
27 15 13 00-0229 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	17,894.34	1,477.73
27 15 13 00-0230 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	26,201.44	2,134.50
27 15 13 00-0231 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	33,600.38	2,791.27
27 15 13 00-0232 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	46,860.25	3,776.42
27 15 13 00-0233 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	74,753.68	7,552.85
27 15 13 00-0234 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13		
<small>00-0222)</small>		
27 15 13 00-0235 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,333.33	
27 15 13 00-0236 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,804.38	
27 15 13 00-0237 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,806.80	
27 15 13 00-0238 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,650.88	
27 15 13 00-0239 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,499.25	
27 15 13 00-0240 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	17,620.69	
27 15 13 00-0241 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	25,380.48	
27 15 13 00-0242 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	31,890.04	
27 15 13 00-0243 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	43,850.07	
27 15 13 00-0244 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	66,544.06	
27 15 13 00-0245 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0246 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27		
<small>15 13 00-0245)</small>		
27 15 13 00-0247 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,437.86	1,149.35
27 15 13 00-0248 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,177.91	1,149.35
27 15 13 00-0249 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	17,933.45	1,149.35
27 15 13 00-0250 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13		
<small>00-0245)</small>		
27 15 13 00-0251 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	6,027.38	
27 15 13 00-0252 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,767.43	
27 15 13 00-0253 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	17,522.97	
27 15 13 00-0254 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0129)		
Note: Includes support wire.		
27 15 13 00-0255 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27		
<small>15 13 00-0254)</small>		
27 15 13 00-0256 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,482.45	2,268.21
27 15 13 00-0257 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,749.17	2,268.21
27 15 13 00-0258 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,411.39	2,268.21
27 15 13 00-0259 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,637.46	2,268.21
27 15 13 00-0260 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,005.62	2,268.21
27 15 13 00-0261 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	17,260.30	2,495.04
27 15 13 00-0262 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	22,544.28	2,721.86
27 15 13 00-0263 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27		
<small>15 13 00-0254)</small>		
27 15 13 00-0264 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,801.55	2,268.21
27 15 13 00-0265 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,195.62	2,268.21
27 15 13 00-0266 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,144.76	2,268.21



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0267 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	11,019.88	2,268.21
27 15 13 00-0268 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	15,416.80	2,268.21
27 15 13 00-0269 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	23,177.54	2,495.04
27 15 13 00-0270 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13)		
27 15 13 00-0271 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	8,223.43	2,268.21
27 15 13 00-0272 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	9,114.60	2,268.21
27 15 13 00-0273 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	10,866.76	2,268.21
27 15 13 00-0274 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	14,371.12	2,268.21
27 15 13 00-0275 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	21,682.77	2,268.21
27 15 13 00-0276 Solid Conductor Low Voltage Cable ^(27 15 13)		
27 15 13 00-0277 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0276)		
27 15 13 00-0278 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0277)		
27 15 13 00-0279 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,570.50	1,237.65
For #10 AWG, Add	580.08	
27 15 13 00-0280 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,072.95	1,281.41
For #10 AWG, Add	736.35	
27 15 13 00-0281 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,515.00	1,326.41
For #10 AWG, Add	872.64	
27 15 13 00-0282 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,982.79	1,371.41
For #10 AWG, Add	1,017.09	
27 15 13 00-0283 MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,505.28	1,463.93
For #10 AWG, Add	1,169.46	
27 15 13 00-0284 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,983.92	1,555.19
For #10 AWG, Add	1,307.65	
27 15 13 00-0285 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,417.94	1,740.21
For #10 AWG, Add	1,410.94	
27 15 13 00-0286 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,180.16	2,294.03
For #10 AWG, Add	1,872.51	
27 15 13 00-0287 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,681.34	3,387.92
For #10 AWG, Add	2,790.98	
27 15 13 00-0288 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0277)		
27 15 13 00-0289 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,288.95	1,082.64
27 15 13 00-0290 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,763.90	1,121.39
27 15 13 00-0291 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,180.81	1,160.14
27 15 13 00-0292 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,621.10	1,200.15
27 15 13 00-0293 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,107.99	1,281.41
27 15 13 00-0294 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,552.55	1,361.42
27 15 13 00-0295 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,943.80	1,522.69
27 15 13 00-0296 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,552.14	2,006.49
27 15 13 00-0297 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,752.58	2,964.12
27 15 13 00-0298 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0277)		
27 15 13 00-0299 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,038.50	966.37
27 15 13 00-0300 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,354.23	1,001.37
27 15 13 00-0301 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,824.41	1,036.38
27 15 13 00-0302 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,213.79	1,071.38

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0303 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,643.67	1,143.89
27 15 13 00-0304 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,037.23	1,215.15
27 15 13 00-0305 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,210.61	1,287.66
27 15 13 00-0306 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,385.24	1,360.17
27 15 13 00-0307 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,882.13	1,446.42
27 15 13 00-0308 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,810.94	1,791.47
27 15 13 00-0309 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,648.60	2,646.57
27 15 13 00-0310 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0311 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,719.22	851.36
27 15 13 00-0312 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,025.38	881.36
27 15 13 00-0313 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,295.45	911.36
27 15 13 00-0314 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,579.27	942.62
27 15 13 00-0315 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,904.31	1,006.37
27 15 13 00-0316 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,203.35	1,068.88
27 15 13 00-0317 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,490.01	1,196.40
27 15 13 00-0318 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,622.50	1,576.45
27 15 13 00-0319 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,873.73	2,329.04
27 15 13 00-0320 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0321 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,520.64	773.84
27 15 13 00-0322 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,764.05	801.35
27 15 13 00-0323 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,977.19	829.48
27 15 13 00-0324 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,201.28	857.61
27 15 13 00-0325 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,467.19	915.11
27 15 13 00-0326 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,711.92	972.62
27 15 13 00-0327 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,979.11	1,087.64
27 15 13 00-0328 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,921.91	1,433.93
27 15 13 00-0329 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,828.49	2,117.76
27 15 13 00-0330 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,171.73	2,167.77
27 15 13 00-0331 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,342.20	2,524.06
27 15 13 00-0332 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,876.32	2,701.59
27 15 13 00-0333 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,447.09	3,376.67
27 15 13 00-0334 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	12,814.27	4,445.55
27 15 13 00-0335 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0336 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,281.37	696.34
27 15 13 00-0337 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,367.29	721.34
27 15 13 00-0338 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,471.48	746.34
27 15 13 00-0339 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,584.14	771.35
27 15 13 00-0340 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,754.63	823.85



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0341 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,926.37	872.60
27 15 13 00-0342 Triad <small>(27 15 13 00-0277)</small>		
27 15 13 00-0343 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	2,342.26	1,036.38
27 15 13 00-0344 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	3,129.56	1,433.93
27 15 13 00-0345 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,776.37	2,117.76
27 15 13 00-0346 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	5,843.71	2,524.06
27 15 13 00-0347 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	9,362.20	3,910.49
27 15 13 00-0348 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	10,721.21	4,445.55
27 15 13 00-0349 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0276)</small>		
27 15 13 00-0350 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0349)</small>		
27 15 13 00-0351 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,633.43	2,475.31
For #10 AWG, Add	992.67	
For Work In Restricted Working Space, Add	1,237.76	
27 15 13 00-0352 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,209.27	2,562.82
For #10 AWG, Add	1,163.62	
For Work In Restricted Working Space, Add	1,281.79	
27 15 13 00-0353 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,725.06	2,652.83
For #10 AWG, Add	1,314.65	
For Work In Restricted Working Space, Add	1,326.04	
27 15 13 00-0354 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,269.19	2,742.84
For #10 AWG, Add	1,474.37	
For Work In Restricted Working Space, Add	1,371.84	
27 15 13 00-0355 MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,945.88	2,927.86
For #10 AWG, Add	1,657.58	
For Work In Restricted Working Space, Add	1,464.36	
27 15 13 00-0356 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,576.59	3,110.39
For #10 AWG, Add	1,826.18	
For Work In Restricted Working Space, Add	1,555.60	
27 15 13 00-0357 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,317.75	3,480.43
For #10 AWG, Add	1,990.91	
For Work In Restricted Working Space, Add	1,739.89	
27 15 13 00-0358 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,002.80	4,588.06
For #10 AWG, Add	2,637.04	
For Work In Restricted Working Space, Add	2,293.59	
27 15 13 00-0359 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	16,326.41	6,775.83
For #10 AWG, Add	3,920.00	
For Work In Restricted Working Space, Add	3,387.05	
27 15 13 00-0360 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0349)</small>		
27 15 13 00-0361 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,092.92	2,165.27
For Work In Restricted Working Space, Add	1,082.39	
27 15 13 00-0362 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,632.89	2,242.78
For Work In Restricted Working Space, Add	1,121.39	
27 15 13 00-0363 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,114.80	2,320.29
For Work In Restricted Working Space, Add	1,160.39	
27 15 13 00-0364 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,621.34	2,400.30
For Work In Restricted Working Space, Add	1,200.15	
27 15 13 00-0365 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,243.26	2,562.82
For Work In Restricted Working Space, Add	1,281.16	
27 15 13 00-0366 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,820.33	2,722.83
For Work In Restricted Working Space, Add	1,360.67	
27 15 13 00-0367 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,481.62	3,045.37
For Work In Restricted Working Space, Add	1,522.69	
27 15 13 00-0368 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,896.29	4,013.00
For Work In Restricted Working Space, Add	2,006.49	

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0369 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	14,693.20	5,928.24
<i>For Work In Restricted Working Space, Add</i>	2,964.37	
27 15 13 00-0370 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0349)</small>		
27 15 13 00-0371 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,649.96	1,932.74
<i>For Work In Restricted Working Space, Add</i>	966.87	
27 15 13 00-0372 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,023.19	2,002.75
<i>For Work In Restricted Working Space, Add</i>	1,001.37	
27 15 13 00-0373 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,550.88	2,072.75
<i>For Work In Restricted Working Space, Add</i>	1,035.88	
27 15 13 00-0374 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,000.26	2,142.76
<i>For Work In Restricted Working Space, Add</i>	1,071.88	
27 15 13 00-0375 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,550.16	2,287.79
<i>For Work In Restricted Working Space, Add</i>	1,143.89	
27 15 13 00-0376 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,062.47	2,430.30
<i>For Work In Restricted Working Space, Add</i>	1,215.15	
27 15 13 00-0377 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,355.87	2,575.31
<i>For Work In Restricted Working Space, Add</i>	1,287.16	
27 15 13 00-0378 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,651.77	2,720.34
<i>For Work In Restricted Working Space, Add</i>	1,359.92	
27 15 13 00-0379 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,292.42	2,892.86
<i>For Work In Restricted Working Space, Add</i>	1,446.18	
27 15 13 00-0380 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,796.93	3,582.94
<i>For Work In Restricted Working Space, Add</i>	1,791.59	
27 15 13 00-0381 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,059.77	5,293.16
<i>For Work In Restricted Working Space, Add</i>	2,646.70	
27 15 13 00-0382 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0349)</small>		
27 15 13 00-0383 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,136.90	1,702.71
<i>For Work In Restricted Working Space, Add</i>	850.61	
27 15 13 00-0384 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,494.31	1,762.72
<i>For Work In Restricted Working Space, Add</i>	881.36	
27 15 13 00-0385 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,815.64	1,822.72
<i>For Work In Restricted Working Space, Add</i>	912.11	
27 15 13 00-0386 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,150.71	1,885.23
<i>For Work In Restricted Working Space, Add</i>	942.87	
27 15 13 00-0387 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,582.03	2,012.75
<i>For Work In Restricted Working Space, Add</i>	1,006.63	
27 15 13 00-0388 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,986.07	2,137.76
<i>For Work In Restricted Working Space, Add</i>	1,069.63	
27 15 13 00-0389 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,484.00	2,392.79
<i>For Work In Restricted Working Space, Add</i>	1,196.40	
27 15 13 00-0390 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,250.33	3,152.89
<i>For Work In Restricted Working Space, Add</i>	1,576.70	
27 15 13 00-0391 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,755.45	4,658.08
<i>For Work In Restricted Working Space, Add</i>	2,329.03	
27 15 13 00-0392 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0349)</small>		
27 15 13 00-0393 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,809.55	1,547.69
<i>For Work In Restricted Working Space, Add</i>	773.35	
27 15 13 00-0394 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,099.22	1,602.70
<i>For Work In Restricted Working Space, Add</i>	801.10	
27 15 13 00-0395 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,358.62	1,658.95
<i>For Work In Restricted Working Space, Add</i>	828.86	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0396	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,630.21	1,715.21	
		<i>For Work In Restricted Working Space, Add</i>	857.36		
27 15 13 00-0397	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,991.76	1,830.23	
		<i>For Work In Restricted Working Space, Add</i>	914.74		
27 15 13 00-0398	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,332.13	1,945.24	
		<i>For Work In Restricted Working Space, Add</i>	972.12		
27 15 13 00-0399	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,791.83	2,175.26	
		<i>For Work In Restricted Working Space, Add</i>	1,087.64		
27 15 13 00-0400	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,310.96	2,867.85	
		<i>For Work In Restricted Working Space, Add</i>	1,433.43		
27 15 13 00-0401	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,357.66	4,235.52	
		<i>For Work In Restricted Working Space, Add</i>	2,117.51		
27 15 13 00-0402	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,784.65	4,335.53	
		<i>For Work In Restricted Working Space, Add</i>	2,167.76		
27 15 13 00-0403	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,548.99	5,048.13	
		<i>For Work In Restricted Working Space, Add</i>	2,524.07		
27 15 13 00-0404	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,379.36	5,403.16	
		<i>For Work In Restricted Working Space, Add</i>	2,701.82		
27 15 13 00-0405	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	15,074.01	6,753.33	
		<i>For Work In Restricted Working Space, Add</i>	3,376.15		
27 15 13 00-0406	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	20,222.63	8,891.10	
		<i>For Work In Restricted Working Space, Add</i>	4,445.02		
27 15 13 00-0407		#22 AWG, Shielded, Low Voltage Cable, Installed Exposed <small>(27 15 13 00-0349)</small>			
27 15 13 00-0408	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,441.52	1,392.67	
		<i>For Work In Restricted Working Space, Add</i>	696.09		
27 15 13 00-0409	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,568.69	1,442.68	
		<i>For Work In Restricted Working Space, Add</i>	720.84		
27 15 13 00-0410	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,715.38	1,492.69	
		<i>For Work In Restricted Working Space, Add</i>	746.34		
27 15 13 00-0411	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,870.56	1,542.69	
		<i>For Work In Restricted Working Space, Add</i>	771.85		
27 15 13 00-0412	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,127.30	1,647.71	
		<i>For Work In Restricted Working Space, Add</i>	823.60		
27 15 13 00-0413	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,381.55	1,745.22	
		<i>For Work In Restricted Working Space, Add</i>	873.11		
27 15 13 00-0414		Triad, Installed Exposed <small>(27 15 13 00-0349)</small>			
27 15 13 00-0415	MLF	1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	2,342.26	1,036.38	
27 15 13 00-0416	MLF	4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	3,129.56	1,433.93	
27 15 13 00-0417	MLF	8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	4,776.37	2,117.76	
27 15 13 00-0418	MLF	12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	5,843.71	2,524.06	
27 15 13 00-0419	MLF	24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	9,362.20	3,910.49	
27 15 13 00-0420	MLF	36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	10,721.21	4,445.55	
27 15 13 00-0421		Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0276)</small>			
27 15 13 00-0422		#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0421)</small>			
27 15 13 00-0423	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,053.92	1,082.64	
		<i>For Work In Restricted Working Space, Add</i>	541.19		
27 15 13 00-0424	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,330.23	1,121.39	
		<i>For Work In Restricted Working Space, Add</i>	560.69		
27 15 13 00-0425	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,576.60	1,160.14	
		<i>For Work In Restricted Working Space, Add</i>	580.20		
27 15 13 00-0426	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,835.64	1,200.15	
		<i>For Work In Restricted Working Space, Add</i>	600.08		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0427 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,149.51	1,280.16
<i>For Work In Restricted Working Space, Add</i>	639.83	
27 15 13 00-0428 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,444.10	1,360.17
<i>For Work In Restricted Working Space, Add</i>	679.96	
27 15 13 00-0429 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,777.85	1,522.69
<i>For Work In Restricted Working Space, Add</i>	761.34	
27 15 13 00-0430 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,997.54	2,006.49
<i>For Work In Restricted Working Space, Add</i>	1,003.25	
27 15 13 00-0431 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,420.69	2,964.12
<i>For Work In Restricted Working Space, Add</i>	1,482.18	
27 15 13 00-0432 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0421)</small>		
27 15 13 00-0433 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,831.55	966.37
<i>For Work In Restricted Working Space, Add</i>	483.43	
27 15 13 00-0434 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,075.12	1,001.37
<i>For Work In Restricted Working Space, Add</i>	500.69	
27 15 13 00-0435 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,292.34	1,036.38
<i>For Work In Restricted Working Space, Add</i>	517.94	
27 15 13 00-0436 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,522.11	1,071.38
<i>For Work In Restricted Working Space, Add</i>	535.94	
27 15 13 00-0437 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,800.58	1,142.64
<i>For Work In Restricted Working Space, Add</i>	571.57	
27 15 13 00-0438 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,062.22	1,215.15
<i>For Work In Restricted Working Space, Add</i>	607.58	
27 15 13 00-0439 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,209.75	1,287.66
<i>For Work In Restricted Working Space, Add</i>	643.58	
27 15 13 00-0440 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,429.10	1,360.17
<i>For Work In Restricted Working Space, Add</i>	679.96	
27 15 13 00-0441 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,766.50	1,446.42
<i>For Work In Restricted Working Space, Add</i>	723.05	
27 15 13 00-0442 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,441.98	1,791.47
<i>For Work In Restricted Working Space, Add</i>	895.80	
27 15 13 00-0443 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,595.74	2,646.57
<i>For Work In Restricted Working Space, Add</i>	1,323.53	
27 15 13 00-0444 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0421)</small>		
27 15 13 00-0445 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,601.37	850.10
<i>For Work In Restricted Working Space, Add</i>	425.30	
27 15 13 00-0446 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,798.32	881.36
<i>For Work In Restricted Working Space, Add</i>	440.68	
27 15 13 00-0447 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,925.60	912.61
<i>For Work In Restricted Working Space, Add</i>	456.06	
27 15 13 00-0448 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,090.88	942.62
<i>For Work In Restricted Working Space, Add</i>	471.44	
27 15 13 00-0449 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,298.48	1,006.37
<i>For Work In Restricted Working Space, Add</i>	503.31	
27 15 13 00-0450 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,504.85	1,070.13
<i>For Work In Restricted Working Space, Add</i>	534.82	
27 15 13 00-0451 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,982.19	1,196.40
<i>For Work In Restricted Working Space, Add</i>	598.20	
27 15 13 00-0452 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,881.30	1,576.45
<i>For Work In Restricted Working Space, Add</i>	788.35	
27 15 13 00-0453 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,250.79	2,329.04
<i>For Work In Restricted Working Space, Add</i>	1,164.51	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0454 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0421)</small>		
27 15 13 00-0455 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,418.58	773.84
<i>For Work In Restricted Working Space, Add</i>	<i>386.67</i>	
27 15 13 00-0456 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,556.21	801.35
<i>For Work In Restricted Working Space, Add</i>	<i>400.55</i>	
27 15 13 00-0457 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,827.25	912.61
<i>For Work In Restricted Working Space, Add</i>	<i>456.06</i>	
27 15 13 00-0458 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,997.02	959.37
<i>For Work In Restricted Working Space, Add</i>	<i>479.69</i>	
27 15 13 00-0459 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,163.53	1,006.37
<i>For Work In Restricted Working Space, Add</i>	<i>503.31</i>	
27 15 13 00-0460 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,345.39	1,070.13
<i>For Work In Restricted Working Space, Add</i>	<i>534.82</i>	
27 15 13 00-0461 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,586.40	1,190.90
<i>For Work In Restricted Working Space, Add</i>	<i>595.58</i>	
27 15 13 00-0462 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,179.08	1,433.93
<i>For Work In Restricted Working Space, Add</i>	<i>716.71</i>	
27 15 13 00-0463 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,714.24	2,117.76
<i>For Work In Restricted Working Space, Add</i>	<i>1,058.75</i>	
27 15 13 00-0464 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,931.74	2,167.77
<i>For Work In Restricted Working Space, Add</i>	<i>1,083.88</i>	
27 15 13 00-0465 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,822.77	2,524.06
<i>For Work In Restricted Working Space, Add</i>	<i>1,262.03</i>	
27 15 13 00-0466 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,241.62	2,701.59
<i>For Work In Restricted Working Space, Add</i>	<i>1,350.91</i>	
27 15 13 00-0467 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,595.82	3,376.67
<i>For Work In Restricted Working Space, Add</i>	<i>1,688.08</i>	
27 15 13 00-0468 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,194.56	4,445.55
<i>For Work In Restricted Working Space, Add</i>	<i>2,222.51</i>	
27 15 13 00-0469 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0421)</small>		
27 15 13 00-0470 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,246.11	696.34
<i>For Work In Restricted Working Space, Add</i>	<i>348.04</i>	
27 15 13 00-0471 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,319.04	721.34
<i>For Work In Restricted Working Space, Add</i>	<i>360.42</i>	
27 15 13 00-0472 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,411.18	746.34
<i>For Work In Restricted Working Space, Add</i>	<i>373.17</i>	
27 15 13 00-0473 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,510.65	771.35
<i>For Work In Restricted Working Space, Add</i>	<i>385.92</i>	
27 15 13 00-0474 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,650.22	823.85
<i>For Work In Restricted Working Space, Add</i>	<i>411.80</i>	
27 15 13 00-0475 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,797.57	872.60
<i>For Work In Restricted Working Space, Add</i>	<i>436.55</i>	
27 15 13 00-0476 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0276)</small>		
27 15 13 00-0477 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0476)</small>		
27 15 13 00-0478 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,857.90	2,165.27
<i>For Work In Restricted Working Space, Add</i>	<i>1,082.39</i>	
27 15 13 00-0479 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,199.21	2,242.78
<i>For Work In Restricted Working Space, Add</i>	<i>1,121.39</i>	
27 15 13 00-0480 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,510.59	2,320.29
<i>For Work In Restricted Working Space, Add</i>	<i>1,160.39</i>	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0481 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,835.88	2,400.30
<i>For Work In Restricted Working Space, Add</i>	1,200.15	
27 15 13 00-0482 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,282.27	2,560.32
<i>For Work In Restricted Working Space, Add</i>	1,279.66	
27 15 13 00-0483 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,710.63	2,720.34
<i>For Work In Restricted Working Space, Add</i>	1,359.92	
27 15 13 00-0484 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,315.67	3,045.37
<i>For Work In Restricted Working Space, Add</i>	1,522.69	
27 15 13 00-0485 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,341.69	4,013.00
<i>For Work In Restricted Working Space, Add</i>	2,006.49	
27 15 13 00-0486 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,361.31	5,928.24
<i>For Work In Restricted Working Space, Add</i>	2,964.37	
27 15 13 00-0487 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0476)</small>		
27 15 13 00-0488 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,443.01	1,932.74
<i>For Work In Restricted Working Space, Add</i>	966.87	
27 15 13 00-0489 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,744.08	2,002.75
<i>For Work In Restricted Working Space, Add</i>	1,001.37	
27 15 13 00-0490 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,018.81	2,072.75
<i>For Work In Restricted Working Space, Add</i>	1,035.88	
27 15 13 00-0491 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,308.58	2,142.76
<i>For Work In Restricted Working Space, Add</i>	1,071.88	
27 15 13 00-0492 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,705.81	2,285.28
<i>For Work In Restricted Working Space, Add</i>	1,143.14	
27 15 13 00-0493 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,087.46	2,430.30
<i>For Work In Restricted Working Space, Add</i>	1,215.15	
27 15 13 00-0494 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,355.01	2,575.31
<i>For Work In Restricted Working Space, Add</i>	1,287.16	
27 15 13 00-0495 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,695.63	2,720.34
<i>For Work In Restricted Working Space, Add</i>	1,359.92	
27 15 13 00-0496 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,176.67	2,892.86
<i>For Work In Restricted Working Space, Add</i>	1,446.10	
27 15 13 00-0497 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,427.96	3,582.94
<i>For Work In Restricted Working Space, Add</i>	1,791.59	
27 15 13 00-0498 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,007.52	5,293.16
<i>For Work In Restricted Working Space, Add</i>	2,647.07	
27 15 13 00-0499 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0476)</small>		
27 15 13 00-0500 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,019.05	1,700.20
<i>For Work In Restricted Working Space, Add</i>	850.61	
27 15 13 00-0501 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,267.25	1,762.72
<i>For Work In Restricted Working Space, Add</i>	881.36	
27 15 13 00-0502 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,445.79	1,825.23
<i>For Work In Restricted Working Space, Add</i>	912.11	
27 15 13 00-0503 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,662.32	1,885.23
<i>For Work In Restricted Working Space, Add</i>	942.87	
27 15 13 00-0504 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,976.20	2,012.75
<i>For Work In Restricted Working Space, Add</i>	1,006.63	
27 15 13 00-0505 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,287.57	2,140.26
<i>For Work In Restricted Working Space, Add</i>	1,069.63	
27 15 13 00-0506 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,976.18	2,392.79
<i>For Work In Restricted Working Space, Add</i>	1,196.40	
27 15 13 00-0507 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,509.13	3,152.89
<i>For Work In Restricted Working Space, Add</i>	1,576.70	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0508 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,132.51 2,329.03	4,658.08
27 15 13 00-0509 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0476)</small>		
27 15 13 00-0510 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,707.49 773.35	1,547.69
27 15 13 00-0511 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,891.38 801.10	1,602.70
27 15 13 00-0512 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,347.44 912.11	1,825.23
27 15 13 00-0513 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,595.96 959.37	1,918.74
27 15 13 00-0514 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,841.25 1,006.63	2,012.75
27 15 13 00-0515 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,128.11 1,069.63	2,140.26
27 15 13 00-0516 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,571.64 1,191.15	2,381.80
27 15 13 00-0517 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,568.13 1,433.43	2,867.85
27 15 13 00-0518 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,243.41 2,117.51	4,235.52
27 15 13 00-0519 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,544.66 2,167.76	4,335.53
27 15 13 00-0520 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,029.56 2,524.07	5,048.13
27 15 13 00-0521 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,744.66 2,701.82	5,403.16
27 15 13 00-0522 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,222.74 3,376.15	6,753.33
27 15 13 00-0523 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,602.92 4,445.02	8,891.10
27 15 13 00-0524 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0476)</small>		
27 15 13 00-0525 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,406.26 696.09	1,392.67
27 15 13 00-0526 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,520.44 720.84	1,442.68
27 15 13 00-0527 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,655.08 746.34	1,492.69
27 15 13 00-0528 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,797.07 771.85	1,542.69
27 15 13 00-0529 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,022.89 823.60	1,647.71
27 15 13 00-0530 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,252.75 873.11	1,745.22
27 15 13 00-0531 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench <small>(27 15 13 00-0276)</small> Note: Excludes excavation.		
27 15 13 00-0532 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,102.72	
27 15 13 00-0533 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,569.45	
27 15 13 00-0534 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,979.59	
27 15 13 00-0535 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,413.81	
27 15 13 00-0536 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,886.25	
27 15 13 00-0537 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	4,317.79	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0538 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) <small>(27 15 13 00-0276)</small>		
27 15 13 00-0539 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,214.70	661.61
27 15 13 00-0540 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,748.21	708.82
27 15 13 00-0541 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,589.58	896.09
27 15 13 00-0542 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	4,330.62	1,036.44
27 15 13 00-0543 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	6,787.84	1,181.31
27 15 13 00-0544 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	8,230.29	1,509.21
27 15 13 00-0545 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0276)</small>		
27 15 13 00-0546 MLF 1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,812.01	966.37
27 15 13 00-0547 MLF 2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,142.68	1,001.37
27 15 13 00-0548 MLF 3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,378.31	1,036.38
27 15 13 00-0549 MLF 4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,509.38	1,071.38
27 15 13 00-0550 MLF 5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,972.37	1,142.64
27 15 13 00-0551 MLF 6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,209.58	1,215.15
27 15 13 00-0552 MLF 8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,971.95	1,360.17
27 15 13 00-0553 MLF 12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,962.72	1,791.47
27 15 13 00-0554 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,514.70	2,646.57
27 15 13 00-0555 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,569.94	850.10
27 15 13 00-0556 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,841.96	881.36
27 15 13 00-0557 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,068.50	912.61
27 15 13 00-0558 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,185.12	942.62
27 15 13 00-0559 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,581.26	1,006.37
27 15 13 00-0560 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,881.69	1,070.13
27 15 13 00-0561 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,251.67	1,196.40
27 15 13 00-0562 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,210.14	1,576.45
27 15 13 00-0563 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,673.04	2,329.04
27 15 13 00-0564 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,393.13	773.84
27 15 13 00-0565 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,568.23	801.35
27 15 13 00-0566 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,738.18	828.85
27 15 13 00-0567 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,848.64	857.61
27 15 13 00-0568 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,007.87	915.11
27 15 13 00-0569 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,184.75	972.62
27 15 13 00-0570 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,446.58	1,087.64
27 15 13 00-0571 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,355.45	1,433.93
27 15 13 00-0572 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,081.57	2,117.76
27 15 13 00-0573 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,340.40	2,167.77
27 15 13 00-0574 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,287.43	2,524.06
27 15 13 00-0575 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,780.54	2,701.59
27 15 13 00-0576 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,206.13	3,376.67
27 15 13 00-0577 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	11,058.21	4,445.55
27 15 13 00-0578 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	21,235.70	8,188.51
27 15 13 00-0579 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	31,653.85	10,836.34
27 15 13 00-0580 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	42,140.08	13,655.44



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0581 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	59,203.03	18,731.06
27 15 13 00-0582 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,355.58	773.84
27 15 13 00-0583 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,484.25	801.35
27 15 13 00-0584 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,609.64	828.85
27 15 13 00-0585 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,697.41	857.61
27 15 13 00-0586 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,833.95	915.11
27 15 13 00-0587 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,981.33	972.62
27 15 13 00-0588 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,218.18	1,087.64
27 15 13 00-0589 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,007.23	1,433.93
27 15 13 00-0590 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,522.21	2,117.76
27 15 13 00-0591 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,717.96	2,167.77
27 15 13 00-0592 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,560.92	2,524.06
27 15 13 00-0593 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,959.90	2,701.59
27 15 13 00-0594 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,276.78	3,376.67
27 15 13 00-0595 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,743.09	4,445.55
27 15 13 00-0596 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	18,452.57	8,188.51
27 15 13 00-0597 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	26,740.18	10,836.34
27 15 13 00-0598 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	35,136.19	13,655.44
27 15 13 00-0599 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	49,091.63	18,731.06
27 15 13 00-0600 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0276)</small>		
27 15 13 00-0601 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,891.11	966.37
27 15 13 00-0602 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,170.43	1,001.37
27 15 13 00-0603 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,343.67	1,036.38
27 15 13 00-0604 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,576.02	1,071.38
27 15 13 00-0605 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,851.58	1,142.64
27 15 13 00-0606 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,124.66	1,215.15
27 15 13 00-0607 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,770.98	1,360.17
27 15 13 00-0608 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,896.11	1,791.47
27 15 13 00-0609 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,304.94	2,646.57
27 15 13 00-0610 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,655.40	850.10
27 15 13 00-0611 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,895.19	881.36
27 15 13 00-0612 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,044.82	912.61
27 15 13 00-0613 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,243.64	942.62
27 15 13 00-0614 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,481.04	1,006.37
27 15 13 00-0615 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,717.22	1,070.13
27 15 13 00-0616 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,272.78	1,196.40
27 15 13 00-0617 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,250.89	1,576.45
27 15 13 00-0618 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,340.90	2,329.04
27 15 13 00-0619 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,456.71	773.84
27 15 13 00-0620 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,663.05	801.35
27 15 13 00-0621 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,807.68	828.85

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0622 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,070.03	857.61
27 15 13 00-0623 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,300.56	915.11
27 15 13 00-0624 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,743.51	972.62
27 15 13 00-0625 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,066.43	1,087.64
27 15 13 00-0626 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,874.20	1,433.93
27 15 13 00-0627 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,843.71	2,117.76
27 15 13 00-0628 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,187.14	2,167.77
27 15 13 00-0629 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,361.32	2,524.06
27 15 13 00-0630 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,896.89	2,701.59
27 15 13 00-0631 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,470.36	3,376.67
27 15 13 00-0632 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	12,847.22	4,445.55
27 15 13 00-0633 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	25,022.24	8,188.51
27 15 13 00-0634 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	38,338.86	10,836.34
27 15 13 00-0635 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	51,667.81	13,655.44
27 15 13 00-0636 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	72,958.33	18,729.81
27 15 13 00-0637 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,396.25	773.84
27 15 13 00-0638 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,544.91	801.35
27 15 13 00-0639 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,654.10	828.85
27 15 13 00-0640 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,839.02	857.61
27 15 13 00-0641 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	2,021.18	915.11
27 15 13 00-0642 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,338.76	972.62
27 15 13 00-0643 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,614.70	1,087.64
27 15 13 00-0644 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,339.07	1,433.93
27 15 13 00-0645 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,009.73	2,117.76
27 15 13 00-0646 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,259.60	2,167.77
27 15 13 00-0647 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,224.66	2,524.06
27 15 13 00-0648 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,674.01	2,701.59
27 15 13 00-0649 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,085.48	3,376.67
27 15 13 00-0650 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,887.48	4,445.55
27 15 13 00-0651 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	20,874.53	8,188.51
27 15 13 00-0652 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,016.40	10,836.34
27 15 13 00-0653 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	41,231.14	13,655.44
27 15 13 00-0654 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	57,891.39	18,731.06
27 15 13 00-0655 Sound System Cables <small>(27 15 13)</small> Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed <small>(27 15 13 00-0655)</small>		
27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 15 13 00-0656)</small>		
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	2,020.65	875.11
<i>For Work In Restricted Working Space, Add</i>	<i>525.07</i>	
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,929.44	875.11
<i>For Work In Restricted Working Space, Add</i>	<i>525.07</i>	
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,859.09	875.11
<i>For Work In Restricted Working Space, Add</i>	<i>525.07</i>	



Communications	27
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,936.03	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,183.32	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,429.79	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,184.36	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,065.61	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 15 13 00-0666)</small>		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,058.34	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,953.41	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,894.02	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,993.12	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,202.50	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,179.40	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,034.26	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,280.97	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,527.01	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,923.80	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,972.82	875.11
For Work In Restricted Working Space, Add	525.07	
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0655)</small>		
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,145.54	437.55
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,054.33	437.55
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	983.98	437.55
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,060.92	437.55
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,308.21	437.55
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,554.68	437.55
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,309.25	437.55
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,190.50	437.55
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,183.23	437.55
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,078.30	437.55

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,018.91	437.55
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,118.01	437.55
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,327.39	437.55
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,304.29	437.55
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,159.15	437.55
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,405.86	437.55
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,651.90	437.55
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,097.71	437.55
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,048.69	437.55

27 15 23 Communications Optical Fiber Horizontal Cabling (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 23 00-0001	Indoor Fiber Optic Cable (27 15 23)		
	Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 15 23 00-0002	Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)		
	Note: Excludes conduit or innerduct.		
27 15 23 00-0003	Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0004	Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0005	Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0006	MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,163.99	492.57
27 15 23 00-0007	MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,267.36	492.57
27 15 23 00-0008	MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,301.88	492.57
27 15 23 00-0009	MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,424.81	492.57
	For Aluminum Armored Cable, Add	775.70	
	For Steel Armored Cable, Add	3,404.49	
27 15 23 00-0010	MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,460.05	492.57
27 15 23 00-0011	MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,673.09	492.57
	For Aluminum Armored Cable, Add	797.75	
	For Steel Armored Cable, Add	3,719.72	
27 15 23 00-0012	MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,841.07	574.68
27 15 23 00-0013	MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,979.08	574.68
	For Aluminum Armored Cable With Sub-Units, Add	379.61	
	For Steel Armored Cable, Add	6,285.63	
27 15 23 00-0014	MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,843.98	574.68
	For Aluminum Armored Cable With Sub-Units, Add	178.39	
	For Steel Armored Cable, Add	6,497.67	
27 15 23 00-0015	MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,011.73	574.68
	For Aluminum Armored Cable With Sub-Units, Add	194.58	
	For Steel Armored Cable, Add	6,794.17	
27 15 23 00-0016	MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,069.55	574.68
27 15 23 00-0017	MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,350.86	574.68
27 15 23 00-0018	MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,830.55	574.68
27 15 23 00-0019	MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,511.01	656.77
27 15 23 00-0020	MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,528.81	656.77
27 15 23 00-0021	50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0022	MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,193.76	492.57
27 15 23 00-0023	MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,426.72	492.57
27 15 23 00-0024	MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,786.39	492.57
27 15 23 00-0025	MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,164.99	492.57
	For Aluminum Armored Cable, Add	767.93	
	For Steel Armored Cable, Add	1,091.16	
27 15 23 00-0026	MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,524.66	492.57
27 15 23 00-0027	MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,262.93	492.57
	For Aluminum Armored Cable, Add	544.37	
	For Steel Armored Cable, Add	965.53	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,589.06	574.68
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,258.19	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	-669.21	
<i>For Steel Armored Cable, Add</i>	-669.21	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,908.39	574.68
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,558.59	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	-1,524.72	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,208.79	574.68
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,858.99	574.68
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	22,178.32	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	504.45	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	27,615.54	656.77
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	32,915.94	656.77
27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0004)</small>		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,212.40	492.57
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,457.01	492.57
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,834.66	492.57
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,232.19	492.57
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,609.84	492.57
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,385.03	492.57
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,720.62	574.68
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,523.21	574.68
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,305.92	574.68
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,088.63	574.68
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,871.34	574.68
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	17,654.05	574.68
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	23,239.35	574.68
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	28,941.59	656.77
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	34,507.01	656.77
27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0003)</small>		
27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,122.13	492.57
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,507.68	492.57
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,355.87	492.57
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,760.65	492.57
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,518.33	492.57
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,885.41	574.68
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,662.10	574.68
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,186.52	574.68
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,933.49	574.68
27 15 23 00-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>		
27 15 23 00-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,871.63	492.57
27 15 23 00-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,518.20	492.57
27 15 23 00-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,584.24	492.57
27 15 23 00-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,168.68	492.57
27 15 23 00-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,088.71	492.57

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27 15 23 00-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,146.91	574.68
27 15 23 00-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,464.52	574.68
27 15 23 00-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,144.92	574.68
27 15 23 00-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	20,114.95	574.68
27 15 23 00-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,974.16	492.57
27 15 23 00-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,653.06	492.57
27 15 23 00-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,772.41	492.57
27 15 23 00-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,436.07	492.57
27 15 23 00-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,302.10	492.57
27 15 23 00-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,556.36	574.68
27 15 23 00-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,839.85	574.68
27 15 23 00-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,754.28	574.68
27 15 23 00-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	21,072.81	574.68
27 15 23 00-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,099.66	492.57
27 15 23 00-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,103.87	492.57
27 15 23 00-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,324.65	492.57
27 15 23 00-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,350.49	492.57
<i>For Aluminum Armored Cable, Add</i>	929.49	
<i>For Steel Armored Cable, Add</i>	4,642.42	
27 15 23 00-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,480.55	492.57
27 15 23 00-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,504.88	492.57
<i>For Aluminum Armored Cable, Add</i>	978.31	
<i>For Steel Armored Cable, Add</i>	4,978.99	
27 15 23 00-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,187.39	574.68
27 15 23 00-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,023.49	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	231.03	
<i>For Steel Armored Cable, Add</i>	5,144.88	
27 15 23 00-0095 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,236.55	574.68
27 15 23 00-0096 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,392.44	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	240.66	
<i>For Steel Armored Cable, Add</i>	6,378.35	
27 15 23 00-0097 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,661.08	574.68
27 15 23 00-0098 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,015.59	574.68
27 15 23 00-0099 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,830.53	574.68
27 15 23 00-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0101 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,191.75	492.57
27 15 23 00-0102 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,248.29	492.57
27 15 23 00-0103 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,510.08	492.57
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,777.12	492.57
<i>For Aluminum Armored Cable, Add</i>	1,158.87	
<i>For Steel Armored Cable, Add</i>	1,553.60	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,032.99	492.57
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,255.30	492.57
<i>For Aluminum Armored Cable, Add</i>	1,525.10	
<i>For Steel Armored Cable, Add</i>	1,973.16	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,829.70	574.68



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27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,728.55	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>2,605.49</i>	
<i>For Steel Armored Cable, Add</i>	<i>2,605.49</i>	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,613.93	574.68
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,499.31	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>3,314.24</i>	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,384.69	574.68
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,270.07	574.68
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,054.30	574.68
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>6,628.47</i>	
27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0085)</small>		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,210.29	492.57
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,269.66	492.57
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,544.54	492.57
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,824.92	492.57
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,093.59	492.57
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,327.02	492.57
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,923.30	574.68
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,917.09	574.68
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,896.74	574.68
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,876.39	574.68
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,856.03	574.68
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,835.68	574.68
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,809.12	574.68
27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0084)</small>		
27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,301.23	492.57
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,770.31	492.57
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,898.01	492.57
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,003.18	492.57
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,767.02	492.57
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,058.83	574.68
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,915.98	574.68
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,238.65	574.68
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,987.18	574.68
27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,236.52	492.57
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,941.94	492.57
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,201.07	492.57
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,842.80	492.57
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,831.62	492.57
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,280.40	574.68
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,809.24	574.68
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,889.34	574.68

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27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,734.23	574.68
27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,357.30	492.57
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,097.99	492.57
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,420.08	492.57
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,093.90	492.57
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,132.16	492.57
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,696.53	574.68
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,301.81	574.68
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,435.92	574.68
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,623.05	574.68
27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001) Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,437.64 328.38	656.77
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,541.01 328.38	656.77
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,575.53 328.38	656.77
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,698.46 775.70 3,404.49 328.38	656.77
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,733.70 328.38	656.77
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,946.74 797.75 3,719.72 328.38	656.77
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,114.72 369.43	738.87
27 15 23 00-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,252.73 379.61 6,285.63 369.43	738.87
27 15 23 00-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,117.63 178.39 6,497.67 369.43	738.87
27 15 23 00-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,285.38 194.58 6,794.17 369.43	738.87
27 15 23 00-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,343.20 369.43	738.87
27 15 23 00-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,624.51 369.43	738.87
27 15 23 00-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,104.20 369.43	738.87
27 15 23 00-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,784.67 410.48	820.96
27 15 23 00-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	12,802.47 410.48	820.96
27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,467.41 328.38	656.77



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	27 15 23 00-0180			MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,700.37 328.38	656.77
	27 15 23 00-0181			MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,060.04 328.38	656.77
	27 15 23 00-0182			MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,438.64 767.93 1,091.16 328.38	656.77
	27 15 23 00-0183			MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,798.31 328.38	656.77
	27 15 23 00-0184			MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,536.58 544.37 965.53 328.38	656.77
	27 15 23 00-0185			MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,862.71 369.43	738.87
	27 15 23 00-0186			MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,531.84 -669.21 -669.21 369.43	738.87
	27 15 23 00-0187			MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,182.04 369.43	738.87
	27 15 23 00-0188			MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,832.24 -1,524.72 369.43	738.87
	27 15 23 00-0189			MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,482.44 369.43	738.87
	27 15 23 00-0190			MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,132.64 369.43	738.87
	27 15 23 00-0191			MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	22,451.97 504.45 369.43	738.87
	27 15 23 00-0192			MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	27,889.20 410.48	820.96
	27 15 23 00-0193			MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	33,189.60 410.48	820.96
	27 15 23 00-0194			62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
	27 15 23 00-0195			MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,486.05 328.38	656.77
	27 15 23 00-0196			MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,730.66 328.38	656.77
	27 15 23 00-0197			MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,108.31 328.38	656.77
	27 15 23 00-0198			MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,505.84 328.38	656.77
	27 15 23 00-0199			MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,883.49 328.38	656.77
	27 15 23 00-0200			MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,658.68 328.38	656.77
	27 15 23 00-0201			MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,994.27 369.43	738.87
	27 15 23 00-0202			MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,796.86 369.43	738.87
	27 15 23 00-0203			MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,579.57 369.43	738.87
	27 15 23 00-0204			MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,362.28 369.43	738.87
	27 15 23 00-0205			MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	15,144.99 369.43	738.87
	27 15 23 00-0206			MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,927.70 369.43	738.87
	27 15 23 00-0207			MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	23,513.00 369.43	738.87
	27 15 23 00-0208			MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	29,215.25 410.48	820.96

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	34,780.67	820.96
<i>For Work In Restricted Working Space, Add</i>	410.48	
27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0160)</small>		
27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,395.78	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,781.33	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,629.52	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,034.30	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,791.98	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,159.06	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,935.75	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,460.17	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,207.14	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,145.28	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,791.85	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,857.89	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,442.33	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,362.36	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,420.56	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,738.17	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,418.57	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	20,388.60	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,247.81	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,926.71	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,046.06	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,709.72	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,575.75	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,830.01	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,113.50	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,027.93	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,346.46	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0159)</small>		



Communications	27
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0242 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0243 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0244 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,373.31	1,373.31	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,377.52	1,377.52	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,598.30	1,598.30	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,624.14	1,624.14	656.77
For Aluminum Armored Cable, Add	929.49	
For Steel Armored Cable, Add	4,642.42	
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,754.20	1,754.20	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,778.53	1,778.53	656.77
For Aluminum Armored Cable, Add	978.31	
For Steel Armored Cable, Add	4,978.99	
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 3,461.04	3,461.04	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 4,297.14	4,297.14	738.87
For Aluminum Armored Cable With Sub-Units, Add	231.03	
For Steel Armored Cable, Add	5,144.88	
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 6,510.20	6,510.20	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 6,666.09	6,666.09	738.87
For Aluminum Armored Cable With Sub-Units, Add	240.66	
For Steel Armored Cable, Add	6,378.35	
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 7,934.73	7,934.73	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 9,289.24	9,289.24	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 12,104.18	12,104.18	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0258 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,465.40	1,465.40	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0259 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,521.94	1,521.94	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0260 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,783.73	1,783.73	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0261 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,050.77	2,050.77	656.77
For Aluminum Armored Cable, Add	1,158.87	
For Steel Armored Cable, Add	1,553.60	
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0262 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,306.64	2,306.64	656.77
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0263 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,528.95	2,528.95	656.77
For Aluminum Armored Cable, Add	1,525.10	
For Steel Armored Cable, Add	1,973.16	
For Work In Restricted Working Space, Add	328.38	
27 15 23 00-0264 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 3,103.35	3,103.35	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0265 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 5,002.20	5,002.20	738.87
For Aluminum Armored Cable With Sub-Units, Add	2,605.49	
For Steel Armored Cable, Add	2,605.49	
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0266 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 6,887.58	6,887.58	738.87
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0267 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 8,772.96	8,772.96	738.87
For Aluminum Armored Cable With Sub-Units, Add	3,314.24	
For Work In Restricted Working Space, Add	369.43	
27 15 23 00-0268 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 10,658.34	10,658.34	738.87
For Work In Restricted Working Space, Add	369.43	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0269 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,543.72	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0270 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	16,327.95	738.87
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	6,628.47	
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0271 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0272 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,483.94	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0273 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,543.31	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0274 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,818.19	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0275 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,098.57	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0276 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,367.24	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0277 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,600.67	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0278 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,196.95	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0279 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,190.74	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0280 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,170.39	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0281 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,150.04	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0282 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,129.68	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0283 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,109.33	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0284 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,082.77	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0287 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,574.88	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0288 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,043.96	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0289 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,171.66	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0290 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	6,276.83	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0291 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,040.67	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0292 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	11,332.48	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0293 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	16,189.63	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	19,512.30	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	24,260.83	738.87
<i>For Work In Restricted Working Space, Add</i>	369.43	
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,510.17	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,215.59	656.77
<i>For Work In Restricted Working Space, Add</i>	328.38	



Communications	27
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,474.72 328.38	656.77
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,116.45 328.38	656.77
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,105.27 328.38	656.77
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,554.05 369.43	738.87
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,082.89 369.43	738.87
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,162.99 369.43	738.87
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	19,007.88 369.43	738.87
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,630.95 328.38	656.77
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,371.64 328.38	656.77
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,693.73 328.38	656.77
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,367.55 328.38	656.77
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,405.81 328.38	656.77
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,970.18 369.43	738.87
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,575.46 369.43	738.87
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,709.57 369.43	738.87
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	19,896.70 369.43	738.87
27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,661.12	492.57
27 15 23 00-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,797.40	492.57
27 15 23 00-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	6,432.97	574.68
27 15 23 00-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	10,125.61	574.68
27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,975.46	492.57
27 15 23 00-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,841.63	492.57
27 15 23 00-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	7,630.41	574.68
27 15 23 00-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	13,143.00	574.68
27 15 23 00-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		

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27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,934.77 328.38	656.77
27 15 23 00-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,071.05 328.38	656.77
27 15 23 00-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,706.62 369.43	738.87
27 15 23 00-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,399.26 369.43	738.87
27 15 23 00-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,249.11 328.38	656.77
27 15 23 00-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,115.28 328.38	656.77
27 15 23 00-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,904.06 369.43	738.87
27 15 23 00-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	13,416.65 369.43	738.87
27 15 23 00-0338 Outdoor Fiber Optic Cable <small>(27 15 23)</small> Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339 Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small> Note: Excludes conduit or innerduct.		
27 15 23 00-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,257.57 300.72	985.15
27 15 23 00-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,295.01 303.21	985.15
27 15 23 00-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,332.50 305.62	985.15
27 15 23 00-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,369.97 308.55	985.15
27 15 23 00-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,444.41 279.20	985.15
27 15 23 00-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,596.69 311.06	985.15
27 15 23 00-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,674.96 244.88	985.15
27 15 23 00-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,699.11 286.23	985.15
27 15 23 00-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,147.09 314.90	985.15
27 15 23 00-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,394.07 314.87	985.15
27 15 23 00-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,714.51 372.15	985.15
27 15 23 00-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,278.63 357.30	985.15
27 15 23 00-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,895.01 433.87	985.15
27 15 23 00-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,540.12 290.43	985.15
27 15 23 00-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,455.93 44.00	985.15
27 15 23 00-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,502.13 74.80	985.15
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,598.93 121.00	985.15
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,730.93 22.00	985.15



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,785.93 44.00	985.15
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,972.93 66.00	985.15
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,368.93 44.00	985.15
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,951.93 132.00	985.15
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,600.93 44.00	985.15
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,051.93 132.00	985.15
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,634.93 517.00	985.15
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,987.93 176.00	985.15
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,329.93 209.00	985.15
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,671.93 253.00	985.15
27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,997.80 128.60	985.15
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,121.44 137.91	985.15
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,244.89 146.99	985.15
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,397.39 167.34	985.15
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,615.80 174.50	985.15
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,001.94 185.98	985.15
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,367.71 213.87	985.15
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,067.76 237.66	985.15
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,886.57 273.26	985.15
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,642.84 294.05	985.15
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,441.05 332.82	985.15
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,055.45 374.20	985.15
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,695.78 424.68	985.15
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,361.42 390.09	985.15
27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0386)</small>		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,471.97 237.64	985.15
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,544.98 341.09	985.15
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,566.89 326.88	985.15
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,654.34 272.12	985.15
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,681.64 325.23	985.15
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,804.20 308.45	985.15
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,914.09 312.11	985.15
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,089.39 395.80	985.15
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,336.37 400.96	985.15
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,582.39 415.40	985.15
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,915.94 357.31	985.15
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,455.46 465.99	985.15

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,161.30 458.85	985.15
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,738.90 366.53	985.15
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,718.09 336.30	985.15
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,973.68 188.33	985.15
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,309.98 40.36	985.15
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,471.40 67.26	985.15
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,632.83 67.26	985.15
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,009.48 80.71	985.15
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,345.78 309.40	985.15
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,072.19 605.34	985.15
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,798.60 1,008.90	985.15
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,403.94 1,109.79	985.15
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,197.61 1,412.46	985.15
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,852.20 2,085.06	985.15
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,686.23 1,573.88	985.15
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,825.09 3,833.82	985.15
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,081.29 161.42	985.15
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,202.36 174.50	985.15
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,323.22 187.56	985.15
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,444.29 200.61	985.15
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,757.91 215.77	985.15
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,065.44 252.85	985.15
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,442.27 274.64	985.15
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,171.65 339.33	985.15
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,914.67 388.78	985.15
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,660.24 432.93	985.15
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,444.21 482.78	985.15
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,035.08 569.26	985.15
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,088.44 588.47	985.15
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,291.79 607.49	985.15
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Excludes trenching.		
27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0432)		
27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0433)		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,120.74 300.72	
27 15 23 00-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,158.18 303.21	
27 15 23 00-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,195.67 305.62	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,233.14 308.55	
27 15 23 00-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,307.58 279.20	
27 15 23 00-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,459.86 311.06	
27 15 23 00-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,538.13 244.88	
27 15 23 00-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,562.28 286.23	
27 15 23 00-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,010.26 314.90	
27 15 23 00-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,572.11 314.87	
27 15 23 00-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,949.83 372.15	
27 15 23 00-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,141.80 357.30	
27 15 23 00-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,758.18 433.87	
27 15 23 00-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,403.29 290.43	
 27 15 23 00-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0433)</small>		
27 15 23 00-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,319.10 44.00	
27 15 23 00-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,365.30 74.80	
27 15 23 00-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,462.10 121.00	
27 15 23 00-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,594.10 22.00	
27 15 23 00-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,649.10 44.00	
27 15 23 00-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,836.10 66.00	
27 15 23 00-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,232.10 44.00	
27 15 23 00-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,815.10 132.00	
27 15 23 00-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,464.10 44.00	
27 15 23 00-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,915.10 132.00	
27 15 23 00-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,498.10 517.00	
27 15 23 00-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,851.10 176.00	
27 15 23 00-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,193.10 209.00	
27 15 23 00-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,535.10 253.00	
 27 15 23 00-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0433)</small>		
27 15 23 00-0465 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,860.97 128.60	
27 15 23 00-0466 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,984.61 137.91	
27 15 23 00-0467 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,108.06 146.99	
27 15 23 00-0468 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,260.56 167.34	
27 15 23 00-0469 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,478.97 174.50	
27 15 23 00-0470 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,865.11 185.98	
27 15 23 00-0471 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,230.88 213.87	
27 15 23 00-0472 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,930.93 237.66	
27 15 23 00-0473 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,749.74 273.26	
27 15 23 00-0474 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,506.01 294.05	
27 15 23 00-0475 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,304.22 332.82	
27 15 23 00-0476 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,918.62 374.20	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0477 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,558.95 424.68	
27 15 23 00-0478 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,224.59 390.09	
27 15 23 00-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0432)</small>		
27 15 23 00-0480 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0481 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,335.14 237.64	
27 15 23 00-0482 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,408.15 341.09	
27 15 23 00-0483 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,430.06 326.88	
27 15 23 00-0484 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,517.51 272.12	
27 15 23 00-0485 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,544.81 325.23	
27 15 23 00-0486 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,667.37 308.45	
27 15 23 00-0487 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,777.26 312.11	
27 15 23 00-0488 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,952.56 395.80	
27 15 23 00-0489 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,199.54 400.96	
27 15 23 00-0490 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,445.56 415.40	
27 15 23 00-0491 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,779.11 357.31	
27 15 23 00-0492 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,318.63 465.99	
27 15 23 00-0493 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,024.47 458.85	
27 15 23 00-0494 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,602.07 366.53	
27 15 23 00-0495 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0496 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,581.26 336.30	
27 15 23 00-0497 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,836.85 188.33	
27 15 23 00-0498 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,173.15 40.36	
27 15 23 00-0499 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,334.57 67.26	
27 15 23 00-0500 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,496.00 67.26	
27 15 23 00-0501 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,872.65 80.71	
27 15 23 00-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,208.95 309.40	
27 15 23 00-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,935.36 605.34	
27 15 23 00-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,661.77 1,008.90	
27 15 23 00-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,267.11 1,109.79	
27 15 23 00-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,060.78 1,412.46	
27 15 23 00-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,715.37 2,085.06	
27 15 23 00-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,549.40 1,573.88	
27 15 23 00-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,688.26 3,833.82	
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,944.46 161.42	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,065.53 174.50	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,186.39 187.56	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,307.46 200.61	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,621.08 215.77	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,928.61 252.85	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,305.44 274.64	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,034.82 339.33	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,777.84 388.78	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,523.41 432.93	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,307.38 482.78	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,898.25 569.26	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,593.17 588.47	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,154.96 607.49	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0338)</small>		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0625)</small>		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0526)</small>		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,408.21 201.13	3,585.04
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,445.41 206.34	3,585.04
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,483.10 211.41	3,585.04
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,520.31 207.36	3,585.04
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,594.74 241.75	3,585.04
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,741.71 251.32	3,585.04
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,853.81 277.78	3,585.04
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,120.32 266.35	3,585.04
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,353.39 309.44	3,585.04
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,546.06 296.72	3,585.04
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,786.41 339.25	3,585.04
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,417.21 344.56	3,585.04
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,094.00 411.15	3,585.04
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,256.24 441.48	3,585.04
27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0542)</small>		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	4,240.51	820.96
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	5,329.59	820.96
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	7,755.70	820.96
27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0542)</small>		
27 15 23 00-0548 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	5,629.59	820.96
27 15 23 00-0549 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	6,248.50	820.96
27 15 23 00-0550 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	8,955.80	820.96
27 15 23 00-0551 Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes trenching.		

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0552 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0551)		
27 15 23 00-0553 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,103.68	752.54
27 15 23 00-0554 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	5,192.76	752.54
27 15 23 00-0555 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	7,618.87	752.54
27 15 23 00-0556 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0551)		
27 15 23 00-0557 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	5,492.76	752.54
27 15 23 00-0558 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	6,111.67	752.54
27 15 23 00-0559 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	8,818.97	752.54
27 15 33 Communications Coaxial Horizontal Cabling ^(27 15)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 33 00-0001 Indoor Coaxial Cable ^(27 15 33)		
27 15 33 00-0002 Coaxial Distribution Cable ^(27 15 33 00-0001)		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.		
27 15 33 00-0003 MLF RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	2,094.95	400.05
27 15 33 00-0004 MLF RG-6A/U Coaxial Distribution Cable, Installed In Conduit.....	6,647.61	400.05
27 15 33 00-0005 MLF RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	3,718.74	422.55
27 15 33 00-0006 MLF RG-8A/U Coaxial Distribution Cable, Installed In Conduit.....	4,573.92	422.55
27 15 33 00-0007 MLF RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	4,194.95	500.06
27 15 33 00-0008 MLF RG-11A/U Coaxial Distribution Cable, Installed In Conduit.....	5,848.81	500.06
27 15 33 00-0009 MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	12,261.72	700.08
27 15 33 00-0010 MLF RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	1,601.20	350.05
27 15 33 00-0011 MLF RG-58A/U Coaxial Distribution Cable, Installed In Conduit.....	1,770.66	350.05
27 15 33 00-0012 MLF RG-58C/U Coaxial Distribution Cable, Installed In Conduit.....	2,069.18	350.05
27 15 33 00-0013 MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	4,894.15	700.08
27 15 33 00-0014 MLF RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	2,392.90	350.05
27 15 33 00-0015 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,782.35	700.08
27 15 33 00-0016 MLF 1/2" Hard Line Coaxial, Installed In Conduit.....	2,215.18	500.06
27 15 33 00-0017 Coaxial, Indoor Telecommunications Cable ^(27 15 33 00-0001)		
27 15 33 00-0018 Coaxial, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 33 00-0017)		
27 15 33 00-0019 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,432.28	574.68
27 15 33 00-0020 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,785.68	574.68
27 15 33 00-0021 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,323.10	656.77
27 15 33 00-0022 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,455.63	656.77
27 15 33 00-0023 Coaxial, Indoor Telecommunications Cable, Installed Exposed ^(27 15 33 00-0017)		
27 15 33 00-0024 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	2,390.07	1,149.35
<i>For Work In Restricted Working Space, Add</i>		
	574.67	
27 15 33 00-0025 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	3,743.47	1,149.35
<i>For Work In Restricted Working Space, Add</i>		
	574.67	
27 15 33 00-0026 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114).....	2,417.72	1,313.54
<i>For Work In Restricted Working Space, Add</i>		
	656.77	
27 15 33 00-0027 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120).....	4,550.25	1,313.54
<i>For Work In Restricted Working Space, Add</i>		
	656.77	
27 15 33 00-0028 Outdoor Coaxial Cable ^(27 15 33)		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core ^(27 15 33 00-0028)		
Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	6,563.62	1,871.73
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	4,257.95	1,316.54
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	3,303.16	776.72
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	2,116.10	776.72
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,208.42	1,213.65
27 15 43 Communications Faceplates and Connectors ^(27 15)		
27 15 43 00-0001 Plastic Communications Faceplates ^(27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0035 for modular jacks.		
27 15 43 00-0002 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID.....	10.28	3.42
27 15 43 00-0003 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID.....	10.28	3.42
27 15 43 00-0004 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID.....	10.28	3.42
27 15 43 00-0005 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID.....	10.28	3.42
27 15 43 00-0006 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID.....	10.28	3.42
27 15 43 00-0007 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID.....	15.65	3.42
27 15 43 00-0008 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID.....	15.65	3.42



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-009 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	15.65	3.42
27 15 43 00-010 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	15.65	3.42
27 15 43 00-011 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	15.65	3.42
27 15 43 00-0012 Stainless Steel Communications Faceplates <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0035 for modular jacks.		
27 15 43 00-0013 Stainless Steel Communications Faceplates <small>(27 15 43 00-0012)</small>		
27 15 43 00-0014 EA One Port, Single Gang, Stainless Steel Communications Faceplate	18.60	3.42
27 15 43 00-0015 EA Two Port, Single Gang, Stainless Steel Communications Faceplate	18.60	3.42
27 15 43 00-0016 EA Three Port, Single Gang, Stainless Steel Communications Faceplate	18.60	3.42
27 15 43 00-0017 EA Four Port, Single Gang, Stainless Steel Communications Faceplate	19.82	3.42
27 15 43 00-0018 EA Six Port, Single Gang, Stainless Steel Communications Faceplate	19.82	3.42
27 15 43 00-0019 EA Four Port, Double Gang, Stainless Steel Communications Faceplate	26.39	3.42
27 15 43 00-0020 EA Six Port, Double Gang, Stainless Steel Communications Faceplate	27.15	3.42
27 15 43 00-0021 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate	31.27	3.42
27 15 43 00-0022 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate	31.27	3.42
27 15 43 00-0023 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate	31.27	3.42
27 15 43 00-0024 Stainless Steel Communications Faceplates With Station ID <small>(27 15 43 00-0012)</small>		
27 15 43 00-0025 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.23	3.42
27 15 43 00-0026 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.23	3.42
27 15 43 00-0027 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.23	3.42
27 15 43 00-0028 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.23	3.42
27 15 43 00-0029 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.23	3.42
27 15 43 00-0030 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	55.39	3.42
27 15 43 00-0031 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	55.39	3.42
27 15 43 00-0032 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	55.39	3.42
27 15 43 00-0033 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	55.39	3.42
27 15 43 00-0034 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	55.39	3.42
27 15 43 00-0035 Snap-In Modular Jacks <small>(27 15 43)</small>		
Note: Includes termination.		
27 15 43 00-0036 EA Cat 3, Snap-In Modular Jack	36.10	13.71
27 15 43 00-0037 EA Category 5E, Snap-In Modular Jack	37.78	13.71
27 15 43 00-0038 EA Category 5E Shielded, Snap-In Modular Jack	42.82	13.71
27 15 43 00-0039 EA Cat 6, Snap-In Modular Jack	42.82	13.71
27 15 43 00-0040 EA Cat 6 Shielded, Snap-In Modular Jack	48.46	13.71
27 15 43 00-0041 EA Cat 6A, Snap-In Modular Jack	49.32	13.71
27 15 43 00-0042 EA Voice, RJ-11, Snap-In Modular Jack	23.80	6.85
27 15 43 00-0043 EA SC Type Fiber Optic, Snap-In Modular Jack	39.92	13.71
27 15 43 00-0044 EA ST Type Fiber Optic, Snap-In Modular Jack	44.19	13.71
27 15 43 00-0045 EA LC Type Fiber Optic, Snap-In Modular Jack	52.58	13.71
27 15 43 00-0046 EA Blank Fill In, Snap-In Modular Jack	7.64	3.42
27 15 43 00-0047 EA Open Cable Pass Through Insert, Snap-In Modular Jack	8.63	3.42
27 15 43 00-0048 EA Coaxial F-Type Coupler, Snap-In Modular Jack	29.86	10.27
Note: Includes female to female connection.		
<i>For Gold Bulkhead, Add</i>		1.63
27 15 43 00-0049 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack	30.17	10.27
Note: Includes female to female connection.		
27 15 43 00-0050 EA RCA Solder Coupler, Snap-In Modular Jack	61.98	13.71
27 15 43 00-0051 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack	74.35	13.71
27 15 43 00-0052 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack	37.32	13.71
27 15 43 00-0053 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack	37.34	6.85
27 15 43 00-0054 EA BNC Connector, Snap-In Modular Jack	42.36	13.71
27 15 43 00-0055 EA S-Video With 110 Punch Down, Snap-In Modular Jack	46.94	13.71
27 15 43 00-0056 PR Speaker Connectors, Snap-In Modular Jack	62.55	20.55
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0057 EA USB Audio Video Connector, Snap-In Modular Jack	68.00	13.71
27 15 43 00-0058 Surface Mount Plastic Communication Boxes <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0035 for modular jacks.		
27 15 43 00-0059 EA One Port, Surface Mount Plastic Communication Box With Station ID	38.61	17.13
27 15 43 00-0060 EA Two Port, Surface Mount Plastic Communication Box With Station ID	39.37	17.13
27 15 43 00-0061 EA Four Port, Surface Mount Plastic Communication Box With Station ID	44.64	17.13
27 15 43 00-0062 EA Six Port, Surface Mount Plastic Communication Box With Station ID	50.90	17.13
27 15 43 00-0063 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID	57.46	17.13
27 15 43 00-0064 Wall Mounted Telephone Faceplates <small>(27 15 43)</small>		
Note: Includes standard telephone mounting studs.		
27 15 43 00-0065 Plastic Faceplates For Wall Mounted Telephones <small>(27 15 43 00-0064)</small>		
27 15 43 00-0066 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones	44.69	17.10
27 15 43 00-0067 Stainless Steel Faceplates For Wall Mounted Telephones <small>(27 15 43 00-0064)</small>		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0068 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	35.06	6.84
Note: Requires one snap-in modular jack.		
27 15 43 00-0069 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	63.07	17.10
27 15 43 00-0070 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	73.66	20.52
27 15 43 00-0071 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	33.81	6.84
Note: Requires one snap-in modular jack.		
27 15 43 00-0072 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	57.80	17.10
27 15 43 00-0073 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	68.52	20.52

27 15 53 Communications Cable Innerduct (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 53 00-0001 Indoor Innerduct (27 15 53)**27 15 53 00-0002 Indoor Innerduct, Installed In Conduit (27 15 53 00-0001)****27 15 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)**

27 15 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit	5,065.33	2,052.40
27 15 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit	6,597.10	2,736.54
27 15 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit	8,660.21	3,420.68
27 15 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit	10,171.54	4,104.81

27 15 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)

27 15 53 00-0009 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	6,842.61	1,368.27
27 15 53 00-0010 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit	7,695.52	2,052.40
27 15 53 00-0011 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	9,797.21	2,736.54
27 15 53 00-0012 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit	12,540.64	3,420.68
27 15 53 00-0013 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit	15,085.44	4,104.81

27 15 53 00-0014 Indoor Innerduct, Installed Exposed (27 15 53 00-0001)**27 15 53 00-0015 Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)**

27 15 53 00-0016 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed	6,433.60	2,736.54
For Work In Restricted Working Space, Add	1,641.92	
27 15 53 00-0017 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed	7,965.37	3,420.68
For Work In Restricted Working Space, Add	2,052.41	
27 15 53 00-0018 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed	10,028.48	4,104.81
For Work In Restricted Working Space, Add	2,462.89	
27 15 53 00-0019 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed	11,539.80	4,788.95
For Work In Restricted Working Space, Add	2,873.36	

27 15 53 00-0020 Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)

27 15 53 00-0021 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	8,210.88	2,052.40
27 15 53 00-0022 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed.....	9,063.79	2,736.54
For Work In Restricted Working Space, Add	1,641.92	
27 15 53 00-0023 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	11,165.48	3,420.68
For Work In Restricted Working Space, Add	2,052.41	
27 15 53 00-0024 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	13,908.91	4,104.81
For Work In Restricted Working Space, Add	2,462.89	
27 15 53 00-0025 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	16,453.70	4,788.95
For Work In Restricted Working Space, Add	2,873.36	

27 15 53 00-0026 Outdoor Innerduct (27 15 53)**27 15 53 00-0027 Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)**

27 15 53 00-0028 MLF 1" Outdoor Innerduct, Installed In Conduit	4,820.09	2,052.40
27 15 53 00-0029 MLF 1-1/4" Outdoor Innerduct, Installed In Conduit	6,235.46	2,736.54
27 15 53 00-0030 MLF 1-1/2" Outdoor Innerduct, Installed In Conduit	7,928.99	3,420.68
27 15 53 00-0031 MLF 2" Outdoor Innerduct, Installed In Conduit	9,479.55	4,104.81

27 15 53 00-0032 Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)

27 15 53 00-0033 MLF 1" Outdoor Innerduct, Buried In Trench	3,451.82	
27 15 53 00-0034 MLF 1-1/4" Outdoor Innerduct, Buried In Trench	4,867.19	
27 15 53 00-0035 MLF 1-1/2" Outdoor Innerduct, Buried In Trench	6,560.72	
27 15 53 00-0036 MLF 2" Outdoor Innerduct, Buried In Trench	8,111.28	

27 16 Communications Connecting Cords, Devices, and Adapters (27 10)**27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)****27 16 16 00-0001 Fiber Optic Receivers (27 16 16)**

27 16 16 00-0002 EA Fiber Optic Receiver, Range 6.2 Miles	848.19	68.41
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Communications	27
Structured Cabling	27 10
Communications Connecting Cords, Devices, and Adapters	27 16

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 16 00-0003 Fiber Optic Transmitters <small>(27 16 16)</small>		
27 16 16 00-0004 EA Fiber Optic Transmitter, Range 6.2 Miles	848.18	68.41
27 16 16 00-0005 Fiber Optic Repeaters <small>(27 16 16)</small>		
Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0006 EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power	985.01	136.83
27 16 16 00-0007 EA Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	1,573.23	273.66
27 16 16 00-0008 Fiber Optic Transceivers <small>(27 16 16)</small>		
27 16 16 00-0009 EA Fiber Optic Transceivers, 3,000 Miles Range	1,090.70	273.66
27 16 16 00-0010 EA Fiber Optic Transceivers, Digital 2,000 Miles Range	1,090.70	273.66
27 16 16 00-0011 EA Fiber Optic Ethernet Transceiver	1,421.59	410.48
27 16 16 00-0012 EA Transceiver (Low Cost Bi- Directional)	491.45	102.62
27 16 19 Communications Patch Cords, Station Cords, and Cross Connect Wire <small>(27 16)</small>		
27 16 19 00-0001 Fiber Optic Patch Cords <small>(27 16 19)</small>		
27 16 19 00-0002 Simplex Fiber Optic Patch Cables <small>(27 16 19 00-0001)</small>		
27 16 19 00-0003 Singlemode, Simplex Fiber Optic Patch Cables <small>(27 16 19 00-0002)</small>		
27 16 19 00-0004 EA ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	48.74	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0005 EA ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	40.28	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0006 EA ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	51.28	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0007 EA SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	42.21	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0008 EA SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	48.39	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0009 EA LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	47.70	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0010 Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0001)</small>		
27 16 19 00-0011 Singlemode, Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0010)</small>		
27 16 19 00-0012 EA ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	82.77	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0013 EA ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	80.39	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0014 EA ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	88.87	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0015 EA SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	69.73	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0016 EA SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	82.07	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0017 EA LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	80.72	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0018 Multimode, Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0010)</small>		
27 16 19 00-0019 EA ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	63.21	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0020 EA ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	68.74	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0021 EA ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	69.30	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0022 EA ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	71.08	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0023 EA SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	63.44	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024 EA SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	71.40	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025 EA SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	83.40	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026 EA MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	58.34	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027 EA LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	70.36	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028 Fiber Optic Cable Pig Tail <small>(27 16 19)</small>		
27 16 19 00-0029 EA Simplex Fiber Optic Cable Pig Tail	87.82	47.89
27 16 19 00-0030 EA Duplex Fiber Optic Cable Pig Tail	107.90	47.89
27 16 19 00-0031 Ethernet Patch Cords <small>(27 16 19)</small>		

27 Communications**27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, and Adapters**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0032	EA		3' Category 5E Patch Cables With Boots.....	17.05	
27 16 19 00-0033	EA		5' Category 5E Patch Cables With Boots.....	18.56	
27 16 19 00-0034	EA		7' Category 5E Patch Cables With Boots.....	20.08	
27 16 19 00-0035	EA		10' Category 5E Patch Cables With Boots.....	29.24	
27 16 19 00-0036	EA		15' Category 5E Patch Cables With Boots.....	36.79	
27 16 19 00-0037	EA		25' Category 5E Patch Cables With Boots.....	48.30	
27 16 19 00-0038	EA		3' Category 6 Patch Cables With Boots.....	18.84	
27 16 19 00-0039	EA		5' Category 6 Patch Cables With Boots.....	22.68	
27 16 19 00-0040	EA		7' Category 6 Patch Cables With Boots.....	22.75	
27 16 19 00-0041	EA		10' Category 6 Patch Cables With Boots.....	27.41	
27 16 19 00-0042	EA		15' Category 6 Patch Cables With Boots.....	36.21	
27 16 19 00-0043	EA		25' Category 6 Patch Cables With Boots.....	45.19	
27 16 19 00-0044	EA		50' Category 6 Patch Cables With Boots.....	70.43	
27 16 19 00-0045	EA		100' Category 6 Patch Cables With Boots.....	122.58	
27 16 19 00-0046	EA		3' Category 6A Patch Cables With Boots.....	34.45	
27 16 19 00-0047	EA		5' Category 6A Patch Cables With Boots.....	36.73	
27 16 19 00-0048	EA		7' Category 6A Patch Cables With Boots.....	38.43	
27 16 19 00-0049	EA		10' Category 6A Patch Cables With Boots.....	44.41	
27 16 19 00-0050	EA		15' Category 6A Patch Cables With Boots.....	54.08	
27 16 19 00-0051	EA		25' Category 6A Patch Cables With Boots.....	68.78	
27 16 19 00-0052	EA		50' Category 6A Patch Cables With Boots.....	101.77	
27 16 19 00-0053	EA		100' Category 6A Patch Cables With Boots.....	179.60	
27 16 19 00-0054	EA		3' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E03-06).....	17.05	
27 16 19 00-0055	EA		5' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E05-06).....	18.56	
27 16 19 00-0056	EA		7' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E07-06).....	20.08	
27 16 19 00-0057	EA		10' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E10-06).....	29.24	
27 16 19 00-0058	EA		15' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E15-06).....	36.79	
27 16 19 00-0059	EA		25' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E25-06).....	48.30	
27 16 19 00-0060	EA		3' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC603-06).....	18.84	
27 16 19 00-0061	EA		5' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC605-06).....	22.68	
27 16 19 00-0062	EA		7' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC607-06).....	22.75	
27 16 19 00-0063	EA		10' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC610-06).....	27.41	
27 16 19 00-0064	EA		15' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC615-06).....	36.21	
27 16 19 00-0065	EA		25' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC625-06).....	45.19	
27 16 19 00-0066	EA		3' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A03-09).....	34.45	
27 16 19 00-0067	EA		5' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A05-09).....	36.73	
27 16 19 00-0068	EA		7' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A07-09).....	38.43	
27 16 19 00-0069	EA		10' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A10-09).....	44.41	
27 16 19 00-0070	EA		15' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A15-09).....	54.08	
27 16 19 00-0071	EA		25' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A25-09).....	68.78	
27 16 19 00-0072 Cross Connect Wire (27 16 19)					
Note: Up to 20' length.					
27 16 19 00-0073	EA		2-Pair Cross Connect Wire.....	21.52	
27 16 19 00-0074	EA		3-Pair Cross Connect Wire.....	28.79	
27 16 19 00-0075	EA		4-Pair Cross Connect Wire.....	36.01	
27 20 Data Communications (27)					
27 21 Data Communications Network Equipment (27 20)					
Note: Includes testing of new devices and certification.					
27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems					
(27 21)					
27 21 16 00-0001 Fiber Optic Modems (27 21 16)					
27 21 16 00-0002	EA		Fiber Optic Modems, Range 6.2 Miles.....	1,732.89	273.66
27 21 16 00-0003	EA		Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	3,214.87	273.66
27 21 16 00-0004 Ethernet Hubs and Switches (27 21 16)					
27 21 16 00-0005	EA		16 Port Managed Hub With Fiberport And Standard Management.....	3,413.92	205.54
27 21 16 00-0006	EA		12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	4,646.82	137.03
27 21 16 00-0007	EA		Power Supply (Cisco PWR-IE170W-PC-AC).....	1,390.42	68.51
27 21 16 00-0008 Network Equipment (27 21 16)					
27 21 16 00-0009 Communications Entrance Protection (27 21 16 00-0009)					
27 21 16 00-0010	EA		100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	996.30	102.77
Note: Excludes terminations.					
27 21 16 00-0011	EA		Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	12.08	1.37
27 21 16 00-0012 Communications Cabinets, Racks, Frames And Enclosures (27 21 16 00-0008)					
27 21 16 00-0013	EA		19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,198.78	102.77
For Fan Kit (Chatsworth 12804-701), Add 159.55					
27 21 16 00-0014	EA		10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,050.60	6.85



		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0015					Communications Termination Blocks And Patch Panels (27 21 16 00-0008)		
27 21 16 00-0016					Communications Termination Blocks (27 21 16 00-0015)		
27 21 16 00-0017	EA				4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	375.87	20.52
27 21 16 00-0018	EA				5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	349.95	20.52
27 21 16 00-0019	EA				4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	835.95	20.52
27 21 16 00-0020	EA				5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	777.64	20.52
27 21 16 00-0021	EA				110 Connector System Mounting Brackets (CommScope 107535593).....	119.24	20.52
27 21 16 00-0022	EA				110 Connector System Mounting Brackets (CommScope 107535585).....	128.66	20.52
27 21 16 00-0023	EA				110 Connector System Mounting Brackets (CommScope 107098816).....	146.30	20.52
27 21 16 00-0024					Communications Copper Patch Panels (27 21 16 00-0015)		
					Note: Excludes cabinet and terminations.		
27 21 16 00-0025	EA				24 Port, Category 5E Patch Panel (CommScope 108208919).....	373.76	44.53
27 21 16 00-0026	EA				48 Port, Category 5E Patch Panel (CommScope 108208935).....	679.02	54.81
27 21 16 00-0027	EA				24 Port, Category 6 Patch Panel (CommScope 760062372).....	551.37	44.53
27 21 16 00-0028	EA				48 Port, Category 6 Patch Panel (CommScope 760062380).....	1,026.86	54.81
27 21 16 00-0029					Communications Optical Fiber Patch Panels (27 21 16 00-0015)		
27 21 16 00-0030					Closet Connector Housings (27 21 16 00-0029)		
27 21 16 00-0031	EA				48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	426.82	27.40
					Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0032	EA				96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	497.18	27.40
					Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0033	EA				288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	618.49	27.40
					Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0034	EA				SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	134.05	13.71
27 21 16 00-0035	EA				SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	181.77	13.71
27 21 16 00-0036	EA				SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	150.90	13.71
27 21 16 00-0037	EA				SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	197.19	13.71
27 21 16 00-0038					Communications Cable Management (27 21 16 00-0008)		
27 21 16 00-0039					Horizontal Communication Cable Management (27 21 16 00-0038)		
27 21 16 00-0040	EA				1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	143.92	27.40
27 21 16 00-0041	EA				3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	148.54	27.40
27 21 16 00-0042					Vertical Communication Cable Management (27 21 16 00-0038)		
27 21 16 00-0043	EA				6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	838.02	68.51
27 21 16 00-0044	EA				19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	867.91	68.51
27 21 16 00-0045	EA				23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	935.18	68.51
27 21 16 00-0046					Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0008)		
27 21 16 00-0047					Premise Cross-Connect Wire (27 21 16 00-0046)		
27 21 16 00-0048	LF				1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.42	0.68
27 21 16 00-0049					Pathways For Communications Systems (27 21 16 00-0008)		
27 21 16 00-0050					Conduits And Backboxes For Communication Systems (27 21 16 00-0049)		
27 21 16 00-0051					Flexible Conduit For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052	CLF				1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton DF4X1C).....	558.35	246.29
27 21 16 00-0053	CLF				1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton CF4X1C).....	799.89	246.29
27 21 16 00-0054					Tube Cables For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0055					Outdoor/All-Dielectric Tube Cables (27 21 16 00-0054)		
27 21 16 00-0056	CLF				Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	476.96	164.19
27 21 16 00-0057	CLF				Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX).....	711.53	205.24
27 21 16 00-0058	CLF				Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	1,182.63	246.29
27 21 16 00-0059					Indoor/Riser Rated Tube Cables (27 21 16 00-0054)		
27 21 16 00-0060	CLF				Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	547.33	164.19
27 21 16 00-0061	CLF				Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	669.50	184.71
27 21 16 00-0062	CLF				Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	760.40	205.24
27 21 16 00-0063	CLF				Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	1,403.52	246.29
27 21 16 00-0064					Indoor/Plenum Rated Tube Cables (27 21 16 00-0054)		
27 21 16 00-0065	CLF				Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	400.72	164.19
27 21 16 00-0066	CLF				Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	580.57	164.19

27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0067 CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2)	896.26	184.71
27 21 16 00-0068 CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	1,305.79	205.24
27 21 16 00-0069 CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2)	4,071.84	246.29
27 21 16 00-0070 Unjacketed Single Tube Cables (27 21 16 00-0054)		
27 21 16 00-0071 CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	345.99	164.19
27 21 16 00-0072 Multimode Fiber Bundles (27 21 16 00-0054)		
Note: Includes optical fiber cables.		
27 21 16 00-0073 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	148.56	49.26
27 21 16 00-0074 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	224.80	49.26
27 21 16 00-0075 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	306.90	49.26
27 21 16 00-0076 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	557.12	49.26
27 21 16 00-0077 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	807.33	57.46
27 21 16 00-0078 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	1,057.55	57.46
27 21 16 00-0079 Singlemode Fiber Bundles (27 21 16 00-0054)		
Note: Includes optical fiber cables.		
27 21 16 00-0080 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	132.93	49.26
27 21 16 00-0081 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX).....	166.16	49.26
27 21 16 00-0082 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX).....	193.52	49.26
27 21 16 00-0083 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX).....	246.30	49.26
27 21 16 00-0084 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX).....	377.27	57.46
27 21 16 00-0085 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX).....	496.52	57.46
27 21 16 00-0086 Tube Distribution Cabinets (27 21 16 00-0054)		
27 21 16 00-0087 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	289.05	68.51
Note: Up to six 7-tube cables or two 19-tube cables.		
27 21 16 00-0088 Modular Fiber Termination Cabinets (27 21 16 00-0054)		
27 21 16 00-0089 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	365.70	68.51
27 21 16 00-0090 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	389.94	68.51
27 21 16 00-0091 Tube Distribution Accessories (27 21 16 00-0054)		
27 21 16 00-0092 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	16.43	6.85
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2).....	18.13	6.85
27 21 16 00-0094 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	22.51	6.85
27 21 16 00-0095 Communications Optical Fiber Cabling (27 21 16 00-0008)		
27 21 16 00-0096 Communications Optical Fiber Cable Splicing And Terminations (27 21 16 00-0095)		
27 21 16 00-0097 Field Installed Fiber Connectors (27 21 16 00-0096)		
27 21 16 00-0098 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	48.07	10.27
27 21 16 00-0099 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	42.46	10.27
27 21 16 00-0100 Buffer Tube Fan-Out Kits (27 21 16 00-0096)		
27 21 16 00-0101 Buffer Tube Breakout Kits (Sumitomo) (27 21 16 00-0100)		
Note: Includes 900 micron tubing.		
27 21 16 00-0102 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	297.12	136.83
27 21 16 00-0103 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	302.98	136.83
27 21 16 00-0104 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	308.16	136.83
27 21 16 00-0105 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	324.25	136.83
27 21 16 00-0106 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	346.26	136.83
27 21 16 00-0107 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	362.60	136.83
27 21 16 00-0108 Buffer Tube Fan-Out Kits (Corning) (27 21 16 00-0100)		
27 21 16 00-0109 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	299.83	136.83
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12).....	357.91	136.83
27 21 16 00-0111 Communications Copper Cabling (27 21 16 00-0008)		
27 21 16 00-0112 Copper Communications Cable Splicing And Terminations (27 21 16 00-0111)		
27 21 16 00-0113 Copper Communications Cable Splice Cases (27 21 16 00-0112)		
27 21 16 00-0114 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	1,136.61	273.66
27 21 16 00-0115 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	1,305.03	273.66
27 21 16 00-0116 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	1,864.70	273.66



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0117		Modular Splice Connectors <small>(27 21 16 00-0112)</small>		
27 21 16 00-0118	EA	25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25).....	145.00	68.41
27 21 16 00-0119	EA	25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25).....	143.18	68.41
27 21 16 00-0120	EA	25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25).....	145.04	68.41
27 21 16 00-0121	EA	25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25).....	144.79	68.41
27 21 26		Data Communications Network Management <small>(27 21)</small>		
27 21 26 00-0001		Data Communications Network Management <small>(27 21 26)</small>		
27 21 26 00-0002	EA	3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	587.06	34.21
27 21 26 00-0003	EA	2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	454.94	34.21
27 21 26 00-0004	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	629.49	34.21
27 21 26 00-0005	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	979.51	34.21
27 21 26 00-0006	EA	24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	92.50	
27 21 26 00-0007	EA	Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	434.97	20.52
27 21 26 00-0008	EA	Sennetech Code Translator (Pelco SCT_100_AD232).....	741.22	34.21
27 21 26 00-0009	EA	VPN Router (Cisco 819HG).....	4,688.28	438.48
27 21 26 00-0010	EA	Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	3,549.95	438.48
27 21 26 00-0011	EA	WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	16,524.74	164.19
27 21 26 00-0012	EA	SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis, 2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	493.77	
27 21 26 00-0013	EA	Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	11,023.11	164.19
27 21 26 00-0014	EA	Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	23,504.05	164.19
27 21 26 00-0015	EA	Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	550.88	13.71
27 21 26 00-0016	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	3,949.65	17.10
27 21 26 00-0017	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	3,490.60	17.10
27 21 26 00-0018	EA	13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	65.69	6.85
27 21 26 00-0019	EA	1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	234.29	68.41
27 21 26 00-0020	EA	Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	3,387.38	164.19
27 21 26 00-0021	EA	SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	649.69	
27 21 26 00-0022	EA	North America AC Type A Power Cable (Cisco CAB-TA-NA).....	24.18	6.85
27 21 26 00-0023	EA	350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	279.80	17.10
27 21 26 00-0024	EA	Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	683.96	17.13
27 21 26 00-0025	EA	1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM).....	97.70	6.85
27 21 26 00-0026	EA	Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	3,894.82	164.19
27 21 26 00-0027	EA	SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	652.29	
27 21 26 00-0028	EA	IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	586.45	17.10
27 21 26 00-0029	EA	IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IA).....	595.55	17.10
27 21 26 00-0030	EA	4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,386.40	164.19
27 21 26 00-0031	EA	Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	326.62	17.13
27 21 26 00-0032	EA	4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,502.58	17.13
27 21 26 00-0033	EA	Router (CISCO IR829).....	1,371.46	68.51
27 21 29		Data Communications Switches and Hubs <small>(27 21)</small>		
27 21 29 00-0001		Data Communications Multimedia Modular Patch Panels <small>(27 21 29)</small>		
Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0035 for modular jacks.				
27 21 29 00-0002	EA	12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	117.36	6.84
27 21 29 00-0003	EA	16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	129.39	6.84
27 21 29 00-0004	EA	24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	152.67	6.84
27 21 29 00-0005	EA	36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	159.82	6.84
27 21 29 00-0006	EA	48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	175.00	8.55
27 21 29 00-0007	EA	24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	165.74	6.84
27 21 29 00-0008	EA	48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	207.99	8.55
27 21 29 00-0009	EA	Rack Mount Rear Cable Management Bar.....	58.62	8.55
27 21 33		Data Communications Wireless Access Points <small>(27 21)</small>		
27 21 33 00-0001		Data Communications Wireless Access Points <small>(27 21 33)</small>		
27 21 33 00-0002	EA	Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	4,206.48	205.24
27 21 33 00-0003	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	9,959.71	205.24
27 21 33 00-0004	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	9,959.71	205.24
27 21 33 00-0005	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	1,709.56	205.24
27 21 33 00-0006	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	1,992.07	225.67
27 21 33 00-0007	EA	Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	5,381.63	225.67
27 21 33 00-0008	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	8,121.28	225.67
27 21 33 00-0009	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	8,121.28	225.67
27 21 33 00-0010	EA	50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	1,679.68	75.22
27 21 33 00-0011	EA	100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	1,702.68	75.22
27 21 33 00-0012	EA	Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	173.03	37.61

27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21	33 00-0013	EA	FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	1,429.34	
27 21	33 00-0014	EA	1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	544.84	68.41
27 21	33 00-0015	EA	Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-WH).....	457.46	68.41
27 21	33 00-0016	EA	Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	88.77	27.36
27 21	33 00-0017	EA	AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	69.56	
27 21	33 00-0018	EA	AirLink GX400 Power Cable (Sierra Wireless 2000380).....	42.03	
27 21	33 00-0019	EA	Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	305.67	68.41
27 21	33 00-0020	EA	Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	307.36	68.41
27 21	33 00-0021	EA	2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D).....	407.04	68.51
27 21	33 00-0022	EA	Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	993.25	102.77
27 21	33 00-0023	EA	Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	1,256.26	102.77
27 21	33 00-0024	EA	Magnetic Mount Cellular Antenna (Wilson Electronics 301125).....	77.89	20.52
27 21	33 00-0025	EA	Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	291.39	75.22
27 21	33 00-0026	EA	Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	874.02	75.22
27 21	33 00-0027	EA	Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC).....	4,158.67	68.51
27 21	33 00-0028	EA	Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,128.90	68.41

27 30 Voice Communications ⁽²⁷⁾

27 31 Voice Communications Switching and Routing Equipment ^(27 30)

Note: Includes testing of new devices and certification.

27 31 13 PBX/Key Systems ^(27 31)

27 31 13 00-0001 Interior PBX Telephone System ^(27 31 13)

Note: Includes telephone instruments cabling and solid state switching.

27 31 13 00-0002 Interior PBX Telephone System ^(27 31 13 00-0001)

Note: Cost is for each line up to 1000 lines.

27 31	13 00-0003	EA	1 Line PBX Connection, Cost Per Each Line Up To 1,000	1,865.22	713.33
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27 31 13 00-0004 Additional Telephones Less Solid State Switching (PBX) ^(27 31 13 00-0001)

27 31	13 00-0005	EA	Add For Each Additional PBX Phone Line Less Solid State Switching.....	555.26	56.10
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27 31 13 00-0006 Telephones ^(27 31 13 00-0001)

27 31	13 00-0007	EA	Telephones, Desk Type Intercommunication Equipment.....	232.21	53.36
27 31	13 00-0008	EA	Telephones, Wall Type Intercommunication Equipment.....	268.18	71.15

27 32 Voice Communications Terminal Equipment ^(27 30)

Note: Includes testing of new devices and certification.

27 32 13 Telephone Sets ^(27 32)

27 32 13 00-0001 Interior Telephone Components ^(27 32 13)

27 32	13 00-0002	EA	Solid State Exchange Unit With Power Supply	6,750.02	1,250.33
27 32	13 00-0003	EA	Dial Telephone - Handset In Cabinet.....	790.28	102.21
27 32	13 00-0004	EA	Elevator Cab Telephone With Trailer Cable.....	425.43	109.59
27 32	13 00-0005	EA	Loud Ring Bell, 6"	340.40	101.66
27 32	13 00-0006	EA	Audio/Visual Indicator	419.53	95.78
27 32	13 00-0007	EA	Administrative Telephone With Digital Display.....	431.16	85.93
27 32	13 00-0008	EA	Processing Unit For 16 Station System	2,252.52	700.96
27 32	13 00-0009	EA	Handset For 16 Station System	307.89	69.79
27 32	13 00-0010	EA	Handset In Cabinet, For 16 Station System.....	416.89	94.13
27 32	13 00-0011	MLF	20 Conductor Unshielded Cable, #22	3,156.79	1,508.79
27 32	13 00-0012	EA	Power Supply For 16 Station System	428.67	186.22
27 32	13 00-0013	EA	Intercom Terminal Board	397.88	209.62
27 32	13 00-0014	EA	Power Supply For Five Station System, 24 Volt DC	442.50	186.22
27 32	13 00-0015	EA	Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick.....	209.79	76.51
27 32	13 00-0016	EA	Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	626.28	168.40
27 32	13 00-0017	EA	Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	736.46	191.40
27 32	13 00-0018	EA	Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	890.87	226.53
27 32	13 00-0019	EA	Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	1,041.98	244.90
27 32	13 00-0020	EA	Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,581.48	278.66
27 32	13 00-0021	EA	Ring Rung 3".....	14.17	7.63
27 32	13 00-0022	EA	G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	34.42	13.55
27 32	13 00-0023	EA	G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing.....	64.14	27.77

27 32 13 00-0024 Interior Telephone Accessories ^(27 32 13)

27 32	13 00-0025	EA	Blank Telephone Receptacle, Exposed Devices - Complete	15.26	7.38
27 32	13 00-0026	EA	4-Pin Telephone Receptacle, Exposed Devices - Complete.....	32.96	28.46
27 32	13 00-0027	EA	Dual Flush Mounted, Level 5, RJ-45 Jack, Complete	80.96	31.25
27 32	13 00-0028	EA	Wall Mount, Level 5, RJ-45 Jack, Complete	76.86	31.25
27 32	13 00-0029	EA	Terminating Strips, Inside	155.75	62.51
27 32	13 00-0030	EA	Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete.....	69.04	32.15



Communications	27
Voice Communications	27 30
Voice Communications Terminal Equipment	27 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 13 00-0031	EA		Ready Access Closure 3 To 25 Pair.....	188.23	75.39
27 32 13 00-0032	EA		Ready Access Closure 25 To 100 Pair.....	219.62	84.28
27 32 13 00-0033	EA		Termination Block With Bracket 25 Pair.....	70.77	25.31
27 32 13 00-0034	EA		RJ-11 Telephone Receptacle, Concealed Devices - Complete.....	67.79	31.74
27 32 13 00-0035	EA		Interior Protected Terminal 25 Pair.....	792.34	182.80
27 32 13 00-0036	EA		Interior Protected Terminal 50 Pair.....	935.34	185.67
27 32 13 00-0037	EA		Pedestal 6" x 6" x 50" 3 To 100 Pair.....	315.91	76.08
27 32 13 00-0038	EA		Pedestal 8" x 8" x 50" 100 To 300 Pair.....	325.75	76.08
27 32 13 00-0039	EA		Pedestal 10" x 10" x 43" 300 To 600 Pair.....	429.76	97.28
27 32 13 00-0040	EA		Pedestal 10" x 16" x 439 600 Pair.....	888.41	175.27
27 32 13 00-0041	EA		Entrance Protector Terminal 100 Pair.....	1,223.89	200.04
27 32 13 00-0042	EA		Gas Protection Module.....	19.44	6.84
27 32 13 00-0043	EA		Terminating Boxes, Outside With 3 Element Protectors, Per Pair.....	33.00	6.25

27 32 26 Ring-Down Emergency Telephones (27 32)

27 32 26 00-0001		Emergency Telephone (27 32 26) Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.		
27 32 26 00-0002	EA	Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s).....	10,002.36	560.26
27 32 26 00-0003	EA	Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)..... Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, blank stainless steel plate second opening, hard wire phone line, passive vent at top, 24V AC, and standard color.	10,482.97	560.26
27 32 26 00-0004	EA	Analog Speakerphone With Black "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2).....	160.20	
27 32 26 00-0005	EA	Analog Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2-K).....	240.30	
27 32 26 00-0006	EA	IP Speakerphone With Single Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP1).....	600.76	
27 32 26 00-0007	EA	IP Speakerphone With Back "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2).....	817.03	
27 32 26 00-0008	EA	IP Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2-K).....	897.13	
27 32 26 00-0009	EA	EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option.....	16.02	
27 32 26 00-0010	EA	EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option.....	16.02	
27 32 26 00-0011	EA	Directory, Second Opening Code Blue Option.....	144.18	
27 32 26 00-0012	EA	Camera Enclosure With Color IP Camera, Second Opening Code Blue Option.....	1,521.92	
27 32 26 00-0013	EA	HID Card Reader, Second Opening Code Blue Option.....	704.89	
27 32 26 00-0014	EA	HID Card Reader And Color IP Camera, Second Opening Code Blue Option.....	2,282.88	
27 32 26 00-0015	EA	IP Wireless Communication Code Blue Option..... Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.	4,798.04	
27 32 26 00-0016	EA	Active Venting Code Blue Option.....	256.32	
27 32 26 00-0017	EA	Night Charge Power Code Blue Option..... Note: Requires 120V AC external power supplied to Code Blue unit.	2,234.82	
27 32 26 00-0018	EA	Power Transformer Kit, Alternate Incoming Power Code Blue Option.....	560.71	
27 32 26 00-0019	EA	Overhead Camera Mount Code Blue Option..... Note: Excludes camera.	1,273.60	
27 32 26 00-0020	EA	Custom Color For Overhead Camera Mount Code Blue Option.....	56.07	

27 32 26 00-0021 City Police Call System (27 32 26)

27 32 26 00-0022		Components (27 32 26 00-0021)		
27 32 26 00-0023	EA	City Police Call System.....	791.14	159.54
27 32 26 00-0024	EA	Concrete Foundation For Police Department Telephone Post.....	744.48	231.10

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001		Television Distribution System (27 41 16) See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0309 for basic wiring.		
27 41 16 00-0002		Mounted Television Support (27 41 16 00-0001)		
27 41 16 00-0003	EA	Ceiling Mounted Television Support, 19" To 20".....	480.77	153.47
27 41 16 00-0004	EA	Ceiling Mounted Television Support, 19" To 20" With Rack.....	606.89	171.28
27 41 16 00-0005	EA	Ceiling Mounted Television Support, 25" To 27".....	498.55	153.47
27 41 16 00-0006	EA	Ceiling Mounted Television Support, 25" To 27" With Rack.....	624.67	171.28
27 41 16 00-0007	EA	Wall Mounted Television Support, 13".....	379.82	123.32
27 41 16 00-0008	EA	Wall Mounted Television Support, 13" With Rack.....	505.91	137.03
27 41 16 00-0009	EA	Wall Mounted Television Support, 19" To 20".....	403.16	123.32
27 41 16 00-0010	EA	Wall Mounted Television Support, 19" To 20" With Rack.....	529.25	137.03

27	Communications
27 40	Audio-Video Communications
27 41	Audio-Video Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 16 00-0011 EA Wall Mounted Television Support, 25" To 27".....	426.49	123.32
27 41 16 00-0012 EA Wall Mounted Television Support, 25" To 27" With Rack	552.59	137.03
27 41 16 00-0013 Distribution System (27 41 16 00-0001) See CSI section 26 05 13 16-0001 for wire and cabling.		
27 41 16 00-0014 TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015 EA Steel Rack Cabinet With Shelves	1,518.71	251.62
27 41 16 00-0016 EA Switch And Pilot Light.....	265.66	111.79
27 41 16 00-0017 LF Surface Raceway With Outlets	32.55	15.19
27 41 16 00-0018 EA Service Label	39.77	20.93
27 41 16 00-0019 Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020 EA Head End Amplifier.....	1,013.12	167.48
27 41 16 00-0021 UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022 EA UHF In-Line Booster	619.85	167.48
27 41 16 00-0023 Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024 EA VHF Preamplifier.....	758.33	167.48
27 41 16 00-0025 EA UHF Preamplifier	619.85	167.48
27 41 16 00-0026 Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027 EA Common Power Supply	1,083.33	239.31
27 41 16 00-0028 Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029 EA Line Splitter	107.89	55.83
27 41 16 00-0030 EA Two-Way Splitter.....	118.92	55.83
27 41 16 00-0031 EA Frequency Filter	247.68	83.87
27 41 16 00-0032 EA Line Splitter And Mixer.....	328.16	123.14
27 41 16 00-0033 Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034 EA 120-Volt Power Supply Line Filter.....	459.51	111.79
27 41 16 00-0035 Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41 16 00-0036 EA Wall Box With Lockable Cover, Excluding Outlet Plug.....	247.68	83.87
27 41 16 00-0037 EA TV Receiver Outlet Plug	118.92	55.83
27 41 16 00-0038 EA TV Camera Outlet Plug.....	118.92	55.83
27 41 16 00-0039 EA Audio Outlet Plug.....	105.11	55.83
27 41 16 00-0040 EA 12 Ft RG 6U Cable With G-59 And TV Set Fittings.....	217.18	111.79
27 41 16 00-0041 EA Male Plug PL-259	118.92	55.83
27 41 16 00-0042 EA Wall Box And Receiver Outlet Television Outlets	145.85	58.56
27 41 33 Master Antenna Television Systems (27 41)		
27 41 33 00-0001 Antenna Systems (27 41 33)		
27 41 33 00-0002 Antenna (27 41 33 00-0001)		
27 41 33 00-0003 EA Amateur Radio Antenna.....	962.13	205.24
27 41 33 00-0004 EA Multi-Band Radio Antenna.....	763.76	205.24
27 41 33 00-0005 Receptacles (27 41 33 00-0001)		
27 41 33 00-0006 EA Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter	233.84	83.87
27 41 33 00-0007 EA Multi-Band Radio Antenna System Receptacle With Mating Plugs	233.84	83.87
27 50 Distributed Communications and Monitoring Systems (27)		
27 51 Distributed Audio-Video Communications Systems (27 50)		
27 51 17 Video Intercom and Exterior Gate Control System (27 51)		
27 51 17 00-0001 Video Intercom And Exterior Gate Control System (27 51 17)		
27 51 17 00-0002 EA Audio Video Master Control Station (Aiphone AX-8MV)	1,335.52	171.28
27 51 17 00-0003 EA 16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	567.24	171.28
27 51 17 00-0004 EA Central Exchange Unit (Aiphone AX-084C).....	1,575.88	85.64
27 51 17 00-0005 EA Central Exchange Unit (Aiphone AX-248C).....	2,146.19	85.64
27 51 17 00-0006 EA Touch Tone Programmable Dialer (Viking K-1900-5)	168.32	34.26
27 51 17 00-0007 EA Surface Mount Audio/Video Door Station (Aiphone AX-DV)	506.86	34.26
27 51 17 00-0008 EA Flush Mount Audio/Video Door Station (Aiphone AX-DVF)	571.27	34.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 17 00-0009 EA 12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL) Note: UL Listed	155.23	17.13
27 51 17 00-0010 EA 24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL) Note: UL Listed	169.38	17.13
27 51 17 00-0011 EA IP Video Master Station (Aiphone IX-MV).....	1,690.60	171.28
27 51 17 00-0012 EA Handset Only For IX-MV (Aiphone 285999)	72.12	6.85
27 51 17 00-0013 EA Hands Free Sub Master Video Monitor (Aiphone JF-2HD).....	864.18	171.28
27 51 17 00-0014 EA Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	763.40	34.26
27 51 17 00-0015 EA Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	247.63	34.26
27 51 17 00-0016 EA Stainless Steel Surface Mount Box, IS-DVF, IS-IPDVF And IS-SS Compatible (Aiphone SBX-ISDVF).....	268.54	34.26
27 51 17 00-0017 EA Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF)	275.90	34.26
27 51 17 00-0018 EA Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A)	327.45	51.38
27 51 17 00-0019 EA Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880)	77.96	17.13
27 51 43 Sound Reinforcement (27 51)		
Note: Includes testing of new devices and certification.		
27 51 43 00-0001 Amplifiers (27 51 43)		
27 51 43 00-0002 EA 10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10)	525.39	137.03
27 51 43 00-0003 EA 35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35)	713.79	137.03
27 51 43 00-0004 EA 60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60)	834.73	137.03
27 51 43 00-0005 EA 100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	921.02	137.03
27 51 43 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	1,130.10	137.03
27 51 43 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,442.76	137.03
27 51 43 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK)	57.97	6.85
27 51 43 00-0009 Splitters (27 51 43)		
27 51 43 00-0010 EA 24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE)	2,792.59	102.62
27 51 43 00-0011 EA 1-in/11-out Splitter (Doug Fleenor DMX)	2,524.35	102.62
27 51 43 00-0012 Speakers (27 51 43)		
27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W)	225.43	36.67
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8)	65.69	6.84
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8).....	72.27	6.84
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408)	107.53	6.84
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA)	107.62	12.31
27 51 43 00-0018 Accessories (27 51 43)		
27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	273.51	17.13
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	603.35	17.13
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A).....	168.61	34.26
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A)	296.92	34.26
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	221.89	34.21
27 51 43 00-0024 EA Microphone Jack For Audio/Video System	112.39	34.26
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18)	869.90	137.03
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A).....	108.23	34.26
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	81.35	34.26
27 51 43 00-0028 Removal And Reinstallation Of Speakers (27 51 43)		
Note: Includes storage, cleaning and supply materials.		
27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker.....	191.56	
27 52 Healthcare Communications and Monitoring Systems (27 50)		
27 52 23 Nurse Call/Code Blue Systems (27 52)		
27 52 23 00-0001 Wireless Equipment Nurses Call Systems (27 52 23)		
Note: Includes all mounting hardware, batteries, cable and connections. Teletronic.		
27 52 23 00-0002 Wireless Nurses Call System (27 52 23 00-0001)		
27 52 23 00-0003 EA NurseCall Main Unit (Rechargeable Battery Included); NCM2	7,268.84	
27 52 23 00-0004 EA NurseCall Main Unit (Rechargeable Battery Included) 300+ Transmitters; NCM2S	8,159.20	
27 52 23 00-0005 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 1-5 Units; NCL2	5,086.48	
27 52 23 00-0006 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 6-10 Units; NCL2	4,144.51	
27 52 23 00-0007 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 11-15 Units; NCL2	3,733.54	
27 52 23 00-0008 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 16+ Units; NCL2	3,322.41	
27 52 23 00-0009 EA Resident Bed Station With Relay; N45	844.02	
27 52 23 00-0010 EA Bed Push Button For Use With N45 (9); RB13-9	413.79	
27 52 23 00-0011 EA Pull Cord Replacement For S35; S35PC	30.58	
27 52 23 00-0012 EA Wall Mount Pull-Cord Transmitter/Mounting Hardware - Auto Supervision; S35S	605.16	
27 52 23 00-0013 EA Wall Mount Pull-Cord Transmitter/Mounting Hardware - Assist Tone; S35A	605.16	
27 52 23 00-0014 EA Remote Reset Button; S35R	588.27	
27 52 23 00-0015 EA Waterproof Wrist Transmitter (Automatic Supervision); S37	411.37	
27 52 23 00-0016 EA Wrist Band Replacement For S37; S37WB	37.82	
27 52 23 00-0017 EA Locate 1 Waterproof Wrist Transceiver; S37L	500.65	

27 Communications
27 50 Distributed Communications and Monitoring Systems
27 52 Healthcare Communications and Monitoring Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 52 23 00-0018	EA		Locate 1 Beacon; IS75.....	1,590.25	
27 52 23 00-0019	EA		Wireless Smoke Detector Transmitter; SD35	1,028.20	
27 52 23 00-0020	EA		Wireless Door Contact Transmitter; RAC35	808.63	
27 52 23 00-0021	EA		Wireless Time Controlled Door Contact; RAC45	808.63	
27 52 23 00-0022	EA		Local Receiver With Relay (110 Volt AC); LE9	992.01	
27 52 23 00-0023	EA		Voice Response Unit (Rechargeable Battery Included); S10	1,695.75	
27 52 23 00-0024	EA		Alarm Receiving Unit (Rechargeable Battery Included); ARU	3,345.50	
27 52 23 00-0025	EA		NurseCall Programming Software; NPS	9,112.92	
27 52 23 00-0026	EA		NurseCall Printer Interface; NCPI	3,113.62	
27 52 23 00-0027	EA		NurseCall Computer Center (Includes NurseCall Software, PC, Monitor, Printer And UPS); NCCN	15,965.27	
27 52 23 00-0028	EA		9V NiMH Rechargeable Battery (Replacement For S10, NCM2, And NCL2); NMH9R	76.02	
27 52 23 00-0029	EA		6V Lithium Battery (Replacement For S35 And RAC35); LIT6	68.79	
27 52 23 00-0030	EA		9V Alkaline Battery (Replacement For N45); ALK9	35.01	
27 52 23 00-0031	EA		Giant LED Single Sided Display; NCGD	15,691.54	
27 52 23 00-0032	EA		Serial Printer; NCSP	1,644.43	
27 52 23 00-0033	EA		Modular Duplex T-Adapter (Replacement For S10); SE-486A	35.41	
27 52 23 00-0034	EA		AC Adapter (Replacement For S10); STA-4110A	64.36	
27 52 23 00-0035	EA		S10 Phone Cord (Replacement For S10); STC	35.41	
27 52 23 00-0036	EA		Waveware Paging System, Use With NCCN (Dell Computer); SPS-5	7,057.21	
27 52 23 00-0037	EA		Waveware Pagers; DAP-040	992.53	
27 52 23 00-0038			Wireless Nurses Call Tele/Management System (27 52 23 00-0001)		
27 52 23 00-0039	EA		Tele/Management Unit; TP12	4,142.99	
27 52 23 00-0040	EA		Tele/Management Software; TP12S	3,740.85	
27 52 23 00-0041			Wireless Nurses Call Paging System (27 52 23 00-0001)		
27 52 23 00-0042	EA		Standard Paging System (2.5 Watt Transmitter); RPE673	11,781.82	
27 52 23 00-0043	EA		Removal And Replacement Of Antenna For RPE673; RPE673AN	822.03	
27 52 23 00-0044	EA		Removal And Replacement Of Power For RPE673; RPE673PS	1,097.08	
27 52 23 00-0045	EA		Alphanumeric Pager; RPR583	1,335.95	
27 52 23 00-0046	EA		Removal And Replacement Of Holster For RPR583; RPR583H	78.02	
27 52 23 00-0047			Equipment Nurses Call Systems (27 52 23)		
27 52 23 00-0048	EA		Nurses Call System, Page/Talk Relay Intercommunication Equipment	275.76	71.15
27 52 23 00-0049	EA		Nurses Call System, Main Equipment Panel Intercommunication Equipment	2,728.39	284.60
27 52 23 00-0050	EA		Nurses Call System, Re-Entrant Horn Intercommunication Equipment	299.25	93.04
27 52 23 00-0051	EA		Nurses Call System, Nurses Control Station Intercommunication Equipment	1,508.63	273.66
27 52 23 00-0052	EA		Nurses Call System, Duty Station Intercommunication Equipment	731.82	213.45
27 52 23 00-0053	EA		Nurses Call System, Staff Station Intercommunication Equipment	364.51	71.15
27 52 23 00-0054	EA		Nurses Call System, Single Bedside Station Intercommunication Equipment	346.97	71.15
27 52 23 00-0055	EA		Nurses Call System, Double Bedside Station Intercommunication Equipment	537.66	124.51
27 52 23 00-0056	EA		Nurses Call System, Emergency Call Button Intercommunication Equipment	168.52	54.73
27 52 23 00-0057	EA		Nurses Call System, Pull Cord Button Intercommunication Equipment	157.23	54.73
27 52 23 00-0058	EA		Nurses Call System, Single Dome Light Intercommunication Equipment	112.20	35.58
27 52 23 00-0059	EA		Nurses Call System, Double Dome Light Intercommunication Equipment	163.69	54.73
27 52 23 00-0060	EA		Nurses Call System, Pillow Speaker Intercommunication Equipment	228.71	35.58
27 52 23 00-0061	EA		Nurses Call System, Cord Set Intercommunication Equipment	120.70	35.58
27 52 23 00-0062	EA		Nurse Call System, Master-20 Station	5,460.75	273.66
27 52 23 00-0063	EA		Dukane Duty Station - Tone Only, PC1000	966.75	213.59
27 53 Distributed Systems (27 50)					
27 53 13 Clock Systems (27 53)					
27 53 13 16 Wired Clock Systems (27 53 13)					
27 53 13 16-0001 Wired Self-Corrective Clock Systems (27 53 13 16)					
27 53 13 16-0002 Wired Self-Corrective Clocks (27 53 13 16-0001)					
27 53 13 16-0003 Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)					
27 53 13 16-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)					
27 53 13 16-0005	EA		12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	220.65	34.21
			For >50 To 100, Deduct	-16.33	
			For >100, Deduct	-22.42	
27 53 13 16-0006	EA		12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	492.36	34.21
			For >50 To 100, Deduct	-27.20	
			For >100, Deduct	-44.16	
27 53 13 16-0007	EA		16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	270.75	34.21
			For >50 To 100, Deduct	-20.36	
			For >100, Deduct	-28.45	
27 53 13 16-0008	EA		16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	642.67	34.21
			For >50 To 100, Deduct	-67.67	
			For >100, Deduct	-90.64	
27 53 13 16-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	220.65 -16.33 -22.42	34.21
27 53 13 16-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	492.36 -27.20 -44.16	34.21
27 53 13 16-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	270.75 -20.36 -28.45	34.21
27 53 13 16-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	642.67 -67.67 -90.64	34.21
27 53 13 16-0014 Accessories For Analog Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks.....	173.92	17.10
27 53 13 16-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	53.48	17.10
27 53 13 16-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	64.57	17.10
27 53 13 16-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	76.13	17.10
27 53 13 16-0019 EA Combination Back Box For Speaker And Clock.....	142.57	27.36
27 53 13 16-0020 Digital, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount..... <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	266.89 39.70 -11.91 -19.85	34.21
27 53 13 16-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount..... <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	397.93 65.90 -19.77 -32.95	34.21
27 53 13 16-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount..... <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	266.89 39.70 -11.91 -19.85	34.21
27 53 13 16-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount..... <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	397.93 65.90 -19.77 -32.95	34.21
27 53 13 16-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	231.73 -9.80 -16.33	34.21
27 53 13 16-0029 EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	366.14 -17.86 -29.77	34.21
27 53 13 16-0030 Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	231.73 -9.80 -16.33	34.21
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	366.14 -17.86 -29.77	34.21
27 53 13 16-0033 Accessories For Digital Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	232.69	17.10
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	65.04	17.10
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	85.28	17.10
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks	204.75	17.10
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	66.49	17.10
27 53 13 16-0039 Wired Self-Corrective Master Clocks (27 53 13 16-0001)		
27 53 13 16-0040 Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	2,470.49	273.66
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	2,615.02	273.66
27 53 13 16-0043 Accessories For Wired Self-Corrective Master Clocks (27 53 13 16-0039)		

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0044 EA 5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	282.81	68.41
27 53 13 16-0045 EA 10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	313.15	68.41
27 53 13 16-0046 Other Clock And Program Systems <small>(27 53 13 16)</small>		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	1,670.97	136.83
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,077.11	273.66
27 53 13 16-0049 EA Program Bell (Lathem 906-6).....	271.39	68.41
27 53 13 16-0050 EA Combination Clock And Speaker	624.35	171.03

END OF SECTION 27



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 05 Common Work Results for Electronic Safety and Security ⁽²⁸⁾

28 05 26 Grounding and Bonding for Electronic Safety and Security ^(28 05)
 See CSI section 26 05 26 00-0000 for grounding and bonding.

28 05 53 Identification for Electronic Safety and Security ^(28 05)
 See CSI section 26 05 53 00-0000 for identification.

28 10 Access Control ⁽²⁸⁾

Note: Includes testing of new devices and certification.

28 15 Integrated Access Control Hardware Devices ^(28 10)

28 15 11 Integrated Credential Readers and Field Entry Management ^(28 15)

28 15 11 13 Keypads ^(28 15 11)

28 15 11 13-0001 Vindicator Security Alarm System ^(28 15 11 13)

28 15 11 13-0002	EA	Switch, Balanced Magnetic Door (Security) Vindicator #192-30894-00.....	1,584.80	285.29
28 15 11 13-0003	EA	Detector, Passive Infrared (Security) Vindicator #316-30812-00.....	1,999.18	370.80
28 15 11 13-0004	EA	Premise Control Unit (Security) Vindicator #548-32004-01.....	9,908.22	812.75
28 15 11 13-0005	EA	Access Manager (Security Key Pad) Vindicator #548-31894-01.....	4,649.83	692.62
28 15 11 13-0006	EA	ALS Duress Switch (Security) Vindicator #192-30810-00.....	1,319.42	378.87

28 16 Access Control Interfaces ^(28 10)

28 16 11 Access Control Interfaces to Access Control Hardware ^(28 16)

28 16 11 00-0001 Stand Alone Access Controls ^(28 16 11)

28 16 11 00-0002 Push Button Controls, Stand Alone Access Controls ^(28 16 11 00-0001)

28 16 11 00-0003 Interior Mount, Push Button Controls, Stand Alone Access Controls ^(28 16 11 00-0002)

28 16 11 00-0004	EA	Exit Push Button, Push Button Controls, Interior Stand Alone Access Controls..... Note: Controls mount to a standard mullion.	129.39	34.21
28 16 11 00-0005	EA	Exit Push Button, Push Button Controls, Interior Stand Alone Access Controls..... Note: Controls mount into a single gang electrical box. Excludes electrical box.	134.47	34.21
28 16 11 00-0006	EA	Three Button, Push Button Controls, Interior Stand Alone Access Controls For Gate Operators..... Note: Controls mount into a single gang electrical box. Excludes electrical box.	163.69	34.21

28 16 11 00-0007 Exterior Mount, Push Button Controls, Stand Alone Access Controls ^(28 16 11 00-0002)

Note: Includes a lockable, gasketed 16 gauge steel enclosure. Excludes mounting posts.				
28 16 11 00-0008	EA	Handicap/Push To Open, Push Button Controls, Exterior Stand Alone Access Controls..... Note: Controls mount into a single gang electrical box. Excludes electrical box.	156.49	34.21
28 16 11 00-0009	EA	42" High Aluminum Post With Handicap/Push To Open, Push Button Controls, Exterior Stand Alone Access Controls..... Note: Includes post, mounting base and push button control. Excludes concrete foundation.	711.72	102.62
28 16 11 00-0010	EA	Three Button, Exterior Stand Alone Access Controls For Gate Operators..... Note: Includes open, close and stop controls.	239.92	34.21

28 16 11 00-0011 Key Controls, Stand Alone Access Controls ^(28 16 11 00-0001)

28 16 11 00-0012 Interior Mount, Key Controls, Stand Alone Access Controls ^(28 16 11 00-0011)

28 16 11 00-0013	EA	Standard Mortise Key, Key Controls, Interior Stand Alone Access Controls..... Note: Controls mount into a single gang electrical box. Excludes electrical box.	173.22	34.21
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28 16 11 00-0014 Exterior Mount, Key Controls, Stand Alone Access Controls ^(28 16 11 00-0011)

Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.				
28 16 11 00-0015	EA	Postal Or Fire Department Lock Box, Key Controls, Exterior Stand Alone Access Controls..... Note: Opens door or gate with a postal or fire department key.	276.58	68.41
28 16 11 00-0016	EA	Standard Mortise Key, Key Controls, Exterior Stand Alone Access Controls.....	411.24	68.41
28 16 11 00-0017	EA	Ace Key, Key Controls, Exterior Stand Alone Access Controls.....	411.24	68.41
28 16 11 00-0018	EA	Standard Mortise Key And Push Button Intercom, Key Controls, Exterior Stand Alone Access Controls.....	604.35	68.41

28 16 11 00-0019 Keypad Controls, Stand Alone Access Controls ^(28 16 11 00-0001)

28 16 11 00-0020 Interior Mount, Keypad Controls, Stand Alone Access Controls ^(28 16 11 00-0019)

28 16 11 00-0021	EA	One Code Memory, Keypad Control, Interior Stand Alone Access Controls..... Note: Stores one 4-digit entry code and one 4-digit hold code. Controls mount into a single gang electrical box. Excludes electrical box.	233.57	34.21
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28 Electronic Safety and Security

28 10 Access Control

28 16 Access Control Interfaces



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0022			Exterior Mount, Keypad Controls, Stand Alone Access Controls (28 16 11 00-0019) Note: Includes a surface mounted lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0023			Keypad Controls, Exterior Stand Alone Access Controls (28 16 11 00-0022)		
28 16 11 00-0024	EA		1000 Code Memory, Keypad Control, Exterior Stand Alone Access Controls .....972.39	972.39	136.83
			Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes. <i>For Flush Mount, Add</i>	157.21	
28 16 11 00-0025			Keypad Controls With Push Button Intercom, Exterior Stand Alone Access Controls (28 16 11 00-0022)		
28 16 11 00-0026	EA		1000 Code Memory, Keypad Controls With Push Button Intercom, Exterior Stand Alone Access Controls.....1,171.75	1,171.75	153.93
			Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes. <i>For Flush Mount, Add</i>	194.38	
28 16 11 00-0027			RF Controls, Stand Alone Access Controls (28 16 11 00-0001)		
28 16 11 00-0028			Exterior Mount, RF Controls, Stand Alone Access Controls (28 16 11 00-0027) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0029			RF Receivers, RF Controls, Exterior Stand Alone Access Controls (28 16 11 00-0028) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0030	EA		50 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....616.67	616.67	136.83
28 16 11 00-0031	EA		100 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....685.28	685.28	136.83
28 16 11 00-0032	EA		250 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....751.34	751.34	136.83
28 16 11 00-0033	EA		500 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....822.48	822.48	136.83
28 16 11 00-0034	EA		1000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....888.55	888.55	136.83
28 16 11 00-0035	EA		5000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....959.69	959.69	136.83
28 16 11 00-0036	EA		16000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls.....1,025.75	1,025.75	136.83
28 16 11 00-0037			RF Transmitters, RF Controls, Exterior Stand Alone Access Controls (28 16 11 00-0028)		
28 16 11 00-0038	EA		1 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls.....43.19	43.19	
			<i>For >40 To 110, Deduct</i>	-2.16	
			<i>For >110, Deduct</i>	-4.32	
			<i>For Built In Proximity Tags, Add</i>	8.64	
28 16 11 00-0039	EA		2 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls.....45.74	45.74	
			<i>For >40 To 110, Deduct</i>	-2.29	
			<i>For >110, Deduct</i>	-4.57	
			<i>For Built In Proximity Tags, Add</i>	9.15	
28 16 11 00-0040	EA		3 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls.....48.28	48.28	
			<i>For >40 To 110, Deduct</i>	-2.41	
			<i>For >110, Deduct</i>	-4.83	
			<i>For Built In Proximity Tags, Add</i>	9.66	
28 16 11 00-0041			Accessories For RF Receivers, Exterior Stand Alone Access Controls (28 16 11 00-0028)		
28 16 11 00-0042	EA		Coax Antenna Kit For RF Receivers, Exterior Stand Alone Access Controls .....266.22	266.22	102.62
			Note: Includes 15' of coax cable.		
28 16 11 00-0043	EA		Antenna Amplifier For RF Receivers, Exterior Stand Alone Access Controls .....459.32	459.32	102.62
			Note: Includes 20' of coax cable.		
28 16 11 00-0044	EA		Yagi High-Gain Antenna Kit For RF Receivers, Exterior Stand Alone Access Controls.....423.75	423.75	102.62
			Note: Includes 15' of coax cable.		
28 16 11 00-0045			Proximity Card Controls, Stand Alone Access Controls (28 16 11 00-0001)		
28 16 11 00-0046			Exterior Mount, Proximity Card Controls, Stand Alone Access Controls (28 16 11 00-0045) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0047			DKS Proximity Card Controls, Exterior Stand Alone Access Controls (28 16 11 00-0046)		
28 16 11 00-0048			DKS Proximity Card Readers, Exterior Stand Alone Access Controls (28 16 11 00-0047)		
28 16 11 00-0049	EA		DKS Proximity Card Reader, Exterior Stand Alone Access Controls.....1,099.44	1,099.44	136.83
28 16 11 00-0050			AWID Proximity Card Controls, Exterior Stand Alone Access Controls (28 16 11 00-0046)		
28 16 11 00-0051			AWID Proximity Card Readers, Exterior Stand Alone Access Controls (28 16 11 00-0050)		
28 16 11 00-0052	EA		AWID Proximity Card Reader, Exterior Stand Alone Access Controls.....1,188.37	1,188.37	136.83
28 16 11 00-0053			HID Proximity Card Controls, Exterior Stand Alone Access Controls (28 16 11 00-0046)		
28 16 11 00-0054			HID Proximity Card Readers, Exterior Stand Alone Access Controls (28 16 11 00-0053)		
28 16 11 00-0055	EA		HID Proximity Card Reader, Exterior Stand Alone Access Controls.....1,391.63	1,391.63	136.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0056	Magnetic Stripe Card Controls, Stand Alone Access Controls <small>(28 16 11 00-0001)</small>	
28 16 11 00-0057	Interior Mount, Magnetic Stripe Card Controls, Stand Alone Access Controls <small>(28 16 11 00-0056)</small>	
28 16 11 00-0058	EA Magnetic Stripe Reader, Interior Stand Alone Access Controls.....	692.90 136.83
28 16 11 00-0059	Exterior Mount, Magnetic Stripe Card Controls, Stand Alone Access Controls <small>(28 16 11 00-0056)</small>	
	Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.	
28 16 11 00-0060	EA Magnetic Stripe Reader, Exterior Stand Alone Access Controls.....	836.37 136.83
28 16 11 00-0061	Other Stand Alone Access Controls <small>(28 16 11 00-0001)</small>	
28 16 11 00-0062	EA Toggle Switch, Interior Access Controls For Gate Operators	125.58 34.21
	Note: Controls mount into a single gang electrical box. Excludes electrical box.	
28 16 11 00-0063	EA Request To Exit Motion Detector (Bosch Security Systems DS160)	135.68 27.36
28 16 11 00-0064	Wiegand Output Access Controls <small>(28 16 11)</small>	
	Note: Excludes controllers.	
28 16 11 00-0065	Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>	
28 16 11 00-0066	DKS, Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0065)</small>	
28 16 11 00-0067	DKS, Proximity Cards <small>(28 16 11 00-0066)</small>	
28 16 11 00-0068	EA Clamshell Type, DKS Proximity Card (DKS 170).....	6.76
28 16 11 00-0069	EA ISO Compliant Graphics Card, DKS Proximity Card (DKS 80).....	11.15
28 16 11 00-0070	EA DKS Proximity Key Fob (DKS 50).....	11.74
28 16 11 00-0071	EA Active Tag, DKS Proximity Tag (DKS 150)	66.40
	Note: Battery powered tag to boost signal.	
28 16 11 00-0072	EA Active Tag, DKS Proximity Tag (DKS 200)	86.56
	Note: Battery powered tag to boost signal.	
28 16 11 00-0073	DKS, Proximity Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0066)</small>	
28 16 11 00-0074	EA Up To 2" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Small).....	477.24 171.03
28 16 11 00-0075	EA Up To 3" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Mullion)	477.24 171.03
28 16 11 00-0076	EA Up To 4" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Single Gang)	477.24 171.03
28 16 11 00-0077	EA Up To 30" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS).....	1,110.42 171.03
	Note: Includes mounting bracket and 12 Volt DC regulated power supply.	
28 16 11 00-0078	AWID, Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0065)</small>	
28 16 11 00-0079	AWID, Proximity Cards <small>(28 16 11 00-0078)</small>	
28 16 11 00-0080	EA Clamshell Type, AWID Proximity Card (AWID Prox-Linc CS).....	5.69
28 16 11 00-0081	EA ISO Compliant Graphics Card, AWID Proximity Card (AWID Prox-Linc GR).....	8.89
28 16 11 00-0082	EA AWID Proximity Key Fob (AWID Prox-Linc KT)	9.49
28 16 11 00-0083	EA Windshield Tag For LR 2000 Readers, AWID Proximity Tag	33.20
28 16 11 00-0084	EA Metal Mount Tag For LR 2000 Readers, AWID Proximity Tag	33.20
28 16 11 00-0085	AWID, Proximity Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0078)</small>	
28 16 11 00-0086	EA Up To 4" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID SR 2400)	555.50 171.03
	Note: For mullion mounting.	
28 16 11 00-0087	EA Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6800)	726.25 171.03
	Note: For mullion mounting.	
28 16 11 00-0088	EA Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6820)	726.25 171.03
	Note: For single gang electrical box mounting.	
28 16 11 00-0089	EA Up To 24" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MR 1824).....	1,112.79 171.03
	Note: Includes 12 Volt DC regulated power supply.	
28 16 11 00-0090	EA Up To 11' Read Range, 12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID LR 2000)	5,751.37 171.03
	Note: Includes mounting bracket and 12 Volt DC regulated power supply.	
28 16 11 00-0091	HID, Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0065)</small>	
28 16 11 00-0092	HID, Proximity Cards <small>(28 16 11 00-0091)</small>	
28 16 11 00-0093	EA Clamshell Type, HID Proximity Card (HID ProxCard II).....	17.14
28 16 11 00-0094	EA ISO Compliant Graphics Card, HID Proximity Card (HID ISOProx II).....	21.41
28 16 11 00-0095	EA HID Proximity Key Fob (HID ProxKey II)	21.88

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0096			HID, Proximity Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0091)</small>		
28 16 11 00-0097	EA		Up To 3" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ProxPoint Plus).....	539.61	171.03
			Note: For mullion mounting. (HID P/N 6005).		
28 16 11 00-0098	EA		Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ThinLine II).....	619.42	171.03
			Note: For single gang electrical box mounting. (HID P/N 5395).		
28 16 11 00-0099	EA		Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID MiniProx)	679.28	171.03
			Note: For mullion mounting. (HID P/N 5365).		
28 16 11 00-0100	EA		EntryProx Single-Door Proximity Access Control	840.90	171.03
			Note: (HID P/N 4045) Stores up to 2,000 users and 1,000 time-stamped transactions 12 position keypad for Pin entry or programming optional use with card/key fob, code only or card plus pin code Wiegand output mode. Continental Instrument CICR2358P.		
28 16 11 00-0101			Contactless Smart Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
28 16 11 00-0102			HID, Contactless Smart Cards <small>(28 16 11 00-0101)</small>		
28 16 11 00-0103	EA		2K Bits, Clamshell Type, HID iClass, Contactless Smart Card	10.43	
28 16 11 00-0104	EA		16K Bits, ISO Compliant Graphics Card, HID iClass, Contactless Smart Card	11.39	
28 16 11 00-0105	EA		16K Bits, Contactless Smartcard Key Fob, HID iClass, Contactless Smart Card	14.91	
28 16 11 00-0106	EA		16K Bits, Contactless Smartcard Tag, HID iClass, Contactless Smart Card	8.07	
			Note: Battery powered tag to boost signal.		
28 16 11 00-0107			HID, Contactless Smart Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0101)</small>		
28 16 11 00-0108	EA		Up To 3-1/4" Read Range, 5-16 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R10)	530.26	171.03
			Note: For mullion mounting.		
28 16 11 00-0109	EA		Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R40)	686.78	171.03
			Note: For mullion mounting.		
28 16 11 00-0110	EA		Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader With Keypad, Wiegand Output Access Controls (HID RK40).....	1,038.94	171.03
			Note: For mullion mounting.		
28 16 11 00-0111			HID, Contactless Smart Card Programmer, Wiegand Output Access Controls <small>(28 16 11 00-0101)</small>		
28 16 11 00-0112	EA		HID iClass Contactless Smart Card Programmer, Wiegand Output Access Controls (HID CP400)	3,019.62	171.03
			Note: For mullion mounting.		
28 16 11 00-0113			Call Station Controls, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
			Note: Includes intercom sub-station. Excludes additional receiving intercoms.		
28 16 11 00-0114	EA		Call Station With Entry Keypad, Exterior Wiegand Output Access Controls	1,256.78	171.03
			Note: For mullion mounting.		
28 16 11 00-0115	EA		Call Station With Proximity Card Reader, Exterior Wiegand Output Access Controls	1,066.21	171.03
			Note: For mullion mounting.		
28 16 11 00-0116			Biometrics Readers, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
28 16 11 00-0117	EA		Palm Reader Recognition System, Biometrics Readers, Wiegand Output Access Controls	5,556.75	136.83
28 16 11 00-0118	EA		CCD Camera, Face Image, Biometrics Readers, Wiegand Output Access Controls.....	6,770.76	136.83
28 16 11 00-0119	EA		Video Grabber Card For DFR Reader, Biometrics Readers, Wiegand Output Access Controls.....	2,713.89	136.83
28 16 11 00-0120	EA		Fingerprint Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Pass).....	1,568.65	136.83
28 16 11 00-0121	EA		Fingerprint Reader With HID Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Prox)	1,736.34	136.83
28 16 11 00-0122	EA		Fingerprint Reader With Contactless Smart Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Smart)	1,568.65	136.83
28 16 11 00-0123			Exterior Mounting Posts For Gate Operator Access Controls <small>(28 16 11)</small>		
			Note: Includes mounting plate for access controls, baked on enamel finish and mounting bolt covers. Excludes concrete pads and electrical connections.		
28 16 11 00-0124			2" x 2" Steel, Exterior Mounting Posts For Gate Operator Access Controls <small>(28 16 11 00-0123)</small>		
28 16 11 00-0125	EA		44" Tall, Gooseneck Style, Single Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls	311.33	19.73
			Note: Includes a 5" x 5" base plate.		
28 16 11 00-0126	EA		73" Tall, Gooseneck Style, Dual Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls	611.15	19.73
			Note: Includes an 8" x 8" base plate.		
28 16 11 00-0127	EA		Anchor Post For 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls	280.84	19.73
			Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
28 16 11 00-0128			4" x 4" Steel, Exterior Mounting Posts For Gate Operator Access Controls <small>(28 16 11 00-0123)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0129 EA 59" Tall, Straight Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls .....562.88	562.88	19.73
Note: Includes an 8" x 8" base plate.		
28 16 11 00-0130 EA 49" Tall, Offset Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls .....674.67	674.67	19.73
Note: Includes an 8" x 8" base plate and a 14" offset from back of post.		
28 16 11 00-0131 EA Anchor Post For 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls .....407.88	407.88	19.73
Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
28 16 11 00-0132 4" x 8" Steel, Exterior Mounting Posts For Gate Operator Access Controls (28		
<small>16 11 00-0123)</small>		
28 16 11 00-0133 EA 59" Tall, Straight Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls .....1,856.17	1,856.17	19.73
Note: Includes a 11" x 13" base plate.		
28 16 11 00-0134 EA 50" Tall, Offset Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls .....1,945.10	1,945.10	19.73
Note: Includes a 10" x 14" base plate and a 14" offset from back of post.		
28 16 11 00-0135 EA Anchor Post For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls .....789.01	789.01	19.73
Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
28 16 11 00-0136 EA 48" Light Tower For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls .....1,271.77	1,271.77	19.73
28 16 11 00-0137 Access Control Accessories (28 16 11)		
28 16 11 00-0138 EA 6 Volt DC, 12 Volt DC, Or 24 Volt DC, At 4 Amperes, Power Supply/Charger (Altronix SMP-5) .....560.26	560.26	
28 16 11 00-0139 EA 7 Amperes, 12 Volt, Battery .....68.98	68.98	
28 16 11 00-0140 EA 18 Amperes, 12 Volt, Battery .....153.75	153.75	
28 16 11 00-0141 EA Door Personality Module (Sensomatic RM-4) .....606.97	606.97	34.21
28 16 11 00-0142 EA Mini-Alert Door Ajar Sounder (System Sensor PA400) .....268.00	268.00	68.41
28 16 11 00-0143 EA Recessed Contact For Steel Doors, Door Monitor Switch (Sentrol 1078C) .....92.33	92.33	41.05
28 16 11 00-0144 EA Access Control Systems Power Supply (Altronix AL400ULACMCB) .....643.17	643.17	27.36
28 16 11 00-0145 EA Surge Suppressor (Tripp-Lite IBAR4) .....98.48	98.48	6.85
28 16 11 00-0146 EA Door Strike Relay (Altronix RBSN-TTL) .....80.89	80.89	27.36
28 16 11 00-0147 EA 4" Diameter x 74" High, Powder Coated Steel, Burial Mount Gooseneck For Access Control Devices (GNB-1) .....504.25	504.25	
Note: Set in concrete.		
28 16 11 00-0148 EA 16-Zone Input, Door Controller Expansion Module With 16" SPI Cable (Kantech KT-MOD-INP16) .....652.03	652.03	171.03
28 16 11 00-0149 Access Controllers (28 16 11)		
28 16 11 00-0150 Microterm Controller (28 16 11 00-0149)		
28 16 11 00-0151 EA Microterm Stand Alone One Or Two Door Processing Panel (Continental Instruments CICIP1100) .....1,538.84	1,538.84	171.03
Note: Up to 1,000 card capacity. Includes 2 alarm inputs, tamper alarm, and 3 relay outputs.		
28 16 11 00-0152 EA Microterm PC Board (Continental Instruments CICIP1100PCB) .....1,082.87	1,082.87	102.62
28 16 11 00-0153 EA Battery Standby For Microterm (Continental Instruments CICIP1100BAT-2) .....498.09	498.09	
Note: Input 120 Volt AC, output 12 Volt DC to temporarily power the Microterm only.		
28 16 11 00-0154 Miniterm Controller (28 16 11 00-0149)		
28 16 11 00-0155 EA Miniterm Two Reader Processing Panel (Continental Instrument CICIP1200) .....2,360.48	2,360.48	171.03
Note: Up to 3,000 card capacity. Includes 8 EOL Class A supervised alarm inputs, temper alarm, and 5 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.		
28 16 11 00-0156 EA Miniterm PC Board (Continental Instrument CICIP1200PCB) .....1,754.43	1,754.43	102.62
28 16 11 00-0157 Super-2 Controller (28 16 11 00-0149)		
28 16 11 00-0158 EA Super-Two - Two Reader Processing Panel (Continental Instruments CICIP1300) .....1,769.76	1,769.76	171.03
Note: For use with CA3000 V2.0.25 and above. Up to a 125,000 card capacity, 8 EOL supervised alarm inputs, tamper, 5 relay outputs. Support for on-board LAN adapter, 57,600 baud rate, 6 access groups per card-holder and compressed data mode. Complete in a lockable steel enclosure with battery standby for memory and system operation.		
28 16 11 00-0159 EA Super-Two - PC Board (Continental Instruments CICIP1300BD) .....1,189.86	1,189.86	102.62
28 16 11 00-0160 EA Network Interface Board For Super-2 (Continental Instruments CICIP1300NETBD) .....353.48	353.48	102.62
Note: Optional on-board adapter allows for communication over TCP/IP.		
28 16 11 00-0161 Smarterm Controller (28 16 11 00-0149)		
28 16 11 00-0162 EA Smarterm Four Reader Processing Panel (Continental Instrument CICIP1400) .....4,880.10	4,880.10	205.24
Note: Card capacity up to 2,500. Includes 16 alarm inputs, tamper alarm, and 9 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.		
28 16 11 00-0163 EA Smarterm PC Board (Continental Instrument CICIP1400PCB) .....3,711.92	3,711.92	102.62
28 16 11 00-0164 EA Smarterm Memory Board - 256K (Continental Instrument CICIP1400MB256-1) .....1,464.70	1,464.70	102.62
Note: Up to 10,000 cardholders.		
28 16 11 00-0165 EA Smarterm Memory Board - 2MB (Continental Instrument CICIP1400MB2-1) .....2,068.32	2,068.32	102.62
Note: Up to 50,000 cardholders.		
28 16 11 00-0166 EA Smarterm Relay Expander Board (Continental Instrument CICIP1400RB) .....1,616.01	1,616.01	102.62
Note: 16 Output relays, 8 alarm inputs.		
28 16 11 00-0167 EA Smarterm Alarm Expander Board (Continental Instrument CICIP1400RB) .....1,616.01	1,616.01	102.62
Note: (Supervised) 16 alarm inputs.		
28 16 11 00-0168 Superterm-4 Controller (28 16 11 00-0149)		

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0169 EA Superterm-4 - Four Reader Processing Panel (Continental Instrument CICIP1400UL).....	4,511.76	205.24
Note: 20,000 card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.		
28 16 11 00-0170 EA Superterm-4 PC Board (Continental Instrument CICIP1400ULPCB).....	3,650.00	102.62
28 16 11 00-0171 Superterm-8 Controller (28 16 11 00-0149)		
28 16 11 00-0172 EA Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICIP1800)	6,039.03	342.07
Note: Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.		
28 16 11 00-0173 EA Superterm-8 - Eight Reader Processing Panel, Expanded Power (Continental Instrument CICIP1800EXP)	6,542.03	342.07
Note: With expanded power supply. (required if more than 1 relay expander board is used.) Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.		
28 16 11 00-0174 EA Superterm-8 PC Board (Continental Instrument CICIP1800PCB)	4,903.61	102.62
28 16 11 00-0175 Turbo Superterm-4 Controller (28 16 11 00-0149)		
28 16 11 00-0176 EA Turbo Superterm-4 - Four Reader Processing Panel (Continental Instrument CICIP1400ULT).....	4,511.76	205.24
Note: 20,000 Card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.		
28 16 11 00-0177 EA Turbo Superterm-4 PC Board (Continental Instrument CICIP1400ULTPCB)	3,650.00	102.62
28 16 11 00-0178 Turbo Superterm-8 Controller (28 16 11 00-0149)		
28 16 11 00-0179 EA Turbo Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICIP1800T).....	6,039.03	342.07
Note: For use with CA3000 V2.0.25 and above. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.		
28 16 11 00-0180 EA Turbo Superterm-8 -Eight Reader Processing Panel, Expanded Power (Continental Instrument CICIP1800TEXP)	6,542.03	342.07
Note: Required if more than one relay expander board is used. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.		
28 16 11 00-0181 EA Turbo Superterm-8 PC Board (Continental Instrument CICIP1800TPCB).....	4,903.61	102.62
28 16 11 00-0182 EA Superterm Memory Board - 2MB (Continental Instrument CICIP1800MB2)	2,068.32	102.62
Note: Up to 140,000 cardholders.		
28 16 11 00-0183 EA Turbo/Superterm-8 Memory Board - 2MB (Continental Instrument CICIP1800MB2X2)	1,746.38	102.62
Note: Up to 140,000 cardholders.		
28 16 11 00-0184 EA Turbo Superterm-8 Relay Expander Board (Continental Instrument CICIP1800RB).....	1,617.64	102.62
Note: 16 Output relays, 8 alarm inputs.		
28 16 11 00-0185 EA Turbo Superterm-8 Alarm Expander Board (Continental Instrument CICIP1800RB).....	1,617.64	102.62
Note: (Supervised) 16 Alarm inputs.		
28 16 11 00-0186 EA Expanded Power Supply For Superterm Or Turbo Superterm (Continental Instrument CICPEXPWS).....	645.20	
28 16 11 00-0187 Intelligent Controller (28 16 11 00-0149)		
28 16 11 00-0188 EA Intelligent Controller With Paired Reader Interface for One Physical Barrier (Mercury Security EP-1501).....	1,170.01	102.62
28 16 11 00-0189 EA Up To 64 Doors, Access Controller (Mercury Security EP-1502)	2,047.55	171.03
28 16 11 00-0190 Access Control Bundled System (28 16 11)		
28 16 11 00-0191 EA CA 3000 Bundled System, Supports 25 Users (Continental Instrument CA3B250P4O3V0R0).....	32,235.94	
Note: System includes PC, monitor, keyboard, mouse, OS, Card Access 3000 file server software, MS SQL 2000, 1 SQL host license, and security key.		
28 16 11 00-0192 Magnetic Locks (28 16 11)		
Note: Excludes access controls.		
28 16 11 00-0193 Magnetic Door Locks (28 16 11 00-0192)		
28 16 11 00-0194 300 LB Magnetic Door Locks (28 16 11 00-0193)		
28 16 11 00-0195 EA Single Door, Surface Mount, 300 LB Magnetic Door Lock.....	576.02	136.83
28 16 11 00-0196 600 LB Magnetic Door Locks (28 16 11 00-0193)		
28 16 11 00-0197 EA 600 LB, Single Door, Surface Mount, Magnetic Door Lock.....	785.64	136.83
For LED Status Indicator And Signal Relay, Add	64.00	
For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	128.00	
For Mortise Mount, Deduct	-102.40	
28 16 11 00-0198 EA 600 LB, Dual Doors, Surface Mount, Magnetic Door Lock.....	1,129.93	136.83
For LED Status Indicator And Signal Relay, Add	107.03	
For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	214.07	
28 16 11 00-0199 1,200 LB Magnetic Door Locks (28 16 11 00-0193)		
28 16 11 00-0200 EA 1,200 LB, Single Door, Surface Mount, Magnetic Door Lock.....	817.40	136.83
For LED Status Indicator And Signal Relay, Add	125.06	
For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	163.12	
28 16 11 00-0201 EA Dual Doors, Surface Mount, 1,200 LB Magnetic Door Lock.....	1,198.53	136.83
For LED Status Indicator And Signal Relay, Add	212.72	
For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	277.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0202 2,000 LB Shear Lock, Magnetic And Mechanical Locks <small>(28 16 11 00-0193)</small> Note: Includes LED status indicator and built-in signal relay.		
28 16 11 00-0203 EA Single Door, Mortise Mount, 2,000 LB Shear Lock, Magnetic And Mechanical Door Lock.....	851.70	136.83
28 16 11 00-0204 Magnetic Gate Locks <small>(28 16 11 00-0192)</small>		
28 16 11 00-0205 600 LB Magnetic Gate Locks <small>(28 16 11 00-0204)</small>		
28 16 11 00-0206 EA 600 LB Magnetic Gate Lock.....	659.87	136.83
28 16 11 00-0207 1,200 LB Magnetic Gate Locks <small>(28 16 11 00-0204)</small>		
28 16 11 00-0208 EA 1,200 LB Magnetic Gate Lock.....	775.48	136.83
For LED Status Indicator And Signal Relay, Add	62.73	
For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	125.46	
For Mortise Mount, Deduct	-100.36	
28 16 11 00-0209 Magnetic Lock Power Supply And Chargers <small>(28 16 11 00-0192)</small> Note: Includes lockable metal enclosure, batteries, battery charger and electronically regulated outputs.		
28 16 11 00-0210 EA 12/24 Volt DC At 1 Ampere, Magnetic Lock Backup Power Supply And Charger	511.96	136.83
28 16 11 00-0211 EA 12/24 Volt DC At 2-1/2 Amperes, Magnetic Lock Backup Power Supply And Charger	627.15	136.83
28 16 11 00-0212 EA 12 Volt DC At 4 Amperes And 24 Volt DC At 3 Amperes, Magnetic Lock Backup Power Supply And Charger	694.90	136.83
28 16 11 00-0213 EA 12/24 Volt DC At 6 Amperes, Magnetic Lock Backup Power Supply And Charger.....	850.74	136.83
28 16 11 00-0214 Master Door Buzzer Stations <small>(28 16 11)</small>		
28 16 11 00-0215 Master Stations <small>(28 16 11 00-0214)</small>		
28 16 11 00-0216 EA Master Stations, 5 Station Intercommunication Equipment	1,064.63	213.45
28 16 11 00-0217 EA Master Stations, 10 Station Intercommunication Equipment	1,647.64	413.22
28 16 11 00-0218 EA Master Station, Desk Style Remote Intercommunication Equipment.....	465.27	106.73
28 16 11 00-0219 EA Master Station, Flush Wall Remote Intercommunication Equipment	617.13	177.88
28 16 11 00-0220 EA Sound System Outlet, Protector	170.83	69.65
28 16 11 00-0221 EA Sound System Microphone Outlet.....	309.59	142.57
28 16 11 00-0222 EA Ceiling Or Wall, Sound System Speaker	216.40	69.65
28 16 11 00-0223 EA Sound System Monitor Panel	600.58	142.57
28 16 11 00-0224 EA Sound System Volume Control	191.84	69.65
28 16 11 00-0225 EA 250 Watt, Sound System Amplifier	2,732.17	570.16
28 16 11 00-0226 EA Sound System Cabinet.....	1,718.67	570.16
28 16 11 00-0227 Master Door Stations <small>(28 16 11 00-0214)</small>		
28 16 11 00-0228 EA Master Door Stations, Button Buzzer Type, 25 Station.....	2,631.76	
For Intercom Type Master Door Station, Add	175.04	
28 16 11 00-0229 EA Master Door Stations, Button Buzzer Type, 50 Station.....	4,365.87	
For Intercom Type Master Door Station, Add	283.56	
28 16 11 00-0230 EA Master Door Stations, Button Buzzer Type, 75 Station.....	6,016.10	
For Intercom Type Master Door Station, Add	367.57	
28 16 11 00-0231 EA Master Door Stations, Button Buzzer Type, 100 Station.....	6,864.93	
For Intercom Type Master Door Station, Add	430.59	
28 16 11 00-0232 EA Master Door Stations, Button Buzzer Type, 150 Station.....	8,208.76	
For Intercom Type Master Door Station, Add	630.13	
28 16 11 00-0233 EA Master Door Stations, Button Buzzer Type, 200 Station.....	9,548.56	
For Intercom Type Master Door Station, Add	812.16	
28 16 11 00-0234 EA Master Door Stations, Button Buzzer Type, 250 Station.....	11,988.72	
For Intercom Type Master Door Station, Add	1,050.21	
28 16 11 00-0235 EA Master Door Stations, Button Buzzer Type, 300 Station.....	14,379.82	
For Intercom Type Master Door Station, Add	1,204.24	
28 16 11 00-0236 EA Transformer	182.34	
28 16 11 00-0237 EA Door Opener	270.55	
28 16 11 00-0238 EA Buzzer With Door Release And Plate.....	339.01	
28 16 11 00-0239 EA Amplifier For Intercom Type Unit	510.89	
28 16 11 00-0240 EA Speaker With Door Release	220.26	
28 18 Security Access Detection Equipment <small>(28 10)</small>		
28 18 11 Security Access Metal Detectors <small>(28 18)</small>		
28 18 11 00-0001 EA Handheld Scanner (Garrett Super Scanner V)	243.57	34.21
28 18 11 00-0002 EA Single-Zone, Walk-Through Metal Detector, Complete Unit (Garrett CS 5000).....	3,858.17	410.48
28 18 11 00-0003 EA Multi-Zone, Walk-Through Metal Detector, Complete Unit (Garrett PD 6500)	5,911.33	547.31
28 20 Video Surveillance <small>(28)</small>		
Note: Includes testing of new devices and certification.		
28 21 Surveillance Cameras <small>(28 20)</small>		

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**28 21 31 Proprietary Surveillance Camera Systems (28 21)**

Note: Includes programming of equipment, testing and certification of new devices.

28 21 31 00-0001		Closed Circuit Television And Surveillance Systems (Pelco) (28 21 31)		
28 21 31 00-0002		Cameras And Accessories (28 21 31 00-0001)		
28 21 31 00-0003		Cameras (28 21 31 00-0002)		
28 21 31 00-0004		Compact, 1/3" Format Cameras (28 21 31 00-0003)		
28 21 31 00-0005		High Resolution Color, Compact, 1/3" Format Cameras (28 21 31 00-0004)		
28 21 31 00-0006	EA	High Resolution Day/Night, Compact, 1/3" Format Camera (Pelco C10DN-6)	462.75	34.26
28 21 31 00-0007		Day/Night, Compact, 1/3" Format Cameras (28 21 31 00-0004)		
28 21 31 00-0008	EA	High Resolution Color, Compact, 1/3" Format Camera (Pelco C10CH-6)	283.94	34.26
28 21 31 00-0009		Camerapaks (28 21 31 00-0002)		
		Note: Includes camera and lens.		
28 21 31 00-0010		Camerapaks (28 21 31 00-0009)		
28 21 31 00-0011		High Resolution Color, Camerapaks (28 21 31 00-0010)		
28 21 31 00-0012		Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0011)		
28 21 31 00-0013		Manual Iris, Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0012)		
28 21 31 00-0014	EA	2.3 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3)	361.49	34.26
28 21 31 00-0015	EA	2.8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8)	341.39	34.26
28 21 31 00-0016	EA	4 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4)	332.05	34.26
28 21 31 00-0017	EA	8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8)	329.90	34.26
28 21 31 00-0018		Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0012)		
28 21 31 00-0019	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3A)	391.65	34.26
28 21 31 00-0020	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8A)	361.49	34.26
28 21 31 00-0021	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4A)	354.31	34.26
28 21 31 00-0022	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8A)	348.57	34.26
28 21 31 00-0023		Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0011)		
28 21 31 00-0024		Manual Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0023)		
28 21 31 00-0025	EA	1-3 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1)	421.10	34.26
28 21 31 00-0026	EA	2.5-6 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2)	382.32	34.26
28 21 31 00-0027	EA	2.8-12 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21)	350.72	34.26
28 21 31 00-0028	EA	3-8 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3)	337.80	34.26
28 21 31 00-0029	EA	5-40 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5)	385.91	34.26
28 21 31 00-0030		Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0023)		
28 21 31 00-0031	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1A)	452.69	34.26
28 21 31 00-0032	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2A)	426.12	34.26
28 21 31 00-0033	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21A)	380.88	34.26
28 21 31 00-0034	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3A)	342.82	34.26
28 21 31 00-0035	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5A)	400.99	34.26
28 21 31 00-0036	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V50A)	449.82	34.26
28 21 31 00-0037	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V55A)	512.30	34.26
28 21 31 00-0038		Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0023)		
28 21 31 00-0039	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R3A)	359.34	34.26
28 21 31 00-0040	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R75A)	424.69	34.26
28 21 31 00-0041		High Resolution Day/Night, Camerapaks (28 21 31 00-0010)		
28 21 31 00-0042		Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0041)		
28 21 31 00-0043		Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0042)		
28 21 31 00-0044	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V2A)	700.44	34.26
28 21 31 00-0045	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V21A)	655.20	34.26
28 21 31 00-0046	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V3A)	617.14	34.26
28 21 31 00-0047	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V5A)	675.30	34.26
28 21 31 00-0048	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V50A)	724.14	34.26
28 21 31 00-0049	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V55A)	785.89	34.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0050 Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0042)		
28 21 31 00-0051 EA 3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R3A).....	633.65	34.26
28 21 31 00-0052 EA 7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R75A).....	699.00	34.26
28 21 31 00-0053 Compact Camerapaks (28 21 31 00-0009)		
28 21 31 00-0054 High Resolution Color, Compact Camerapaks (28 21 31 00-0053)		
28 21 31 00-0055 DSS, High Resolution Color, Compact Camerapaks (28 21 31 00-0054)		
28 21 31 00-0056 Fixed Focus, DSS, High Resolution Color, Camerapaks (28 21 31 00-0055)		
28 21 31 00-0057 Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks (28 21 31 00-0056)		
28 21 31 00-0058 EA 2.3 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3).....	548.92	34.26
28 21 31 00-0059 EA 2.8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8).....	528.81	34.26
28 21 31 00-0060 EA 4 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4).....	518.76	34.26
28 21 31 00-0061 EA 8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8).....	516.60	34.26
28 21 31 00-0062 Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks (28 21 31 00-0056)		
28 21 31 00-0063 EA 2.3 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3A).....	578.36	34.26
28 21 31 00-0064 EA 2.8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8A).....	548.92	34.26
28 21 31 00-0065 EA 4 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4A).....	541.74	34.26
28 21 31 00-0066 EA 8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8A).....	535.99	34.26
28 21 31 00-0067 Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0055)		
28 21 31 00-0068 Manual Iris, Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0067)		
28 21 31 00-0069 EA 1-3 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1).....	608.52	34.26
28 21 31 00-0070 EA 2.5-6 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2).....	569.03	34.26
28 21 31 00-0071 EA 2.8-12 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21).....	538.15	34.26
28 21 31 00-0072 EA 3-8 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3).....	525.22	34.26
28 21 31 00-0073 EA 5-40 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5).....	572.62	34.26
28 21 31 00-0074 EA 5-50 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50).....	603.49	34.26
28 21 31 00-0075 EA 5.5-82.5 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55).....	676.74	34.26
28 21 31 00-0076 Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0067)		
28 21 31 00-0077 EA 1-3 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1A).....	639.40	34.26
28 21 31 00-0078 EA 2.5-6 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2A).....	613.55	34.26
28 21 31 00-0079 EA 2.8-12 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21A).....	568.31	34.26
28 21 31 00-0080 EA 3-8 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3A).....	529.53	34.26
28 21 31 00-0081 EA 5-40 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5A).....	588.41	34.26
28 21 31 00-0082 EA 5-50 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50A).....	637.25	34.26
28 21 31 00-0083 EA 5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55A).....	699.00	34.26
28 21 31 00-0084 Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0067)		
28 21 31 00-0085 EA 3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R3A).....	546.76	34.26
28 21 31 00-0086 EA 7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R75A).....	612.11	34.26
28 21 31 00-0087 EDR, High Resolution Color, Compact Camerapaks (28 21 31 00-0054)		
28 21 31 00-0088 Fixed Focus, EDR, High Resolution Color, Camerapaks (28 21 31 00-0087)		
28 21 31 00-0089 Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks (28 21 31 00-0088)		
28 21 31 00-0090 EA 2.3 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3).....	548.92	34.26
28 21 31 00-0091 EA 2.8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8).....	416.79	34.26
28 21 31 00-0092 EA 4 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4).....	406.74	34.26
28 21 31 00-0093 EA 8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8).....	404.58	34.26
28 21 31 00-0094 Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks (28 21 31 00-0088)		
28 21 31 00-0095 EA 2.3 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3A).....	466.34	34.26
28 21 31 00-0096 EA 2.8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8A).....	436.90	34.26
28 21 31 00-0097 EA 4 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4A).....	429.71	34.26
28 21 31 00-0098 EA 8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8A).....	429.71	34.26

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0099			Varifocal, EDR, High Resolution Color, Camerapaks <small>(28 21 31 00-0087)</small>		
28 21 31 00-0100			Manual Iris, Varifocal, EDR, High Resolution Color, Camerapaks <small>(28 21 31 00-0099)</small>		
28 21 31 00-0101	EA		1-3 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1).....	496.50	34.26
28 21 31 00-0102	EA		2.5-6 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2).....	457.00	34.26
28 21 31 00-0103	EA		2.8-12 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21).....	426.12	34.26
28 21 31 00-0104	EA		3-8 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3).....	413.20	34.26
28 21 31 00-0105	EA		5-40 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5).....	460.59	34.26
28 21 31 00-0106	EA		5-50 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50).....	491.47	34.26
28 21 31 00-0107	EA		5.5-82.5 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55).....	564.72	34.26
28 21 31 00-0108			Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks <small>(28 21 31 00-0099)</small>		
28 21 31 00-0109	EA		1-3 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1A).....	527.38	34.26
28 21 31 00-0110	EA		2.5-6 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2A).....	501.52	34.26
28 21 31 00-0111	EA		2.8-12 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21A).....	455.57	34.26
28 21 31 00-0112	EA		3-8 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3A).....	417.51	34.26
28 21 31 00-0113	EA		5-40 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5A).....	476.39	34.26
28 21 31 00-0114	EA		5-50 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50A).....	525.22	34.26
28 21 31 00-0115	EA		5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55A).....	586.98	34.26
28 21 31 00-0116			Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks <small>(28 21 31 00-0099)</small>		
28 21 31 00-0117	EA		3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R3A).....	434.74	34.26
28 21 31 00-0118	EA		7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R75A).....	500.09	34.26
28 21 31 00-0119			High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0053)</small>		
28 21 31 00-0120			Fixed Focus, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0119)</small>		
28 21 31 00-0121			Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0120)</small>		
28 21 31 00-0122	EA		8 mm, Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F8).....	508.71	34.26
28 21 31 00-0123			DC-Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0120)</small>		
28 21 31 00-0124	EA		2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.3A).....	570.46	34.26
28 21 31 00-0125	EA		2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.8A).....	540.30	34.26
28 21 31 00-0126			Varifocal, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0119)</small>		
28 21 31 00-0127			Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0126)</small>		
28 21 31 00-0128	EA		2.8-12 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21).....	529.53	34.26
28 21 31 00-0129	EA		3-8 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3).....	516.60	34.26
28 21 31 00-0130	EA		5-50 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50).....	595.60	34.26
28 21 31 00-0131			Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0126)</small>		
28 21 31 00-0132	EA		2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V2A).....	604.93	34.26
28 21 31 00-0133	EA		2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21A).....	559.69	34.26
28 21 31 00-0134	EA		3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3A).....	521.63	34.26
28 21 31 00-0135	EA		5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V5A).....	579.80	34.26
28 21 31 00-0136	EA		5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50A).....	628.63	34.26
28 21 31 00-0137	EA		5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V55A).....	691.10	34.26
28 21 31 00-0138			Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks <small>(28 21 31 00-0126)</small>		
28 21 31 00-0139	EA		3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R3A).....	538.15	34.26
28 21 31 00-0140	EA		7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R75A).....	603.49	34.26



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0141				Camera Systems <small>(28 21 31 00-0002)</small>		
28 21 31 00-0142				Camera Dome Systems <small>(28 21 31 00-0141)</small>		
28 21 31 00-0143				Spectra®, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0142)</small>		
28 21 31 00-0144				Spectra®, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0143)</small> Note: Includes dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0145				Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0144)</small>		
28 21 31 00-0146				Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0145)</small>		
28 21 31 00-0147	EA			22X, Surface Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-SMB)	2,298.25	205.54
28 21 31 00-0148	EA			22X, In-Ceiling Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-F)	2,592.67	205.54
28 21 31 00-0149	EA			22X, Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PB)	2,724.80	205.54
28 21 31 00-0150	EA			22X, Environmental Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PG-E)	3,712.90	205.54
28 21 31 00-0151				Color, Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0145)</small>		
28 21 31 00-0152	EA			16X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-SMB)	1,964.33	205.54
28 21 31 00-0153	EA			16X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F)	2,112.98	205.54
28 21 31 00-0154	EA			16X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PB)	2,245.83	205.54
28 21 31 00-0155	EA			16X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F-E)	2,321.94	205.54
28 21 31 00-0156	EA			16X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PG-E)	2,321.94	205.54
28 21 31 00-0157	EA			22X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-SMB)	2,424.63	205.54
28 21 31 00-0158	EA			22X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F)	2,719.77	205.54
28 21 31 00-0159	EA			22X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PB)	2,852.62	205.54
28 21 31 00-0160	EA			22X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F-E)	2,928.74	205.54
28 21 31 00-0161	EA			22X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PG-E)	2,928.74	205.54
28 21 31 00-0162				Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0145)</small>		
28 21 31 00-0163	EA			23X, Surface Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-SMB)	2,793.02	205.54
28 21 31 00-0164	EA			23X, In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F)	3,088.16	205.54
28 21 31 00-0165	EA			23X, Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PB)	3,221.01	205.54
28 21 31 00-0166	EA			23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F-E)	3,297.12	205.54
28 21 31 00-0167	EA			23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PG-E)	3,297.12	205.54
28 21 31 00-0168				Day/Night, Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0145)</small>		
28 21 31 00-0169	EA			18X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-SMB)	2,551.74	205.54
28 21 31 00-0170	EA			18X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F)	2,701.10	205.54
28 21 31 00-0171	EA			18X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PB)	2,833.23	205.54
28 21 31 00-0172	EA			18X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F-E)	2,909.35	205.54
28 21 31 00-0173	EA			18X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PG-E)	2,909.35	205.54
28 21 31 00-0174	EA			35X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-SMB)	3,035.02	205.54
28 21 31 00-0175	EA			35X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F)	3,269.84	205.54
28 21 31 00-0176	EA			35X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PB)	3,401.97	205.54
28 21 31 00-0177	EA			35X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F-E)	3,478.09	205.54
28 21 31 00-0178	EA			35X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PG-E)	3,478.09	205.54
28 21 31 00-0179				Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0144)</small>		
28 21 31 00-0180				Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0179)</small>		
28 21 31 00-0181	EA			16X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HF)	2,500.75	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0182	EA			16X, Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HP)	2,628.57	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0183	EA			16X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HPE)	2,730.54	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0184	EA			22X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HF)	3,063.02	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0185	EA			22X, Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HP)	3,190.85	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0186	EA			22X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HPE)	3,293.53	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0187				Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0179)</small>		
28 21 31 00-0188	EA			18X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HF)	3,088.16	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0189	EA			18X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HP)	3,215.98	205.54
				<i>For Protective Lower Dome Cage, Add</i>	34.65	

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0190 EA 18X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HPE).....	3,318.67	205.54
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0191 EA 35X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HF).....	3,613.09	205.54
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0192 EA 35X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HP).....	3,740.19	205.54
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0193 EA 35X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HPE).....	3,842.88	205.54
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0194 Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0144)		
28 21 31 00-0195 Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0194)		
28 21 31 00-0196 EA 18X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PRE).....	4,031.02	205.54
28 21 31 00-0197 EA 35X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PRE).....	4,555.95	205.54
28 21 31 00-0198 Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0144)		
28 21 31 00-0199 Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)		
28 21 31 00-0200 EA 22X, Environmental Pendant Mount, Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PSGE).....	3,526.92	205.54
28 21 31 00-0201 Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)		
28 21 31 00-0202 EA 16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PSGE).....	3,091.75	205.54
28 21 31 00-0203 EA 22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PSGE).....	3,654.74	205.54
28 21 31 00-0204 Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)		
28 21 31 00-0205 EA 23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PSGE).....	4,023.12	205.54
28 21 31 00-0206 Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)		
28 21 31 00-0207 EA 18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PSGE).....	3,679.87	205.54
28 21 31 00-0208 EA 35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PSGE).....	4,204.08	205.54
28 21 31 00-0209 Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0144)		
28 21 31 00-0210 Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0209)		
28 21 31 00-0211 EA 10X, In-Ceiling Mount, Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome System (Pelco SD4-B).....	1,514.80	205.54
28 21 31 00-0212 Spectra® IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0143)		
Note: Includes simultaneous IP and analog video and control, dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0213 Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0212)		
28 21 31 00-0214 Color, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0213)		
28 21 31 00-0215 EA 16X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F).....	2,649.40	205.54
28 21 31 00-0216 EA 16X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PB).....	2,782.25	205.54
28 21 31 00-0217 EA 16X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F-E).....	2,858.36	205.54
28 21 31 00-0218 EA 16X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PG-E).....	2,858.36	205.54
28 21 31 00-0219 EA 22X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F1).....	3,256.19	205.54
28 21 31 00-0220 EA 22X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PB-1).....	3,389.04	205.54
28 21 31 00-0221 EA 22X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F-E1).....	3,465.16	205.54
28 21 31 00-0222 EA 22X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PG-E1).....	3,465.16	205.54
28 21 31 00-0223 Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0213)		
28 21 31 00-0224 EA 23X, In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F1).....	3,624.58	205.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0225 EA 23X, Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PB-1).....	3,757.43	205.54
28 21 31 00-0226 EA 23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F-E1).....	3,833.54	205.54
28 21 31 00-0227 EA 23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PG-E1).....	3,833.54	205.54
28 21 31 00-0228 Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0212)</small>		
28 21 31 00-0229 Color, Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0228)</small>		
28 21 31 00-0230 EA 16X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HF1).....	3,037.17	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0231 EA 16X, Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HP1).....	3,164.99	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0232 EA 16X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HPE1).....	3,266.96	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0233 EA 22X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HF1).....	3,599.44	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0234 EA 22X, Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HP1).....	3,727.27	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0235 EA 22X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HPE1).....	3,829.95	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0236 Day/Night, Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0228)</small>		
28 21 31 00-0237 EA 18X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HF1).....	3,624.58	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0238 EA 18X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HP1).....	3,752.40	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0239 EA 18X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HPE1).....	3,855.09	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0240 EA 35X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HF1).....	4,149.51	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0241 EA 35X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HP1).....	4,276.61	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0242 EA 35X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HPE1).....	4,379.30	205.54
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0243 Stainless Steel Spectra® IV IP Network, Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0212)</small>		
28 21 31 00-0244 Color, Stainless Steel Spectra® IV IP Network, Camera Dome Systems <small>(28 21 31 00-0243)</small>		
28 21 31 00-0245 EA 16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-PSGE1).....	3,628.17	205.54
28 21 31 00-0246 EA 22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-PSGE1).....	4,191.16	205.54
28 21 31 00-0247 Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome Systems <small>(28 21 31 00-0243)</small>		
28 21 31 00-0248 EA 23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1).....	4,559.54	205.54
28 21 31 00-0249 Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome Systems <small>(28 21 31 00-0243)</small>		
28 21 31 00-0250 EA 18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-PSGE1).....	4,216.29	205.54
28 21 31 00-0251 EA 35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1).....	4,740.50	205.54
28 21 31 00-0252 Miniature Spectra® IP Network, Mini Pan/Tilt Camera Dome Systems <small>(28 21 31 00-0212)</small>		
28 21 31 00-0253 Color, Miniature Spectra® IP Network, Mini Camera Dome Systems <small>(28 21 31 00-0252)</small>		
28 21 31 00-0254 EA 10X, In-Ceiling Mount, Color, Miniature Spectra® IP Network, Black Mini Camera Dome System (Pelco SD4N-W1).....	1,860.92	205.54

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0255 Spectra®, Pan/Tilt Dome Drives (28 21 31 00-0143) Note: Includes dome drive, camera and lens.		
28 21 31 00-0256 EA 10X, Color Camera, Spectra® Mini Dome Drive (Pelco DD4)	1,392.42	171.28
28 21 31 00-0257 EA 10X, Color Camera, Spectra® IP Network, Mini Dome Drive (Pelco DD4N)	1,737.11	171.28
28 21 31 00-0258 EA 22X, Black And White Camera, Spectra® IV Dome Drive (Pelco DD4M22)	2,162.94	171.28
28 21 31 00-0259 EA 16X, Color Camera, Spectra® IV Dome Drive (Pelco DD4TC16)	1,727.77	171.28
28 21 31 00-0260 EA 22X, Color Camera, Spectra® IV Dome Drive (Pelco DD4C22)	2,290.05	171.28
28 21 31 00-0261 EA 18X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW18)	2,315.18	171.28
28 21 31 00-0262 EA 23X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW23)	2,658.43	171.28
28 21 31 00-0263 EA 35X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW35)	2,840.11	171.28
28 21 31 00-0264 EA 35X, Color/Black And White Camera, Spectra® IV Horizon Dome Drive (Pelco DD4H35)	2,840.11	171.28
28 21 31 00-0265 Accessories For Spectra® Pan/Tilt Camera Dome Systems (28 21 31 00-0143)		
28 21 31 00-0266 EA Upgrade To Chrome Lower Dome (Pelco Spectra)	101.25	
28 21 31 00-0267 EA Upgrade To Gold Lower Dome (Pelco Spectra)	132.13	
28 21 31 00-0268 EA Wall Mount For Spectra® Systems (Pelco IWM-BK)	123.30	17.13
28 21 31 00-0269 EA 24 Volt Out, Wall Mount For Spectra® Systems (Pelco IWM24-BK)	290.62	17.13
28 21 31 00-0270 EA Wall Arm Mount For Spectra® Systems (Pelco IDM4018)	120.43	17.13
28 21 31 00-0271 EA Wall Arm Mount With Feed Through For Stainless Steel Spectra® IV Systems (Pelco IDM4012SS)	264.14	17.13
28 21 31 00-0272 EA Pole Mount Adapter For Spectra® Systems (Pelco PA402)	72.05	10.19
28 21 31 00-0273 Camclosure®, Camera Dome Systems (28 21 31 00-0142)		
28 21 31 00-0274 Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0273)		
28 21 31 00-0275 Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0274)		
28 21 31 00-0276 High Resolution Color, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0275)		
28 21 31 00-0277 EA 12 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CH12)	666.01	205.54
28 21 31 00-0278 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CHV22)	709.09	205.54
28 21 31 00-0279 EA 12 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS110-CH12)	770.13	205.54
28 21 31 00-0280 EA 12 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS150-CH12)	770.13	205.54
28 21 31 00-0281 Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0275)		
28 21 31 00-0282 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90B-CWV22)	778.03	205.54
28 21 31 00-0283 EA 9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-CWV22)	834.04	205.54
28 21 31 00-0284 EA 9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-CWV22)	834.04	205.54
28 21 31 00-0285 Day/Night, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0275)		
28 21 31 00-0286 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, White Camera Dome System (Pelco IS90-DNV22)	868.51	205.54
28 21 31 00-0287 EA 9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-DNV22)	1,007.10	205.54
28 21 31 00-0288 EA 9-22 mm, Environmental In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DNV22)	1,007.10	205.54
28 21 31 00-0289 Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0275)		
28 21 31 00-0290 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-DWV22)	934.57	205.54
28 21 31 00-0291 EA 9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DWV22)	1,023.62	205.54
28 21 31 00-0292 Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0274)		
28 21 31 00-0293 High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0292)		
28 21 31 00-0294 EA 3.6 mm, Wall/Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CH3.6)	664.70	137.03
28 21 31 00-0295 Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0292)		
28 21 31 00-0296 EA 9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CWV22)	745.84	137.03



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 21 31 00-0297			Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0292)</small>		
	28 21 31 00-0298	EA		9-22 mm, Wall/Ceiling Mount, Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DNV22).....	810.47	137.03
	28 21 31 00-0299			Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0292)</small>		
	28 21 31 00-0300	EA		9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DWV22)	842.79	137.03
	28 21 31 00-0301			Camclosure® IS Integrated Cameras <small>(28 21 31 00-0274)</small>		
	28 21 31 00-0302	EA		12 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CH12)	499.53	137.03
	28 21 31 00-0303	EA		9-22 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CHV22).....	499.53	137.03
	28 21 31 00-0304	EA		9-22 mm, Wide Dynamic Range Color, Camclosure® IS Integrated Camera (Pelco IS-CWV22)	563.44	137.03
	28 21 31 00-0305	EA		9-22 mm, Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DNV22).....	736.51	137.03
	28 21 31 00-0306	EA		9-22 mm, Wide Dynamic Range Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DWV22)	753.02	137.03
	28 21 31 00-0307			Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0273)</small>		
	28 21 31 00-0308			Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0307)</small>		
	28 21 31 00-0309			Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0308)</small>		
	28 21 31 00-0310	EA		12 mm, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12)	594.91	205.54
	28 21 31 00-0311	EA		12 mm, UTP, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12T)	625.79	205.54
	28 21 31 00-0312	EA		12 mm, Environmental Surface Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS110-CA12)	749.31	205.54
	28 21 31 00-0313	EA		12 mm, Environmental In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS150-CA12)	749.31	205.54
	28 21 31 00-0314			High Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0308)</small>		
	28 21 31 00-0315	EA		3-9 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS151-CDV39A)	887.90	205.54
	28 21 31 00-0316			Camclosure® ICS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0307)</small>		
	28 21 31 00-0317			Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0316)</small>		
	28 21 31 00-0318	EA		12 mm, Wall/Ceiling Mount, Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera System (Pelco ICS310-CA12)	612.28	137.03
	28 21 31 00-0319			Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0307)</small>		
	28 21 31 00-0320			High Resolution Color, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
	28 21 31 00-0321	EA		9-22 mm, High Resolution, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CHV22)	834.04	205.54
	28 21 31 00-0322			Wide Dynamic Range Color, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
	28 21 31 00-0323	EA		9-22 mm, Wide Dynamic Range, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CWV22).....	898.67	205.54
	28 21 31 00-0324			Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
	28 21 31 00-0325	EA		9-22 mm, Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DNV22)	979.82	205.54
	28 21 31 00-0326			Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
	28 21 31 00-0327	EA		9-22 mm, Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DWV22)	1,012.13	205.54
	28 21 31 00-0328			Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0273)</small>		
	28 21 31 00-0329			Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0328)</small>		

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0330			High Resolution Color, Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0329)</small>		
28 21 31 00-0331	EA		3-9.5 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV9)	1,368.31	205.54
28 21 31 00-0332	EA		9-22 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV22)	1,368.31	205.54
28 21 31 00-0333			Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0329)</small>		
28 21 31 00-0334	EA		3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV9)	1,457.35	205.54
28 21 31 00-0335	EA		9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV22).....	1,457.35	205.54
28 21 31 00-0336			Day/Night, Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0329)</small>		
28 21 31 00-0337	EA		3-9.5 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV9)	1,594.51	205.54
28 21 31 00-0338	EA		9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV22)	1,594.51	205.54
28 21 31 00-0339			Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0329)</small>		
28 21 31 00-0340	EA		3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV9).....	1,691.45	205.54
28 21 31 00-0341	EA		9-22 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV22).....	1,691.45	205.54
28 21 31 00-0342			Accessories For Camclosure® Camera Dome Systems <small>(28 21 31 00-0273)</small>		
28 21 31 00-0343	EA		4S Gangbox Adapter Plate For ICS110 Camclosure® Systems (Pelco ICS110-AP)	33.48	10.27
28 21 31 00-0344	EA		4S Adapter Plate For ICS310 Camclosure® Systems (Pelco ICS310-AP)	33.48	10.27
28 21 31 00-0345	EA		Sun Shield For ICS310 Camclosure® Systems (Pelco ICS310-SS).....	47.19	17.13
28 21 31 00-0346	EA		Conduit Adapter For ICS310 Camclosure® Systems (Pelco ICS310-COND)	67.29	17.13
28 21 31 00-0347	EA		2' x 2' Ceiling Panel For ICS150 Camclosure® Systems (Pelco ICS150-P)	63.64	10.27
28 21 31 00-0348	EA		Pendant Mount Adapter For Camclosure® ICS110 Systems (Pelco ICS110-PG).....	67.29	17.13
28 21 31 00-0349	EA		Corner Mount Adapter For ICS200 Camclosure® Systems (Pelco ICS210-CM).....	81.65	17.13
28 21 31 00-0350	EA		Smoked, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO110A)	209.26	34.26
28 21 31 00-0351	EA		Clear, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO111A).....	209.26	34.26
28 21 31 00-0352	EA		Smoked, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO150A)	209.26	34.26
28 21 31 00-0353	EA		Clear, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO151A).....	209.26	34.26
28 21 31 00-0354	EA		Pendant Mount Adapter For Camclosure® IP Systems (Pelco IP110-P).....	78.06	17.13
28 21 31 00-0355	EA		Smoked Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP110-LD).....	100.82	34.26
28 21 31 00-0356	EA		Clear Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP111-LD)	100.82	34.26
28 21 31 00-0357	EA		Smoked Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS110-LD).....	100.82	34.26
28 21 31 00-0358	EA		Clear Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS111-LD)	100.82	34.26
28 21 31 00-0359	EA		Smoked Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS150-LD).....	100.82	34.26
28 21 31 00-0360	EA		Clear Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS151-LD).....	100.82	34.26
28 21 31 00-0361	EA		Ceiling Mount Enclosure Only, Environmental, Camclosure® IS Systems (Pelco IS150-ENC).....	288.40	46.79
28 21 31 00-0362	EA		Black Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90B-P).....	59.39	17.13
28 21 31 00-0363	EA		Black Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90B-PW).....	91.71	17.13
28 21 31 00-0364	EA		White Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90-P).....	59.39	17.13
28 21 31 00-0365	EA		White Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90-PW).....	91.71	17.13
28 21 31 00-0366	EA		Surface Mount Enclosure Only, Environmental, IP Camclosure® (Pelco IP110-ENC).....	1,287.16	205.54
28 21 31 00-0367			Pan/Tilt Camera Systems <small>(28 21 31 00-0141)</small>		
28 21 31 00-0368			Esprit® CBZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0367)</small> Note: Includes powder coated aluminum pan/tilt enclosure, receiver, camera, lens, built in heater, window defroster/defogger, sun shroud, insulation blanket, 24V power supply and mounting hardware.		
28 21 31 00-0369			EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0368)</small>		
28 21 31 00-0370			Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0369)</small>		
28 21 31 00-0371	EA		10X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10N).....	3,426.55	308.31
28 21 31 00-0372	EA		20X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20N).....	3,858.12	308.31
28 21 31 00-0373	EA		30X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30N).....	4,456.30	308.31
28 21 31 00-0374	EA		10X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PN)	3,519.18	308.31
28 21 31 00-0375	EA		20X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PN)	3,970.15	308.31
28 21 31 00-0376	EA		30X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PN)	4,568.32	308.31



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0377				Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0369)</small>		
28 21 31 00-0378	EA			10X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10W).....	3,455.99	308.31
28 21 31 00-0379	EA			20X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20W).....	3,887.57	308.31
28 21 31 00-0380	EA			30X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30W).....	4,485.74	308.31
28 21 31 00-0381	EA			10X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PW)	3,549.34	308.31
28 21 31 00-0382	EA			20X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PW)	3,999.59	308.31
28 21 31 00-0383	EA			30X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PW)	4,597.77	308.31
28 21 31 00-0384				Esprit® CLZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0367)</small>		
28 21 31 00-0385				DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0384)</small>		
28 21 31 00-0386				Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0385)</small>		
28 21 31 00-0387	EA			10X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10N).....	3,538.57	308.31
28 21 31 00-0388	EA			20X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20N).....	3,970.15	308.31
28 21 31 00-0389	EA			30X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30N).....	4,568.32	308.31
28 21 31 00-0390	EA			10X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PN).....	3,631.20	308.31
28 21 31 00-0391	EA			20X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PN).....	4,082.17	308.31
28 21 31 00-0392	EA			30X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PN).....	4,680.35	308.31
28 21 31 00-0393				Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0385)</small>		
28 21 31 00-0394	EA			10X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10W).....	3,568.01	308.31
28 21 31 00-0395	EA			20X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20W).....	3,999.59	308.31
28 21 31 00-0396	EA			30X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30W).....	4,597.77	308.31
28 21 31 00-0397	EA			10X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PW).....	3,661.36	308.31
28 21 31 00-0398	EA			20X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PW).....	4,111.61	308.31
28 21 31 00-0399	EA			30X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PW).....	4,709.79	308.31
28 21 31 00-0400				Esprit® AJZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0367)</small>		
28 21 31 00-0401				High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0400)</small>		
28 21 31 00-0402				Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0401)</small>		
28 21 31 00-0403	EA			6 x 10, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10N)	3,351.14	308.31
28 21 31 00-0404	EA			5.6 x 20, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20N)	3,782.72	308.31
28 21 31 00-0405	EA			5.5 x 30, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30N)	4,380.90	308.31
28 21 31 00-0406	EA			6 x 10, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10PN).....	3,444.50	308.31
28 21 31 00-0407	EA			5.6 x 20, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PN).....	3,894.75	308.31
28 21 31 00-0408	EA			5.5 x 30, Preset Positioning, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PN)	4,492.92	308.31
28 21 31 00-0409				Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems <small>(28 21 31 00-0401)</small>		
28 21 31 00-0410	EA			6 x 10, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W).....	3,381.30	308.31
28 21 31 00-0411	EA			5.6 x 20, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20W).....	3,812.16	308.31
28 21 31 00-0412	EA			5.5 x 30, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30W).....	4,411.06	308.31
28 21 31 00-0413	EA			6 x 8, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ8PW)	3,402.13	308.31
28 21 31 00-0414	EA			6 x 10, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W).....	3,473.94	308.31
28 21 31 00-0415	EA			5.6 x 20, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PW)	3,924.19	308.31
28 21 31 00-0416	EA			5.5 x 30, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PW)	4,523.08	308.31

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
28 21 31 00-0417		Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0367)			
28 21 31 00-0418		Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0417)			
28 21 31 00-0419		Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0418)			
28 21 31 00-0420	EA	5.6 x 20, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20N)	3,961.53		308.31
28 21 31 00-0421	EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30N)	4,559.71		308.31
28 21 31 00-0422	EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PN)	3,623.30		308.31
28 21 31 00-0423	EA	5.6 x 20, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PN)	4,073.55		308.31
28 21 31 00-0424	EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PN)	4,671.73		308.31
28 21 31 00-0425		Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0418)			
28 21 31 00-0426	EA	6 x 10, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10W)	3,560.11		308.31
28 21 31 00-0427	EA	5.6 x 20, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20W)	3,990.97		308.31
28 21 31 00-0428	EA	5.5 x 30, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30W)	4,589.87		308.31
28 21 31 00-0429	EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PW)	3,652.75		308.31
28 21 31 00-0430	EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PW)	4,103.00		308.31
28 21 31 00-0431	EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PW)	4,701.89		308.31
28 21 31 00-0432		Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0367)			
28 21 31 00-0433		Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0432)			
28 21 31 00-0434		Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0433)			
28 21 31 00-0435	EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30N)	4,655.21		308.31
28 21 31 00-0436	EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PN)	3,718.09		308.31
28 21 31 00-0437	EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PN)	4,767.24		308.31
28 21 31 00-0438		Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0433)			
28 21 31 00-0439	EA	6 x 10, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10W)	3,654.90		308.31
28 21 31 00-0440	EA	5.5 x 30, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30W)	4,685.37		308.31
28 21 31 00-0441	EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PW)	3,748.25		308.31
28 21 31 00-0442	EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ20PW)	4,198.50		308.31
28 21 31 00-0443	EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PW)	4,797.40		308.31
28 21 31 00-0444		Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0367)			
28 21 31 00-0445		Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0444)			
28 21 31 00-0446		Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0445)			
28 21 31 00-0447	EA	16X, Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2N)	3,955.78		308.31
28 21 31 00-0448		Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0445)			
28 21 31 00-0449	EA	16X, Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2W)	3,985.23		308.31
28 21 31 00-0450		High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0444)			
28 21 31 00-0451		Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0450)			
28 21 31 00-0452	EA	22X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2N)	4,655.21		308.31
28 21 31 00-0453	EA	24X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2N)	4,508.72		308.31
28 21 31 00-0454	EA	35X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2N)	5,093.97		308.31
28 21 31 00-0455		Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0450)			
28 21 31 00-0456	EA	22X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2W)	4,683.94		308.31
28 21 31 00-0457	EA	24X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2W)	4,508.72		308.31
28 21 31 00-0458	EA	35X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2W)	5,126.29		308.31



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0459				Esprit® IOP, Pan/Tilt Camera Systems <small>(28 21 31 00-0367)</small>		
28 21 31 00-0460				High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems <small>(28 21 31 00-0459)</small>		
28 21 31 00-0461				Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems <small>(28 21 31 00-0460)</small>		
28 21 31 00-0462	EA			16X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2N).....	3,094.78	308.31
28 21 31 00-0463	EA			22X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2N).....	3,794.93	308.31
28 21 31 00-0464	EA			24X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2N).....	3,650.59	308.31
28 21 31 00-0465	EA			35X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2N).....	4,106.59	308.31
28 21 31 00-0466				Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems <small>(28 21 31 00-0460)</small>		
28 21 31 00-0467	EA			16X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2W).....	3,123.51	308.31
28 21 31 00-0468	EA			22X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2W).....	3,824.37	308.31
28 21 31 00-0469	EA			24X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2W).....	3,680.03	308.31
28 21 31 00-0470	EA			35X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2W).....	4,138.90	308.31
28 21 31 00-0471				Esprit® Thermal, Pan/Tilt Camera Systems <small>(28 21 31 00-0367)</small>		
28 21 31 00-0472				Esprit® Thermal, Pan/Tilt Camera Systems <small>(28 21 31 00-0471)</small>		
28 21 31 00-0473				Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera Systems <small>(28 21 31 00-0472)</small>		
28 21 31 00-0474	EA			14.25 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2N).....	18,645.96	308.31
28 21 31 00-0475	EA			35 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2N).....	20,034.04	308.31
28 21 31 00-0476	EA			50 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2N).....	20,500.09	308.31
28 21 31 00-0477				Wall Mount, Esprit® Thermal, Pan/Tilt Camera Systems <small>(28 21 31 00-0472)</small>		
28 21 31 00-0478	EA			14.25 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2W).....	18,676.12	308.31
28 21 31 00-0479	EA			35 mm, 30 Hertz, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2W).....	20,063.49	308.31
28 21 31 00-0480	EA			50 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2W).....	20,529.53	308.31
28 21 31 00-0481				Accessories For Esprit® Pan/Tilt Camera Systems <small>(28 21 31 00-0367)</small>		
28 21 31 00-0482	EA			Wiper Blade Replacement For Esprit® Systems (Pelco ES-REPLBLADE).....	10.66	3.42
28 21 31 00-0483	EA			Marine Mounting Kit For Esprit® Systems (Pelco ES-MKIT).....	59.39	17.13
28 21 31 00-0484	EA			Indoor/Outdoor Wall Mount For Esprit® Systems (Pelco EWM).....	85.25	17.13
28 21 31 00-0485	EA			Wall Mount For High Security Enclosures (Pelco HSWM12).....	104.63	17.13
28 21 31 00-0486	EA			Ground Isolation Transformer (Pelco GIT100).....	338.67	46.79
28 21 31 00-0487	EA			High Security, Indoor Wedge Style Enclosure (Pelco HS2100).....	536.17	46.79
28 21 31 00-0488	EA			High Security, Indoor 10" Length Enclosure (Pelco HS3000).....	391.09	46.79
28 21 31 00-0489	EA			High Security, Indoor Medium Corner Mount Enclosure (Pelco HS1500).....	616.06	46.79
28 21 31 00-0490	EA			High Security, Ceiling Mount, Lexan Window, Aluminum Enclosure (Pelco HS8080).....	319.28	46.79
28 21 31 00-0491	EA			High Security, Ceiling Mount, Lexan Window, Steel Enclosure (Pelco HS8134).....	865.56	46.79
28 21 31 00-0492	EA			Bullet-Resistant, Outdoor Enclosure (Pelco HS4514).....	1,066.82	46.79
28 21 31 00-0493	EA			Bullet-Resistant, Outdoor Enclosure With Mount (Pelco HS4514/MT).....	1,254.25	46.79
28 21 31 00-0494	EA			24X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW24).....	1,296.61	46.79
28 21 31 00-0495	EA			35X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW35).....	1,363.40	46.79
28 21 31 00-0496	EA			24 Volt AC, Esprit® Pan Tilt Enclosure Receiver (Pelco ES3012-2).....	2,149.50	46.79
28 21 31 00-0497	EA			24 Volt AC, Pedestal Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2N).....	2,174.53	46.79
28 21 31 00-0498	EA			24 Volt AC, Wall Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2W).....	2,198.56	46.79
28 21 31 00-0499	EA			30X, 24 Volt AC, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30).....	4,117.31	46.79
28 21 31 00-0500	EA			30X, 24 Volt AC, Preset Positioning, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30P).....	4,229.33	46.79
28 21 31 00-0501	EA			Esprit® Camera Pole Mount Adapter (Pelco EPM).....	106.45	11.02
28 21 31 00-0502	EA			Pole Mount Adapter For Esprit® Systems (Pelco EPM).....	106.45	11.02
28 21 31 00-0503				Camera Lenses <small>(28 21 31 00-0002)</small>		
28 21 31 00-0504				Fixed Focus Camera Lenses <small>(28 21 31 00-0503)</small>		
				Note: 1/3" format and manual focus.		
28 21 31 00-0505				Manual Iris, Fixed Focus Camera Lenses <small>(28 21 31 00-0504)</small>		
28 21 31 00-0506	EA			2.3 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.3).....	141.86	16.07
28 21 31 00-0507	EA			2.8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.8).....	121.76	16.07
28 21 31 00-0508	EA			4 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA4).....	111.70	16.07
28 21 31 00-0509	EA			8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA8).....	109.55	16.07
28 21 31 00-0510				Direct Drive Auto Iris, Fixed Focus Camera Lenses <small>(28 21 31 00-0504)</small>		
				Note: Includes spot filter. Excludes amplifier.		
28 21 31 00-0511	EA			2.3 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.3).....	171.31	16.07
28 21 31 00-0512	EA			2.8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.8).....	141.86	16.07
28 21 31 00-0513	EA			4 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD4).....	134.68	16.07
28 21 31 00-0514	EA			8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD8).....	103.09	16.07

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0515			Video Drive Auto Iris, Fixed Focus Camera Lenses (28 21 31 00-0504) Note: Includes LDC100 adapter to convert DC auto iris to video drive.		
28 21 31 00-0516	EA		2.3 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.3S).....	197.88	16.07
28 21 31 00-0517	EA		2.8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.8S).....	167.72	16.07
28 21 31 00-0518	EA		4 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV4S).....	160.54	16.07
28 21 31 00-0519	EA		8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV8S).....	154.79	16.07
28 21 31 00-0520			Varifocal Camera Lenses (28 21 31 00-0503) Note: 1/3" format and manual focus and zoom.		
28 21 31 00-0521			Manual Iris, Varifocal Camera Lenses (28 21 31 00-0520)		
28 21 31 00-0522	EA		1.6-3.4 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA1-3).....	221.30	16.07
28 21 31 00-0523	EA		2.5-6 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.5-6).....	161.97	16.07
28 21 31 00-0524	EA		2.8-12 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.8-12).....	131.09	16.07
28 21 31 00-0525	EA		3-8 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA3-8).....	118.17	16.07
28 21 31 00-0526	EA		5.5-82.5 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5.5-82.5).....	269.69	16.07
28 21 31 00-0527	EA		5-40 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-40).....	175.04	16.07
28 21 31 00-0528	EA		5-50 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-50).....	185.56	16.07
28 21 31 00-0529			Direct Drive Auto Iris, Varifocal Camera Lenses (28 21 31 00-0520) Note: Includes spot filter.		
28 21 31 00-0530	EA		1.6-3.4 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD1-3).....	217.79	16.07
28 21 31 00-0531	EA		2.5-6 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.5-6).....	193.97	16.07
28 21 31 00-0532	EA		2.8-12 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.8-12).....	151.91	16.07
28 21 31 00-0533	EA		3-8 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD3-8).....	116.87	16.07
28 21 31 00-0534	EA		5.5-82.5 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5.5-82.5).....	291.95	16.07
28 21 31 00-0535	EA		5-50 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5-50).....	215.69	16.07
28 21 31 00-0536			Video Drive Auto Iris, Varifocal Camera Lenses (28 21 31 00-0520) Note: Includes spot filter.		
28 21 31 00-0537	EA		1.6-3.4 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV1-3S).....	258.92	16.07
28 21 31 00-0538	EA		2.5-6 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV2.5-6S).....	232.35	16.07
28 21 31 00-0539	EA		3-8 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV3-8S).....	149.05	16.07
28 21 31 00-0540	EA		5-50 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV5-50S).....	256.04	16.07
28 21 31 00-0541			Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lenses (28 21 31 00-0520)		
28 21 31 00-0542	EA		3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR3-8.5).....	132.99	16.07
28 21 31 00-0543	EA		7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR7.5-50).....	192.56	16.07
28 21 31 00-0544			Motorized Zoom Camera Lenses (28 21 31 00-0503) Note: 1/3" format.		
28 21 31 00-0545			Manual Iris, Motorized Zoom Camera Lenses (28 21 31 00-0544)		
28 21 31 00-0546	EA		8X Zoom, 6-48 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X8).....	450.65	16.07
28 21 31 00-0547	EA		10X Zoom, 6-60 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X10).....	556.93	16.07
28 21 31 00-0548	EA		15X Zoom, 6-90 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X15).....	592.11	16.07
28 21 31 00-0549			Direct Drive Auto Iris, Motorized Zoom Camera Lenses (28 21 31 00-0544) Note: Includes spot filter.		
28 21 31 00-0550	EA		6X Zoom, 6-48 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X8).....	487.62	16.07
28 21 31 00-0551	EA		10X Zoom, 6-60 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X10).....	561.21	16.07
28 21 31 00-0552	EA		15X Zoom, 6-90 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X15).....	651.72	16.07
28 21 31 00-0553	EA		20X Zoom, 5.6-112 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.6X20).....	952.27	16.07
28 21 31 00-0554	EA		30X Zoom, 5.5-165 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.5X30).....	1,875.28	16.07
28 21 31 00-0555			Video Drive Auto Iris, Motorized Zoom Camera Lenses (28 21 31 00-0544) Note: Includes spot filter.		
28 21 31 00-0556	EA		8X Zoom, 6-48 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X8S).....	461.42	16.07
28 21 31 00-0557	EA		10X Zoom, 6-60 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X10S).....	544.72	16.07
28 21 31 00-0558	EA		15X Zoom, 6-90 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X15S).....	678.29	16.07
28 21 31 00-0559	EA		20X Zoom, 5.6-112 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.6X20S).....	976.30	16.07
28 21 31 00-0560	EA		30X Zoom, 5.5-165 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.5X30S).....	1,574.47	16.07
28 21 31 00-0561			Camera Power Supplies (28 21 31 00-0002)		
28 21 31 00-0562	EA		20 VA, 24 Volt AC, Camera Power Transformer (Pelco TF2000).....	40.33	13.71
28 21 31 00-0563	EA		50 VA, 24 Volt AC, Camera Power Transformer (Pelco TF9000).....	61.87	13.71
28 21 31 00-0564	EA		2 Amperes, 4 Outputs, Camera Power Supply (Pelco MCS4-2).....	282.58	27.40
28 21 31 00-0565	EA		5 Amperes, 8 Outputs, Camera Power Supply (Pelco MCS8-5).....	331.02	41.11
28 21 31 00-0566	EA		10 Amperes, 16 Outputs, Camera Power Supply (Pelco MCS16-10).....	377.34	54.81
			<i>For Switchable Outputs, Add</i>	160.63	
28 21 31 00-0567	EA		20 Amperes, 16 Outputs, Camera Power Supply (Pelco MCS16-20).....	425.78	68.51
			<i>For Switchable Outputs, Add</i>	173.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0568 Camera Illuminators <small>(28 21 31 00-0002)</small>		
28 21 31 00-0569 Camera Illuminators <small>(28 21 31 00-0568)</small> Note: Includes lamp and mounting bracket.		
28 21 31 00-0570 EA Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27MF)	1,154.94	27.40
28 21 31 00-0571 EA Infrared Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27NS)	1,154.94	27.40
28 21 31 00-0572 EA Flood Lamp, Low Light Level Camera Illuminator (Pelco LL27WF)	1,154.94	27.40
28 21 31 00-0573 Camera Illuminator Accessories <small>(28 21 31 00-0568)</small>		
28 21 31 00-0574 EA Removal And Replacement Of Lamp For Low Light Level Camera Illuminator (Pelco PAR56)	115.85	27.40
28 21 31 00-0575 Camera Receivers <small>(28 21 31 00-0002)</small>		
28 21 31 00-0576 EA 24 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9024RX-PP)	1,173.10	46.79
28 21 31 00-0577 EA 120 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9115RX-PP)	1,173.10	46.79
28 21 31 00-0578 Pan And Tilt Drives <small>(28 21 31 00-0002)</small>		
28 21 31 00-0579 EA 15 LB Load, 24 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT270-24P)	861.17	102.77
28 21 31 00-0580 EA 40 LB Load, 24/120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT570-24P)	1,070.85	102.77
For Preset Positioning, Add	165.00	
28 21 31 00-0581 EA 100 LB Load, 120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT1250P)	2,170.98	102.77
For Preset Positioning, Add	165.00	
28 21 31 00-0582 EA 100 LB Load, 120 Volt DC, Outdoor Pan And Tilt Drive (Pelco PT1250DC)	2,468.99	102.77
For Preset Positioning, Add	165.00	
28 21 31 00-0583 EA 100 LB Load, 120 Volt DC, 360 Degree Outdoor Pan And Tilt Drive (Pelco PT1280SL)	2,843.84	102.77
For Preset Positioning, Add	165.00	
28 21 31 00-0584 EA 100 LB Load, 120 Volt DC, Explosion Proof Outdoor Pan And Tilt Drive (Pelco PT1260EX)	3,640.93	102.77
For Preset Positioning, Add	165.00	
28 21 31 00-0585 Scanners <small>(28 21 31 00-0002)</small>		
28 21 31 00-0586 EA 35 LB Load, 24 Volt AC, Indoor/Outdoor Scanner (Pelco PS20-24)	971.03	102.77
For Wall Mount, Add	39.05	
For Pressure Sensor Alarm, Add	51.15	
28 21 31 00-0587 EA 35 LB Load, 120 Volt AC, Indoor/Outdoor Scanner (Pelco PS20)	1,016.27	102.77
For Wall Mount, Add	39.05	
For Pressure Sensor Alarm, Add	51.15	
28 21 31 00-0588 Camera Monitors <small>(28 21 31 00-0001)</small>		
28 21 31 00-0589 Camera Monitors <small>(28 21 31 00-0588)</small>		
28 21 31 00-0590 Monochrome Camera Monitors <small>(28 21 31 00-0589)</small>		
28 21 31 00-0591 EA 9" Monochrome Camera Monitor (Pelco PMM9A)	189.76	20.55
28 21 31 00-0592 EA 12" Monochrome Camera Monitor (Pelco PMM12A)	214.89	20.55
28 21 31 00-0593 EA 15" Monochrome Camera Monitor (Pelco PMM15A)	321.17	20.55
28 21 31 00-0594 EA 20" Monochrome Camera Monitor (Pelco PMM20A)	507.16	20.55
28 21 31 00-0595 Color Camera Monitors <small>(28 21 31 00-0589)</small>		
28 21 31 00-0596 EA 9", High Resolution Color, Camera Monitor (Pelco PMC9A)	570.35	20.55
28 21 31 00-0597 EA 15", High Resolution Color, Camera Monitor (Pelco PMCS15A)	465.51	20.55
28 21 31 00-0598 EA 17", High Resolution Color, Camera Monitor (Pelco PMCS17A)	669.45	20.55
28 21 31 00-0599 EA 19", High Resolution Color, Camera Monitor (Pelco PMCS19A)	884.88	20.55
28 21 31 00-0600 LCD Camera Monitors <small>(28 21 31 00-0589)</small>		
28 21 31 00-0601 VGA Signal, Color LCD Camera Monitors (Pelco 200 Series) <small>(28 21 31 00-0600)</small> Note: Displays VGA computer signals.		
28 21 31 00-0602 EA 17", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL217)	642.88	20.55
28 21 31 00-0603 EA 19", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL219)	832.46	20.55
28 21 31 00-0604 Multimode, Color LCD Camera Monitors (Pelco 300 Series) <small>(28 21 31 00-0600)</small> Note: Displays VGA computer signals and/or composite video signals.		
28 21 31 00-0605 EA 15", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL315)	729.05	20.55
28 21 31 00-0606 EA 17", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL317)	869.80	20.55
28 21 31 00-0607 EA 19", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL319)	1,066.56	20.55
28 21 31 00-0608 Multimode With PIP, Color LCD Camera Monitors (Pelco 400 Series) <small>(28 21 31 00-0600)</small> Note: Displays VGA computer signals and/or composite video signals. Includes picture in picture option.		
28 21 31 00-0609 EA 15", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL415)	931.55	20.55
28 21 31 00-0610 EA 17", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL417)	1,078.05	20.55
28 21 31 00-0611 EA 19", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL419)	1,348.77	20.55

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0612 Camera Monitor Mounting Accessories <small>(28 21 31 00-0588)</small>		
28 21 31 00-0613 Camera Monitor Mounts <small>(28 21 31 00-0612)</small>		
28 21 31 00-0614 EA Up To 14", Camera Monitor Mount (Pelco).....	234.33	27.40
28 21 31 00-0615 EA >14" To 17", Camera Monitor Mount (Pelco)	269.52	27.40
28 21 31 00-0616 EA >17" To 21", Camera Monitor Mount (Pelco)	312.61	27.40
28 21 31 00-0617 Camera Monitor Rack Mount Kits <small>(28 21 31 00-0612)</small>		
28 21 31 00-0618 EA Camera Monitor Rack Mount Kit (Pelco PMCL-RM).....	150.32	27.40
28 21 31 00-0619 Video Transmission Equipment <small>(28 21 31 00-0001)</small>		
28 21 31 00-0620 UTP Cable, Video Transmission Equipment <small>(28 21 31 00-0619)</small>		
28 21 31 00-0621 UTP Cable, Active Video Receivers <small>(28 21 31 00-0620)</small>		
28 21 31 00-0622 EA Single Channel, UTP Cable, Active Video Receiver (Pelco TW3001AR)	294.71	34.26
28 21 31 00-0623 EA Four Channel, UTP Cable, Active Video Receiver (Pelco TW3004AR)	950.34	34.26
28 21 31 00-0624 EA Eight Channel, 4 Outputs, UTP Cable, Active Video Receiver (Pelco TW3008AR-4-US)	1,844.37	34.26
28 21 31 00-0625 EA Sixteen Channel, UTP Cable, Active Video Receiver (Pelco TW3016AR1-US)	3,012.72	34.26
28 21 31 00-0626 EA Sixteen Channel, 2 Outputs, UTP Cable, Active Video Receiver (Pelco TW3016AR-2-US).....	3,513.24	34.26
28 21 31 00-0627 UTP Cable, Passive Video Transceivers <small>(28 21 31 00-0620)</small>		
28 21 31 00-0628 EA Single Channel, UTP Cable, Passive Video Transceiver (Pelco TW3001P).....	105.13	34.26
28 21 31 00-0629 EA Four Channel, UTP Cable, Passive Video Transceiver (Pelco TW3004P)	294.71	34.26
28 21 31 00-0630 EA Eight Channel, UTP Cable, Passive Video Transceiver (Pelco TW3008P).....	521.63	34.26
28 21 31 00-0631 EA Sixteen Channel, UTP Cable, Passive Video Transceiver (Pelco TW3016P).....	968.29	34.26
28 21 31 00-0632 EA Thirty Two Channel, UTP Cable, Passive Video Transceiver (Pelco TW3032P).....	1,868.79	34.26
28 21 31 00-0633 UTP Cable, Active Video Transmitters <small>(28 21 31 00-0620)</small>		
28 21 31 00-0634 EA Single Channel, UTP Cable, Active Video Transmitter (Pelco TW3001AT).....	306.92	34.26
28 21 31 00-0635 Fiber Optics, Video Transmission Equipment <small>(28 21 31 00-0619)</small>		
28 21 31 00-0636 Data Only, Fiber Optics Transmission Equipment <small>(28 21 31 00-0635)</small>		
28 21 31 00-0637 Bidirectional Data, Fiber Optics Transmitters <small>(28 21 31 00-0636)</small>		
28 21 31 00-0638 EA Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AS).....	1,679.51	68.51
28 21 31 00-0639 EA Single-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AM).....	718.69	68.51
28 21 31 00-0640 EA Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104S)	1,242.19	68.51
28 21 31 00-0641 EA Four-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104M).....	873.80	68.51
28 21 31 00-0642 Bidirectional Data, Fiber Optics Receivers <small>(28 21 31 00-0636)</small>		
28 21 31 00-0643 EA Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AS)	1,679.51	68.51
28 21 31 00-0644 EA Single-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AM)	718.69	68.51
28 21 31 00-0645 EA Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104S)	1,242.19	68.51
28 21 31 00-0646 EA Four-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104M)	873.80	68.51
28 21 31 00-0647 Video Only, Fiber Optics Transmission Equipment <small>(28 21 31 00-0635)</small>		
28 21 31 00-0648 Digitally Encoded Video, Fiber Optics Transmitters <small>(28 21 31 00-0647)</small>		
28 21 31 00-0649 EA Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AS)	776.14	68.51
28 21 31 00-0650 EA Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AM)	369.69	68.51
28 21 31 00-0651 EA Two-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304S)	2,053.64	68.51
28 21 31 00-0652 EA Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304M).....	1,256.55	68.51
28 21 31 00-0653 EA Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308S)	3,328.98	68.51
28 21 31 00-0654 EA Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308M)	2,777.48	68.51
28 21 31 00-0655 EA Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316S).....	8,183.34	68.51
28 21 31 00-0656 EA Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316M)	7,289.31	68.51
28 21 31 00-0657 Digitally Encoded Video, Fiber Optics Receivers <small>(28 21 31 00-0647)</small>		
28 21 31 00-0658 EA Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AS).....	776.14	68.51
28 21 31 00-0659 EA Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AM)	369.69	68.51
28 21 31 00-0660 EA Two-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AS).....	1,285.99	68.51
28 21 31 00-0661 EA Two-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AM).....	554.25	68.51
28 21 31 00-0662 EA Four-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304S).....	2,053.64	68.51
28 21 31 00-0663 EA Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304M)	1,256.55	68.51
28 21 31 00-0664 EA Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308S).....	3,328.98	68.51
28 21 31 00-0665 EA Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308M).....	2,777.48	68.51
28 21 31 00-0666 EA Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316S).....	8,183.34	68.51
28 21 31 00-0667 EA Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316M).....	7,289.31	68.51



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0668				Video And Data, Fiber Optics Transmission Equipment <small>(28 21 31 00-0635)</small>		
28 21 31 00-0669				Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitters <small>(28 21 31 00-0668)</small>		
28 21 31 00-0670	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AS).....	1,298.20	68.51
28 21 31 00-0671	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AM).....	796.25	68.51
28 21 31 00-0672	EA			Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041S).....	2,949.11	68.51
28 21 31 00-0673	EA			Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041M).....	2,560.62	68.51
28 21 31 00-0674	EA			Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081S).....	4,739.33	68.51
28 21 31 00-0675	EA			Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081M).....	3,451.06	68.51
28 21 31 00-0676				Digitally Encoded Video With Bidirectional Data, Fiber Optics Receivers <small>(28 21 31 00-0668)</small>		
28 21 31 00-0677	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AS).....	1,298.20	68.51
28 21 31 00-0678	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AM).....	796.25	68.51
28 21 31 00-0679	EA			Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041S).....	2,949.11	68.51
28 21 31 00-0680	EA			Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041M).....	2,560.62	68.51
28 21 31 00-0681	EA			Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081S).....	4,739.33	68.51
28 21 31 00-0682	EA			Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081M).....	3,451.06	68.51
28 21 31 00-0683				Video, Audio And Data, Fiber Optics Transmission Equipment <small>(28 21 31 00-0635)</small>		
28 21 31 00-0684				Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitters <small>(28 21 31 00-0683)</small>		
28 21 31 00-0685	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011S).....	1,656.53	68.51
28 21 31 00-0686	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011M).....	1,329.08	68.51
28 21 31 00-0687				Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receivers <small>(28 21 31 00-0683)</small>		
28 21 31 00-0688	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011S).....	1,656.53	68.51
28 21 31 00-0689	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011M).....	1,329.08	68.51
28 21 31 00-0690				Video Amplifiers <small>(28 21 31 00-0619)</small>		
28 21 31 00-0691				Video Distribution Amplifiers <small>(28 21 31 00-0690)</small>		
28 21 31 00-0692	EA			1 Input, 4 Outputs, Video Distribution Amplifier (Pelco DA104DT).....	211.63	17.13
28 21 31 00-0693	EA			16 Channel, Master, Video Distribution Amplifier (Pelco CM9760-MDA)..... Note: Inserts time-date and title on up to 16 video inputs.	1,621.98	17.13
28 21 31 00-0694				Video Equalizing Amplifiers <small>(28 21 31 00-0690)</small>		
28 21 31 00-0695	EA			Video Equalizing Amplifier (Pelco EA2010).....	228.87	17.13
28 21 31 00-0696	EA			Half-Duplex, Video Equalizing Amplifier (Pelco EA2000).....	351.66	17.13
28 21 31 00-0697				Network Video Equipment <small>(28 21 31 00-0001)</small>		
28 21 31 00-0698				Video Encoders/Decoders <small>(28 21 31 00-0697)</small>		
28 21 31 00-0699	EA			MPEG4 IP Video Receiver (Pelco NET300R).....	852.26	34.26
28 21 31 00-0700	EA			MPEG4 IP Video Transmitter (Pelco NET300T).....	852.26	34.26
28 21 31 00-0701	EA			MPEG4 IP Video Receiver With Audio (Pelco NET350R).....	972.90	34.26
28 21 31 00-0702	EA			MPEG4 IP Video Transmitter With Audio And Local Storage (Pelco NET350T).....	972.90	34.26
28 21 31 00-0703				Network Video Recorders <small>(28 21 31 00-0697)</small>		
28 21 31 00-0704	EA			16 Device Or 100MBPS, Network Video Recorder (Pelco NVR316).....	5,110.59	68.51
28 21 31 00-0705	EA			32 Device Or 100MBPS, Network Video Recorder (Pelco NVR332).....	5,938.56	68.51
28 21 31 00-0706	EA			64 Device Or 100MBPS, Network Video Recorder (Pelco NVR364).....	7,595.93	68.51
28 21 31 00-0707	EA			64 Device Or 100MBPS, PelcoNet Network Video Recorder (Pelco NVR300).....	5,048.12	68.51

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0708			Network Video Recorder Software (28 21 31 00-0697)		
28 21 31 00-0709	EA		10 User, License Pack (Pelco VMX300-LIC-10)	499.80	
28 21 31 00-0710	EA		20 User, License Pack (Pelco VMX300-LIC-20)	901.22	
28 21 31 00-0711	EA		50 User, License Pack (Pelco VMX300-LIC-50)	2,001.34	
28 21 31 00-0712	EA		100 User, License Pack (Pelco VMX300-LIC-100)	3,500.74	
28 21 31 00-0713	EA		10 User, Enterprise License Pack (Pelco VMX300-E-LIC10)	834.43	
28 21 31 00-0714	EA		20 User, Enterprise License Pack (Pelco VMX300-E-LIC20)	1,500.83	
28 21 31 00-0715	EA		50 User, Enterprise License Pack (Pelco VMX300-E-LIC50)	3,335.57	
28 21 31 00-0716	EA		100 User, Enterprise License Pack (Pelco VMX300-E-LIC100)	5,836.00	
28 21 31 00-0717	EA		200 User, Enterprise License Pack (Pelco VMX300-E-LIC200)	10,003.85	
28 21 31 00-0718	EA		500 User, Enterprise License Pack (Pelco VMX300-E-LIC500)	20,840.70	
28 21 31 00-0719	EA		0 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-0)	4,554.31	
28 21 31 00-0720	EA		1 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-1)	4,832.22	
28 21 31 00-0721	EA		4 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-4)	7,611.98	
28 21 31 00-0722	EA		0 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSSVR-0)	5,054.83	
28 21 31 00-0723	EA		1 Analog Input, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSSVR-1)	5,332.73	
28 21 31 00-0724	EA		4 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSSVR-4)	8,111.06	
28 21 31 00-0725	EA		0 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-0)	4,888.23	
28 21 31 00-0726	EA		1 Analog Input, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-1)	5,166.85	
28 21 31 00-0727	EA		4 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-4)	7,945.90	
28 21 31 00-0728	EA		0 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSSVR-0)	5,721.22	
28 21 31 00-0729	EA		1 Analog Input, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSSVR-1)	5,999.13	
28 21 31 00-0730	EA		4 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSSVR-4)	8,778.89	
28 21 31 00-0731			Video Recording Equipment (28 21 31 00-0001)		
28 21 31 00-0732			Digital Video Recorders (28 21 31 00-0731)		
28 21 31 00-0733	EA		8 Channel, 1TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-1000A)	7,972.22	68.51
28 21 31 00-0734	EA		8 Channel, 2 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-2000A)	10,912.12	68.51
28 21 31 00-0735	EA		8 Channel, 3 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-3000A)	13,852.74	68.51
28 21 31 00-0736	EA		16 Channel, 1 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-1000A)	9,587.23	68.51
28 21 31 00-0737	EA		16 Channel, 2 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-2000A)	12,527.13	68.51
28 21 31 00-0738	EA		16 Channel, 3 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-3000A)	15,467.75	68.51
28 21 31 00-0739	EA		24 Channel, 1 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-1000A)	10,475.52	68.51
28 21 31 00-0740	EA		24 Channel, 2 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-2000A)	13,415.42	68.51
28 21 31 00-0741	EA		24 Channel, 3 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-3000A)	16,356.04	68.51
28 21 31 00-0742	EA		32 Channel, 1 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-1000A)	12,090.52	68.51
28 21 31 00-0743	EA		32 Channel, 2 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-2000A)	15,030.42	68.51
28 21 31 00-0744	EA		32 Channel, 3 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-3000A)	17,971.04	68.51
28 21 31 00-0745	EA		16 Channel, 30 IPS, Digital Video Recorder (Pelco DX9116F-1500)	8,794.66	68.51
28 21 31 00-0746			Digital Video Recorder Accessories (28 21 31 00-0731)		
28 21 31 00-0747	EA		16 Channel, Multiplexed Analog Output Display Card (Pelco DX8000-MUX16)	826.41	34.26
28 21 31 00-0748			Matrix Systems And Controls (28 21 31 00-0001)		
28 21 31 00-0749			Video Multiplexers (28 21 31 00-0748)		
28 21 31 00-0750			Monochrome Duplex, Video Multiplexers (28 21 31 00-0749)		
28 21 31 00-0751	EA		9 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4009MD)	1,511.47	68.51
28 21 31 00-0752	EA		16 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4016MD)	1,431.76	68.51
28 21 31 00-0753			Color Duplex, Video Multiplexers (28 21 31 00-0749)		
28 21 31 00-0754	EA		4 Channel, Color Duplex, Video Multiplexer (Pelco MX4004CD)	1,039.68	68.51
28 21 31 00-0755	EA		9 Channel, Color Duplex, Video Multiplexer (Pelco MX4009CD)	1,930.84	68.51
28 21 31 00-0756	EA		16 Channel, Color Duplex, Video Multiplexer (Pelco MX4016CD)	2,088.11	68.51
28 21 31 00-0757			Color Simplex, Video Multiplexers (28 21 31 00-0749)		
28 21 31 00-0758	EA		9 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4009CS)	1,632.11	68.51
28 21 31 00-0759	EA		16 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4016CS)	1,896.37	68.51
28 21 31 00-0760			Video Multiplexer Accessories (28 21 31 00-0749)		
28 21 31 00-0761	EA		Pushbutton/Joystick Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4000)	945.46	46.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0762 EA Pushbutton Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4002)	587.85	46.79
28 21 31 00-0763 EA Video Multiplexer Server (Pelco MX4000SVR)	1,511.47	68.51
28 21 31 00-0764 Quad Video Processor <small>(28 21 31 00-0748)</small>		
28 21 31 00-0765 EA Monochrome, Quad Video Processor (Pelco QD104M)	478.55	34.26
28 21 31 00-0766 EA Color, Quad Video Processor (Pelco QD104C)	765.79	34.26
28 21 31 00-0767 Switcher <small>(28 21 31 00-0748)</small>		
28 21 31 00-0768 Terminating Manual Switchers <small>(28 21 31 00-0767)</small>		
28 21 31 00-0769 Terminating Manual Switchers <small>(28 21 31 00-0768)</small>		
28 21 31 00-0770 EA 4 Inputs, Terminating Manual Switcher (Pelco MS504DT)	179.04	27.40
28 21 31 00-0771 EA 8 Inputs, Terminating Manual Switcher (Pelco MS508DT)	235.05	27.40
28 21 31 00-0772 EA 12 Inputs, Terminating Manual Switcher (Pelco MS512DT)	281.01	27.40
28 21 31 00-0773 EA 18 Inputs, Terminating Manual Switcher (Pelco MS518DT)	445.46	27.40
28 21 31 00-0774 Audio Follow, Terminating Manual Switchers <small>(28 21 31 00-0768)</small>		
28 21 31 00-0775 EA 4 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS504AF)	225.00	27.40
28 21 31 00-0776 EA 8 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS508AF)	379.39	27.40
28 21 31 00-0777 EA 18 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS518AF)	645.81	27.40
28 21 31 00-0778 Balanced Audio Follow, Terminating Manual Switchers <small>(28 21 31 00-0768)</small>		
28 21 31 00-0779 EA 4 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS504BAF)	293.22	27.40
28 21 31 00-0780 EA 8 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS508BAF)	518.70	27.40
28 21 31 00-0781 Looping Manual Switchers <small>(28 21 31 00-0767)</small>		
28 21 31 00-0782 Looping Manual Switchers <small>(28 21 31 00-0781)</small>		
28 21 31 00-0783 EA 4 Inputs, Looping Manual Switcher (Pelco MS504LDT)	197.71	27.40
28 21 31 00-0784 EA 8 Inputs, Looping Manual Switcher (Pelco MS508LDT)	263.06	27.40
28 21 31 00-0785 EA 12 Inputs, Looping Manual Switcher (Pelco MS512LDT)	329.12	27.40
28 21 31 00-0786 EA 18 Inputs, Looping Manual Switcher (Pelco MS518LDT)	528.04	27.40
28 21 31 00-0787 Audio Follow, Looping Manual Switchers <small>(28 21 31 00-0781)</small>		
28 21 31 00-0788 EA 4 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS504AFL)	240.80	27.40
28 21 31 00-0789 EA 8 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS508AFL)	403.81	27.40
28 21 31 00-0790 EA 12 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS512AFL)	545.99	27.40
28 21 31 00-0791 Balanced Audio Follow, Looping Manual Switchers <small>(28 21 31 00-0781)</small>		
28 21 31 00-0792 EA 4 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS504BAFL)	312.61	27.40
28 21 31 00-0793 EA 8 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS508BAFL)	548.14	27.40
28 21 31 00-0794 EA 12 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS512BAFL)	683.87	27.40
28 21 31 00-0795 Sequential Switchers <small>(28 21 31 00-0767)</small>		
28 21 31 00-0796 Single Output, Sequential Switchers <small>(28 21 31 00-0795)</small>		
28 21 31 00-0797 EA 4 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6104)	329.84	27.40
28 21 31 00-0798 EA 8 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6108)	480.64	27.40
28 21 31 00-0799 Dual Outputs, Sequential Switchers <small>(28 21 31 00-0795)</small>		
28 21 31 00-0800 EA 4 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6204)	406.68	27.40
28 21 31 00-0801 EA 8 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6208)	554.61	27.40
28 21 31 00-0802 Controls <small>(28 21 31 00-0748)</small>		
28 21 31 00-0803 Direct/Multi-Cable Controls <small>(28 21 31 00-0802)</small>		
28 21 31 00-0804 EA Scanner Control Module (Pelco MPS524DT)	320.86	68.51
28 21 31 00-0805 EA 120 Volt AC Pan/Tilt Control Module (Pelco MPT115DT)	338.82	68.51
28 21 31 00-0806 EA 24 Volt AC Pan/Tilt Control Module (Pelco MPT24DT)	369.69	68.51
28 21 31 00-0807 EA Motorized Zoom Lens Control Module (Pelco MLZ6DT)	384.06	68.51
28 21 31 00-0808 EA 120 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ115DT)	573.63	68.51
28 21 31 00-0809 EA 24 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ24DT)	626.06	68.51
28 21 31 00-0810 Coaxitron Controls <small>(28 21 31 00-0802)</small>		
28 21 31 00-0811 EA Desktop Keyboard, Fixed Speed Coaxitron Controller And Transmitter (Pelco KBD9000)	454.28	46.79
28 21 31 00-0812 EA 8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9000)	792.51	46.79

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0813 EA Integral Switcher, 8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9008).....	889.45	46.79
28 21 31 00-0814 Digital Controls (28 21 31 00-0802)		
28 21 31 00-0815 EA Pushbutton Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD200A).....	584.26	46.79
28 21 31 00-0816 EA Pushbutton/Joystick Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD300A).....	938.28	46.79
28 21 31 00-0817 Lock Boxes (28 21 31 00-0748)		
28 21 31 00-0818 EA VCR Lock Box (Pelco LB1000).....	353.39	51.38
For Wall Mount, Add	165.00	
28 21 31 00-0819 EA Computer Disk Drive Lock Box (Pelco LB2000)	360.57	51.38
28 21 31 00-0820 EA VCR And Multiplexer Lock Box (Pelco LB3000)	626.26	51.38
Note: Includes storage for 32 VCR tapes.		
28 21 31 00-0821 Test And Certification Of Surveillance Camera System (28 21 31)		
28 21 31 00-0822 DAY Test And Certification Of Surveillance Camera System To Tie Into Existing Systems.....	1,088.47	
28 21 31 00-0823 HR Test And Certification Of Surveillance Camera System.....	340.15	
28 21 31 00-0824 Programming Of Surveillance Camera System (28 21 31)		
28 21 31 00-0825 HR Programming Of Surveillance Camera System	408.18	
28 21 31 00-0826 Removal And Reinstallation Of Cameras (28 21 31)		
Note: Includes storage, cleaning and supply materials.		
28 21 31 00-0827 EA Removal And Reinstallation Of Camera System	616.62	

28 40 Life Safety (28)

Note: Includes testing of new devices and certification.

28 42 Gas Detection and Alarm (28 40)**28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems** (28 42)**28 42 11 00-0001 Monitoring System For Underground Tanks** (28 42 11)**28 42 11 00-0002 Continuous Leak Detection System** (28 42 11 00-0001)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003 EA Single Channel Underground Tank Monitoring System	7,061.56	560.99
28 42 11 00-0004 EA 2 Channel Underground Tank Monitoring System	9,522.20	748.45
28 42 11 00-0005 EA 3 Channel Underground Tank Monitoring System	13,314.02	801.81
28 42 11 00-0006 EA 4 Channel Underground Tank Monitoring System	14,443.46	1,121.98
28 42 11 00-0007 EA Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System.....	9,720.65	95.78
28 42 11 00-0008 EA Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System.....	8,765.53	85.52
28 42 11 00-0009 EA Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System.....	11,516.08	95.78
28 42 11 00-0010 EA Tank Leak Detection Probe	3,559.12	20.52
28 42 11 00-0011 EA Secondary Containment Collar Probe.....	438.00	8.21
28 42 11 00-0012 EA Interstitial Leak Detection Probe	804.09	17.10
28 42 11 00-0013 EA Liquid Phase Detection	2,650.44	51.31
28 42 11 00-0014 EA Hydrocarbon Vapor, Fixed.....	2,448.91	51.31
28 42 11 00-0015 EA Hydrocarbon Vapor, Float Mounted.....	2,858.44	58.15
28 42 11 00-0016 EA Liquid And Vapor Hydrocarbon.....	3,261.50	58.15

28 42 15 Gas Detection Sensors (28 42)**28 42 15 00-0001 Hydrogen Gas Detection** (28 42 15)

28 42 15 00-0002 EA Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR)	1,644.50	51.38
28 42 15 00-0003 EA Hydrogen Gas Detector Junction Box (SBS HGDI-JB).....	94.55	17.13
28 42 15 00-0004 EA Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM)	438.68	51.38

28 43 Fuel Oil Detection and Alarm (28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm (28 40)**28 46 11 Fire Sensors and Detectors** (28 46)**28 46 11 11 Linear Heat Detection Sensors** (28 46 11)**28 46 11 11-0001 Protectowire Fire Alarm** (28 46 11 11)**28 46 11 11-0002 Linear Heat Detector Cable** (28 46 11 11-0001)

28 46 11 11-0003 LF Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC).....	5.08	
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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 11 11-0004	LF			Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M).....	5.47	
28 46 11 11-0005	LF			High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR).....	5.47	
28 46 11 11-0006	LF			High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M).....	5.85	
28 46 11 11-0007	LF			Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT).....	6.75	
28 46 11 11-0008	LF			Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M).....	7.13	
28 46 11 11-0009	EA			Flexible Lead Connector For Linear Heat Detector (Protectowire PFL).....	71.26	
28 46 11 11-0010	EA			Splicing Connector For Linear Heat Detector (Protectowire PWSC).....	25.84	
28 46 11 11-0011	EA			Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W).....	9.57	
28 46 11 11-0012	EA			Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2).....	9.57	
28 46 11 11-0013	EA			Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO).....	10.98	
28 46 11 11-0014	EA			Beam Clamp For Linear Heat Detector (Protectowire BC-2).....	17.07	
28 46 11 11-0015	EA			Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P).....	17.59	
28 46 11 11-0016	EA			Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A).....	1.36	
28 46 11 11-0017	EA			Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B).....	1.85	
28 46 11 11-0018	EA			Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C).....	7.98	
28 46 20	Fire Alarm (28 46)					
28 46 21 17	Proprietary Systems (28 46 20)					
	Note: Includes programming of equipment, testing and certification of new devices.					
28 46 21 17-0001				Edwards Fire Alarm (28 46 21 17)		
28 46 21 17-0002				EST3 Life Safety And Security Control (28 46 21 17-0001)		
28 46 21 17-0003				EST3 Network (28 46 21 17-0002)		
28 46 21 17-0004				Remote Annunciators (28 46 21 17-0003)		
28 46 21 17-0005	EA			Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,361.16	102.77
				Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0006	EA			Six Position Base Annunciator (EST3 3-6ANN).....	1,119.41	102.77
				Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 17-0007	EA			Ten Position Base Annunciator (EST3 3-10ANN).....	1,401.30	102.77
				Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 17-0008	EA			Annunciator CPU (EST3 3-ANNCPU3).....	913.06	102.77
				Note: One Required per graphic annunciator.		
28 46 21 17-0009	EA			Annunciator Support Module (EST3 3-ANNSM).....	176.17	34.26
				Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 21 17-0010	EA			Liquid Crystal Display Module (EST3 3-LCD).....	606.59	102.77
				Note: Mounts over 3-CPU(1).		
28 46 21 17-0011	EA			Liquid Crystal Display Module (EST3 3-LCDXL).....	718.87	102.77
				Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 21 17-0012	EA			LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	677.26	102.77
				Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 21 17-0013	EA			Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	762.03	68.51
				Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 21 17-0014	EA			Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX).....	128.19	34.26
				Note: Mounts up to three 3-EVDVRA modules.		
28 46 21 17-0015	EA			Central Processor Unit Module (EST3 3-CPU3).....	1,601.87	102.77
				Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0016	EA			120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3).....	1,384.84	34.26
				Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0017				Remote Annunciators Cabinets (28 46 21 17-0003)		
28 46 21 17-0018	EA			Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCM/B).....	136.77	34.26
28 46 21 17-0019	EA			Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCM/B-S).....	123.07	27.40
28 46 21 17-0020	EA			Six Position LED/LCD Flush Wallbox (EST3 6ANN/B).....	151.92	34.26
28 46 21 17-0021	EA			Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	138.22	27.40
28 46 21 17-0022	EA			Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	166.12	34.26
28 46 21 17-0023	EA			Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	152.42	27.40
28 46 21 17-0024				Audio And Telephone Masters (28 46 21 17-0003)		
28 46 21 17-0025	EA			Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	4,330.45	137.03
28 46 21 17-0026	EA			Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	2,443.81	137.03
28 46 21 17-0027	EA			Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,958.38	137.03
28 46 21 17-0028	EA			Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	2,314.09	137.03
28 46 21 17-0029	EA			Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	2,632.41	137.03
28 46 21 17-0030	EA			Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,909.14	68.51
28 46 21 17-0031				Battery Distribution Unit (28 46 21 17-0003)		
28 46 21 17-0032	EA			Battery Distribution Unit (EST3 3-BTSEN).....	542.92	405.90

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 21 17-0033	Remote Booster Power Supply <small>(28 46 21 17-0003)</small>		
28 46 21 17-0034	EA 6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A)	795.20	102.77
28 46 21 17-0035	EA 10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10)	900.11	102.77
28 46 21 17-0036	EA 10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220)	977.42	102.77
28 46 21 17-0037	EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP)	139.31	34.26
28 46 21 17-0038	Batteries And Battery Cabinets <small>(28 46 21 17-0003)</small>		
28 46 21 17-0039	EA 1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours))	110.50	34.26
28 46 21 17-0040	EA 4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours))	133.29	34.26
28 46 21 17-0041	EA 24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours))	290.54	34.26
28 46 21 17-0042	EA 6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours))	142.41	34.26
28 46 21 17-0043	EA 40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours))	363.54	34.26
28 46 21 17-0044	EA 10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours))	212.42	34.26
28 46 21 17-0045	EA 50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours))	719.20	34.26
28 46 21 17-0046	EA 17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours))	217.12	34.26
28 46 21 17-0047	EA 65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours))	862.20	34.26
28 46 21 17-0048	EA 8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours))	128.84	34.26
28 46 21 17-0049	EA 10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours))	117.46	34.26
28 46 21 17-0050	EA 14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1)	391.31	68.51
	Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.		
28 46 21 17-0051	EA 22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2)	329.92	68.51
	Note: Holds up to two 12V17A batteries.		
28 46 21 17-0052	EA Remote Closet Enclosure (EST3 3-RCC7R)	1,075.98	137.03
28 46 21 17-0053	EA Remote Closet Enclosure (EST3 3-RCC14R)	1,317.66	137.03
28 46 21 17-0054	EA Remote Closet Enclosure (EST3 3-RCC21R)	1,818.81	137.03
28 46 21 17-0055	Serial Printer <small>(28 46 21 17-0003)</small>		
28 46 21 17-0056	EA System Printer - Desk Top Style (EST3 PT-1S)	997.40	34.26
28 46 21 17-0057	Intelligent Analog Initiating Devices <small>(28 46 21 17-0002)</small>		
28 46 21 17-0058	Detectors, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0059	EA Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS)	240.24	51.38
28 46 21 17-0060	EA Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB)	266.78	51.38
28 46 21 17-0061	EA Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS)	232.34	51.38
28 46 21 17-0062	EA Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS)	208.63	51.38
28 46 21 17-0063	EA Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	216.53	51.38
28 46 21 17-0064	EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS)	182.19	51.38
28 46 21 17-0065	EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS)	182.19	51.38
28 46 21 17-0066	EA Passive Infrared Motion Detector (EST3 SIGA-MD)	273.83	51.38
28 46 21 17-0067	EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	299.73	51.38
28 46 21 17-0068	EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	257.02	51.38
28 46 21 17-0069	EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS)	359.91	51.38
28 46 21 17-0070	EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS)	218.63	51.38
28 46 21 17-0071	EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS)	218.63	51.38
28 46 21 17-0072	EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS)	291.60	51.38
28 46 21 17-0073	Detectors, Duct Housings and Accessories, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0074	EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	476.71	85.64
28 46 21 17-0075	EA Superduct, Test Magnet Kit (EST3 SD-MAG)	23.99	
28 46 21 17-0076	EA Superduct, 120" Air Sample Tube (EST3 SD-T120)	67.42	20.55
28 46 21 17-0077	EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK)	127.07	27.40
28 46 21 17-0078	EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	167.20	27.40
28 46 21 17-0079	EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL)	81.32	27.40
28 46 21 17-0080	Detectors, Smoke, Beam <small>(28 46 21 17-0057)</small>		
28 46 21 17-0081	EA Fireray 2000 Beam Alignment Aid, For Quick Alignment Of Beam Detector Transmitter And Receiver Heads (EST3 0201-01-A)	156.18	
28 46 21 17-0082	EA Fireray 2000 Beam Smoke Detector (By Fire Fighting Enterprises) (EST3 22310-18-01)	1,823.11	51.38
	Note: Includes controller and remote mount transmitter and receiver head.		
28 46 21 17-0083	EA Fireray 2000 Beam Detector Prism, Use To Reflect Beam When Mounting Transmitter And Receiver Heads On Same Wall (EST3 23901-00)	115.69	17.13
28 46 21 17-0084	EA Reflector, For EC-50R/-100R Reflective Beam Detectors (EST3 23901-01)	136.00	17.13
28 46 21 17-0085	EA 160 - 330' Reflective Beam Detector (EST3 EC-100R)	1,865.68	51.38
28 46 21 17-0086	EA 15 - 160' Reflective Beam Detector (EST3 EC-50R)	1,594.46	51.38
28 46 21 17-0087	EA Remote Test Station, For EC-50R/-100R Reflective Beam Detectors (EST3 EC-LLT)	373.36	17.13
28 46 21 17-0088	EA 160 - 330' Self Adjusting Reflective Beam Detector (EST3 EC-5000R)	1,965.64	51.38
28 46 21 17-0089	Modules, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0090	EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	219.17	34.26
28 46 21 17-0091	EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1)	125.05	34.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0092 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	164.48	34.26
28 46 21 17-0093 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	198.02	34.26
28 46 21 17-0094 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1).....	179.36	34.26
28 46 21 17-0095 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2)	187.54	34.26
28 46 21 17-0096 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)..... Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).	145.88	34.26
28 46 21 17-0097 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	174.37	34.26
28 46 21 17-0098 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S).....	227.21	34.26
28 46 21 17-0099 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO).....	221.90	34.26
28 46 21 17-0100 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	214.00	34.26
28 46 21 17-0101 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM).....	197.61	163.36
28 46 21 17-0102 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)..... Note: Factory programmed for non-latching monitor operation.	149.17	34.26
28 46 21 17-0103 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	228.23	34.26
28 46 21 17-0104 Module Accessories, Signature <small>(28 46 21 17-0057)</small>		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 21 17-0105 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4).....	60.81	17.13
28 46 21 17-0106 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	195.46	34.26
28 46 21 17-0107 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, - UM And -MAB Modules (EST3 235196P)	24.50	10.27
28 46 21 17-0108 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1- Gang Signature Modules (EST3 SIGA-MP1).....	69.96	17.13
28 46 21 17-0109 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1- Gang Signature Modules (EST3 SIGA-MP2).....	63.39	17.13
28 46 21 17-0110 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	65.99	17.13
28 46 21 17-0111 Single Action Pull Stations, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0112 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	256.08	71.25
28 46 21 17-0113 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	295.73	71.25
28 46 21 17-0114 EA GA Key - For Pre Signal Station (EST3 276-K2)	33.85	26.99
28 46 21 17-0115 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR)	41.49	34.63
28 46 21 17-0116 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	71.94	44.53
28 46 21 17-0117 Double Action Pull Stations, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0118 EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278)	225.56	71.25
28 46 21 17-0119 EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	42.05	6.85
28 46 21 17-0120 Detector Bases and Accessories, Signature <small>(28 46 21 17-0057)</small>		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 21 17-0121 EA Audible (Sounder) Base (EST3 SIGA-AB4G)	119.47	17.13
28 46 21 17-0122 EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	50.20	17.13
28 46 21 17-0123 EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4).....	146.99	17.13
28 46 21 17-0124 EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG).....	87.24	17.13
28 46 21 17-0125 EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB)	100.45	17.13
28 46 21 17-0126 EA Detector Mounting Plate (EST3 SIGA-DMP)	153.31	17.13
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		
28 46 21 17-0127 EA Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	60.81	17.13
28 46 21 17-0128 EA Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	24.61	10.27
28 46 21 17-0129 EA Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	24.61	10.27
28 46 21 17-0130 EA Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF)	60.31	10.27
28 46 21 17-0131 EA Detector Base With Isolator (EST3 SIGA-IB).....	99.11	17.13
28 46 21 17-0132 EA Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4).....	104.77	17.13
28 46 21 17-0133 EA Detector Base With Form 'C' Relay (EST3 SIGA-RB)	72.95	17.13
28 46 21 17-0134 EA Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	89.23	17.13
28 46 21 17-0135 EA Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4)	46.91	17.13
28 46 21 17-0136 Controllers, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0137 EA Signature Dual Driver Controller (EST3 3-SDDC1)	3,110.77	102.77
28 46 21 17-0138 EA Single Signature Loop Controller (EST3 3-SSDC1).....	1,806.54	102.77
28 46 21 17-0139 EA Signature Loop Controller (EST3 3-SDC1).....	1,628.52	102.77
28 46 21 17-0140 EA Analog Addressable Loop Controller (EST3 3-AADC1).....	2,577.17	102.77
28 46 21 17-0141 Relays And Accessories <small>(28 46 21 17-0057)</small>		
28 46 21 17-0142 EA Multi Voltage Relay (EST3 MR101).....	180.49	34.26

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0143 EA Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T).....	57.46	17.13
28 46 21 17-0144 Notification Appliances (28 46 21 17-0002)		
28 46 21 17-0145 Wall Strobes, Horns And Chimes (28 46 21 17-0144)		
28 46 21 17-0146 EA Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM).....	159.28	51.38
28 46 21 17-0147 EA Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM).....	159.28	51.38
28 46 21 17-0148 EA Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM).....	177.69	51.38
28 46 21 17-0149 EA Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD).....	138.54	51.38
28 46 21 17-0150 EA Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD).....	138.54	51.38
28 46 21 17-0151 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD).....	138.54	51.38
28 46 21 17-0152 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD).....	138.54	51.38
28 46 21 17-0153 EA Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P).....	121.12	51.38
28 46 21 17-0154 EA Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P).....	121.12	51.38
28 46 21 17-0155 EA Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P).....	121.12	51.38
28 46 21 17-0156 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM).....	252.81	51.38
28 46 21 17-0157 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM).....	252.81	51.38
28 46 21 17-0158 EA Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C).....	175.45	51.38
28 46 21 17-0159 EA Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C).....	175.45	51.38
28 46 21 17-0160 EA Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575).....	159.28	51.38
28 46 21 17-0161 EA Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM).....	159.28	51.38
28 46 21 17-0162 EA Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM).....	159.28	51.38
28 46 21 17-0163 EA Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575).....	159.28	51.38
28 46 21 17-0164 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM).....	164.46	51.38
28 46 21 17-0165 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM).....	164.46	51.38
28 46 21 17-0166 EA Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH).....	176.56	51.38
28 46 21 17-0167 EA Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM).....	164.46	51.38
28 46 21 17-0168 EA Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH).....	164.46	51.38
28 46 21 17-0169 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE).....	109.79	51.38
28 46 21 17-0170 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE).....	109.79	51.38
28 46 21 17-0171 Wall Speakers And Speaker Strobes (28 46 21 17-0144)		
28 46 21 17-0172 EA Multi-Wattage 25 VRMS Speaker (EST3 G4-S2).....	136.98	51.38
28 46 21 17-0173 EA Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM).....	195.36	51.38
28 46 21 17-0174 EA Multi-Wattage 70 VRMS Speaker (EST3 G4-S7).....	136.98	51.38
28 46 21 17-0175 EA Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM).....	195.36	51.38
28 46 21 17-0176 EA Surface Box, White, For Genesis Speaker (EST3 G4B).....	69.04	27.40
28 46 21 17-0177 EA Surface Box, Red, For Genesis Speaker (EST3 G4RB).....	69.04	27.40
28 46 21 17-0178 Ceiling Speakers And Speaker Strobes (28 46 21 17-0144)		
28 46 21 17-0179 EA Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7).....	158.15	51.38
28 46 21 17-0180 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM).....	195.36	51.38
28 46 21 17-0181 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH).....	207.14	51.38
28 46 21 17-0182 Harsh Environment Signals (28 46 21 17-0144)		
28 46 21 17-0183 EA Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T).....	143.66	51.38
28 46 21 17-0184 EA 15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T).....	190.13	51.38
28 46 21 17-0185 EA 110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T).....	190.13	51.38
28 46 21 17-0186 EA 15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T).....	176.31	51.38
28 46 21 17-0187 EA 15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	167.13	51.38
28 46 21 17-0188 EA 30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	176.31	51.38
28 46 21 17-0189 EA 60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	176.31	51.38
28 46 21 17-0190 EA 110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	176.31	51.38
28 46 21 17-0191 EA 15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	195.73	58.24
28 46 21 17-0192 EA 110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	195.73	58.24
28 46 21 17-0193 EA 15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	149.31	51.38
28 46 21 17-0194 EA 30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	185.80	51.38
28 46 21 17-0195 Fire Alarm Bells (28 46 21 17-0144)		
28 46 21 17-0196 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	203.02	51.38
28 46 21 17-0197 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	168.32	51.38
28 46 21 17-0198 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	183.13	51.38
28 46 21 17-0199 Multiple Tone Signal (28 46 21 17-0144)		
28 46 21 17-0200 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,144.03	1,092.64
28 46 21 17-0201 Multi-Purpose Loudspeaker (28 46 21 17-0144)		
28 46 21 17-0202 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	258.37	51.38
28 46 21 17-0203 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	258.37	51.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0204 Bell/Strobe Plate <small>(28 46 21 17-0144)</small>		
28 46 21 17-0205 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	131.50	27.40
28 46 21 17-0206 Mounting Accessories <small>(28 46 21 17-0144)</small>		
28 46 21 17-0207 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11)	70.11	27.40
28 46 21 17-0208 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	70.11	27.40
28 46 21 17-0209 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	70.11	27.40
28 46 21 17-0210 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	70.11	27.40
28 46 21 17-0211 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	70.11	27.40
28 46 21 17-0212 Firefighters' Telephones <small>(28 46 21 17-0144)</small>		
28 46 21 17-0213 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,047.14	85.64
28 46 21 17-0214 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	609.22	85.64
28 46 21 17-0215 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	451.51	85.64
28 46 21 17-0216 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	341.57	85.64
28 46 21 17-0217 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	589.59	85.64
28 46 21 17-0218 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	380.81	85.64
28 46 21 17-0219 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	659.09	85.64
28 46 21 17-0220 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	393.89	85.64
28 46 21 17-0221 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	748.08	85.64
28 46 21 17-0222 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	91.51	27.40
28 46 21 17-0223 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	102.89	27.40
28 46 21 17-0224 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	126.96	
28 46 21 17-0225 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	126.96	
28 46 21 17-0226 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	205.14	34.26
28 46 21 17-0227 EA Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2).....	250.45	34.26
28 46 21 17-0228 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	182.48	34.26
28 46 21 17-0229 EA Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4).....	175.82	34.26
28 46 21 17-0230 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	144.17	51.38
28 46 21 17-0231 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,070.09	68.51
28 46 21 17-0232 Mass Notification EC Appliances <small>(28 46 21 17-0144)</small>		
28 46 21 17-0233 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	164.50	51.38
28 46 21 17-0234 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	159.79	51.38
28 46 21 17-0235 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	164.50	51.38
28 46 21 17-0236 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	159.79	51.38
28 46 21 17-0237 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	26.18	10.27
28 46 21 17-0238 Hazardous Location Devices <small>(28 46 21 17-0002)</small>		
28 46 21 17-0239 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location <small>(28 46 21 17-0238)</small>		
28 46 21 17-0240 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	139.34	51.38
28 46 21 17-0241 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	139.34	51.38
28 46 21 17-0242 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	143.28	51.38
28 46 21 17-0243 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	143.28	51.38
28 46 21 17-0244 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	179.70	51.38
28 46 21 17-0245 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	179.70	51.38
28 46 21 17-0246 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	143.28	51.38
28 46 21 17-0247 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	143.28	51.38
28 46 21 17-0248 Hazardous Locations Fire Alarm Station <small>(28 46 21 17-0238)</small>		
28 46 21 17-0249 EA Hazardous Location Fire Alarm Station (EST3 XAL53).....	1,106.51	85.64
28 46 21 17-0250 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPTD (EST3 MPSR1-D45WX-GE).....	1,055.70	85.64
28 46 21 17-0251 Hazardous Location Strobes <small>(28 46 21 17-0238)</small>		
28 46 21 17-0252 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ).....	1,602.17	51.38
28 46 21 17-0253 EA Wall Bracket Mounting Elbow (EST3 116EX-B).....	303.24	17.13
28 46 21 17-0254 EA Ceiling / Wall Mounting Module (EST3 116EX-C).....	395.68	20.55
28 46 21 17-0255 EA Pendant Mounting Module (EST3 116EX-P).....	293.42	20.55
28 46 21 17-0256 Hazardous Location Bells <small>(28 46 21 17-0238)</small>		
28 46 21 17-0257 EA 6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW).....	1,164.16	51.38
28 46 21 17-0258 EA 8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW).....	1,193.58	51.38
28 46 21 17-0259 EA 10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW).....	1,204.17	51.38

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-0260		Hazardous Location Horns <small>(28 46 21 17-0238)</small>		
	28 46 21	EA	Hazardous Location Horns (EST3 888D-N5).....	1,138.81	51.38
	28 46 21	EA	Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	935.27	51.38
28 46 21	17-0263		Door Holders And Relays <small>(28 46 21 17-0002)</small>		
28 46 21	17-0264		Electromagnetic Door Holders <small>(28 46 21 17-0263)</small>		
	28 46 21	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5).....	227.26	51.38
	28 46 21	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5).....	286.29	51.38
	28 46 21	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5).....	197.11	51.38
	28 46 21	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5).....	197.11	51.38
	28 46 21	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	199.84	51.38
	28 46 21	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5).....	202.44	51.38
28 46 21	17-0271		Control Relays, Multi-Voltage <small>(28 46 21 17-0263)</small>		
	28 46 21	EA	Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	45.88	10.27
28 46 21	17-0273		FireShield Plus <small>(28 46 21 17-0002)</small>		
28 46 21	17-0274		3 Zone System <small>(28 46 21 17-0273)</small>		
	28 46 21	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R).....	1,304.39	411.08
	28 46 21	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD).....	1,872.48	548.10
	28 46 21	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G).....	1,304.39	411.08
	28 46 21	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD).....	1,872.48	548.10
	28 46 21	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	85.13	17.13
	28 46 21	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	85.13	17.13
28 46 21	17-0281		5 Zone System <small>(28 46 21 17-0273)</small>		
	28 46 21	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R).....	1,386.72	411.08
	28 46 21	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD).....	1,950.11	548.10
	28 46 21	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G).....	1,386.72	411.08
	28 46 21	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD).....	1,950.11	548.10
	28 46 21	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	85.13	17.13
	28 46 21	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	85.13	17.13
28 46 21	17-0288		10 Zone System <small>(28 46 21 17-0273)</small>		
	28 46 21	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R).....	1,978.34	548.10
	28 46 21	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD).....	2,546.44	685.13
	28 46 21	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G).....	1,943.06	548.10
	28 46 21	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD).....	2,546.44	685.13
	28 46 21	EA	Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G).....	97.87	17.13
	28 46 21	EA	NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120).....	180.52	34.26
28 46 21	17-0295		FireShield Plus Off Premise Communication Options <small>(28 46 21 17-0273)</small>		
	28 46 21	EA	F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT).....	374.32	34.26
28 46 21	17-0297		FireShield Plus Remote LED Annunciators <small>(28 46 21 17-0273)</small>		
	28 46 21	EA	Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI).....	179.10	51.38
	28 46 21	EA	Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A).....	179.10	51.38
	28 46 21	EA	Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA).....	185.10	51.38
	28 46 21	EA	Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2).....	35.85	10.27
	28 46 21	EA	Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3).....	43.53	10.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0303 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4).....	61.97	10.27
28 46 21 17-0304 FireShield Plus Remote 10 Zone LED Annunciators (28 46 21 17-0273)		
28 46 21 17-0305 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10).....	502.67	51.38
28 46 21 17-0306 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C).....	549.72	51.38
28 46 21 17-0307 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1).....	186.13	34.26
28 46 21 17-0308 FireShield Plus Remote Relays And Interfaces (28 46 21 17-0273)		
28 46 21 17-0309 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24).....	195.73	34.26
28 46 21 17-0310 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRM's In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11).....	84.45	20.55
28 46 21 17-0311 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM).....	301.40	34.26
28 46 21 17-0312 FireShield Plus Accessories (28 46 21 17-0273)		
28 46 21 17-0313 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1).....	19.27	
28 46 21 17-0314 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7).....	12.83	
28 46 21 17-0315 iO Series Fire Control Panels (28 46 21 17-0002)		
28 46 21 17-0316 Intelligent Analog Control Panels (28 46 21 17-0315)		
28 46 21 17-0317 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G).....	3,982.55	685.13
28 46 21 17-0318 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD).....	4,210.73	685.13
28 46 21 17-0319 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G).....	3,180.40	548.10
28 46 21 17-0320 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD).....	3,286.25	548.10
28 46 21 17-0321 Option Modules And Accessories For iO Series (28 46 21 17-0315)		
28 46 21 17-0322 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1).....	338.01	51.38
28 46 21 17-0323 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2).....	220.39	51.38
28 46 21 17-0324 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232).....	220.39	51.38
28 46 21 17-0325 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA).....	186.13	34.26
28 46 21 17-0326 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT).....	360.62	27.40
28 46 21 17-0327 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH).....	642.90	27.40
28 46 21 17-0328 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1).....	83.66	17.13
28 46 21 17-0329 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2).....	95.42	17.13
28 46 21 17-0330 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250).....	1,195.60	68.51
28 46 21 17-0331 Remote Annunciators For iO Series (28 46 21 17-0315)		
28 46 21 17-0332 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD).....	661.45	51.38
28 46 21 17-0333 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C).....	690.86	51.38
28 46 21 17-0334 Remote Annunciator Accessories (28 46 21 17-0315)		
28 46 21 17-0335 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073).....	81.31	17.13
28 46 21 17-0336 EA 12 Expander Cable (Cable Only) (EST3 7120313-01).....	57.78	17.13
28 46 21 17-0337 EA 24 Expander Cable (Cable Only) (EST3 7120313-02).....	75.42	17.13
28 46 21 17-0338 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1).....	220.39	51.38
28 46 21 17-0339 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2).....	249.78	51.38
28 46 21 17-0340 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3).....	279.20	51.38
28 46 21 17-0341 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC).....	57.78	17.13
28 46 21 17-0342 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC).....	57.78	17.13
28 46 21 17-0343 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY).....	109.18	17.13
28 46 21 17-0344 System Accessories (28 46 21 17-0315)		
28 46 21 17-0345 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1).....	391.31	68.51

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0346 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	1,898.83	548.10
28 46 21 17-0347 Conventional Initiating Devices (28 46 21 17-0002)		
28 46 21 17-0348 Detectors, Heat, Double Pole (28 46 21 17-0347) Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 17-0349 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	166.15	51.38
28 46 21 17-0350 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	166.15	51.38
28 46 21 17-0351 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	166.15	51.38
28 46 21 17-0352 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	166.15	51.38
28 46 21 17-0353 Detectors, Rate Compensation Heat, Accessories (28 46 21 17-0347)		
28 46 21 17-0354 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	110.91	51.38
28 46 21 17-0355 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	247.08	27.40
28 46 21 17-0356 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	91.43	34.26
28 46 21 17-0357 Detectors, Heat, Fire-Lite (28 46 21 17-0347) Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 17-0358 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	157.15	51.38
28 46 21 17-0359 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	157.15	51.38
28 46 21 17-0360 Audio Notification Systems (Standalone Voice Evacuation) (28 46 21 17-0002)		
28 46 21 17-0361 Audio Notification Panels (28 46 21 17-0360)		
28 46 21 17-0362 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	4,863.53	685.13
28 46 21 17-0363 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	4,863.53	685.13
28 46 21 17-0364 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	3,722.63	685.13
28 46 21 17-0365 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	3,722.63	685.13
28 46 21 17-0366 EA Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	4,287.19	685.13
28 46 21 17-0367 EA Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	4,287.19	685.13
28 46 21 17-0368 Audio Notification Expander Panels (28 46 21 17-0360)		
28 46 21 17-0369 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	3,816.72	685.13
28 46 21 17-0370 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	3,816.72	685.13
28 46 21 17-0371 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	2,711.10	685.13
28 46 21 17-0372 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	2,711.10	685.13
28 46 21 17-0373 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG)	3,358.01	685.13
28 46 21 17-0374 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR)	3,358.01	685.13
28 46 21 17-0375 Audio Notification Output Accessories (28 46 21 17-0360)		
28 46 21 17-0376 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B)	140.12	17.13
28 46 21 17-0377 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A)	597.79	34.26
28 46 21 17-0378 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B)	597.79	34.26
28 46 21 17-0379 EA Class A Converter (GE ANSZSC4A)	433.13	34.26
28 46 21 17-0380 Audio Notification Remote Microphone (28 46 21 17-0360)		
28 46 21 17-0381 EA Microphone (GE ANSMIKE)	174.37	34.26
28 46 21 17-0382 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG)	656.60	34.26
28 46 21 17-0383 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR)	656.60	34.26
28 46 21 17-0384 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP)	151.88	17.13
28 46 21 17-0385 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	87.18	17.13
28 46 21 17-0386 Audio Notification Accessories (28 46 21 17-0360)		
28 46 21 17-0387 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	280.22	34.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0388 EA Class B Backup Amplifier Switching Module (GE ANSBKUP).....	280.22	34.26
28 46 21 17-0389 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	280.22	34.26
28 46 21 17-0390 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANRSI8)	597.79	34.26
28 46 21 17-0391 Audio Notification Modules, Without Cabinet And Transformer <small>(28 46 21 17-0360)</small>		
28 46 21 17-0392 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	2,148.31	68.51
Note: Excludes cabinet.		
28 46 21 17-0393 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	2,254.17	68.51
Note: Excludes cabinet.		
28 46 21 17-0394 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)	3,101.02	68.51
Note: Excludes cabinet.		
28 46 21 17-0395 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A).....	1,195.60	68.51
Note: Excludes cabinet.		
28 46 21 17-0396 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	1,195.60	68.51
Note: Excludes cabinet.		
28 46 21 17-0397 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	2,148.31	68.51
28 46 21 17-0398 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	1,724.88	68.51
Note: Excludes cabinet.		
28 46 21 17-0399 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	1,830.74	68.51
Note: Excludes cabinet.		
28 46 21 17-0400 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	2,677.59	68.51
Note: Excludes cabinet.		
28 46 21 17-0401 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180)	140.12	17.13
28 46 21 17-0402 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885)	106.05	17.13
28 46 21 17-0403 Simplex Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-0404 4100 Fire Alarm Control Panel <small>(28 46 21 17-0403)</small>		
28 46 21 17-0405 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACs, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111)	6,303.46	684.14
28 46 21 17-0406 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141)	6,814.42	684.14
28 46 21 17-0407 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	9,490.54	684.14
28 46 21 17-0408 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104)	4,295.51	684.14
Note: Add-on module.		
28 46 21 17-0409 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105)	3,516.27	684.14
Note: Add-on module.		
28 46 21 17-0410 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101)	1,871.26	171.03
Note: Add-on module.		
28 46 21 17-0411 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033).....	390.62	34.21
Note: Add-on module.		
28 46 21 17-0412 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	1,087.88	34.21
Note: Add-on module.		
28 46 21 17-0413 4100U Backbox <small>(28 46 21 17-0403)</small>		
28 46 21 17-0414 EA 2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425).....	1,926.96	136.83
Note: 24" x 40" beige backbox.		
28 46 21 17-0415 EA 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443).....	2,685.06	136.83
Note: 24" x 56" beige backbox.		
28 46 21 17-0416 DACT (Digital Alarm Communicator Transmitter) <small>(28 46 21 17-0403)</small>		
28 46 21 17-0417 EA 6 Zone Fire Control Communicator (Silent Knight SK-5104)	1,051.70	68.41
28 46 21 17-0418 4010 Fire Alarm Control Panel <small>(28 46 21 17-0403)</small>		
28 46 21 17-0419 EA 120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	5,990.12	684.14
28 46 21 17-0420 EA 240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201).....	5,834.75	684.14
28 46 21 17-0421 EA Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	209.50	34.21
28 46 21 17-0422 EA Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	851.26	34.21
28 46 21 17-0423 EA Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812).....	1,163.85	34.21
28 46 21 17-0424 EA 120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813)	606.46	34.21
28 46 21 17-0425 EA 240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823)	654.84	34.21
28 46 21 17-0426 EA Battery Meter Module Expansion Module (Simplex 4010-9820)	256.51	34.21

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0427 Printer <small>(28 46 21 17-0403)</small>		
28 46 21 17-0428 EA 24 Pin Dot Matrix Printer (Simplex 4190-9013).....	1,863.88	34.21
28 46 21 17-0429 NAC Panel / Power Booster <small>(28 46 21 17-0403)</small>		
28 46 21 17-0430 EA 120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201)..... Note: Power supply for horns and strobes.	1,280.90	171.03
28 46 21 17-0431 Battery <small>(28 46 21 17-0403)</small>		
28 46 21 17-0432 EA 50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296)..... Note: Two required for 24 volt DC.	764.06	34.21
28 46 21 17-0433 EA 33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276)..... Note: Two required for 24 volt DC.	513.37	34.21
28 46 21 17-0434 EA 6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272)..... Note: Two required for 24 volt DC.	195.85	34.21
28 46 21 17-0435 Interface Modules <small>(28 46 21 17-0403)</small>		
28 46 21 17-0436 EA Supervised Individual Addressable Modules (Simplex 4090-9001)..... Note: Monitor modules for waterflow/tamper, etc.	161.40	34.21
28 46 21 17-0437 EA Relay Individual Addressable Modules (Simplex 4090-9002)..... Note: Control modules for gas shutdown, door holders, etc.	316.14	34.21
28 46 21 17-0438 EA Relay SPDT With LED MR-801/T (Simplex 2088-9032)..... Note: Interface relay for 120VAC	88.50	34.21
28 46 21 17-0439 EA SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815).....	163.10	34.21
28 46 21 17-0440 EA Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817).....	73.52	17.10
28 46 21 17-0441 EA Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818).....	70.25	17.10
28 46 21 17-0442 Pull Stations <small>(28 46 21 17-0403)</small>		
28 46 21 17-0443 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001).....	194.59	34.21
28 46 21 17-0444 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101).....	143.77	34.21
28 46 21 17-0445 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102).....	153.59	34.21
28 46 21 17-0446 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103).....	139.35	34.21
28 46 21 17-0447 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104).....	160.16	34.21
28 46 21 17-0448 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105).....	234.92	34.21
28 46 21 17-0449 EA Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107).....	199.47	34.21
28 46 21 17-0450 EA Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108).....	232.23	34.21
28 46 21 17-0451 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754).....	116.47	34.21
28 46 21 17-0452 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755).....	122.47	34.21
28 46 21 17-0453 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756).....	141.78	34.21
28 46 21 17-0454 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758).....	211.95	34.21
28 46 21 17-0455 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759).....	355.48	34.21
28 46 21 17-0456 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762).....	127.39	34.21
28 46 21 17-0457 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178).....	76.81	17.10
28 46 21 17-0458 Weatherproof Pull Stations <small>(28 46 21 17-0403)</small>		
28 46 21 17-0459 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138).....	193.52	41.05
28 46 21 17-0460 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211).....	120.34	17.10
28 46 21 17-0461 Heat / Smoke Sensor <small>(28 46 21 17-0403)</small>		
28 46 21 17-0462 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733).....	199.14	51.31
28 46 21 17-0463 EA Photoelectric Smoke Sensor (Simplex 4098-9714).....	279.57	51.31
28 46 21 17-0464 EA Sensor Base With Relay Driver (Simplex 4098-9791).....	507.60	17.10
28 46 21 17-0465 EA Standard Sensor Base (Simplex 4098-9792).....	261.73	17.10
28 46 21 17-0466 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)..... Note: Relay for 4098-9791	162.00	34.21
28 46 21 17-0467 Explosion Proof Heat Detector <small>(28 46 21 17-0403)</small>		
28 46 21 17-0468 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	209.42	51.31
28 46 21 17-0469 EA Explosion Proof Backbox (Killark JLX-21).....	129.25	17.10
28 46 21 17-0470 EA Explosion Proof Backbox Plugs (Killark CUP-2).....	12.65	3.42
28 46 21 17-0471 Weatherproof Heat Detector <small>(28 46 21 17-0403)</small>		
28 46 21 17-0472 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	157.74	51.31
28 46 21 17-0473 200 Degree F Heat Detector <small>(28 46 21 17-0403)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0474 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)..... Note: Used in kiln rooms and kitchens.	134.64	51.31
28 46 21 17-0475 Duct Smoke Sensor <small>(28 46 21 17-0403)</small>		
28 46 21 17-0476 EA Duct Sensor Housing (Simplex 4098-9755).....	416.51	27.36
28 46 21 17-0477 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756) Note: Relay output for AHU shutdown.	572.81	61.57
28 46 21 17-0478 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798)	68.39	17.10
28 46 21 17-0479 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	167.49	51.31
28 46 21 17-0480 Interior Horn <small>(28 46 21 17-0403)</small>		
28 46 21 17-0481 EA Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	156.74	51.31
28 46 21 17-0482 EA White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	156.74	51.31
28 46 21 17-0483 Interior Horn Strobe <small>(28 46 21 17-0403)</small>		
28 46 21 17-0484 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426)	207.85	51.31
28 46 21 17-0485 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427)	207.85	51.31
28 46 21 17-0486 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Strobe (Simplex 4906-9127)	196.19	51.31
28 46 21 17-0487 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Strobe (Simplex 4906-9128)	196.19	51.31
28 46 21 17-0488 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Strobe (Simplex 4906-9129)	196.19	51.31
28 46 21 17-0489 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Strobe (Simplex 4906-9130)	196.19	51.31
28 46 21 17-0490 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	200.10	51.31
28 46 21 17-0491 EA Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	200.10	51.31
28 46 21 17-0492 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi- Candela Strobe (Simplex 4906-9139)	206.98	51.31
28 46 21 17-0493 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi- Candela Strobe (Simplex 4906-9140)	203.81	51.31
28 46 21 17-0494 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi- Candela Strobe (Simplex 4906-9141)	206.98	51.31
28 46 21 17-0495 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi- Candela Strobe (Simplex 4906-9142)	203.81	51.31
28 46 21 17-0496 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Addressable Strobe (Simplex 4906-9227).....	196.19	51.31
28 46 21 17-0497 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Addressable Strobe (Simplex 4906-9228).....	196.19	51.31
28 46 21 17-0498 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Addressable Strobe (Simplex 4906-9229).....	196.19	51.31
28 46 21 17-0499 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi- Candela Addressable Strobe (Simplex 4906-9230).....	196.19	51.31
28 46 21 17-0500 Interior Strobe <small>(28 46 21 17-0403)</small>		
28 46 21 17-0501 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101)	171.42	51.31
28 46 21 17-0502 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	171.42	51.31
28 46 21 17-0503 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103)	171.37	51.31
28 46 21 17-0504 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	171.42	51.31
28 46 21 17-0505 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105)	186.24	51.31
28 46 21 17-0506 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106)	186.24	51.31
28 46 21 17-0507 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	187.18	51.31
28 46 21 17-0508 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	189.77	51.31
28 46 21 17-0509 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111)	189.77	51.31
28 46 21 17-0510 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	189.77	51.31
28 46 21 17-0511 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	171.42	51.31
28 46 21 17-0512 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	171.42	51.31
28 46 21 17-0513 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	171.42	51.31
28 46 21 17-0514 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	171.42	51.31

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0515 Interior Speakers (28 46 21 17-0403)		
28 46 21 17-0516 EA Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	144.20	51.31
28 46 21 17-0517 EA White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	144.20	51.31
28 46 21 17-0518 EA Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	144.20	51.31
28 46 21 17-0519 Interior Speaker Strobe (28 46 21 17-0403)		
28 46 21 17-0520 EA Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	219.40	51.31
28 46 21 17-0521 EA White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	219.40	51.31
28 46 21 17-0522 Surge Suppressors (28 46 21 17-0403)		
28 46 21 17-0523 EA Overvoltage Suppressor (Simplex 2081-9044).....	130.82	10.26
28 46 21 17-0524 EA Isolated Loop Circuit Protector (Simplex 2081-9028).....	85.43	10.26
28 46 21 17-0525 EA 120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	274.58	10.26
28 46 21 17-0526 EA 24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHLP24B).....	97.12	10.26
28 46 21 17-0527 EA Mounting Base For Two DTK-2MHLP (Ditek DTK-2MB).....	147.12	17.10
28 46 21 17-0528 EA 120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	99.44	10.26
28 46 21 17-0529 EA <105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	76.05	10.26
28 46 21 17-0530 Boxes And Adapters (28 46 21 17-0403)		
28 46 21 17-0531 EA Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	70.25	17.10
28 46 21 17-0532 EA Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	66.97	17.10
28 46 21 17-0533 EA Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	60.55	17.10
28 46 21 17-0534 EA White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	51.44	17.10
28 46 21 17-0535 Accessories (28 46 21 17-0403)		
28 46 21 17-0536 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	38.02	17.10
28 46 21 17-0537 Siemens Fire Alarm (28 46 21 17)		
28 46 21 17-0538 Conventional Control Panels (28 46 21 17-0537)		
28 46 21 17-0539 SXL Batteries And Power Supplies (28 46 21 17-0538)		
28 46 21 17-0540 EA 6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3).....	1,096.60	68.41
28 46 21 17-0541 EA Main Board Only For PAD-3 (Siemens PAD-3-MB).....	889.59	68.41
28 46 21 17-0542 Digital Fire Communicators (28 46 21 17-0538)		
28 46 21 17-0543 EA Four Channel Digital Slave Fire Communicator (Siemens 5129).....	862.30	68.41
28 46 21 17-0544 Addressable Control Panels (28 46 21 17-0537)		
28 46 21 17-0545 Fireseeker Equipment (28 46 21 17-0544)		
28 46 21 17-0546 FS-250 System Panels (28 46 21 17-0545)		
28 46 21 17-0547 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	2,888.85	684.14
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 21 17-0548 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	3,521.16	684.14
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 17-0549 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	2,167.29	547.31
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 17-0550 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	2,892.61	684.14
28 46 21 17-0551 FS-250 Optional Modules (28 46 21 17-0545)		
28 46 21 17-0552 EA Main Board Module (Siemens FS-MB2).....	1,104.13	68.41
28 46 21 17-0553 EA Display Board Module (Siemens FS-DB2).....	851.28	34.21
28 46 21 17-0554 EA Device Loop Card (Siemens FS-DLC).....	700.73	34.21
28 46 21 17-0555 EA Releasing Module (Siemens FS-REL).....	320.58	34.21
28 46 21 17-0556 EA Remote LCD Annunciator (Siemens FS-RD2).....	696.02	34.21
28 46 21 17-0557 EA Relay Processor Card (Siemens FS-RU2).....	606.63	34.21
28 46 21 17-0558 EA Relay Expander Board (Siemens FS-RE8).....	520.07	34.21
28 46 21 17-0559 EA Serial Annunciator Processor Card (Siemens FS-SAU2).....	696.02	34.21
28 46 21 17-0560 EA 16 Output Annunciator Extender (Siemens FS-SAE16).....	546.41	34.21
28 46 21 17-0561 EA Digital Alarm Communication Transmitter (Siemens FS-DACT).....	498.42	34.21
28 46 21 17-0562 EA Municipal Tie Module (Siemens FS-MT).....	425.97	34.21
28 46 21 17-0563 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	406.88	
28 46 21 17-0564 EA Programming Cable Kit (Siemens CBL-UD).....	106.66	17.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0565 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE).....	193.56	34.21
28 46 21 17-0566 EA Releasing Power Transformer (Siemens FS-RPT-A).....	196.38	34.21
28 46 21 17-0567 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB).....	216.57	27.36
28 46 21 17-0568 EA Cabinet Trim Kit (Siemens RD-CAB-TK).....	339.08	17.10
28 46 21 17-0569 Firefinder Systems (28 46 21 17-0544)		
28 46 21 17-0570 XLS Basic Fire System Packages Without Backbox (28 46 21 17-0569)		
28 46 21 17-0571 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	9,655.35	684.14
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 17-0572 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	8,580.78	684.14
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 17-0573 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	8,580.78	684.14
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 17-0574 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	13,921.61	684.14
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0575 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	14,367.62	684.14
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0576 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	8,472.57	684.14
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0577 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	8,472.57	684.14
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0578 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	9,729.68	684.14
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0579 Firefinder - XLS Basic System Equipment (28 46 21 17-0569)		
28 46 21 17-0580 EA Person Machine Interface With Central Processor (Siemens PMI).....	4,504.46	684.14
Note: Includes inner door.		
28 46 21 17-0581 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	7,281.20	684.14
Note: Includes inner door.		
28 46 21 17-0582 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	4,504.46	684.14
Note: Includes inner door.		
28 46 21 17-0583 EA Two Slot Card Cage (Siemens CC-2).....	535.12	34.21
28 46 21 17-0584 EA Five Slot Card Cage (Siemens CC-5).....	893.62	34.21
28 46 21 17-0585 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	1,270.00	34.21
28 46 21 17-0586 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,325.52	34.21
28 46 21 17-0587 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	429.73	34.21
28 46 21 17-0588 EA Device Loop Card (Siemens DLC).....	1,502.42	34.21
Note: Interfaces with up to 252 detectors and devices.		
28 46 21 17-0589 EA Controllable Relay Card (Siemens CRC-6).....	857.87	34.21
Note: Provides six programmable relays.		
28 46 21 17-0590 EA 12 Amperes Power Supply Charger Module (Siemens PSC-12).....	3,204.60	34.21
28 46 21 17-0591 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI).....	5,759.68	684.14
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 21 17-0592 EA Network Interface Card (Siemens NIC-C).....	1,000.89	34.21
Note: Provides HNET Or XNET communication between enclosures.		
28 46 21 17-0593 EA 12 Amperes Power Supply Extender (Siemens PSX-12).....	2,668.25	34.21
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 21 17-0594 EA Power Termination Board (Siemens PTB).....	463.61	34.21
Note: Used with systems requiring more than one PSX-12.		
28 46 21 17-0595 EA Conventional Detector Card (Siemens CDC-4).....	965.14	34.21
28 46 21 17-0596 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	1,875.03	34.21
28 46 21 17-0597 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	6,700.23	34.21
28 46 21 17-0598 Remote Lobby Enclosure (28 46 21 17-0569)		
28 46 21 17-0599 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	1,296.47	136.83
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0600 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	1,654.03	136.83
Note: Flush mounted. Includes clear lens plate on cover.		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0601 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP)..... Note: Required to mount up to four SIM-16 or OCM-16 modules.	212.38	34.21
28 46 21 17-0602 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP)..... Note: Required to mount up to eight SIM-16 or OCM-16 modules.	230.25	34.21
28 46 21 17-0603 Battery Enclosures (28 46 21 17-0569)		
28 46 21 17-0604 EA Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT).....	829.76	136.83
28 46 21 17-0605 Graphic Annunciator Output Drivers And Inputs (28 46 21 17-0569)		
28 46 21 17-0606 EA Output Control Module (Siemens OCM-16).....	624.51	34.21
28 46 21 17-0607 EA Supervised Input Module (Siemens SIM-16).....	624.51	34.21
28 46 21 17-0608 Remote LCD Displays (28 46 21 17-0569)		
28 46 21 17-0609 EA Remote LED/LCD System Status Display (Siemens SSD)..... Note: No control or menu capability.	1,459.53	102.62
28 46 21 17-0610 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	1,639.25	102.62
28 46 21 17-0611 Voice Equipment (28 46 21 17-0569)		
28 46 21 17-0612 EA 40 Watts Zone Amplifier Card (Siemens ZAC-40).....	1,415.85	34.21
28 46 21 17-0613 EA 180 Watts Zone Amplifier Module (Siemens ZAM-180).....	3,116.15	34.21
28 46 21 17-0614 EA Live Voice Module (Siemens LVM)..... Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.	1,322.70	34.21
28 46 21 17-0615 MXL Series Equipment (28 46 21 17-0544)		
28 46 21 17-0616 MXL Optional Equipment (28 46 21 17-0615)		
28 46 21 17-0617 EA Two Circuit Analog Loop Driver (Siemens ALD-2I).....	1,540.73	68.41
28 46 21 17-0618 EA CXL/MXL Interface Module (Siemens CMI-300).....	3,907.49	34.21
28 46 21 17-0619 EA Four Relay Programmable Relay Module (Siemens CRM-4).....	685.67	34.21
28 46 21 17-0620 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	823.99	34.21
28 46 21 17-0621 EA Remote Conventional Zone Module (Siemens CZM-1B6).....	321.53	34.21
28 46 21 17-0622 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	205.79	34.21
28 46 21 17-0623 EA Four Circuit Conventional Zone Module (Siemens CZM-4).....	802.35	34.21
28 46 21 17-0624 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	309.63	51.31
28 46 21 17-0625 EA Lexan Window For RCC (Siemens GENBOX-WD).....	206.22	27.36
28 46 21 17-0626 EA Input Driver Module (Siemens MID-16).....	532.30	34.21
28 46 21 17-0627 EA Programmable Output Driver Module (Siemens MOD-16).....	532.30	34.21
28 46 21 17-0628 EA MXL Output/Input Module (Siemens MOI-7).....	840.93	34.21
28 46 21 17-0629 EA Two Slot Network Option Module Card Cage (Siemens MOM-2).....	456.08	34.21
28 46 21 17-0630 EA Four Slot Network Option Module Card Cage (Siemens MOM-4).....	707.32	34.21
28 46 21 17-0631 EA 12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220).....	1,749.34	102.62
28 46 21 17-0632 EA 12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240).....	1,749.34	102.62
28 46 21 17-0633 EA Network Interface Module (Siemens NIM-1W).....	1,245.54	34.21
28 46 21 17-0634 EA U.L. Listed Parallel Printer (Siemens PAL-1).....	3,284.70	136.83
28 46 21 17-0635 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324).....	377.98	34.21
28 46 21 17-0636 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	3,875.90	684.14
28 46 21 17-0637 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL).....	468.99	68.41
28 46 21 17-0638 EA Flush Mounted Remote Command Center (Siemens RCC-1F).....	3,875.90	684.14
28 46 21 17-0639 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL).....	480.28	68.41
28 46 21 17-0640 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	3,061.98	684.14
28 46 21 17-0641 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	4,406.60	684.14
28 46 21 17-0642 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	76.55	17.10
28 46 21 17-0643 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL).....	5,029.77	68.41
28 46 21 17-0644 EA Remote Diagnostics Module For PC (Siemens RDM-PC).....	10,672.65	68.41
28 46 21 17-0645 EA Releasing End Of Line Module (Siemens REL-EOL).....	170.97	34.21
28 46 21 17-0646 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC).....	3,220.32	68.41
28 46 21 17-0647 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	3,076.36	68.41
28 46 21 17-0648 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	1,686.03	136.83
28 46 21 17-0649 Complete MXL And MXLV System Packages Without Enclosure (28 46 21 17-0615)		
28 46 21 17-0650 EA MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB- 2, One Mps-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP)..... Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.	12,379.40	684.14
28 46 21 17-0651 EA MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM- 2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP)..... Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.	15,906.08	684.14



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46 21	17-0652	EA	MXLV Demonstration Panel (Siemens MXLV DEMO).....	32,376.46	684.14
28 46 21 17-0653				MXL Basic System (28 46 21 17-0615)		
	28 46 21	17-0654	EA	MXL/MXLV Main Control Board (Siemens MMB-3).....	7,941.88	684.14
	28 46 21	17-0655	EA	MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL)..... Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.	10,048.66	684.14
	28 46 21	17-0656	EA	MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	2,721.62	68.41
	28 46 21	17-0657	EA	MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	3,400.99	68.41
	28 46 21	17-0658	EA	6 Amperes Power Supply For MXL (Siemens MPS-6).....	1,221.47	102.62
	28 46 21	17-0659	EA	220/240 Volt AC Adapter Cable (Siemens CIA-12).....	95.37	17.10
28 46 21 17-0660				MXL/MXLR System Expansion Accessories (28 46 21 17-0615)		
	28 46 21	17-0661	EA	MXL Remote Power Supply Module (Siemens PSR-1).....	1,487.75	102.62
	28 46 21	17-0662	EA	Style 4 Communication Module (Siemens NET-4).....	312.12	34.21
	28 46 21	17-0663	EA	Style 7 Communication Module (Siemens NET-7).....	553.94	34.21
	28 46 21	17-0664	EA	MXL/MXL-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	339.40	34.21
28 46 21 17-0665				Peripheral Devices (28 46 21 17-0544)		
28 46 21 17-0666				Thermal Detectors (28 46 21 17-0665)		
	28 46 21	17-0667	EA	Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	148.73	51.31
	28 46 21	17-0668	EA	Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	148.73	51.31
	28 46 21	17-0669	EA	135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	148.73	51.31
	28 46 21	17-0670	EA	200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	148.73	51.31
	28 46 21	17-0671	EA	Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	219.30	51.31
	28 46 21	17-0672	EA	Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	219.30	51.31
	28 46 21	17-0673	EA	Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	504.41	51.31
28 46 21 17-0674				Beam Smoke Detector (28 46 21 17-0665)		
	28 46 21	17-0675	EA	Linear Beam Smoke Detector (Siemens PBA-1191).....	2,311.01	51.31
	28 46 21	17-0676	EA	Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	267.57	17.10
	28 46 21	17-0677	EA	20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	270.39	17.10
	28 46 21	17-0678	EA	10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	142.42	17.10
28 46 21 17-0679				Bases For Detectors (28 46 21 17-0665)		
	28 46 21	17-0680	EA	Detector Base (Siemens DB-11).....	48.32	17.10
	28 46 21	17-0681	EA	Universal Base (Siemens DB-3S).....	45.50	17.10
28 46 21 17-0682				Manual Stations (28 46 21 17-0665)		
	28 46 21	17-0683	EA	Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	306.99	41.05
28 46 21 17-0684				Addressable Devices (28 46 21 17-0544)		
28 46 21 17-0685				Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 21 17-0684)		
	28 46 21	17-0686	EA	Addressable Fireprint Fire Detector (Siemens HFP-11).....	264.46	51.31
	28 46 21	17-0687	EA	Addressable Thermal Fire Detector (Siemens HFPT-11).....	231.53	51.31
	28 46 21	17-0688	EA	Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	192.95	51.31
	28 46 21	17-0689	EA	Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC).....	137.44	51.31
	28 46 21	17-0690	EA	Wall Mounted Remote Alarm Indicator (Siemens RL-HW).....	137.44	51.31
	28 46 21	17-0691	EA	Addressable Single Action Manual Pull Station (Siemens HMS-S).....	266.95	34.21
	28 46 21	17-0692	EA	Addressable Double Action Manual Pull Station (Siemens HMS-D).....	255.66	34.21
	28 46 21	17-0693	EA	Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	205.79	34.21
	28 46 21	17-0694	EA	Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D).....	248.13	34.21
	28 46 21	17-0695	EA	Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R).....	248.13	34.21
	28 46 21	17-0696	EA	Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	191.67	34.21
	28 46 21	17-0697	EA	Line Isolator Module (Siemens HLIM).....	197.32	34.21
	28 46 21	17-0698	EA	Remote Convention Zone Module (Siemens HZM).....	283.89	34.21
	28 46 21	17-0699	EA	Intelligent Control Point Module (Siemens HCP).....	355.40	34.21
	28 46 21	17-0700	EA	Handheld Programming And Testing Unit (Siemens DPU).....	1,502.09	
	28 46 21	17-0701	EA	DPU Carrying Case (Siemens DPU-C1).....	235.06	
	28 46 21	17-0702	EA	Label Printer And Carrying Case (Siemens DPU-PR1).....	2,575.10	34.21
28 46 21 17-0703				Air Duct Housings And Detectors (28 46 21 17-0684)		
	28 46 21	17-0704	EA	Air-Duct Housing (Siemens AD2-P).....	287.14	27.36
	28 46 21	17-0705	EA	Air-Duct Housing With Relay (Siemens AD2-XHR).....	322.90	27.36
	28 46 21	17-0706	EA	Weatherproof Enclosure For Duct Housing (Siemens WP-2000).....	265.07	34.21
	28 46 21	17-0707	EA	6" To 1' Duct Sampling Tube (Siemens ST-10).....	39.34	10.26
	28 46 21	17-0708	EA	>1' To 3' Duct Sampling Tube (Siemens ST-25).....	49.00	13.69
	28 46 21	17-0709	EA	>3' To 5' Duct Sampling Tube (Siemens ST-50).....	61.50	17.10
	28 46 21	17-0710	EA	>5' To 10' Duct Sampling Tube (Siemens ST-100).....	72.10	20.52

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-0711		Intelligent Initiating Devices For MXL, MXL-LQ And MXLV <small>(28 46 21 17-0684)</small>		
28 46 21	17-0712	EA	Addressable Fireprint Fire Detector (Siemens FP-11)	274.81	51.31
28 46 21	17-0713	EA	Addressable Thermal Fire Detector (Siemens FPT-11)	240.00	51.31
28 46 21	17-0714	EA	Intelligent Ionization Smoke Detector (Siemens ILI-1)	301.16	51.31
28 46 21	17-0715	EA	Addressable Single Action Manual Pull Station (Siemens MSI-10B)	260.36	34.21
28 46 21	17-0716	EA	Addressable Double Action Manual Pull Station (Siemens MSI-20B)	285.77	34.21
28 46 21	17-0717	EA	Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	263.19	34.21
28 46 21	17-0718	EA	Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)	289.53	34.21
28 46 21	17-0719	EA	Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R)	289.53	34.21
28 46 21	17-0720		Detector Universal Bases <small>(28 46 21 17-0684)</small>		
28 46 21	17-0721	EA	Detector Base With Relay (Siemens DB-X11RS)	123.60	17.10
28 46 21	17-0722	EA	PE-11 To DB-3 Base Adapter (Siemens DB-ADPT)	67.14	17.10
28 46 21	17-0723	EA	Locking Kit (Siemens LK-11)	14.44	
28 46 21	17-0724	EA	Detector Base With Relay (Siemens DB-X3RS)	123.60	17.10
28 46 21	17-0725	EA	Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11)	142.42	17.10
28 46 21	17-0726	EA	Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX)	64.32	17.10
28 46 21	17-0727	EA	Flush Trim Ring For Bases (Siemens RA-ADB)	31.81	10.26
28 46 21	17-0728	EA	Seal For DB-11 (Siemens DB11-SEAL)	16.71	
28 46 21	17-0729	EA	Gasket For DB-11 (Siemens DB-SEAL)	17.95	
28 46 21	17-0730	EA	Detector Guard Housing (Siemens DGH-11)	177.23	17.10
28 46 21	17-0731	EA	Small Detector Base (Siemens DB-11E)	52.09	17.10
28 46 21	17-0732	EA	Audible Base For Series 3 (Siemens ADBI-60A)	159.36	17.10
28 46 21	17-0733	EA	Base Plug (Siemens DB-11-DP)	14.41	
28 46 21	17-0734		Air Duct Smoke Detectors <small>(28 46 21 17-0684)</small>		
28 46 21	17-0735	EA	Intelligent Remote Duct Relay Module (Siemens DA-X3SR)	144.63	34.21
28 46 21	17-0736	EA	Weatherproof Enclosure For Duct Housing (Siemens EAD-3)	677.20	34.21
28 46 21	17-0737		Notification Devices <small>(28 46 21 17-0544)</small>		
28 46 21	17-0738		Synchronization Control Devices <small>(28 46 21 17-0737)</small>		
28 46 21	17-0739	EA	Dual Synchronization Control Module (Siemens DSC)	205.79	34.21
28 46 21	17-0740		Stand Alone Strobes <small>(28 46 21 17-0737)</small>		
28 46 21	17-0741	EA	Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R)	182.60	51.31
28 46 21	17-0742	EA	Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R)	196.72	51.31
28 46 21	17-0743	EA	Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	182.60	51.31
28 46 21	17-0744	EA	Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR)	196.72	51.31
28 46 21	17-0745	EA	Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW)	196.72	51.31
28 46 21	17-0746	EA	Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW)	182.60	51.31
28 46 21	17-0747	EA	Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	207.07	51.31
28 46 21	17-0748	EA	Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	199.54	51.31
28 46 21	17-0749	EA	Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP)	199.54	51.31
28 46 21	17-0750	EA	Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP)	211.77	51.31
28 46 21	17-0751	EA	Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	211.77	51.31
28 46 21	17-0752		Horns And Strobes <small>(28 46 21 17-0737)</small>		
28 46 21	17-0753	EA	Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R)	238.12	51.31
28 46 21	17-0754	EA	Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	250.35	51.31
28 46 21	17-0755	EA	Wall Mounted Horn (Siemens SE-R)	148.73	51.31
28 46 21	17-0756	EA	Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR)	238.12	51.31
28 46 21	17-0757	EA	Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR)	250.35	51.31
28 46 21	17-0758	EA	Ceiling Mounted Horn (Siemens SEC-R)	154.37	51.31
28 46 21	17-0759	EA	Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	238.12	51.31
28 46 21	17-0760	EA	Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	250.35	51.31
28 46 21	17-0761	EA	Wall Mounted Low Profile Horn (Siemens SEF-R)	148.73	51.31
28 46 21	17-0762	EA	Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW)	238.12	51.31
28 46 21	17-0763	EA	Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW)	250.35	51.31
28 46 21	17-0764	EA	Ceiling Mounted Low Profile Horn (Siemens SEF-CR)	154.37	51.31
28 46 21	17-0765	EA	Mini Horn (Siemens MH-R)	128.03	51.31
28 46 21	17-0766	EA	Indoor/Outdoor Multi Tone Horn (Siemens MTH-R)	156.25	51.31
28 46 21	17-0767	EA	Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R)	225.88	51.31
28 46 21	17-0768	EA	Industrial Tri-Tone Horn (Siemens ASR)	596.62	51.31
28 46 21	17-0769	EA	Wall Mounted Horn (Siemens HS-R)	156.25	51.31
28 46 21	17-0770	EA	Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R)	226.83	51.31
28 46 21	17-0771	EA	Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R)	241.88	51.31
28 46 21	17-0772	EA	6" Motor Bell (Siemens MBDC-6)	175.07	51.31
28 46 21	17-0773	EA	10" Motor Bell (Siemens MBDC-10)	189.19	51.31
28 46 21	17-0774		Mounting Accessories <small>(28 46 21 17-0737)</small>		
28 46 21	17-0775	EA	Concealed Conduit Adapter Plate (Siemens APS-R)	45.50	17.10
28 46 21	17-0776	EA	4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R)	45.50	17.10



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0777	EA			4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	46.44	17.10
28 46 21 17-0778	EA			Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX).....	69.03	17.10
28 46 21 17-0779	EA			White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W).....	56.79	17.10
28 46 21 17-0780	EA			Surface Mounted Speaker Backbox (Siemens SBBS-R).....	59.62	17.10
28 46 21 17-0781	EA			Surface Mounted Speaker Backbox (Siemens SBLS-R).....	63.38	17.10
28 46 21 17-0782	EA			Square Semi-Flush Extension Ring (Siemens SERS-R).....	52.09	17.10
28 46 21 17-0783	EA			Semi-Flush Plate (Siemens SFPS-R).....	44.56	17.10
28 46 21 17-0784	EA			Square Surface Backbox (Siemens SHBBS-R).....	52.09	17.10
28 46 21 17-0785	EA			Horn Adapter Plate (Siemens SHMPS-R).....	50.21	17.10
28 46 21 17-0786	EA			Ceiling Speaker Extension Ring (Siemens SPECT-R).....	45.50	17.10
28 46 21 17-0787	EA			Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R).....	56.79	17.10
28 46 21 17-0788	EA			Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R).....	59.62	17.10
28 46 21 17-0789	EA			Weatherproof Speaker Backbox (Siemens WBBS-R).....	57.73	17.10
28 46 21 17-0790	EA			Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	63.38	17.10
28 46 21 17-0791	EA			Weatherproof Flush Plate (Siemens WFPAS-R).....	63.38	17.10
28 46 21 17-0792	EA			Weatherproof Horn Flush Plate (Siemens WFPS-R).....	63.38	17.10
28 46 21 17-0793	EA			Weatherproof Horn Backbox (Siemens WPBBS-R).....	59.62	17.10
28 46 21 17-0794	EA			Weatherproof Strobe Backbox (Siemens WPSBBS-R).....	59.62	17.10
28 46 21 17-0795	EA			Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT).....	45.50	17.10
28 46 21 17-0796	EA			Z Series Backbox (Siemens ZBB-R).....	50.21	17.10
28 46 21 17-0797 Door Holders <small>(28 46 21 17-0737)</small>						
28 46 21 17-0798	EA			120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	345.39	51.31
28 46 21 17-0799	EA			24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	345.39	51.31
28 46 21 17-0800 Voice Equipment <small>(28 46 21 17-0544)</small>						
28 46 21 17-0801 Voicecom <small>(28 46 21 17-0800)</small>						
28 46 21 17-0802	EA			Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	5,240.28	684.14
28 46 21 17-0803	EA			Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	8,110.18	684.14
28 46 21 17-0804 Johnson Controls Fire Alarm <small>(28 46 21 17)</small>						
28 46 21 17-0805	EA			Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	212.33	51.31
28 46 21 17-0806	EA			Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	210.29	51.31
28 46 21 17-0807	EA			Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	257.02	51.31
28 46 21 17-0808	EA			Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	256.37	51.31
28 46 21 17-0809	EA			411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	673.27	68.41
28 46 21 17-0810	EA			Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	201.91	51.31
28 46 21 17-0811	EA			Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	182.57	51.31
28 46 21 17-0812	EA			Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	178.47	51.31
28 46 21 17-0813	EA			Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	493.62	51.31
28 46 21 17-0814	EA			100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	2,336.95	102.62
28 46 21 17-0815	EA			AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E).....	2,265.66	102.62
28 46 21 17-0816	EA			120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120).....	2,304.12	102.62
28 46 21 17-0817	EA			AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E).....	2,208.10	102.62
28 46 21 17-0818	EA			30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30).....	1,098.78	102.62
28 46 21 17-0819	EA			AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E).....	1,098.78	102.62
28 46 21 17-0820	EA			Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	1,069.85	34.21
28 46 21 17-0821	EA			IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	1,112.17	34.21
28 46 21 17-0822	EA			Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A).....	820.93	34.21
28 46 21 17-0823	EA			IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A).....	820.93	34.21
28 46 21 17-0824	EA			Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R).....	583.53	34.21
28 46 21 17-0825	EA			Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610).....	1,863.43	68.41
28 46 21 17-0826	EA			Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT).....	820.93	34.21
28 46 21 17-0827	EA			Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT).....	852.74	34.21
28 46 21 17-0828	EA			Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A).....	737.46	34.21
28 46 21 17-0829	EA			Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A).....	737.46	34.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0830 EA Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX).....	134.95	30.79
28 46 21 17-0831 EA Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM).....	1,135.40	68.41
28 46 21 17-0832 EA Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS).....	2,438.97	68.41
28 46 21 17-0833 EA Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM).....	1,135.40	68.41
28 46 21 17-0834 EA Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS).....	2,438.97	68.41
28 46 21 17-0835 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP).....	51.47	17.10
28 46 21 17-0836 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI).....	125.74	17.10
28 46 21 17-0837 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB).....	119.02	17.10
28 46 21 17-0838 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401).....	54.34	17.10
28 46 21 17-0839 EA Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J).....	49.58	17.10
28 46 21 17-0840 EA Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100).....	836.17	68.41
28 46 21 17-0841 EA Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224).....	1,931.84	102.62
28 46 21 17-0842 EA Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S).....	2,039.77	102.62
28 46 21 17-0843 EA Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK).....	228.46	17.10
28 46 21 17-0844 EA Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK).....	156.52	17.10
28 46 21 17-0845 EA Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025).....	1,933.43	102.62
28 46 21 17-0846 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F).....	1,787.96	102.62
28 46 21 17-0847 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF).....	1,787.96	102.62
28 46 21 17-0848 EA Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070).....	2,090.58	102.62
28 46 21 17-0849 EA Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	1,931.84	102.62
28 46 21 17-0850 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	1,931.84	102.62
28 46 21 17-0851 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	1,931.84	102.62
28 46 21 17-0852 EA Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	2,301.83	102.62
28 46 21 17-0853 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	2,301.83	102.62
28 46 21 17-0854 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	2,301.83	102.62
28 46 21 17-0855 EA Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	249.80	34.21
28 46 21 17-0856 EA Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	375.61	34.21
28 46 21 17-0857 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	38.83	13.69
28 46 21 17-0858 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	41.79	13.69
28 46 21 17-0859 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	96.39	20.52
28 46 21 17-0860 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	48.41	13.69
28 46 21 17-0861 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	59.89	17.10
28 46 21 17-0862 EA Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	377.75	34.21
28 46 21 17-0863 EA Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	633.24	68.41
28 46 21 17-0864 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	546.48	102.62
28 46 21 17-0865 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	740.24	102.62
28 46 21 17-0866 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPs-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	804.99	102.62
28 46 21 17-0867 EA Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	407.64	13.69
28 46 21 17-0868 EA Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	611.51	13.69
28 46 21 17-0869 EA Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	671.47	13.69
28 46 21 17-0870 EA 6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6).....	868.10	136.83
28 46 21 17-0871 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8).....	1,116.33	136.83
28 46 21 17-0872 EA 80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	1,046.97	102.62
28 46 21 17-0873 EA Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	192.49	17.10
28 46 21 17-0874 EA Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	538.91	34.21
28 46 21 17-0875 EA Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	299.61	51.31
28 46 21 17-0876 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	248.58	51.31
28 46 21 17-0877 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	260.19	51.31
28 46 21 17-0878 EA Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	1,952.18	68.41
28 46 21 17-0879 EA Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	2,378.01	68.41
28 46 21 17-0880 EA Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	724.42	34.21
28 46 21 17-0881 EA IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320).....	5,069.11	547.31
28 46 21 17-0882 EA Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	2,398.69	68.41
28 46 21 17-0883 EA Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI).....	32,060.64	820.96
28 46 21 17-0884 EA Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	34,938.31	820.96
28 46 21 17-0885 EA Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	39,254.83	820.96
28 46 21 17-0886 EA Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	34,938.31	820.96
28 46 21 17-0887 EA Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	239.61	20.52
28 46 21 17-0888 EA Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	268.39	20.52
28 46 21 17-0889 EA Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	291.41	20.52
28 46 21 17-0890 EA Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	536.02	20.52
28 46 21 17-0891 EA Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	176.99	13.69
28 46 21 17-0892 EA Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	280.75	30.79
28 46 21 17-0893 EA Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	297.25	30.79
28 46 21 17-0894 EA Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D).....	533.50	30.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0895 EA Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	523.77	13.69
28 46 21 17-0896 EA Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	703.63	13.69
28 46 21 17-0897 EA Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	869.09	13.69
28 46 21 17-0898 EA Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX).....	259.30	34.21
28 46 21 17-0899 EA Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	119.90	13.69
28 46 21 17-0900 EA JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	5,058.23	547.31
28 46 21 17-0901 EA Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	3,659.22	410.48
Note: Includes CHS2-M2 Chassis		
28 46 21 17-0902 EA Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	6,486.71	547.31
28 46 21 17-0903 EA Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	6,173.55	410.48
28 46 21 17-0904 EA Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	4,504.80	410.48
28 46 21 17-0905 EA Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	2,380.75	51.31
28 46 21 17-0906 EA Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	2,404.76	51.31
28 46 21 17-0907 EA Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	2,404.76	51.31
28 46 21 17-0908 EA Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	2,849.78	68.41
28 46 21 17-0909 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems. The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2).....	2,420.26	68.41
Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box. Such As The ABS-2DB (requires The CHS-2D).		
28 46 21 17-0910 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,259.81	410.48
28 46 21 17-0911 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	1,729.08	68.41
28 46 21 17-0912 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,428.30	68.41
28 46 21 17-0913 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,278.38	68.41
28 46 21 17-0914 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	703.26	17.10
28 46 21 17-0915 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	230.22	13.69
28 46 21 17-0916 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	282.02	13.69
28 46 21 17-0917 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	568.04	17.10
28 46 21 17-0918 EA Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,035.65	17.10
28 46 21 17-0919 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	1,869.84	17.10
28 46 21 17-0920 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	154.19	17.10
28 46 21 17-0921 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	240.81	17.10
28 46 21 17-0922 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	122.81	17.10
28 46 21 17-0923 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	169.02	17.10
28 46 21 17-0924 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devices. (Johnson Controls, Inc. #M301MJ).....	134.94	17.10
28 46 21 17-0925 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	214.86	17.10
28 46 21 17-0926 EA Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	243.88	17.10
28 46 21 17-0927 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	141.12	17.10
28 46 21 17-0928 EA Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	1,990.37	51.31
28 46 21 17-0929 EA Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	1,764.79	34.21
28 46 21 17-0930 EA Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	1,632.42	34.21
28 46 21 17-0931 EA Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	64.05	6.84
28 46 21 17-0932 EA Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	1,430.14	34.21
28 46 21 17-0933 EA Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	1,362.61	34.21
28 46 21 17-0934 EA NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	3,469.68	68.41
28 46 21 17-0935 EA NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	971.16	34.21
28 46 21 17-0936 EA Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	267.63	13.69
28 46 21 17-0937 EA Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	619.50	34.21
28 46 21 17-0938 EA Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	619.50	34.21
28 46 21 17-0939 EA Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	168.38	13.69
28 46 21 17-0940 EA SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	46.23	6.84
28 46 21 17-0941 EA SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	46.23	6.84
28 46 21 17-0942 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR).....	188.96	51.31
28 46 21 17-0943 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	209.10	51.31
28 46 21 17-0944 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	245.81	58.15
28 46 21 17-0945 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	242.92	58.15
28 46 21 17-0946 EA Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,509.63	136.83
28 46 21 17-0947 EA Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	1,193.07	136.83
28 46 21 17-0948 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	188.96	51.31
28 46 21 17-0949 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	209.10	51.31

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-0950	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P).....	188.96	51.31
28 46 21	17-0951	EA	Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500)	36.50	13.69
28 46 21	17-0952	EA	SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON)	36.78	6.84
28 46 21	17-0953	EA	SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP)	41.41	6.84
28 46 21	17-0954	EA	SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS)	36.82	6.84
28 46 21	17-0955	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR)	175.08	51.31
28 46 21	17-0956	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH)	209.10	51.31
28 46 21	17-0957	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK)	245.81	58.15
28 46 21	17-0958	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P).....	209.10	51.31
28 46 21	17-0959	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	242.92	58.15
28 46 21	17-0960	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P).....	188.96	51.31
28 46 21	17-0961	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW).....	188.96	51.31
28 46 21	17-0962	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH).....	209.10	51.31
28 46 21	17-0963	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P).....	209.10	51.31
28 46 21	17-0964	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P).....	188.96	51.31
28 46 21	17-0965	EA	Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	234.20	17.10
28 46 21	17-0966	EA	Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	1,029.97	68.41
28 46 21	17-0967	EA	Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	276.26	68.41
28 46 21	17-0968	EA	Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	120.63	34.21
28 46 21	17-0969	EA	Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	120.63	34.21
28 46 21	17-0970	EA	Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	207.84	34.21
28 46 21	17-0971	EA	Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	224.52	34.21
28 46 21	17-0972	EA	Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH).....	224.52	34.21
28 46 21	17-0973	EA	Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	201.21	34.21
28 46 21	17-0974	EA	Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	268.00	34.21
28 46 21	17-0975	EA	Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	207.84	34.21
28 46 21	17-0976	EA	Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	120.63	34.21
28 46 21	17-0977	EA	Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	120.63	34.21
28 46 21	17-0978	EA	Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	224.52	34.21
28 46 21	17-0979	EA	Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	207.84	34.21
28 46 21	17-0980	EA	Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	207.84	34.21
28 46 21	17-0981		Honeywell Fire Alarm (28 46 21 17)		
28 46 21	17-0982		Notifier Fire Alarm (28 46 21 17-0981)		
28 46 21	17-0983		Fire Alarm Control Panel And Accessories (28 46 21 17-0982)		
28 46 21	17-0984	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	5,064.56	684.14
28 46 21	17-0985	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640).....	4,389.71	684.14
28 46 21	17-0986	EA	Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320).....	5,056.62	684.14
28 46 21	17-0987	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C).....	5,025.78	684.14
28 46 21	17-0988	EA	Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E).....	4,926.93	684.14
28 46 21	17-0989	EA	Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R).....	4,832.53	684.14
28 46 21	17-0990	EA	Two-Tone Sequential Module (Notifier 2TTM)	275.78	34.21
28 46 21	17-0991	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	67.95	6.84
28 46 21	17-0992	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC)	130.67	13.69
28 46 21	17-0993	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC)	198.25	20.52
28 46 21	17-0994	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P).....	288.38	
28 46 21	17-0995	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	62.32	
28 46 21	17-0996	EA	120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,758.21	684.14
28 46 21	17-0997	EA	240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,794.63	684.14
28 46 21	17-0998	EA	3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	160.11	6.84
28 46 21	17-0999	EA	Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER).....	53.08	6.84
28 46 21	17-1000	EA	Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	78.46	13.69
28 46 21	17-1001	EA	Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT).....	80.29	17.10
28 46 21	17-1002	EA	IP Communicator (Notifier IPDACT-2).....	529.23	34.21
28 46 21	17-1003	EA	IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD).....	609.50	34.21
28 46 21	17-1004	EA	Red, IP Communicator External Mounting Enclosure (Notifier IPENC).....	163.55	34.21
			Note: Includes IPBRKT.		
28 46 21	17-1005	EA	Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B).....	163.18	34.21
			Note: Includes IPBRKT		
28 46 21	17-1006	EA	Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT).....	45.72	13.69
28 46 21	17-1007	EA	Loop Control Module (Notifier LCM-320)	1,468.01	68.41
28 46 21	17-1008	EA	Loop Expander Module (Notifier LEM-320).....	1,205.64	68.41
28 46 21	17-1009	EA	Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,128.38	68.41
28 46 21	17-1010	EA	7' DACT Phone Cord (Notifier MCBL-7).....	22.39	
28 46 21	17-1011	EA	Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1).....	157.96	17.10
28 46 21	17-1012	EA	Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R).....	192.16	34.21
28 46 21	17-1013	EA	Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B).....	192.16	34.21
28 46 21	17-1014	EA	Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	766.36	34.21
28 46 21	17-1015	EA	Universal Zone Coder (Notifier UZC-256).....	1,062.11	34.21
28 46 21	17-1016	EA	Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI).....	330.13	
			Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 21	17-1017	EA	Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	813.76	
28 46 21	17-1018	EA	ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	543.71	
28 46 21	17-1019	EA	Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	4,664.50	20.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1020		
ONYX Cabinets <small>(28 46 21 17-0982)</small>		
28 46 21 17-1021 EA Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	510.69	17.10
28 46 21 17-1022 EA Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	682.07	17.10
28 46 21 17-1023 EA Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	840.47	17.10
28 46 21 17-1024 EA Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4)	102.74	20.52
28 46 21 17-1025 EA Chassis Bridge (Notifier CB-1)	92.00	17.10
28 46 21 17-1026 EA Four Position Chassis (Notifier CHS-4)	144.58	17.10
28 46 21 17-1027 EA Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2)	172.50	34.21
28 46 21 17-1028 EA Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	92.71	20.52
28 46 21 17-1029 EA Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP)	112.96	20.52
28 46 21 17-1030 EA One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	294.24	34.21
28 46 21 17-1031 EA One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	198.09	34.21
28 46 21 17-1032 EA Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	379.62	51.31
28 46 21 17-1033 EA Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	251.70	51.31
28 46 21 17-1034 EA Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	559.38	68.41
28 46 21 17-1035 EA Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B)	364.43	68.41
28 46 21 17-1036 EA Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	680.92	85.52
28 46 21 17-1037 EA Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	428.62	85.52
28 46 21 17-1038 EA Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	220.03	17.10
28 46 21 17-1039 EA Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B)	156.10	17.10
28 46 21 17-1040 EA Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	156.10	17.10
28 46 21 17-1041 EA Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	223.74	17.10
28 46 21 17-1042 EA Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR)	173.94	17.10
28 46 21 17-1043 EA Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	279.49	17.10
28 46 21 17-1044 EA Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	195.87	17.10
28 46 21 17-1045 EA Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	300.03	17.10
28 46 21 17-1046 EA Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	275.03	17.10
28 46 21 17-1047 EA Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	482.40	17.10
28 46 21 17-1048 EA Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	306.24	17.10
28 46 21 17-1049 EA Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	574.56	17.10
28 46 21 17-1050 EA Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4)	299.56	34.21
28 46 21 17-1051 EA Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	427.40	34.21
28 46 21 17-1052 EA Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	495.78	34.21
28 46 21 17-1053 EA Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	312.20	34.21
28 46 21 17-1054 EA Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	455.65	34.21
28 46 21 17-1055 EA Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	527.00	34.21
28 46 21 17-1056 EA Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R)	301.79	34.21
28 46 21 17-1057 EA Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R)	427.40	34.21
28 46 21 17-1058 EA Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R)	501.73	34.21
28 46 21 17-1059 EA Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R)	325.58	34.21
28 46 21 17-1060 EA Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R)	455.65	34.21
28 46 21 17-1061 EA Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R)	527.00	34.21
28 46 21 17-1062 EA Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC)	3,296.54	171.03
28 46 21 17-1063 EA CAB-4 Series Mounting Kit (Notifier P40-KITB)	283.21	34.21
Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 21 17-1064 EA Black, One Tier Backbox Assembly (Notifier SBB-A4)	355.21	102.62
28 46 21 17-1065 EA Black, Two Tier Backbox Assembly (Notifier SBB-B4)	495.08	136.83
28 46 21 17-1066 EA Black, Three Tier Backbox Assembly (Notifier SBB-C4)	614.17	136.83
28 46 21 17-1067 EA Black, Four Tier Backbox Assembly (Notifier SBB-D4)	751.39	171.03
28 46 21 17-1068 EA Black, Mini, One Tier, Backbox (Notifier SBB-AA4)	189.56	34.21
28 46 21 17-1069 EA Red, Mini, One Tier, Backbox (Notifier SBB-AA4R)	189.56	34.21
28 46 21 17-1070 EA Red, One Tier Backbox Assembly (Notifier SBB-A4R)	223.75	34.21
28 46 21 17-1071 EA Red, Two Tier Backbox Assembly (Notifier SBB-B4R)	298.82	34.21
28 46 21 17-1072 EA Red, Three Tier Backbox Assembly (Notifier SBB-C4R)	422.95	34.21
28 46 21 17-1073 EA Red, Four Tier Backbox Assembly (Notifier SBB-D4R)	494.30	34.21
28 46 21 17-1074 EA Trim Ring For NFS-320 Cabinet (Notifier TR-320)	171.49	20.52
28 46 21 17-1075 EA Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	171.49	20.52
28 46 21 17-1076 EA Black, "AA" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	224.64	20.52
28 46 21 17-1077 EA Black, "A" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4)	181.53	20.52
28 46 21 17-1078 EA Black, "B" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	182.64	20.52
28 46 21 17-1079 EA Black, "C" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	180.78	20.52
28 46 21 17-1080 EA Black, "D" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4)	184.87	20.52
28 46 21 17-1081 EA 2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B)	77.77	20.52
28 46 21 17-1082 EA Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2)	47.29	6.84
28 46 21 17-1083		
NFS2-3030/640 Cabinet Mechanicals <small>(28 46 21 17-0982)</small>		
28 46 21 17-1084 EA Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640)	105.45	20.52
28 46 21 17-1085 EA Blank Module Dress Plate (Notifier BM-1B)	90.45	20.52
28 46 21 17-1086 EA Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4)	100.15	20.52
28 46 21 17-1087 EA Four Position Expansion Chassis (Notifier CHS-4MB)	216.31	17.10
28 46 21 17-1088 EA Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3)	229.65	51.31
28 46 21 17-1089 EA Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2)	108.98	20.52
28 46 21 17-1090		
NFS-3030/640 Cabinet Mechanicals <small>(28 46 21 17-0982)</small>		
28 46 21 17-1091 EA Annunciator Dress Plate (Notifier ADP-4B)	101.04	20.52
28 46 21 17-1092 EA Blank Module Dress Plate (Notifier BMP-1)	70.16	20.52
28 46 21 17-1093 EA Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	147.36	34.21
28 46 21 17-1094 EA Module Dress Plate (Notifier MP-1B)	101.92	20.52

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1095		Battery Cabinets (28 46 21 17-0982)		
28 46 21	17-1096	EA	Six Position Chassis (Notifier CHS-6).....	105.73	34.21
28 46 21	17-1097	EA	Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB).....	464.60	102.62
28 46 21	17-1098		Digital Voice (28 46 21 17-0982)		
28 46 21	17-1099	EA	Chassis Used With BB-XP (Notifier 18439).....	53.16	17.10
28 46 21	17-1100	EA	220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E).....	2,161.98	51.31
28 46 21	17-1101	EA	220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E).....	2,101.84	51.31
28 46 21	17-1102	EA	220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E).....	1,067.73	51.31
28 46 21	17-1103	EA	Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4).....	426.37	51.31
28 46 21	17-1104	EA	Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4).....	577.03	68.41
28 46 21	17-1105	EA	Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4).....	718.85	85.52
28 46 21	17-1106	EA	Multimode Audio Fiber Link Receiver (Notifier AFL-RM).....	923.11	34.21
28 46 21	17-1107	EA	Multimode Audio Fiber Link Transmitter (Notifier AFL-TM).....	923.11	34.21
28 46 21	17-1108	EA	Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS).....	1,962.15	34.21
28 46 21	17-1109	EA	15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX).....	94.97	17.10
28 46 21	17-1110	EA	Flush Mounted, Key Lock, Door (Notifier AFAWS-KR).....	150.16	17.10
28 46 21	17-1111	EA	Surface Mounted, Key Lock, Door (Notifier AFAWS-KS).....	150.90	17.10
28 46 21	17-1112	EA	Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	146.44	17.10
28 46 21	17-1113	EA	Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	147.93	17.10
28 46 21	17-1114	EA	Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	286.18	17.10
28 46 21	17-1115	EA	Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	222.25	17.10
28 46 21	17-1116	EA	Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	90.99	
28 46 21	17-1117	EA	For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	556.39	34.21
28 46 21	17-1118	EA	For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	561.31	34.21
28 46 21	17-1119	EA	Blank Dress Plate For CA-2 (Notifier BP-CA2).....	93.86	17.10
28 46 21	17-1120	EA	One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	131.93	34.21
28 46 21	17-1121	EA	Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	361.98	51.31
28 46 21	17-1122	EA	Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	188.45	34.21
28 46 21	17-1123	EA	Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	188.45	34.21
28 46 21	17-1124	EA	Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	220.03	17.10
28 46 21	17-1125	EA	Chassis With Paging Microphone With Well (Notifier CMIC-1).....	217.80	17.10
28 46 21	17-1126	EA	120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	1,336.96	34.21
28 46 21	17-1127	EA	Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,558.87	34.21
28 46 21	17-1128	EA	Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,558.87	34.21
28 46 21	17-1129	EA	120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	1,379.30	34.21
28 46 21	17-1130	EA	Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	1,694.37	34.21
28 46 21	17-1131	EA	120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	1,431.35	34.21
28 46 21	17-1132	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,033.11	34.21
28 46 21	17-1133	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,033.11	34.21
28 46 21	17-1134	EA	220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,755.13	34.21
28 46 21	17-1135	EA	220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	1,804.42	34.21
28 46 21	17-1136	EA	220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	1,881.31	34.21
28 46 21	17-1137	EA	120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	1,196.18	34.21
28 46 21	17-1138	EA	220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	1,227.72	34.21
28 46 21	17-1139	EA	120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	1,256.31	34.21
28 46 21	17-1140	EA	220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	1,297.72	34.21
28 46 21	17-1141	EA	120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,306.59	34.21
28 46 21	17-1142	EA	220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,345.03	34.21
28 46 21	17-1143	EA	120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,383.48	34.21
28 46 21	17-1144	EA	220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,452.49	34.21
28 46 21	17-1145	EA	Dress Plate For CFFT-1 (Notifier DP-CFFT).....	106.49	17.10
28 46 21	17-1146	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	96.63	20.52
28 46 21	17-1147	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	108.98	20.52
28 46 21	17-1148	EA	Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	175.14	20.52
28 46 21	17-1149	EA	WPS Power Amplifier (Notifier DPA3204P).....	657.92	34.21
28 46 21	17-1150	EA	WPS Power Amplifier (Notifier DPA4001P).....	556.39	34.21
28 46 21	17-1151	EA	Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	1,242.51	34.21
28 46 21	17-1152	EA	120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	931.98	34.21
			Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 21	17-1153	EA	220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	942.82	34.21
			Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 21	17-1154	EA	Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB).....	1,563.88	34.21
28 46 21	17-1155	EA	125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA).....	615.53	34.21
28 46 21	17-1156	EA	Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	267.60	34.21
28 46 21	17-1157	EA	Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	267.60	34.21
28 46 21	17-1158	EA	Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	267.60	34.21
28 46 21	17-1159	EA	Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V).....	130.29	34.21
28 46 21	17-1160	EA	Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	258.07	34.21
28 46 21	17-1161	EA	Extended Memory For Digital Voice Command (Notifier DVC-EM).....	1,347.54	34.21
28 46 21	17-1162	EA	Keypad For Digital Voice Command (Notifier DVC-KD).....	441.18	68.41
28 46 21	17-1163	EA	Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	195.79	
28 46 21	17-1164	EA	Portable Fireman's Telephone Handset (Notifier FHS).....	119.60	
28 46 21	17-1165	EA	Red, Fireman's Telephone Handset (Notifier FHS-F).....	137.81	
28 46 21	17-1166	EA	Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	358.28	34.21
28 46 21	17-1167	EA	Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	358.28	34.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1168 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	62.29	10.26
28 46 21 17-1169 EA Paging Microphone Only (Notifier MIC-1).....	183.97	34.21
28 46 21 17-1170 EA Firefighter's Telephone Handset (Notifier TELH-1).....	135.96	
28 46 21 17-1171 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	411.57	34.21
28 46 21 17-1172 EA Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	411.57	34.21
28 46 21 17-1173 Amplifiers <small>(28 46 21 17-0982)</small>		
28 46 21 17-1174 EA 30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	764.43	34.21
28 46 21 17-1175 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	1,633.36	34.21
28 46 21 17-1176 EA 120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	1,587.49	34.21
28 46 21 17-1177 EA Audio Coupling Transformer (Notifier ACT-1).....	141.63	34.21
28 46 21 17-1178 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	161.04	34.21
28 46 21 17-1179 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	161.04	34.21
28 46 21 17-1180 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	161.04	34.21
28 46 21 17-1181 FireVoice-25/50 Emergency Voice Evacuation Control Panels <small>(28 46 21 17-0982)</small>		
28 46 21 17-1182 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	4,491.47	684.14
28 46 21 17-1183 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	3,265.23	684.14
28 46 21 17-1184 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	4,145.95	684.14
28 46 21 17-1185 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	5,297.68	684.14
28 46 21 17-1186 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	5,826.11	684.14
28 46 21 17-1187 System Printer <small>(28 46 21 17-0982)</small>		
28 46 21 17-1188 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6).....	1,622.78	34.21
28 46 21 17-1189 Batteries <small>(28 46 21 17-0982)</small>		
28 46 21 17-1190 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP).....	455.65	34.21
28 46 21 17-1191 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP).....	370.11	34.21
28 46 21 17-1192 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP).....	477.73	34.21
28 46 21 17-1193 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP).....	290.71	34.21
28 46 21 17-1194 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP).....	394.81	34.21
28 46 21 17-1195 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550).....	393.93	34.21
28 46 21 17-1196 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000).....	609.88	34.21
28 46 21 17-1197 Battery Backboxes And Miscellaneous Mechanicals <small>(28 46 21 17-0982)</small>		
28 46 21 17-1198 EA 14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17).....	139.83	27.36
28 46 21 17-1199 EA 24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25).....	219.73	27.36
Note: XP6 modules require a CHS-6.		
28 46 21 17-1200 EA 15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Backbox (Notifier BB-26).....	413.04	136.83
28 46 21 17-1201 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH).....	205.58	68.41
28 46 21 17-1202 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1).....	98.50	17.10
28 46 21 17-1203 EA Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25).....	287.13	27.36
28 46 21 17-1204 EA Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	179.60	27.36
28 46 21 17-1205 EA Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	197.06	27.36
28 46 21 17-1206 EA Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	208.58	27.36
28 46 21 17-1207 Power Supplies And Chargers <small>(28 46 21 17-0982)</small>		
28 46 21 17-1208 EA 120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610).....	1,461.07	51.31
28 46 21 17-1209 EA 220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E).....	1,532.04	51.31
28 46 21 17-1210 EA Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	1,152.58	34.21
28 46 21 17-1211 EA 6A Auxiliary Power Supply (Notifier APS-6R).....	844.81	34.21
28 46 21 17-1212 EA 10 Amperes Battery Charger (Notifier BC10A).....	811.69	51.31
28 46 21 17-1213 EA 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100).....	455.96	41.05
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 21 17-1214 EA Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R).....	461.16	41.05
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 21 17-1215 EA 30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200).....	865.82	41.05
Note: Holds four 55 ampere hour or four 100 ampere hour batteries		
28 46 21 17-1216 EA 30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	865.82	41.05
28 46 21 17-1217 EA 15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	175.44	34.21
28 46 21 17-1218 EA 25 To 120 Ampere Hours Battery Charger (Notifier CHG-120).....	894.99	34.21
28 46 21 17-1219 EA Mounts XPIQ-Ps And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	80.29	17.10
28 46 21 17-1220 EA Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1).....	118.57	17.10
28 46 21 17-1221 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8).....	603.00	34.21
28 46 21 17-1222 EA 8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E).....	887.42	102.62
28 46 21 17-1223 EA Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R).....	850.95	102.62
28 46 21 17-1224 EA 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8).....	978.12	102.62
28 46 21 17-1225 EA 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E).....	970.23	102.62
28 46 21 17-1226 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM).....	926.76	51.31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1227	EA		Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME).....	926.76	51.31
28 46 21 17-1228	EA		12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12).....	1,144.62	51.31
28 46 21 17-1229	EA		12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E).....	1,094.34	51.31
28 46 21 17-1230	EA		12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM).....	1,161.38	102.62
28 46 21 17-1231	EA		12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME).....	1,161.38	102.62
28 46 21 17-1232	EA		6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	833.20	102.62
28 46 21 17-1233	EA		6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	833.20	102.62
28 46 21 17-1234	EA		8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	896.29	102.62
28 46 21 17-1235	EA		8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	896.29	102.62
28 46 21 17-1236	EA		6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	727.72	102.62
28 46 21 17-1237	EA		9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	850.95	102.62
28 46 21 17-1238	EA		Class A Adapter HPFF8/HPFF12 (Notifier HPP31076).....	181.10	17.10
28 46 21 17-1239	EA		Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A).....	1,220.13	34.21
28 46 21 17-1240	EA		Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	173.95	34.21
28 46 21 17-1241			Network Control Annunciators (28 46 21 17-0982)		
28 46 21 17-1242	EA		Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	1,660.80	102.62
28 46 21 17-1243	EA		Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO).....	77.22	20.52
28 46 21 17-1244	EA		Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit).....	60.46	20.52
28 46 21 17-1245			FIRSTVISION Firefighter's Display (28 46 21 17-0982)		
28 46 21 17-1246	EA		ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	13,322.46	684.14
28 46 21 17-1247			FlashScan Addressable Modules (28 46 21 17-0982)		
28 46 21 17-1248	EA		Intelligent Addressable Control Module (Notifier FCM-1).....	164.57	34.21
28 46 21 17-1249	EA		Addressable Dual Monitor Module (Notifier FDM-1).....	180.44	34.21
28 46 21 17-1250	EA		Intelligent Addressable Monitor Module (Notifier FMM-1).....	141.63	34.21
28 46 21 17-1251	EA		Intelligent Addressable Miniature Monitor Module (Notifier FMM-101).....	129.28	34.21
28 46 21 17-1252	EA		Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20).....	236.02	34.21
28 46 21 17-1253	EA		Intelligent Addressable Relay Module (Notifier FRM-1).....	151.10	34.21
28 46 21 17-1254	EA		Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1).....	199.85	34.21
28 46 21 17-1255	EA		SLC Loop Powered Fault Isolator Module (Notifier ISO-X).....	139.87	34.21
28 46 21 17-1256			Addressable Device Bases And Accessories (28 46 21 17-0982)		
28 46 21 17-1257	EA		Intelligent Detector Base With Flange (Notifier B710LP).....	59.95	17.10
28 46 21 17-1258	EA		Weatherproof Device Housing (Notifier DH4000E-1).....	378.05	34.21
28 46 21 17-1259			XP6/XP10 Transponder (28 46 21 17-0982)		
28 46 21 17-1260	EA		Synchronization Daughter Module For XP6-C (Notifier SYNC-1).....	128.84	34.21
28 46 21 17-1261	EA		Six Circuit Supervised Control Module (Notifier XP6-C).....	530.66	34.21
28 46 21 17-1262	EA		Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	636.52	34.21
28 46 21 17-1263	EA		Six Relay Control Module (Notifier XP6-R).....	511.25	34.21
28 46 21 17-1264	EA		Ten Input Monitor Module (Notifier XP10-M).....	610.06	34.21
28 46 21 17-1265			LCD Display Annunciators (28 46 21 17-0982)		
28 46 21 17-1266	EA		80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80).....	730.13	102.62
28 46 21 17-1267	EA		80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	990.36	102.62
28 46 21 17-1268	EA		640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	1,022.12	102.62
28 46 21 17-1269	EA		8 To 16 Switch Smoke Control Expander (Notifier SCE-8).....	636.26	34.21
28 46 21 17-1270	EA		8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	350.11	34.21
28 46 21 17-1271	EA		Eight Switch Smoke Control Master Module (Notifier SCS-8).....	816.13	34.21
28 46 21 17-1272			ONYX ACM And AEM Series LED Annunciators (28 46 21 17-0982)		
28 46 21 17-1273	EA		Remote, Eight Form C Relay Module (Notifier ACM-8R).....	376.12	34.21
28 46 21 17-1274	EA		16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT).....	693.86	34.21
28 46 21 17-1275	EA		16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT).....	537.72	34.21
28 46 21 17-1276	EA		24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	693.86	34.21
28 46 21 17-1277	EA		24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT).....	537.72	34.21
28 46 21 17-1278	EA		32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A).....	537.72	34.21
28 46 21 17-1279	EA		32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A).....	484.79	34.21
28 46 21 17-1280	EA		48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	537.72	34.21
28 46 21 17-1281	EA		48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A).....	484.79	34.21
28 46 21 17-1282			Graphic Annunciator - Lamp Driver Modules (28 46 21 17-0982)		
28 46 21 17-1283	EA		Single Annunciator Flush Mounted Backbox (Notifier ABF-1B).....	265.63	68.41
28 46 21 17-1284	EA		Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB).....	284.15	68.41
28 46 21 17-1285	EA		Two Annunciator Flush Mounted Backbox (Notifier ABF-2B).....	332.47	85.52
28 46 21 17-1286	EA		Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB).....	356.28	85.52
28 46 21 17-1287	EA		Four Annunciator Flush Mounted Backbox (Notifier ABF-4B).....	558.79	119.72
28 46 21 17-1288	EA		Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1).....	98.83	20.52
28 46 21 17-1289	EA		Single Annunciator Surface Mounted Backbox (Notifier ABS-1B).....	190.20	68.41



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46 21 17-1290	EA		Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB).....	175.73	17.10
	28 46 21 17-1291	EA		Two Annunciator Surface Mounted Backbox (Notifier ABS-2B).....	224.16	68.41
	28 46 21 17-1292	EA		12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D).....	368.63	85.52
	28 46 21 17-1293	EA		Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	325.03	17.10
	28 46 21 17-1294	EA		Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D).....	582.61	119.72
	28 46 21 17-1295	EA		Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR).....	546.10	20.52
	28 46 21 17-1296	EA		Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB).....	214.42	27.36
	28 46 21 17-1297	EA		Annunciator Key Switch (Notifier AKS-1B).....	83.88	10.26
	28 46 21 17-1298	EA		Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D).....	105.90	34.21
	28 46 21 17-1299	EA		32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32).....	484.79	34.21
	28 46 21 17-1300	EA		24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24).....	138.19	6.84
	28 46 21 17-1301	EA		48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48).....	171.63	6.84
	28 46 21 17-1302	EA		32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32).....	404.51	34.21
	28 46 21 17-1303	EA		Lamp Driver Module (Notifier LDM-R32).....	674.17	34.21
	28 46 21 17-1304	EA		Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L).....	627.34	34.21
	28 46 21 17-1305	EA		48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48).....	176.09	6.84
	28 46 21 17-1306	EA		Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D).....	170.01	20.52
	28 46 21 17-1307	EA		Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D).....	130.63	20.52
	28 46 21 17-1308	EA		Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR).....	130.63	20.52
28 46 21 17-1309	Network Gateways <small>(28 46 21 17-0982)</small>					
	28 46 21 17-1310	EA		Common Alerting Protocol Gateway (Notifier CAP-GW).....	3,124.42	34.21
	28 46 21 17-1311	EA		Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF).....	2,327.89	34.21
	28 46 21 17-1312	EA		Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF).....	2,621.66	34.21
	28 46 21 17-1313	EA		Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF).....	2,887.83	34.21
	28 46 21 17-1314	EA		Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	2,348.59	34.21
	28 46 21 17-1315	EA		Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF).....	2,285.50	34.21
	28 46 21 17-1316	EA		Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF).....	2,572.37	34.21
	28 46 21 17-1317	EA		Modbus Gateway (Notifier MODBUS-GW).....	2,562.51	34.21
	28 46 21 17-1318	EA		22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW).....	2,968.88	22.57
	28 46 21 17-1319	EA		Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS).....	4,408.16	22.57
	28 46 21 17-1320	EA		1920x1080P Wide Screen (Notifier MON-42LCDW).....	13,940.94	22.57
	28 46 21 17-1321	EA		Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD).....	673.88	51.31
	28 46 21 17-1322	EA		Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD).....	1,225.67	51.31
	28 46 21 17-1323	EA		Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD).....	1,783.94	51.31
	28 46 21 17-1324	EA		Mass Notification Voice Paging (Notifier NOTIFY-IP).....	1,167.20	
	28 46 21 17-1325	EA		Embedded NFN Gateway (Notifier NFN-GW-EM).....	1,956.23	34.21
	28 46 21 17-1326	EA		NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F).....	1,956.23	34.21
	28 46 21 17-1327	EA		High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF).....	3,548.32	34.21
	28 46 21 17-1328	EA		High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF).....	4,129.95	34.21
	28 46 21 17-1329	EA		High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW).....	3,548.32	34.21
	28 46 21 17-1330	EA		NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W).....	1,956.23	34.21
	28 46 21 17-1331	EA		Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER).....	1,363.24	
	28 46 21 17-1332	EA		ONYXWorks Workstation (Notifier ONYXWORKS-WS).....	26,765.84	820.96
	28 46 21 17-1333	EA		Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	5,466.94	
				Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
	28 46 21 17-1334	EA		Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	5,466.94	
				Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
	28 46 21 17-1335	EA		Fiber Optics, Standard Network Repeater Board (Notifier RPT-F).....	1,093.65	34.21
	28 46 21 17-1336	EA		Wire, Standard Network Repeater Board (Notifier RPT-W).....	893.53	34.21
	28 46 21 17-1337	EA		Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF).....	1,060.13	34.21
	28 46 21 17-1338	EA		Signaling Line Circuit Integration Module (Notifier SLC-IM).....	1,181.39	34.21
	28 46 21 17-1339	EA		VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GV).....	2,444.21	34.21
	28 46 21 17-1340	EA		Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GV To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS).....	2,353.45	34.21
	28 46 21 17-1341	EA		Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3).....	2,596.64	
28 46 21 17-1342	NOTI-FIRE-NET Network Components <small>(28 46 21 17-0982)</small>					
	28 46 21 17-1343	EA		Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3).....	1,956.23	34.21
	28 46 21 17-1344	EA		Fiber Optic Network Communications Module (Notifier NCM-F).....	886.17	34.21
	28 46 21 17-1345	EA		NOTI-FIRE-NET Web Server (Notifier NWS).....	1,956.23	34.21
	28 46 21 17-1346	EA		Wired Network Communications Module (Notifier NCM-W).....	845.59	34.21
	28 46 21 17-1347	EA		Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit).....	118.22	17.10
28 46 21 17-1348	FireWarden Addressable Fire Panels <small>(28 46 21 17-0982)</small>					
	28 46 21 17-1349	EA		50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50).....	2,210.73	684.14
	28 46 21 17-1350	EA		Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100).....	2,523.90	684.14
	28 46 21 17-1351	EA		Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C).....	3,050.06	342.07

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1352	EA	Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E).....	3,050.06	342.07
28 46 21	17-1353	EA	Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	3,038.23	342.07
28 46 21	17-1354		FireWarden Accessories (28 46 21 17-0982)		
28 46 21	17-1355	EA	Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	190.32	51.31
28 46 21	17-1356	EA	Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T).....	182.89	51.31
28 46 21	17-1357		FireWarden Devices (28 46 21 17-0982)		
28 46 21	17-1358	EA	SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	138.98	34.21
28 46 21	17-1359	EA	Intelligent Addressable Control Module (Notifier NC-100).....	160.15	34.21
28 46 21	17-1360	EA	Intelligent Addressable Relay Module (Notifier NC-100R).....	154.86	34.21
28 46 21	17-1361	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	412.91	51.31
28 46 21	17-1362	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R).....	494.21	51.31
28 46 21	17-1363	EA	Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	154.86	34.21
28 46 21	17-1364	EA	Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	171.43	51.31
28 46 21	17-1365	EA	Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H).....	171.43	51.31
28 46 21	17-1366	EA	Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R).....	171.43	51.31
28 46 21	17-1367	EA	Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	217.30	51.31
28 46 21	17-1368	EA	Intelligent Addressable Monitor Module (Notifier NMM-100).....	137.22	34.21
28 46 21	17-1369	EA	Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	127.07	34.21
28 46 21	17-1370	EA	Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	176.47	34.21
28 46 21	17-1371	EA	Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100).....	177.60	51.31
28 46 21	17-1372	EA	Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100).....	194.56	34.21
28 46 21	17-1373	EA	Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6).....	622.41	34.21
28 46 21	17-1374		SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28 46 21 17-0982)		
28 46 21	17-1375	EA	120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402).....	1,535.69	547.31
28 46 21	17-1376	EA	120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404).....	1,649.49	547.31
28 46 21	17-1377	EA	240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	1,289.43	171.03
28 46 21	17-1378	EA	240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E).....	1,446.17	171.03
28 46 21	17-1379	EA	Class A Converter Module (Notifier CAC-4).....	315.92	34.21
28 46 21	17-1380	EA	Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	121.51	20.52
28 46 21	17-1381	EA	Remote Zone Annunciator (Notifier RZA-4X).....	194.04	51.31
28 46 21	17-1382		SFP-5UD 5 Zone Control Panels And Accessories (28 46 21 17-0982)		
28 46 21	17-1383	EA	120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	2,246.02	684.14
28 46 21	17-1384	EA	120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC).....	4,025.85	513.10
28 46 21	17-1385	EA	240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,660.10	342.07
28 46 21	17-1386	EA	Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	2,660.10	342.07
28 46 21	17-1387	EA	Class A Converter Module (Notifier N-CAC-5X).....	326.32	34.21
28 46 21	17-1388	EA	Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE).....	130.24	20.52
28 46 21	17-1389		SFP-10UD 10 Zone Control Panels And Accessories (28 46 21 17-0982)		
28 46 21	17-1390	EA	120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	4,963.16	684.14
28 46 21	17-1391	EA	240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE).....	3,712.95	513.10
28 46 21	17-1392	EA	120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD).....	2,493.02	684.14
28 46 21	17-1393	EA	Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	4,397.09	684.14
28 46 21	17-1394	EA	Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC).....	582.80	102.62
28 46 21	17-1395		Smoke Detectors (28 46 21 17-0982)		
28 46 21	17-1396	EA	Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	229.65	51.31
28 46 21	17-1397	EA	Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	358.45	51.31
28 46 21	17-1398	EA	Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,186.59	51.31
28 46 21	17-1399	EA	Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	174.72	51.31
			Note: For use with DNR(W) duct detector housing.		
28 46 21	17-1400	EA	Filters For Harsh Detector (Notifier RF-FTX).....	21.74	
28 46 21	17-1401	EA	Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY).....	141.41	34.21
28 46 21	17-1402		Pull Stations (28 46 21 17-0982)		
28 46 21	17-1403	EA	Trim Ring For NBG12 Series Pull Station (Notifier BG12TR).....	29.15	6.84
28 46 21	17-1404	EA	One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2).....	80.95	17.10
28 46 21	17-1405	EA	Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R).....	65.13	17.10
28 46 21	17-1406	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1).....	113.20	34.21
28 46 21	17-1407	EA	DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	122.94	34.21
28 46 21	17-1408	EA	Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS).....	161.24	34.21
28 46 21	17-1409	EA	Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R).....	113.20	34.21



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1410	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS).....	127.48	34.21
28 46 21 17-1411	EA	Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL).....	127.48	34.21
28 46 21 17-1412	EA	Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR).....	127.48	34.21
28 46 21 17-1413	EA	Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1).....	121.64	34.21
28 46 21 17-1414	EA	Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	130.08	34.21
28 46 21 17-1415	EA	Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL).....	886.52	41.05
28 46 21 17-1416	EA	Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	95.98	34.21
28 46 21 17-1417	EA	Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12).....	99.18	34.21
28 46 21 17-1418	EA	Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L).....	104.80	34.21
28 46 21 17-1419	EA	Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB).....	210.01	41.05
28 46 21 17-1420	EA	Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS).....	134.37	34.21
28 46 21 17-1421	EA	Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR).....	117.47	34.21
28 46 21 17-1422	EA	Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX).....	177.36	34.21
28 46 21 17-1423	EA	Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE).....	56.53	6.84
28 46 21 17-1424 Rate Compensation Heat Detectors (28 46 21 17-0982)				
28 46 21 17-1425	EA	135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135).....	180.25	51.31
28 46 21 17-1426	EA	194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194).....	180.25	51.31
28 46 21 17-1427 FM Series Door Releases (28 46 21 17-0982)				
28 46 21 17-1428	EA	1/2" Door Holder Spacer (Notifier FM900-50).....	31.11	10.26
28 46 21 17-1429	EA	3/4" Door Holder Spacer (Notifier FM900-75).....	31.11	10.26
28 46 21 17-1430	EA	1" Door Holder Spacer (Notifier FM900-100).....	31.11	10.26
28 46 21 17-1431	EA	Door Holder Extension Kit (Notifier FM900).....	32.43	10.26
28 46 21 17-1432	EA	90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	32.87	10.26
28 46 21 17-1433	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980).....	209.36	51.31
28 46 21 17-1434	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996).....	187.31	51.31
28 46 21 17-1435	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998).....	187.31	51.31
28 46 21 17-1436 Multicriteria Fire Detector (28 46 21 17-0982)				
28 46 21 17-1437	EA	Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851).....	269.85	51.31
28 46 21 17-1438	EA	Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851)..... Note: Detects fire, thermal, photo, CO and IR, with Flashscan.	269.11	51.31
28 46 21 17-1439 Modules (28 46 21 17-0982)				
28 46 21 17-1440	EA	Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	299.56	34.21
28 46 21 17-1441	EA	Addressable Firephone Control Module (Notifier FTM-1).....	196.25	34.21
28 46 21 17-1442 DH Series Door Releases (28 46 21 17-0982)				
28 46 21 17-1443	EA	Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	182.71	51.31
28 46 21 17-1444	EA	Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	191.81	51.31
28 46 21 17-1445	EA	Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	200.36	51.31
28 46 21 17-1446	EA	Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	198.13	51.31
28 46 21 17-1447	EA	Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	205.56	51.31
28 46 21 17-1448	EA	Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	211.88	51.31
28 46 21 17-1449	EA	Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	182.71	51.31
28 46 21 17-1450	EA	Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	190.70	51.31
28 46 21 17-1451	EA	Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	200.36	51.31
28 46 21 17-1452	EA	Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	220.80	51.31
28 46 21 17-1453	EA	Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	232.69	51.31
28 46 21 17-1454	EA	Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	246.44	51.31
28 46 21 17-1455	EA	Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	249.79	51.31
28 46 21 17-1456	EA	Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	263.91	51.31
28 46 21 17-1457	EA	Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2).....	281.00	51.31
28 46 21 17-1458	EA	.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC).....	21.83	6.84
28 46 21 17-1459	EA	.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	21.83	6.84
28 46 21 17-1460	EA	.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D).....	23.35	6.84
28 46 21 17-1461	EA	1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	21.83	6.84
28 46 21 17-1462	EA	1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	21.83	6.84
28 46 21 17-1463	EA	1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D).....	23.35	6.84
28 46 21 17-1464	EA	1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	22.61	6.84
28 46 21 17-1465	EA	1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC).....	22.61	6.84
28 46 21 17-1466	EA	1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	23.35	6.84
28 46 21 17-1467	EA	1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D).....	24.21	6.84
28 46 21 17-1468	EA	2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC).....	24.21	6.84
28 46 21 17-1469	EA	2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC).....	24.21	6.84
28 46 21 17-1470	EA	2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	24.99	6.84
28 46 21 17-1471	EA	2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D).....	24.99	6.84
28 46 21 17-1472	EA	3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC).....	24.99	6.84
28 46 21 17-1473	EA	3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	25.84	6.84

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1474	EA	3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D)	25.84	6.84
28 46 21	17-1475	EA	4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC)	26.62	6.84
28 46 21	17-1476	EA	4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC)	26.62	6.84
28 46 21	17-1477	EA	4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB)	27.48	6.84
28 46 21	17-1478	EA	4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD)	29.89	6.84
28 46 21	17-1479	EA	5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC)	29.08	6.84
28 46 21	17-1480	EA	5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B)	28.26	6.84
28 46 21	17-1481	EA	5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D)	29.89	6.84
28 46 21	17-1482	EA	Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP)	31.04	10.26
28 46 21	17-1483	EA	Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB)	31.82	10.26
28 46 21	17-1484	EA	Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD)	34.31	10.26
28 46 21	17-1485	EA	Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC)	50.47	10.26
28 46 21	17-1486	EA	Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB)	52.85	10.26
28 46 21	17-1487	EA	Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	55.23	10.26
28 46 21	17-1488	EA	Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	52.79	17.10
28 46 21	17-1489	EA	Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	54.43	17.10
28 46 21	17-1490	EA	Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD)	57.70	17.10
28 46 21	17-1491	EA	Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF)	229.67	
28 46 21	17-1492		First Command <small>(28 46 21 17-0982)</small>		
28 46 21	17-1493	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	6,644.28	855.16
28 46 21	17-1494	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	6,703.43	855.16
28 46 21	17-1495	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	1,711.96	68.41
28 46 21	17-1496	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE)	1,756.32	68.41
28 46 21	17-1497	EA	Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA)	3,093.08	68.41
28 46 21	17-1498	EA	Black, 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE)	3,191.66	68.41
28 46 21	17-1499	EA	50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	750.03	34.21
28 46 21	17-1500	EA	50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	750.03	34.21
28 46 21	17-1501	EA	Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	368.69	34.21
28 46 21	17-1502	EA	Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	649.05	34.21
28 46 21	17-1503	EA	Standalone Firefighter Telephone System (Notifier NFC-FFT)	2,299.50	68.41
			Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		
28 46 21	17-1504	EA	Local Operator Console (Notifier NFC-LOC)	2,252.18	68.41
			Note: Includes built-in microphone, message and zone control switches, black.		
28 46 21	17-1505	EA	Black, Remote Microphone (Notifier NFC-RM)	644.61	
28 46 21	17-1506	EA	Remote Page Unit (Notifier NFC-RPU)	1,912.08	68.41
			Note: Includes built-in microphone, message control switches, black.		
28 46 21	17-1507	EA	70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	286.19	34.21
28 46 21	17-1508	EA	Firefighters Phone Jack (Notifier N-FPJ)	126.43	10.26
28 46 21	17-1509	EA	Thumbblatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	41.03	10.26
28 46 21	17-1510	EA	Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	122.25	20.52
28 46 21	17-1511		LED Displays <small>(28 46 21 17-0982)</small>		
28 46 21	17-1512	EA	2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215)	1,769.81	41.05
28 46 21	17-1513	EA	Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	2,486.25	54.73
28 46 21	17-1514	EA	4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	2,514.84	54.73
28 46 21	17-1515	EA	8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	2,416.26	54.73
28 46 21	17-1516	EA	16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	3,372.49	54.73
28 46 21	17-1517	EA	LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	2,564.13	54.73
28 46 21	17-1518		Control Relays <small>(28 46 21 17-0982)</small>		
28 46 21	17-1519	EA	Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR)	65.95	17.10
28 46 21	17-1520	EA	Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	53.39	17.10
28 46 21	17-1521	EA	Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR)	170.61	34.21
28 46 21	17-1522	EA	Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	93.86	17.10
28 46 21	17-1523	EA	Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	109.28	17.10
28 46 21	17-1524	EA	24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	174.70	34.21
28 46 21	17-1525	EA	120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C)	174.70	34.21
28 46 21	17-1526	EA	Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR)	102.60	34.21
28 46 21	17-1527	EA	Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	56.66	17.10
28 46 21	17-1528	EA	Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR)	183.99	34.21
28 46 21	17-1529	EA	24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1)	81.94	34.21
28 46 21	17-1530	EA	12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2)	81.94	34.21
28 46 21	17-1531	EA	9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4)	81.94	34.21
28 46 21	17-1532		Gamewell-FCI Fire Control Instruments <small>(28 46 21 17-0982)</small>		
28 46 21	17-1533		7100 Series And NetSOLO® <small>(28 46 21 17-1532)</small>		
28 46 21	17-1534		7100 Compact Analog Addressable Fire Alarm Control Panels <small>(28 46 21 17-1533)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1535 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	1,142.39	410.48
28 46 21 17-1536 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	4,707.27	684.14
28 46 21 17-1537 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	5,081.39	684.14
28 46 21 17-1538 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E)	4,707.27	684.14
28 46 21 17-1539 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E)	5,081.39	684.14
28 46 21 17-1540 EA Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	1,289.49	
28 46 21 17-1541 EA Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,539.79	
28 46 21 17-1542 EA Analog Loop Unit (Gamewell-FCI ALU)	1,539.79	68.41
28 46 21 17-1543 NetSOLO® Intelligent Network (28 46 21 17-1533)		
28 46 21 17-1544 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)	1,704.45	68.41
Note: Mounted in 7100 panel.		
28 46 21 17-1545 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP).....	1,360.63	68.41
Note: Mounted in 7100 panel.		
28 46 21 17-1546 Components And Accessories (28 46 21 17-1533)		
28 46 21 17-1547 EA Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	848.23	51.31
28 46 21 17-1548 EA Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100).....	658.49	68.41
28 46 21 17-1549 EA Fiber Optic Line Driver Module (Gamewell-FCI FLD-1).....	1,181.47	68.41
28 46 21 17-1550 EA Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	495.14	68.41
28 46 21 17-1551 EA Enclosure Box (Gamewell-FCI EN-7100)	440.96	136.83
28 46 21 17-1552 EA Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2)	1,217.12	34.21
28 46 21 17-1553 E3 Series® Basic System (28 46 21 17-1532)		
28 46 21 17-1554 EA Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	1,170.03	68.41
28 46 21 17-1555 EA Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3)	1,015.08	68.41
28 46 21 17-1556 EA Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3)	1,170.03	68.41
28 46 21 17-1557 EA Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	1,015.08	68.41
28 46 21 17-1558 EA LCD Keypad Display (Gamewell-FCI LCD-E3).....	735.12	68.41
28 46 21 17-1559 EA Power Supply Module (Gamewell-FCI PM-9)	953.39	68.41
28 46 21 17-1560 EA Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX)	807.23	68.41
28 46 21 17-1561 EA Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A)	782.93	34.21
28 46 21 17-1562 EA Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3).....	472.56	68.41
28 46 21 17-1563 EA Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO)	1,212.92	68.41
28 46 21 17-1564 EA Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP)	1,021.37	68.41
28 46 21 17-1565 EA Local Operating Console (Gamewell-FCI 1100-0455)	684.81	51.31
28 46 21 17-1566 EA Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	2,154.61	51.31
28 46 21 17-1567 EA 70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70).....	877.34	68.41
28 46 21 17-1568 EA INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326)	2,608.94	68.41
28 46 21 17-1569 EA 8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1)	658.87	136.83
28 46 21 17-1570 EA C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC)	501.80	136.83
28 46 21 17-1571 EA Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP).....	112.04	34.21
28 46 21 17-1572 EA Programmable Switch Module (Gamewell-FCI ASM-16)	624.29	68.41
28 46 21 17-1573 EA LED Driver module (Gamewell-FCI ANU-48).....	624.29	68.41
28 46 21 17-1574 EA Network Graphic Annunciator (Gamewell-FCI NGA).....	1,809.29	51.31
28 46 21 17-1575 Addressable Devices, Module, Pulls And Accessories (28 46 21 17-1532)		
28 46 21 17-1576 Velociti® Series Sensors And Bases (28 46 21 17-1575)		
28 46 21 17-1577 EA Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	210.64	51.31
28 46 21 17-1578 EA Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F)	214.59	51.31
28 46 21 17-1579 EA Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F).....	226.45	51.31
28 46 21 17-1580 EA Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	179.03	51.31
28 46 21 17-1581 EA Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F)	185.61	51.31
28 46 21 17-1582 EA Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	179.03	51.31
28 46 21 17-1583 EA Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	254.11	51.31
28 46 21 17-1584 EA Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	530.75	51.31
28 46 21 17-1585 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPPF)	467.43	85.52
28 46 21 17-1586 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF)	520.12	85.52
28 46 21 17-1587 EA Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB)	272.46	
28 46 21 17-1588 EA Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF).....	55.29	17.10
28 46 21 17-1589 EA Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F)	570.27	51.31
28 46 21 17-1590 EA Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF).....	116.54	17.10
28 46 21 17-1591 EA Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	1,983.64	102.62
28 46 21 17-1592 Velociti® Series Modules And Pull Station (28 46 21 17-1575)		
28 46 21 17-1593 EA Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2F).....	152.06	34.21
28 46 21 17-1594 EA Dual Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2IF).....	235.71	34.21
28 46 21 17-1595 EA Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4F)	165.23	34.21
28 46 21 17-1596 EA Subloop Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4SF)	226.49	34.21
28 46 21 17-1597 EA Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	191.58	34.21
28 46 21 17-1598 EA Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	198.17	34.21

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1599	EA	Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	286.35	68.41
28 46 21	17-1600	EA	Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	204.09	34.21
28 46 21	17-1601	EA	Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	33.45	6.84
28 46 21	17-1602		Components And Accessories <small>(28 46 21 17-1575)</small>		
28 46 21	17-1603	EA	Remote LED Annunciator Alarm (Gamewell-FCI RA400Z).....	87.66	27.36
			Note: Mounts on single gang box.		
28 46 21	17-1604	EA	Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5).....	43.83	13.69
28 46 21	17-1605	EA	>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3).....	46.46	13.69
28 46 21	17-1606	EA	>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	55.95	17.10
28 46 21	17-1607	EA	>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	87.16	20.52
28 46 21	17-1608	EA	Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451).....	128.50	27.36
			Note: Mounts on single gang box.		
28 46 21	17-1609		Fixed And Rate of Rise Heat Detectors <small>(28 46 21 17-1575)</small>		
28 46 21	17-1610	EA	135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	125.01	51.31
28 46 21	17-1611	EA	194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602).....	125.01	51.31
28 46 21	17-1612	EA	135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603).....	120.24	51.31
28 46 21	17-1613	EA	194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604).....	120.24	51.31
28 46 21	17-1614		NAC Expander/Power Supply <small>(28 46 21 17-1575)</small>		
28 46 21	17-1615	EA	FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	2,043.09	547.31
28 46 21	17-1616	EA	6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	1,792.79	547.31
28 46 21	17-1617	EA	9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	1,917.94	547.31
28 46 21	17-1618		Batteries And Accessories <small>(28 46 21 17-1532)</small>		
28 46 21	17-1619	EA	B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	294.99	34.21
28 46 21	17-1620	EA	B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	724.44	34.21
28 46 21	17-1621	EA	B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	163.26	34.21
28 46 21	17-1622	EA	BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653).....	375.27	68.41
28 46 21	17-1623	EA	BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654).....	375.27	68.41
28 46 21	17-1624	EA	12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970)	337.06	68.41
28 46 21	17-1625		Electronic Door Holders <small>(28 46 21 17-1532)</small>		
			Note: Rixson products.		
28 46 21	17-1626	EA	XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000)	52.42	6.84
28 46 21	17-1627	EA	FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder(Gamewell-FCI 140-90000)	418.78	51.31
28 46 21	17-1628	EA	FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	562.37	51.31
28 46 21	17-1629	EA	FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002).....	275.72	51.31
28 46 21	17-1630	EA	FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003).....	263.86	51.31
28 46 21	17-1631	EA	FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004).....	275.72	51.31
28 46 21	17-1632	EA	FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	275.19	51.31
28 46 21	17-1633		SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes <small>(28 46 21 17-1532)</small>		
			See CSI section 28 46 21 17-1821 for devices.		
28 46 21	17-1634		SpectrAlert® Advance Accessories <small>(28 46 21 17-1532)</small>		
			See CSI section 28 46 21 17-1821 for backboxes, 28 46 21 17-2081 for backboxes.		
28 46 21	17-1635		Fire Alarm Programming <small>(28 46 21 17-1532)</small>		
			Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.		
28 46 21	17-1636	EA	Program And Test Up To 5 Fire Alarm Devices	500.00	
28 46 21	17-1637	EA	Program And Test >5 To 20 Fire Alarm Devices	1,000.00	
28 46 21	17-1638	EA	Program And Test >20 To 50 Fire Alarm Devices	2,000.00	
28 46 21	17-1639		Fire-Lite Fire Alarm <small>(28 46 21 17-0981)</small>		
28 46 21	17-1640		Addressable Control Panels <small>(28 46 21 17-1639)</small>		
28 46 21	17-1641	EA	25 Point Intelligent Control (Fire Lite MS-25)	2,126.51	684.14
28 46 21	17-1642	EA	50 Point Intelligent Control (Fire Lite MS-9050UD)	2,310.99	684.14
28 46 21	17-1643	EA	198-Point Intelligent Control (Fire Lite MS-9200UDLS).....	3,279.46	684.14
28 46 21	17-1644	EA	636-Point Intelligent Control (Fire Lite MS-9600LS).....	4,772.62	684.14
28 46 21	17-1645	EA	636-Point Intelligent Control (Fire Lite MS-9600UDLS)	4,596.60	684.14
28 46 21	17-1646	EA	IP And 4G Cellur Fire Alram Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	559.50	
28 46 21	17-1647		Silent Knight Fire Alarm <small>(28 46 21 17-0981)</small>		
28 46 21	17-1648	EA	Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS)	4,811.50	342.07
28 46 21	17-1649	EA	Supervised Remote Command Unit (Silent Knight EVS-RCU)	2,015.98	205.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1650 EA 50 Watt Amplifier (Silent Knight EVS-50W)	1,411.52	136.83
28 46 21 17-1651 EA 125 Watt Amplifier (Silent Knight EVS-125W)	2,481.22	136.83
28 46 21 17-1652 EA Voice Evacuation System (Silent Knight SKE-450)	2,375.20	136.83
28 46 21 17-1653 EA Fire Fighters Telephone (Silent Knight SK-FFT)	1,977.60	136.83
28 46 21 17-1654 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	2,044.37	205.24
28 46 21 17-1655 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)	1,515.64	136.83
28 46 21 17-1656 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)	1,168.33	136.83
28 46 21 17-1657 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)	1,013.15	136.83
28 46 21 17-1658 EA Combination Fire And CO Detector (Silent Knight SK-FIRE-CO)	325.57	51.31
28 46 21 17-1659 EA Photoelectric Detector (Silent Knight SK-PHOTO)	192.37	51.31
28 46 21 17-1660 EA Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T)	201.64	51.31
28 46 21 17-1661 EA Ionization Smoke Detector (Silent Knight SK-ION)	202.69	51.31
28 46 21 17-1662 EA 135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT)	178.72	51.31
28 46 21 17-1663 EA 190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT)	187.19	51.31
28 46 21 17-1664 EA 135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR)	190.31	51.31
28 46 21 17-1665 EA Sounder Base (Silent Knight B200SR)	110.52	17.10
28 46 21 17-1666 EA Intelligent Sounder Base (Silent Knight B200S)	116.72	17.10
28 46 21 17-1667 EA Isolator Base (Silent Knight B224BI)	93.01	17.10
28 46 21 17-1668 EA Relay Base (Silent Knight B224RB)	94.03	17.10
28 46 21 17-1669 EA Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE)	205.92	51.31
28 46 21 17-1670 EA Photoelectric Duct Detector (Silent Knight SK-DUCT)	321.69	51.31
28 46 21 17-1671 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM)	1,094.69	51.31
28 46 21 17-1672 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T)	1,248.04	51.31
28 46 21 17-1673 EA Dual Monitor Module (Silent Knight SK-MONITOR-2)	241.68	51.31
28 46 21 17-1674 EA Supervised Control Module (Silent Knight SK-CONTROL)	203.93	51.31
28 46 21 17-1675 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6)	654.09	68.41
28 46 21 17-1676 EA Relay Control Module (Silent Knight SK-RELA)	171.71	34.21
28 46 21 17-1677 EA Six Relay Control Module (Silent Knight SK-RELA-6)	633.01	68.41
28 46 21 17-1678 EA Zone Interface Module (Silent Knight SK-ZONE)	207.90	51.31
28 46 21 17-1679 EA Six Zone Interface Module (Silent Knight SK-ZONE-6)	753.71	68.41
28 46 21 17-1680 EA Monitor Module (Silent Knight SK-MONITOR)	181.01	51.31
28 46 21 17-1681 EA 10 Input Monitor Module (Silent Knight SK-MON-10)	730.73	68.41
28 46 21 17-1682 EA Monitor Module (Silent Knight SK-MINIMON)	169.68	51.31
28 46 21 17-1683 EA Fault Isolator Module (Silent Knight SK-ISO)	187.19	51.31
28 46 21 17-1684 EA Addressable Heat Sensor (Silent Knight SD505-AHS)	184.12	51.31
28 46 21 17-1685 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	198.73	51.31
28 46 21 17-1686 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	187.19	51.31
28 46 21 17-1687 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB)	134.28	17.10
28 46 21 17-1688 EA 6" Addressable Relay Base (Silent Knight SD505-6RB)	127.03	17.10
28 46 21 17-1689 EA 6" Isolator Base (Silent Knight SD505-6IB)	115.71	17.10
28 46 21 17-1690 EA Addressable Input Module (Silent Knight SD500-AIM)	186.17	51.31
28 46 21 17-1691 EA Addressable Notification Module (Silent Knight SD500-ANM)	225.78	51.31
28 46 21 17-1692 EA Addressable Relay Module (Silent Knight SD500-ARM)	203.93	51.31
28 46 21 17-1693 EA SLC Annunciator Driver Module (Silent Knight SD500-LED)	762.73	102.62
28 46 21 17-1694 EA Loop Isolation Module (Silent Knight SD500-LIM)	193.38	51.31
28 46 21 17-1695 EA Addressable Mini Input Module (Silent Knight SD500-MIM)	149.91	34.21
28 46 21 17-1696 EA Single Action Addressable Pull Station (Silent Knight SD500-PS)	189.59	34.21
28 46 21 17-1697 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	181.64	34.21
28 46 21 17-1698 EA Back Box (Silent Knight SK-PSSMBB)	87.99	27.36
28 46 21 17-1699 EA Smoke Detector Module (Silent Knight SD500-SDM)	213.85	51.31
28 46 21 17-1700 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB)	53.07	17.10
28 46 21 17-1701 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB)	53.07	17.10
28 46 21 17-1702 EA Addressable Duct Housing (Silent Knight SD505-DUCT)	335.28	51.31
28 46 21 17-1703 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	430.27	51.31
28 46 21 17-1704 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)	191.32	51.31
28 46 21 17-1705 EA Intelligent Power Module (Silent Knight 5895XL)	1,095.53	136.83
28 46 21 17-1706 EA Addressable Power Supply (Silent Knight 5496)	766.56	102.62
28 46 21 17-1707 EA Relay Interface Board (Silent Knight 5883)	291.36	34.21
28 46 21 17-1708 EA Remote LED Annunciator (Silent Knight 5865-3)	598.52	68.41
28 46 21 17-1709 EA Remote LED Annunciator (Silent Knight 5865-4)	674.79	68.41
28 46 21 17-1710 EA Remote LCD Annunciator (Silent Knight SK-5860)	653.53	102.62
28 46 21 17-1711 EA Serial/Parallel Printer Interface (Silent Knight 5824)	411.58	34.21
28 46 21 17-1712 EA LED Input/Output Module (Silent Knight / IntelliKnight 5880)	487.68	51.31
28 46 21 17-1713 EA Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	181.64	34.21
28 46 21 17-1714 EA Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	626.70	102.62
28 46 21 17-1715 EA Communicator (Silent Knight IPGSM-4G)	895.61	68.41
28 46 21 17-1716 EA Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,426.66	136.83
28 46 21 17-1717 EA 10 Zone Expander (Silent Knight SK-5217)	398.01	34.21
28 46 21 17-1718 EA Remote Annunciator (Silent Knight SK-5235)	412.13	68.41
28 46 21 17-1719 EA Status Display Module (Silent Knight 5280)	125.15	34.21
28 46 21 17-1720 EA Serial/Parallel Module (Silent Knight 5824)	480.00	68.41
28 46 21 17-1721 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)	834.98	136.83
28 46 21 17-1722 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)	850.30	136.83
28 46 21 17-1723 EA Dress Panel (Silent Knight SK-DP2/4)	161.23	34.21
28 46 21 17-1724 EA Class A Convertor (Silent Knight SK-CAC4)	405.07	51.31
28 46 21 17-1725 EA Transmitter Module (Silent Knight SK-4XTM)	223.80	51.31
28 46 21 17-1726 EA LED Interface Module (Silent Knight SK-4XLM)	207.90	51.31
28 46 21 17-1727 EA 110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24)	205.47	34.21
28 46 21 17-1728 EA Remote Annunciator (Silent Knight SK-RZA4)	207.90	51.31
28 46 21 17-1729 EA Zone Relay Module (Silent Knight SK-4XZM)	221.80	51.31
28 46 21 17-1730 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	729.61	136.83

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1731 EA Remote Battery Box Accessory Cabinet (Silent Knight RBB)	181.64	34.21
28 46 21 17-1732 EA Manual Pull Station (single action) (Silent Knight PS-SATK)	106.87	34.21
28 46 21 17-1733 EA Manual Pull Station (dual action) (Silent Knight PS-DATK)	114.55	34.21
28 46 21 17-1734 EA Manual Pull Station (dual action) (Silent Knight PS-DA)	112.39	34.21
28 46 21 17-1735 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	101.87	34.21
28 46 21 17-1736 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB)	213.21	41.05
28 46 21 17-1737 EA 6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495)	722.50	102.62
28 46 21 17-1738 EA 9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499)	806.80	102.62
28 46 21 17-1739 EA Detector (Silent Knight IDP-PhotoR)	263.41	51.31
28 46 21 17-1740 EA Monitoring Module (Silent Knight IDP)	263.55	51.31
28 46 21 17-1741 EA Cabinet (Silent Knight SK-5207)	374.49	102.62
28 46 21 17-1742 EA Innovair IDP-Product (Silent Knight Innovair IDP-Pduct)	491.53	34.21
28 46 21 17-1743 EA I/O Input-Output Module (Silent Knight SK-2880)	660.79	34.21
28 46 21 17-1744 EA Remote Annunciator (Silent Knight RA-2000)	1,897.74	102.62
28 46 21 17-1745 EA Power Supply (Silent Knight 5195/96)	1,168.53	34.21
28 46 21 17-1746 EA 8 Zone Expander (Silent Knight SK-5210)	914.66	34.21
28 46 21 17-1747 EA LCD Remote Annunciator (Silent Knight SK-5230)	392.74	68.41
28 46 21 17-1748 EA Ionization Smoke Detector (Silent Knight SK-ION)	202.69	51.31
28 46 21 17-1749 EA Addressable Relay Module (Silent Knight IDP-Relay)	229.56	51.31
28 46 21 17-1750 EA Telephone Line Monitor (Silent Knight SK-7150)	144.57	34.21
28 46 21 17-1751 EA Serial Driver Board (Silent Knight SK-2884)	256.28	34.21
28 46 21 17-1752 EA Smoke Detector Base (Silent Knight IDP-6AB)	76.52	17.10
28 46 21 17-1753 EA Mini Input Module (Silent Knight IDP-MINIMON)	195.35	34.21
28 46 21 17-1754 EA Status Display Module (Silent Knight SK-4180)	677.71	34.21
28 46 21 17-1755 EA 8-Channel Digital Communicator (Silent Knight SK-1420)	406.91	34.21
28 46 21 17-1756 EA Serial Parallel Module (Silent Knight SK-4824)	373.06	34.21
28 46 21 17-1757 EA Power Supply (Silent Knight SK-5197 / SK-5198)	1,337.79	34.21
28 46 21 17-1758 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204)	2,304.66	136.83
28 46 21 17-1759 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION)	271.87	51.31
28 46 21 17-1760 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo)	229.56	51.31
28 46 21 17-1761 EA Fire Slave Communicator Dialer (Silent Knight SK-5128)	437.48	34.21
28 46 21 17-1762 EA Intelligent Power Module (with cabinet) (Silent Knight SK-5496)	766.56	102.62
28 46 21 17-1763 Alerton <small>(28 46 21 17)</small>		
28 46 21 17-1764 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100)	408.50	10.26
28 46 21 17-1765 Cooper Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-1766 EA Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R)	159.83	34.21
28 46 21 17-1767 EA Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001)	3,690.59	58.15
28 46 21 17-1768 EA Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002)	4,859.07	58.15
28 46 21 17-1769 EA Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001)	1,794.78	68.41
28 46 21 17-1770 EA Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002)	1,805.17	68.41
28 46 21 17-1771 EA Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007)	1,805.17	68.41
28 46 21 17-1772 EA Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001)	1,345.57	68.41
28 46 21 17-1773 EA Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003)	1,345.57	68.41
28 46 21 17-1774 EA Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004)	1,345.57	68.41
28 46 21 17-1775 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005)	1,805.17	68.41
28 46 21 17-1776 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006)	1,805.17	68.41
28 46 21 17-1777 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007)	1,805.17	68.41
28 46 21 17-1778 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008)	1,805.17	68.41
28 46 21 17-1779 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002)	1,805.17	68.41
28 46 21 17-1780 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001)	2,073.92	68.41
28 46 21 17-1781 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003)	1,928.51	68.41
28 46 21 17-1782 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005)	1,928.51	68.41
28 46 21 17-1783 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006)	1,928.51	68.41
28 46 21 17-1784 Light Engineered Displays Message Boards <small>(28 46 21 17)</small>		
28 46 21 17-1785 EA Two Message Sign, "Announcement" And "Evacuate" (LED SP-2/MNS)	779.07	41.05
28 46 21 17-1786 EA Four Message Sign, "Fire", "Weather", "Announcement", "E Voluteate" (LED SP-4)	689.36	41.05
28 46 21 17-1787 STI Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-1788 EA Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100)	143.14	20.52
Note: Includes 9 Volt DC self contained battery.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1789	EA			Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	155.05	20.52
28 46 21 17-1790	EA			Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200)	96.79	20.52
28 46 21 17-1791	EA			Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	97.51	20.52
				Note: For surface mounted horn strobes.		
28 46 21 17-1792	EA			Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E)	88.13	20.52
28 46 21 17-1793	EA			Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D)	97.51	20.52
				Note: For surface mounted strobe.		
28 46 21 17-1794	EA			Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E)	81.09	20.52
28 46 21 17-1795	EA			NEMA 4X Rated Polycarbonate Dome Cover (STI-1229)	173.08	20.52
28 46 21 17-1796	EA			Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	119.69	20.52
				Note: For surface mounted pull stations.		
28 46 21 17-1797	EA			Backplate For Polycarbonate Cover (STI-1280)	63.85	20.52
28 46 21 17-1798	EA			Conduit Gasket For Polycarbonate Cover (STI-3003)	49.71	20.52
28 46 21 17-1799	EA			Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100)	64.64	20.52
28 46 21 17-1800	EA			Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150)	132.32	20.52
28 46 21 17-1801	EA			8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	111.76	20.52
28 46 21 17-1802	EA			Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	85.78	20.52
28 46 21 17-1803	EA			Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601)	81.81	20.52
28 46 21 17-1804	EA			Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	79.47	20.52
28 46 21 17-1805	EA			Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	81.81	20.52
28 46 21 17-1806	EA			Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605)	79.47	20.52
28 46 21 17-1807	EA			Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	81.81	20.52
28 46 21 17-1808	EA			Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610)	79.47	20.52
28 46 21 17-1809	EA			Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625)	143.86	20.52
28 46 21 17-1810	EA			White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705)	74.74	20.52
28 46 21 17-1811	EA			Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	96.88	20.52
28 46 21 17-1812	EA			Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	107.07	20.52
28 46 21 17-1813	EA			Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707)	107.07	20.52
28 46 21 17-1814	EA			White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708)	81.09	20.52
28 46 21 17-1815	EA			Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R)	81.09	20.52
28 46 21 17-1816	EA			White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711)	74.74	20.52
28 46 21 17-1817	EA			Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713)	81.09	20.52
28 46 21 17-1818	EA			White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714)	81.09	20.52
28 46 21 17-1819	EA			Yellow, "High Threat", Push Button Station (STI SS-2201)	109.78	10.26
28 46 21 17-1820	EA			Gasket Kit For STI Covers (STI SUB-121)	48.75	
28 46 21 17-1821				System Sensor Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-1822				Smoke Detectors <small>(28 46 21 17-1821)</small>		
28 46 21 17-1823	EA			Beam Detector Heater Kit (System Sensor BEAMHK)	46.77	6.84
28 46 21 17-1824	EA			Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR)	179.44	6.84
				Note: Four used with long range kit.		
28 46 21 17-1825	EA			Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	266.16	68.41
28 46 21 17-1826	EA			Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	209.30	68.41
28 46 21 17-1827	EA			Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK)	180.31	68.41
28 46 21 17-1828	EA			Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B)	159.96	51.31
28 46 21 17-1829	EA			Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B)	156.69	51.31
28 46 21 17-1830	EA			Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B)	166.14	51.31
28 46 21 17-1831	EA			Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B)	161.95	51.31
28 46 21 17-1832	EA			Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B)	164.12	51.31
28 46 21 17-1833	EA			Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	169.22	51.31
28 46 21 17-1834	EA			Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B)	242.84	51.31
28 46 21 17-1835	EA			Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151)	143.71	34.21
28 46 21 17-1836	EA			Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T)	161.89	34.21
				Note: Requires B100 series base.		
28 46 21 17-1837	EA			Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK)	214.08	17.10
28 46 21 17-1838	EA			Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK)	81.96	17.10
28 46 21 17-1839				Duct Smoke Detectors <small>(28 46 21 17-1821)</small>		
28 46 21 17-1840	EA			Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2)	297.35	51.31
28 46 21 17-1841	EA			Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120)	295.12	51.31
28 46 21 17-1842	EA			Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	380.17	58.15
28 46 21 17-1843	EA			Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S)	194.76	34.21
28 46 21 17-1844	EA			Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL)	53.60	10.26
28 46 21 17-1845	EA			Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	165.48	27.36
28 46 21 17-1846	EA			Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW)	260.91	34.21
28 46 21 17-1847	EA			1' Steel Sampling Tube (System Sensor DST1)	36.95	13.69
28 46 21 17-1848	EA			1.5' Steel Sampling Tube (System Sensor DST1.5)	39.48	13.69
28 46 21 17-1849	EA			3' Steel Sampling Tube (System Sensor DST3)	43.30	13.69
28 46 21 17-1850	EA			5' Steel Sampling Tube (System Sensor DST5)	52.29	17.10
28 46 21 17-1851	EA			10' Steel Sampling Tube (System Sensor DST10)	78.14	20.52
28 46 21 17-1852	EA			1', Steel, Exhaust Tube Duct (System Sensor ETX)	40.52	13.69
28 46 21 17-1853	EA			Remote Test Station For Duct Smoke Detector (System Sensor RTS151)	81.78	17.10
28 46 21 17-1854	EA			Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2)	149.02	
28 46 21 17-1855	EA			Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B)	160.17	

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1856		Heat Detectors <small>(28 46 21 17-1821)</small>		
	28 46 21	17-1857	EA Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P)	121.15	51.31
	28 46 21	17-1858	EA Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602)	120.24	51.31
	28 46 21	17-1859	EA Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621)	133.47	51.31
	28 46 21	17-1860	EA Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622)	133.47	51.31
28 46 21	17-1861		Horns <small>(28 46 21 17-1821)</small>		
	28 46 21	17-1862	EA Red, Mini Horn (System Sensor MHR)	126.22	51.31
	28 46 21	17-1863	EA White, Mini Horn (System Sensor MHW)	126.22	51.31
	28 46 21	17-1864	EA White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL)	127.37	51.31
	28 46 21	17-1865	EA Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R)	155.18	58.15
	28 46 21	17-1866	EA Red, Interior, Wall Mounted, Horn (System Sensor HRL)	127.37	51.31
	28 46 21	17-1867	EA Red, Outdoor, Wall Mounted, Horn (System Sensor HRK)	159.96	51.31
28 46 21	17-1868		Wall Mounted Horns/Strobes <small>(28 46 21 17-1821)</small>		
	28 46 21	17-1869	EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL)	158.36	51.31
	28 46 21	17-1870	EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH)	209.08	51.31
	28 46 21	17-1871	EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK)	220.37	58.15
	28 46 21	17-1872	EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P)	216.28	58.15
	28 46 21	17-1873	EA Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120)	224.27	58.15
	28 46 21	17-1874	EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK)	219.81	58.15
	28 46 21	17-1875	EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P)	211.08	58.15
	28 46 21	17-1876	EA Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R)	184.19	51.31
	28 46 21	17-1877	EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P)	155.76	51.31
	28 46 21	17-1878	EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL)	158.36	51.31
	28 46 21	17-1879	EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH)	210.38	51.31
	28 46 21	17-1880	EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK)	214.79	58.15
	28 46 21	17-1881	EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P)	216.28	58.15
	28 46 21	17-1882	EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P)	209.08	51.31
	28 46 21	17-1883	EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK)	225.38	58.15
	28 46 21	17-1884	EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P)	211.08	58.15
	28 46 21	17-1885	EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P)	155.21	51.31
	28 46 21	17-1886	EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL)	181.78	51.31
	28 46 21	17-1887	EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH)	191.72	51.31
	28 46 21	17-1888	EA Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK)	220.40	58.15
	28 46 21	17-1889	EA Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R)	207.36	58.15
	28 46 21	17-1890	EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL)	181.78	51.31
	28 46 21	17-1891	EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK)	261.72	58.15
	28 46 21	17-1892	EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK)	216.65	58.15
28 46 21	17-1893		Ceiling Mounted Horns/Strobes <small>(28 46 21 17-1821)</small>		
	28 46 21	17-1894	EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL)	160.22	51.31
	28 46 21	17-1895	EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH)	211.68	51.31
	28 46 21	17-1896	EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK)	214.79	58.15
	28 46 21	17-1897	EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK)	209.96	58.15
	28 46 21	17-1898	EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P)	202.59	51.31
	28 46 21	17-1899	EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL)	160.22	51.31
	28 46 21	17-1900	EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH)	211.68	51.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1901 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK)	214.79	58.15
28 46 21 17-1902 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P)	211.68	51.31
28 46 21 17-1903 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK)	209.96	58.15
28 46 21 17-1904 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P)	201.29	51.31
28 46 21 17-1905 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL)	182.71	51.31
28 46 21 17-1906 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	191.72	51.31
28 46 21 17-1907 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL)	182.71	51.31
28 46 21 17-1908 Wall Mounted Strobes <small>(28 46 21 17-1821)</small>		
28 46 21 17-1909 EA White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW)	67.58	17.10
28 46 21 17-1910 EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	117.64	17.10
28 46 21 17-1911 EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL)	147.03	51.31
28 46 21 17-1912 EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH)	168.78	51.31
28 46 21 17-1913 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	201.88	58.15
28 46 21 17-1914 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	200.12	58.15
28 46 21 17-1915 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	197.70	58.15
28 46 21 17-1916 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	179.49	58.15
28 46 21 17-1917 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P)	146.10	51.31
28 46 21 17-1918 EA White, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL)	146.66	51.31
28 46 21 17-1919 EA White, Amber Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT)	155.39	51.31
28 46 21 17-1920 EA White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT)	192.20	51.31
28 46 21 17-1921 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH)	199.99	51.31
28 46 21 17-1922 EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	198.70	51.31
28 46 21 17-1923 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	198.70	51.31
28 46 21 17-1924 EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	199.93	58.15
28 46 21 17-1925 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	198.25	58.15
28 46 21 17-1926 EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P)	199.56	58.15
28 46 21 17-1927 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R)	216.28	58.15
28 46 21 17-1928 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK)	196.77	58.15
28 46 21 17-1929 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	197.51	58.15
28 46 21 17-1930 EA White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P)	145.91	51.31
28 46 21 17-1931 EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	23.91	6.84
28 46 21 17-1932 EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B)	23.91	6.84
28 46 21 17-1933 EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G)	23.91	6.84
28 46 21 17-1934 EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R)	23.91	6.84
28 46 21 17-1935 Ceiling Mounted Strobes <small>(28 46 21 17-1821)</small>		
28 46 21 17-1936 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL)	149.07	51.31
28 46 21 17-1937 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH)	170.55	51.31
28 46 21 17-1938 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK)	201.88	58.15
28 46 21 17-1939 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK)	201.88	58.15
28 46 21 17-1940 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL)	149.07	51.31
28 46 21 17-1941 EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT)	156.51	51.31
28 46 21 17-1942 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH)	202.59	51.31
28 46 21 17-1943 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK)	198.25	58.15
28 46 21 17-1944 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK)	196.77	58.15

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1945	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	183.12	51.31
28 46 21	17-1946	EA	Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	23.91	6.84
28 46 21	17-1947	EA	Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	23.91	6.84
28 46 21	17-1948	EA	Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	23.91	6.84
28 46 21	17-1949	EA	Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	23.91	6.84
28 46 21	17-1950		Wall Mounted Speakers (28 46 21 17-1821)		
28 46 21	17-1951	EA	24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	318.91	51.31
28 46 21	17-1952	EA	Red, Wall Mounted Speaker (System Sensor SPRL).....	131.98	51.31
28 46 21	17-1953	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	186.24	51.31
28 46 21	17-1954	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	167.59	58.15
28 46 21	17-1955	EA	Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	146.73	51.31
28 46 21	17-1956	EA	White, Wall Mounted Speaker (System Sensor SPWL).....	131.98	51.31
28 46 21	17-1957	EA	White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	199.18	58.15
28 46 21	17-1958	EA	White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	143.42	51.31
28 46 21	17-1959		Ceiling Mounted Speakers (28 46 21 17-1821)		
28 46 21	17-1960	EA	Red, Ceiling Mounted Speaker (System Sensor SPCRL).....	129.93	51.31
28 46 21	17-1961	EA	Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	182.46	51.31
28 46 21	17-1962	EA	Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV).....	146.73	51.31
28 46 21	17-1963	EA	White, Ceiling Mounted Speaker (System Sensor SPCWL).....	131.61	51.31
28 46 21	17-1964	EA	White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	167.54	51.31
28 46 21	17-1965	EA	White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	199.93	58.15
28 46 21	17-1966		Wall Mounted Speakers/Strobes (28 46 21 17-1821)		
28 46 21	17-1967	EA	White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL).....	116.34	17.10
28 46 21	17-1968	EA	White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSWL).....	65.35	17.10
28 46 21	17-1969	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	188.09	51.31
28 46 21	17-1970	EA	Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	202.30	51.31
28 46 21	17-1971	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	260.98	58.15
28 46 21	17-1972	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	257.16	58.15
28 46 21	17-1973	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	226.31	58.15
28 46 21	17-1974	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	186.42	51.31
28 46 21	17-1975	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	197.01	51.31
28 46 21	17-1976	EA	White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	188.84	51.31
28 46 21	17-1977	EA	White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	259.76	58.15
28 46 21	17-1978	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	188.09	51.31
28 46 21	17-1979	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	249.33	51.31
28 46 21	17-1980	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	249.33	51.31
28 46 21	17-1981	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	267.19	58.15
28 46 21	17-1982	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	256.41	58.15
28 46 21	17-1983	EA	White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	185.68	51.31
28 46 21	17-1984	EA	White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	241.54	51.31
28 46 21	17-1985	EA	White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	241.54	51.31
28 46 21	17-1986		Ceiling Mounted Speakers/Strobes (28 46 21 17-1821)		
28 46 21	17-1987	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRL).....	178.06	51.31
28 46 21	17-1988	EA	Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	204.07	51.31
28 46 21	17-1989	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	197.01	51.31
28 46 21	17-1990	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL).....	178.06	51.31
28 46 21	17-1991	EA	White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-CLR-ALERT).....	187.35	51.31
28 46 21	17-1992	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH).....	249.33	51.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1993 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	268.31	58.15
28 46 21 17-1994 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	249.33	51.31
28 46 21 17-1995 EA White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	260.13	58.15
28 46 21 17-1996 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	267.19	58.15
28 46 21 17-1997 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P).....	178.06	51.31
28 46 21 17-1998 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	241.54	51.31
28 46 21 17-1999 EA White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	249.33	51.31
28 46 21 17-2000 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	241.54	51.31
28 46 21 17-2001 EA High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH).....	248.96	51.31
28 46 21 17-2002 Electric Alarm Bells (28 46 21 17-1821)		
28 46 21 17-2003 EA 6" 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	153.72	51.31
28 46 21 17-2004 EA 8" 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	162.82	51.31
28 46 21 17-2005 EA 10" 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	172.86	51.31
28 46 21 17-2006 EA 6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	176.64	51.99
28 46 21 17-2007 EA 8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	178.35	51.99
28 46 21 17-2008 EA 10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	189.17	51.99
28 46 21 17-2009 Device Bases (28 46 21 17-1821)		
28 46 21 17-2010 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	101.29	17.10
28 46 21 17-2011 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	98.50	17.10
28 46 21 17-2012 EA Intelligent Isolator Base (System Sensor B224BI).....	83.45	17.10
28 46 21 17-2013 EA Intelligent Relay Base (System Sensor B224RB).....	84.19	17.10
28 46 21 17-2014 EA Flangeless, Intelligent Detector Base (System Sensor B501).....	57.40	17.10
28 46 21 17-2015 Boxes, Plates And Decals (28 46 21 17-1821)		
28 46 21 17-2016 EA Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	55.63	17.10
28 46 21 17-2017 EA Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	104.02	20.52
28 46 21 17-2018 EA 120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K).....	52.94	17.10
28 46 21 17-2019 EA Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB).....	73.08	17.10
28 46 21 17-2020 EA White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW).....	78.43	17.10
28 46 21 17-2021 EA White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW).....	73.08	17.10
28 46 21 17-2022 EA Red Retrofit Plate (System Sensor RFP).....	35.53	10.26
28 46 21 17-2023 EA White Retrofit Plate (System Sensor RFPW).....	35.31	10.26
28 46 21 17-2024 EA Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB).....	63.79	17.10
28 46 21 17-2025 EA Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC).....	70.18	17.10
28 46 21 17-2026 EA Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCL).....	53.39	17.10
28 46 21 17-2027 EA White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCLW).....	53.39	17.10
28 46 21 17-2028 EA Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBRL).....	47.96	17.10
28 46 21 17-2029 EA Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPRL).....	52.05	17.10
28 46 21 17-2030 EA White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPWL).....	52.05	17.10
28 46 21 17-2031 EA White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBWL).....	47.96	17.10
28 46 21 17-2032 EA Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	54.98	17.10
28 46 21 17-2033 EA Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600).....	48.15	17.10
28 46 21 17-2034 EA Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS).....	17.94	6.84
28 46 21 17-2035 EA Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R).....	24.06	
28 46 21 17-2036 EA Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC).....	32.71	
28 46 21 17-2037 EA White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	24.06	
28 46 21 17-2038 EA White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	32.71	
28 46 21 17-2039 Chimes (28 46 21 17-1821)		
28 46 21 17-2040 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL).....	165.22	51.31
28 46 21 17-2041 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL).....	149.82	51.31
28 46 21 17-2042 Chime/Strobes (28 46 21 17-1821)		
28 46 21 17-2043 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL).....	199.24	51.31
28 46 21 17-2044 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL).....	199.24	51.31
28 46 21 17-2045 Carbon Monoxide Detectors (28 46 21 17-1821)		
28 46 21 17-2046 EA Conventional Carbon Monoxide Detector (System Sensor CO1224).....	248.42	68.41
28 46 21 17-2047 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	197.76	51.31
28 46 21 17-2048 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	18.18	6.84

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-2049		Switches <small>(28 46 21 17-1821)</small>		
	28 46 21 17-2050	EA	SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	164.73	27.36
	28 46 21 17-2051	EA	Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	181.46	27.36
	28 46 21 17-2052	EA	SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	164.73	27.36
	28 46 21 17-2053	EA	Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	181.46	27.36
	28 46 21 17-2054	EA	Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	170.68	27.36
	28 46 21 17-2055	EA	Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	161.02	27.36
28 46 21	17-2056		Low Frequency Sounders <small>(28 46 21 17-1821)</small>		
	28 46 21 17-2057	EA	Red, Low Frequency Sounder (System Sensor HR-LF).....	203.89	51.31
	28 46 21 17-2058	EA	White, Low Frequency Sounder (System Sensor HW-LF).....	203.89	51.31
28 46 21	17-2059		Sync Modules <small>(28 46 21 17-1821)</small>		
	28 46 21 17-2060	EA	Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	140.88	34.21
	28 46 21 17-2061	EA	White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	139.02	34.21
28 46 21	17-2062		Relays <small>(28 46 21 17-1821)</small>		
	28 46 21 17-2063	EA	Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	86.10	27.36
	28 46 21 17-2064	EA	SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	55.10	17.10
	28 46 21 17-2065	EA	4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	134.55	17.10
	28 46 21 17-2066	EA	4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	102.59	17.10
	28 46 21 17-2067	EA	Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	91.08	27.36
	28 46 21 17-2068	EA	DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	56.43	17.10
	28 46 21 17-2069	EA	4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	149.79	17.10
	28 46 21 17-2070	EA	4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T).....	115.41	17.10
	28 46 21 17-2071	EA	18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	49.67	17.10
	28 46 21 17-2072	EA	10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	49.67	17.10
	28 46 21 17-2073	EA	Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3).....	49.67	17.10
28 46 21	17-2074		Remote Annunciator <small>(28 46 21 17-1821)</small>		
	28 46 21 17-2075	EA	Remote Annunciator (System Sensor RA100Z).....	126.03	51.31
	28 46 21 17-2076	EA	Remote LED Annunciator (System Sensor RA100ZA).....	127.79	51.31
28 46 21	17-2077		Remote Test Station <small>(28 46 21 17-1821)</small>		
	28 46 21 17-2078	EA	Remote Test Station With Key (System Sensor RTS151KEY).....	174.34	51.31
28 46 21	17-2079		Fire Alarm Digital Cellular Communicator <small>(28 46 21 17)</small>		
	28 46 21 17-2080	EA	Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS).....	646.15	68.41
28 46 21	17-2081		Wheelock Fire Alarm <small>(28 46 21 17)</small>		
28 46 21	17-2082		Ceiling Mounted Chimes/Strobes <small>(28 46 21 17-2081)</small>		
	28 46 21 17-2083	EA	White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW).....	298.80	51.31
28 46 21	17-2084		Wall Mounted Chimes/Strobes <small>(28 46 21 17-2081)</small>		
	28 46 21 17-2085	EA	Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR).....	298.80	51.31
	28 46 21 17-2086	EA	White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW).....	298.80	51.31
28 46 21	17-2087		Ceiling Mounted Horns/Strobes <small>(28 46 21 17-2081)</small>		
	28 46 21 17-2088	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC).....	192.82	51.31
	28 46 21 17-2089	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC).....	170.63	51.31
28 46 21	17-2090		Wall Mounted Horns/Strobes <small>(28 46 21 17-2081)</small>		
	28 46 21 17-2091	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	197.01	51.31
	28 46 21 17-2092	EA	Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR).....	250.63	51.31
	28 46 21 17-2093	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR).....	196.64	51.31
	28 46 21 17-2094	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	196.64	51.31
	28 46 21 17-2095	EA	Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR).....	238.94	51.31
	28 46 21 17-2096	EA	Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR).....	220.92	51.31
	28 46 21 17-2097	EA	Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR).....	218.45	51.31
	28 46 21 17-2098	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR).....	241.01	58.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2099 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	196.03	51.31
28 46 21 17-2100 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	196.03	51.31
28 46 21 17-2101 Ceiling Mounted Strobes (28 46 21 17-2081)		
28 46 21 17-2102 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	183.95	51.31
28 46 21 17-2103 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	183.95	51.31
28 46 21 17-2104 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	158.36	51.31
28 46 21 17-2105 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	176.56	51.31
28 46 21 17-2106 Wall Mounted Strobes (28 46 21 17-2081)		
28 46 21 17-2107 EA Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR)	280.56	51.31
28 46 21 17-2108 EA Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	224.86	51.31
28 46 21 17-2109 EA Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	205.19	51.31
28 46 21 17-2110 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	181.98	51.31
28 46 21 17-2111 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	181.98	51.31
28 46 21 17-2112 EA Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR)	194.79	51.31
28 46 21 17-2113 EA Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)	203.06	58.15
Note: Requires WPSBB-R.		
28 46 21 17-2114 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	177.79	51.31
28 46 21 17-2115 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW)	177.79	51.31
28 46 21 17-2116 Ceiling Mounted Speakers/Strobes (28 46 21 17-2081)		
28 46 21 17-2117 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	224.86	51.31
28 46 21 17-2118 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	224.86	51.31
28 46 21 17-2119 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW)	224.86	51.31
28 46 21 17-2120 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	227.32	51.31
28 46 21 17-2121 EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	241.13	51.31
28 46 21 17-2122 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	260.35	51.31
28 46 21 17-2123 Wall Mounted Speakers/Strobes (28 46 21 17-2081)		
28 46 21 17-2124 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR)	272.70	51.31
28 46 21 17-2125 EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	272.70	51.31
28 46 21 17-2126 EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	241.13	51.31
28 46 21 17-2127 EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	241.13	51.31
28 46 21 17-2128 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR)	224.86	51.31
28 46 21 17-2129 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW)	220.92	51.31
28 46 21 17-2130 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	241.13	51.31
28 46 21 17-2131 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW)	241.13	51.31
28 46 21 17-2132 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR)	270.10	51.31
28 46 21 17-2133 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR)	227.32	51.31
28 46 21 17-2134 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW)	225.35	51.31
28 46 21 17-2135 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	264.26	51.31
28 46 21 17-2136 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW)	270.10	51.31
28 46 21 17-2137 EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR)	260.35	51.31
28 46 21 17-2138 EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW)	260.35	51.31
28 46 21 17-2139 EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)	294.83	58.15
Note: Requires weatherproof backbox (IOB).		
28 46 21 17-2140 Electric Alarm Bells (28 46 21 17-2081)		
28 46 21 17-2141 EA 6", 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	218.95	51.31
28 46 21 17-2142 EA 6", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	211.06	51.31
28 46 21 17-2143 EA 10", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	263.80	51.31
28 46 21 17-2144 EA 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R)	2,083.99	58.15
28 46 21 17-2145 EA Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R)	3,369.48	58.15
28 46 21 17-2146 EA Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R)	2,680.49	58.15
28 46 21 17-2147 EA 6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R)	174.34	51.31
28 46 21 17-2148 EA 10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R)	179.92	51.31
28 46 21 17-2149 Horns (28 46 21 17-2081)		
28 46 21 17-2150 EA Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R)	154.55	51.31

28 Electronic Safety and Security

28 40 Life Safety

28 46 Fire Detection and Alarm



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
28 46 21	17-2151	EA	Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR).....	146.59	51.31
28 46 21	17-2152	EA	White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW)	146.59	51.31
28 46 21	17-2153	EA	Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC)	147.67	51.31
28 46 21	17-2154	EA	White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNWC)	147.67	51.31
28 46 21	17-2155	EA	Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R).....	129.43	51.31
28 46 21	17-2156	EA	White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	129.43	51.31
28 46 21	17-2157	EA	Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R).....	147.67	51.31
28 46 21 17-2158 Speakers <small>(28 46 21 17-2081)</small>					
28 46 21	17-2159	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R).....	150.83	51.31
28 46 21	17-2160	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W)	150.83	51.31
28 46 21	17-2161	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R).....	150.83	51.31
28 46 21	17-2162	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W)	148.66	51.31
28 46 21	17-2163	EA	Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	150.83	51.31
28 46 21	17-2164	EA	White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	150.83	51.31
28 46 21	17-2165	EA	Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R).....	150.83	51.31
28 46 21	17-2166	EA	White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	150.83	51.31
28 46 21	17-2167	EA	Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R).....	174.58	51.31
28 46 21	17-2168	EA	White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W)	174.58	51.31
28 46 21	17-2169	EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W)	176.56	51.31
28 46 21	17-2170	EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	179.55	51.31
28 46 21	17-2171	EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R).....	166.54	51.31
28 46 21	17-2172	EA	Grey, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S).....	329.36	51.31
28 46 21	17-2173	EA	Red, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR).....	329.36	51.31
28 46 21 17-2174 Sync Modules <small>(28 46 21 17-2081)</small>					
28 46 21	17-2175	EA	12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	169.68	34.21
28 46 21 17-2176 Boxes, Plates And Rings <small>(28 46 21 17-2081)</small>					
28 46 21	17-2177	EA	4" Square, Red, Surface Backbox (Wheelock BB-R)	45.00	17.10
28 46 21	17-2178	EA	Standard 4" Square Box (Wheelock BB-STD)	40.01	17.10
28 46 21	17-2179	EA	Black, Backbox For UZC-256 (Wheelock BB-UZC)	188.45	34.21
28 46 21	17-2180	EA	Red, Backbox For UZC-256 (Wheelock BB-UZC-R)	188.45	34.21
28 46 21	17-2181	EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	146.15	27.36
28 46 21	17-2182	EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	23.35	6.84
28 46 21	17-2183	EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W)	23.35	6.84
28 46 21	17-2184	EA	Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R).....	56.69	17.10
28 46 21	17-2185	EA	White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W)	53.53	17.10
28 46 21	17-2186	EA	Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R)	56.69	17.10
28 46 21	17-2187	EA	White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W)	56.69	17.10
28 46 21	17-2188	EA	4" Square Backbox (Wheelock DBB-R)	47.03	17.10
28 46 21	17-2189	EA	Red, Surface Backbox (Wheelock IOB-R)	54.62	17.10
28 46 21	17-2190	EA	White, Surface, Backbox (Wheelock IOB-W).....	54.62	17.10
28 46 21	17-2191	EA	White, Indoor, Surface Extender (Wheelock ISP2-W).....	22.32	6.84
28 46 21	17-2192	EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	24.73	6.84
28 46 21	17-2193	EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	24.73	6.84
28 46 21	17-2194	EA	Red Retrofit Plate (Wheelock RP-R).....	26.51	6.84
28 46 21	17-2195	EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	32.49	6.84
28 46 21	17-2196	EA	Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R)	57.18	17.10
28 46 21	17-2197	EA	White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W)	57.87	17.10
28 46 21	17-2198	EA	Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R).....	61.52	17.10
28 46 21	17-2199	EA	Red, Semi-Flush Plate (Wheelock SFB-R)	25.70	6.84
28 46 21	17-2200	EA	White, Semi-Flush Plate (Wheelock SFB-W)	25.70	6.84
28 46 21	17-2201	EA	Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R)	50.33	17.10
28 46 21	17-2202	EA	White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W).....	50.33	17.10
28 46 21	17-2203	EA	Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	33.01	6.84
28 46 21	17-2204	EA	Red, Weather Resistant Backbox (Wheelock WBB-R)	56.29	17.10
28 46 21	17-2205	EA	Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	40.50	6.84
28 46 21	17-2206	EA	White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W)	40.50	6.84
28 46 21	17-2207	EA	Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R).....	40.50	6.84
28 46 21	17-2208	EA	White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W)	40.50	6.84
28 46 21	17-2209	EA	Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	21.83	6.84
28 46 21	17-2210	EA	Weather Resistant Backbox For ASWP (Wheelock WPBB-R).....	54.43	17.10
28 46 21	17-2211	EA	Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R).....	51.16	17.10
28 46 21 17-2212 Manual Pull Station <small>(28 46 21 17-2081)</small>					
28 46 21	17-2213	EA	SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100).....	128.69	34.21
28 46 21	17-2214	EA	SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200)	128.69	34.21
28 46 21	17-2215	EA	Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X).....	978.57	34.21
28 46 21 17-2216 Potter Fire Alarm <small>(28 46 21 17)</small>					
28 46 21 17-2217 Electric Alarm Bells <small>(28 46 21 17-2216)</small>					
28 46 21	17-2218	EA	6" Alarm Bell, 12 Volt DC (Potter MBA-6-12)	133.85	51.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2219 EA 8" Alarm Bell, 12 Volt DC (Potter MBA-8-12).....	143.72	51.31
28 46 21 17-2220 EA 10" Alarm Bell, 12 Volt DC (Potter MBA-10-12).....	148.65	51.31
28 46 21 17-2221 EA 6" Alarm Bell, 24 Volt DC (Potter MBA-6-24).....	133.85	51.31
28 46 21 17-2222 EA 8" Alarm Bell, 24 Volt DC (Potter MBA-8-24).....	143.72	51.31
28 46 21 17-2223 EA 10" Alarm Bell, 24 Volt DC (Potter MBA-10-24).....	148.65	51.31
28 46 21 17-2224 EA 6" Alarm Bell, 24 Volt AC (Potter PBA246).....	142.23	51.31
28 46 21 17-2225 EA 8" Alarm Bell, 24 Volt AC (Potter PBA248).....	146.96	51.31
28 46 21 17-2226 EA 10" Alarm Bell, 24 Volt AC (Potter PBA2410).....	174.84	51.31
28 46 21 17-2227 EA 6" Alarm Bell, 120 Volt AC (Potter PBA1206).....	135.27	51.31
28 46 21 17-2228 EA 8" Alarm Bell, 120 Volt AC (Potter PBA1208).....	146.96	51.31
28 46 21 17-2229 EA 10" Alarm Bell, 120 Volt AC (Potter PBA12010).....	156.73	51.31
28 46 21 17-2230 Manual Pull Station (28 46 21 17-2216)		
28 46 21 17-2231 EA SPST, Single Action, Manual Pull Station (Potter P32-1T).....	96.37	34.21
28 46 21 17-2232 EA DPST, Single Action, Manual Pull Station (Potter RMS-2T).....	100.85	34.21
28 46 21 17-2233 EA DPST, Single Action, Manual Pull Station (Potter RMS-6T).....	151.26	34.21
28 46 21 17-2234 EA DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL).....	103.64	34.21
28 46 21 17-2235 EA SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP).....	98.91	34.21
28 46 21 17-2236 EA SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP).....	167.03	34.21
28 46 21 17-2237 EA SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP).....	204.63	34.21
28 46 21 17-2238 Fire Alarm Terminal Cabinets (28 46 21 17)		
28 46 21 17-2239 EA 18 Point Lockable Fire Alarm Terminal Cabinet.....	242.17	68.51
28 46 21 17-2240 EA 32 Point Lockable Fire Alarm Terminal Cabinet.....	305.28	68.51
28 46 21 17-2241 EA 64 Point Lockable Fire Alarm Terminal Cabinet.....	431.47	68.51
28 46 21 17-2242 EA 128 Point Lockable Fire Alarm Terminal Cabinet.....	557.63	68.51
28 46 21 17-2243 Test And Certification Of Fire Alarm System (28 46 21 17)		
28 46 21 17-2244 HR Test And Certification Of Fire Alarm System.....	340.15	
28 46 21 17-2245 Programming Of Fire Alarm System (28 46 21 17)		
28 46 21 17-2246 HR Programming Of Fire Alarm System.....	408.18	
28 46 21 17-2247 Removal And Reinstallation Of Smoke Detector (28 46 21 17)		
Note: Includes storage, cleaning and supply materials.		
28 46 21 17-2248 EA Removal And Reinstallation Of Ceiling Mounted Smoke Detector.....	191.56	
28 46 21 17-2249 EA Removal And Reinstallation Of Wall Mounted Smoke Detector.....	153.93	
28 46 21 17-2250 Kidde Fire Safety Equipment (28 46 21 17)		
28 46 21 17-2251 Smoke Detectors (28 46 21 17-2250)		
28 46 21 17-2252 EA Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With Battery Back-up (Kidde i12010SCO).....	161.12	51.31
28 46 21 17-2253 EA Combination Smoke And Carbon Monoxide Detector, With Battery Back-up (Kidde P3010K-CO).....	128.41	51.31
28 46 23 Fire Alarm Notification Appliances (28 46)		
28 46 23 11 Fire Alarm Horns and Strobes (28 46 23)		
See CSI section 28 46 21 17-0000 for fire alarm horns and strobes.		
28 46 23 13 Fire Alarm Speakers (28 46 23)		
See CSI section 28 46 21 17-0000 for fire alarm speakers.		
28 47 Mass Notification (28 40)		
28 47 15 Mass Notification Control Panels (28 47)		
28 47 15 00-0001 Central Station Controls (28 47 15)		
28 47 15 00-0002 EA Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	777.56	
28 47 15 00-0003 EA Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,259.62	
28 47 15 00-0004 EA Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	3,662.66	
28 47 15 00-0005 EA Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	1,159.00	34.21
28 47 15 00-0006 EA Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	4,223.03	34.21
28 47 15 00-0007 EA Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	652.65	34.21
28 47 15 00-0008 EA Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	701.30	34.21
28 47 17 Notification Devices and Methods (28 47)		
28 47 17 17 Notification Appliances and Methods Public Methods (28 47 17)		
28 47 17 17-0001 Voice Capable Omni-Directional Speakers (28 47 17 17)		
28 47 17 17-0002 EA 1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	11,667.18	858.92
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003 EA 2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	14,093.77	896.27
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		

28 Electronic Safety and Security**28 40 Life Safety****28 47 Mass Notification**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0004 EA 3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	16,490.81	933.60
28 47 17 17-0005 EA 4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	18,887.83	970.95
28 47 17 17-0006 EA 5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	21,344.00	1,008.29
28 47 17 17-0007 EA 6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	25,426.76	1,045.64
28 47 17 17-0008 EA 7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	27,853.36	1,082.98
28 47 17 17-0009 EA 8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	30,763.00	1,120.33
28 47 17 17-0010 EA 9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	33,160.02	1,157.68
28 47 17 17-0011 EA 10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	35,586.62	1,195.01
28 47 17 17-0012 EA 3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	24,539.53	1,045.64
28 47 17 17-0013 EA 4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	26,108.47	1,082.98
28 47 17 17-0014 EA One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	379.84	34.21
28 47 17 17-0015 EA VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	1,764.00	34.21
28 47 17 17-0016 EA UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	1,764.00	34.21
28 47 17 17-0017 EA UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	1,596.42	34.21
28 47 17 17-0018 EA VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	1,547.13	34.21
28 47 17 17-0019 EA Two-Tone Sequential Option (Whelen WPSTT).....	353.08	34.21
28 47 17 17-0020 EA Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	444.50	34.21
28 47 17 17-0021 EA Landline, 10 Digit DTMF (Whelen C2030LL).....	460.85	34.21
28 47 17 17-0022 EA VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	2,504.77	34.21
28 47 17 17-0023 EA UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	1,931.59	34.21
28 47 17 17-0024 EA UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	1,931.59	34.21
28 47 17 17-0025 EA VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	1,931.59	34.21
28 47 17 17-0026 EA Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD).....	701.30	34.21
28 47 17 17-0027 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	490.36	34.21
28 47 17 17-0028 EA Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	295.10	34.21
28 47 17 17-0029 EA Intrusion Alarm (Whelen INTRUWPS).....	230.44	34.21
28 47 17 17-0030 EA Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG).....	141.96	
28 47 17 17-0031 EA Whelen Library Messages (Whelen MSGPROGL).....	28.43	
28 47 17 17-0032 EA Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	137.16	34.21
28 47 17 17-0033 EA One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	922.81	51.31
28 47 17 17-0034 EA WPS And OA Series, Roof Top Mounted (Whelen RTM).....	9,289.87	821.57
28 47 17 17-0035 EA Two 80 Watt Panels, Solar Power System (Whelen SBC280)..... Note: Includes mounting bracket and regulator.	3,634.08	205.24
28 47 17 17-0036 EA Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	1,817.93	51.31
28 47 17 17-0037 EA Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	1,817.93	51.31
28 47 17 17-0038 EA Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	1,817.93	51.31
28 47 17 17-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	1,817.93	51.31
28 47 17 17-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	1,817.93	51.31
28 47 17 17-0041 EA Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	569.39	51.31
28 47 17 17-0042 EA Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	569.39	51.31
28 47 17 17-0043 EA Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4).....	569.39	51.31
28 47 17 17-0044 EA Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	454.18	51.31
28 47 17 17-0045 EA Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	454.18	51.31
28 47 17 17-0046 EA Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	454.18	51.31
28 47 17 17-0047 EA Green, 24 Volt DC, Strobe (Whelen ISB24G).....	454.18	51.31
28 47 17 17-0048 EA Red, 24 Volt DC, Strobe (Whelen ISB24R).....	454.18	51.31
28 47 17 17-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	712.14	34.21
28 47 17 17-0050 EA Strobe Controller (Whelen STCTRL).....	464.57	34.21
28 47 17 17-0051 EA LED Controller (Whelen LEDCTRL).....	464.57	34.21
28 47 17 17-0052 EA Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	362.28	51.31
28 47 17 17-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	475.83	
28 47 17 17-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV).....	634.03	34.21
28 47 17 17-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	331.52	34.21
28 47 17 17-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	137.16	34.21
28 47 17 17-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS).....	627.34	34.21
28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	9,556.04	821.57
28 47 17 17-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	11,765.76	858.92
28 47 17 17-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	13,955.76	896.27
28 47 17 17-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	16,195.07	933.60
28 47 17 17-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXIN).....	267.54	34.21
28 47 17 17-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	379.84	34.21
28 47 17 17-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	1,764.00	34.21
28 47 17 17-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	1,764.00	34.21
28 47 17 17-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	1,596.42	34.21
28 47 17 17-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,547.13	34.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT)	311.46	34.21
28 47 17 17-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen OAUXXS)	567.23	34.21
28 47 17 17-0071 EA Two Way Landline Activation (Whelen OC2030LL)	588.92	34.21
28 47 17 17-0072 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV)	1,931.59	34.21
28 47 17 17-0073 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU)	1,931.59	34.21
28 47 17 17-0074 EA UHF, 10 Digit DTMF (Whelen OC230WU)	1,931.59	34.21
28 47 17 17-0075 EA VHF High Band, 10 Digit DTMF (Whelen OC230WV)	1,931.59	34.21
28 47 17 17-0076 EA Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD)	701.30	34.21
28 47 17 17-0077 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT)	295.10	34.21
28 47 17 17-0078 EA Cabinet Window LED Status Indicator (Whelen OSTATUS)	331.52	34.21
28 47 17 17-0079 EA Intrusion Alarm (Whelen OINTRU)	190.30	34.21
28 47 17 17-0080 EA 80 Watt Solar Power Option (Whelen OSBC280)	3,634.08	205.24
28 47 17 17-0081 EA One Pair Of Whelen Approved Batteries For Omniaert (Whelen BSETO)	658.58	51.31
28 47 17 17-0082		
Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083 EA 3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3)	19,084.99	970.95
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0084 EA 4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4)	20,220.18	1,008.29
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0085 EA Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN)	218.55	34.21
28 47 17 17-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL)	481.46	34.21
28 47 17 17-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV)	1,764.00	34.21
28 47 17 17-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU)	1,764.00	34.21
28 47 17 17-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU)	1,596.42	34.21
28 47 17 17-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV)	1,547.13	34.21
28 47 17 17-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT)	311.46	34.21
28 47 17 17-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS)	556.39	34.21
28 47 17 17-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL)	588.92	34.21
28 47 17 17-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV)	1,931.59	34.21
28 47 17 17-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU)	1,931.59	34.21
28 47 17 17-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU)	1,931.59	34.21
28 47 17 17-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV)	1,931.59	34.21
28 47 17 17-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD)	701.30	34.21
28 47 17 17-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS)	417.39	34.21
28 47 17 17-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT)	295.10	34.21
28 47 17 17-0101 EA Vortex Intrusion Alarm (Whelen VINTRU)	190.30	34.21
28 47 17 17-0102 EA Speaker Pole Top Bracket (Whelen VPTB)	567.23	34.21
28 47 17 17-0103 EA 80 Watt Solar Power Option (Whelen VSBC280)	3,634.08	205.24
28 47 17 17-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR)	658.58	51.31
28 47 17 17-0105 EA Program Charge For Custom VROM Message (Whelen VPROG)	2,893.96	
28 47 17 17-0106		
Uni-Directional Rotating Speakers (28 47 17 17)		
28 47 17 17-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET)	12,416.40	858.92
28 47 17 17-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXIN)	218.55	34.21
28 47 17 17-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL)	481.46	34.21
28 47 17 17-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV)	1,764.00	34.21
28 47 17 17-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU)	1,764.00	34.21
28 47 17 17-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU)	1,596.42	34.21
28 47 17 17-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV)	1,547.13	34.21
28 47 17 17-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT)	390.77	34.21
28 47 17 17-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS)	436.32	34.21
28 47 17 17-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL)	460.85	34.21
28 47 17 17-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV)	1,931.59	34.21
28 47 17 17-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU)	1,931.59	34.21
28 47 17 17-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU)	1,931.59	34.21
28 47 17 17-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV)	1,931.59	34.21
28 47 17 17-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD)	701.30	34.21
28 47 17 17-0122 EA LED Status Indicator (Whelen HSTATUS)	331.52	34.21
28 47 17 17-0123 EA Option For Paging Interface (Whelen HPGINT)	295.10	34.21
28 47 17 17-0124 EA Intrusion Alarm (Whelen HINTRU)	190.30	34.21
28 47 17 17-0125 EA Solar Power Option (Whelen HSBC280)	3,634.08	205.24
28 47 17 17-0126 EA Pole Top Bracket For Speaker (Whelen HPTB)	458.62	34.21
28 47 17 17-0127 EA One Pair Of Whelen Approved Batteries (Whelen BSETF)	658.58	51.31
28 47 17 17-0128		
All Hazard In-Plant Personnel Warning System (28 47 17 17)		
28 47 17 17-0129 EA 400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400)	6,369.06	1,094.61
28 47 17 17-0130 EA 800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800)	7,677.81	1,231.44
28 47 17 17-0131 EA 15 Watt, Wide Angle Speaker (Whelen WS15T)	312.96	51.31
28 47 17 17-0132 EA Recess Mounted, 15 Watt Speaker (Whelen WS15TR)	301.07	51.31
28 47 17 17-0133 EA With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN)	538.91	51.31
28 47 17 17-0134 EA 30 Watt, Wide Angle Speaker (Whelen WS30T)	380.60	51.31
28 47 17 17-0135 EA 60 Watt, Wide Angle Speaker (Whelen WS60T)	728.44	51.31
28 47 17 17-0136 EA Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T)	1,427.44	58.15
28 47 17 17-0137 EA 100 Watt, Wide Angle Speaker (Whelen WS100)	478.71	51.31
28 47 17 17-0138 EA Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH)	730.24	58.15
28 47 17 17-0139 EA Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU)	190.30	34.21

28 Electronic Safety and Security**28 40 Life Safety****28 47 Mass Notification**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0140			Firehouse Siren (28 47 17 17)		
28 47 17 17-0141	EA		Auxiliary Board Contact Closure (Whelen FAUXIN).....	218.55	34.21
28 47 17 17-0142	EA		Two-Tone Sequential Option (Whelen FTT)	311.46	34.21
28 47 17 17-0143	EA		Auxiliary/Status Control Board (Whelen FAUXCS)	556.39	34.21
28 47 17 17-0144	EA		Landline, 10 Digit DTMF (Whelen FC2030LL)	460.85	34.21
28 47 17 17-0145	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV)	1,931.59	34.21
28 47 17 17-0146	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU)	1,931.59	34.21
28 47 17 17-0147	EA		UHF, 10 Digit DTMF (Whelen FC230WU)	1,931.59	34.21
28 47 17 17-0148	EA		VHF High Band, 10 Digit DTMF (Whelen FC230WV)	1,931.59	34.21
28 47 17 17-0149	EA		Paging Interface Control Option (Whelen FPGINT)	295.10	34.21
28 47 17 17-0150	EA		Intrusion Alarm Control Option (Whelen FINTRU)	190.30	34.21
28 47 17 17-0151	EA		Solar Power Option (Whelen FSBC280).....	3,634.08	205.24
			Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 17 17-0152			Alert Monitor And Message Display (28 47 17 17)		
28 47 17 17-0153	EA		Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,616.13	34.21
28 47 17 17-0154	EA		Alert Monitor VHF High-Narrow Band (Whelen V2000NH)	1,616.13	34.21
28 47 17 17-0155	EA		Alert Monitor UHF Narrow-Band (Whelen V2000NU)	1,616.13	34.21
28 47 17 17-0156	EA		Alert Monitor With Radio Receiver UHF (Whelen V2000U)	1,616.13	34.21
28 47 17 17-0157	EA		Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	211.88	51.31
28 47 17 17-0158	EA		Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG)	76.59	34.21
28 47 17 17-0159	EA		Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA)	105.54	
28 47 17 17-0160	EA		Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	165.75	
28 47 17 17-0161			Portable Test Set (28 47 17 17)		
28 47 17 17-0162	EA		VHF High Band, Portable Test Set (Whelen PT2010H).....	6,437.34	
28 47 17 17-0163	EA		VHF Low Band, Portable Test Set (Whelen PT2010L)	6,437.34	
28 47 17 17-0164	EA		UHF, Portable Test Set (Whelen PT2010U)	6,437.34	
28 47 17 17-0165			Replacement Warning Lights (28 47 17 17)		
28 47 17 17-0166	EA		Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA).....	311.63	54.73
28 47 17 17-0167	EA		Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	311.63	54.73
28 47 17 17-0168	EA		Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC)	311.63	54.73
28 47 17 17-0169	EA		Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	311.63	54.73
28 47 17 17-0170	EA		Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR)	311.63	54.73
28 47 17 17-0171	EA		Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	331.69	54.73
28 47 17 17-0172	EA		Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	231.35	54.73
28 47 17 17-0173	EA		Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC).....	328.72	54.73
28 47 17 17-0174	EA		Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	328.72	54.73
28 47 17 17-0175	EA		Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	328.72	54.73
28 47 17 17-0176	EA		Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA)	311.63	54.73
28 47 17 17-0177	EA		Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB)	311.63	54.73
28 47 17 17-0178	EA		Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC).....	311.63	54.73
28 47 17 17-0179	EA		Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG)	311.63	54.73
28 47 17 17-0180	EA		Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR).....	311.63	54.73
28 47 17 17-0181	EA		Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA)	343.59	54.73
28 47 17 17-0182	EA		Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB)	343.59	54.73
28 47 17 17-0183	EA		Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC).....	238.79	54.73
28 47 17 17-0184	EA		Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG)	238.79	54.73
28 47 17 17-0185	EA		Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR).....	238.79	54.73
28 47 17 17-0186			Antenna (28 47 17 17)		
28 47 17 17-0187	EA		50' Antenna Cable (Honeywell Ademco 7626-50HC)	262.50	
28 47 17 17-0188	EA		External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	259.16	
28 47 17 17-0189	EA		80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000)	12,206.21	
28 49			Electronic Personal Protection Systems (28 49)		
28 49 11			Electronic Personal Safety Detection Systems (28 49)		
28 49 11 00-0001			Personnel Alarm Locating System (28 49 11)		
			Note: Includes a central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels, eighty (80) personal alarm transmitters with lithium batteries, eighty (80) lapel readers, two hundred fifty (250) IR locators, twenty one (21) repeaters and receivers, back boxes, cables.		
28 49 11 00-0002	EA		Personnel Alarm Locating System.....	19,699.42	1,097.98
			Note: Includes Pentium III central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels.		
28 49 11 00-0003	EA		Personnel Alarm Transmitters With Lithium Batteries.....	151.70	
28 49 11 00-0004	EA		Lapel Reader	58.34	
28 49 11 00-0005	EA		IR Locator	233.89	41.11
28 49 11 00-0006	EA		Repeaters And Receivers.....	589.11	137.03



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 49 17		Electronic Personal Safety Emergency Aid Devices (28 49)		
28 49 17 00-0001		Electronic Personal Safety Emergency Aid Devices (Edwards Signaling) (28 49 17)		
28 49 17 00-0002		Call For Assistance Kits, Emergency Aid Devices (Edwards Signaling) (28 49 17 00-0001)		
28 49 17 00-0003	EA	Pull Cord Call For Assistance Kit With Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7008B-N5) Note: Includes 1 high intensity strobe/buzzer (7007B-N5) and 1 emergency pull cord station (6537).	318.84	82.22
28 49 17 00-0004	EA	Push Button Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 7005-G5) Note: Includes 1 high intensity strobe/horn (6536-G5), 1 emergency pull cord station (6537), and 1 transformer 592.	377.50	95.92
28 49 17 00-0005	EA	Pull Cord Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6538-G5) Note: Includes 1 high intensity strobe/horn (6536-G5), 1 wall mounted push button (620/147-10), and 1 transformer 592.	379.94	95.92
28 49 17 00-0006		Audible/Visual Signaling Devices, Emergency Aid Devices (Edwards Signaling) (28 49 17 00-0001)		
28 49 17 00-0007	EA	High Intensity Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7007B-N5)	230.05	51.38
28 49 17 00-0008	EA	High Intensity Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6536-G5)	219.54	41.11
28 49 17 00-0009	EA	Transformer For High Intensity Strobe/Horns, Emergency Aid Devices (Edwards Signaling 592)	113.02	41.11
28 49 17 00-0010	EA	1 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-1N5).....	181.72	41.11
28 49 17 00-0011	EA	2 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-2N5).....	206.28	41.11
28 49 17 00-0012	EA	4 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-4G5)	231.77	41.11
28 49 17 00-0013	EA	2 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-2)	313.70	41.11
28 49 17 00-0014	EA	4 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-4)	348.95	41.11
28 49 17 00-0015		Call Activation Devices, Emergency Aid Devices (Edwards Signaling) (28 49 17 00-0001)		
28 49 17 00-0016	EA	Double Pole Single Throw Switch, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 6537)	143.84	41.11
28 49 17 00-0017	EA	Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7603E)	202.39	41.11
28 49 17 00-0018	EA	Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7613E)	258.91	41.11
28 49 17 00-0019	EA	3 Maintained Contacts, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7302).....	262.17	13.71
28 49 17 00-0020	EA	Bedside Wall Station Receptacle, Emergency Aid Devices (Edwards Signaling 7930).....	207.62	41.11
28 49 17 00-0021	EA	Bedside Wall Station Receptacle With Lamp, Emergency Aid Devices (Edwards Signaling 7930L)	241.42	41.11
28 49 17 00-0022	EA	Locking Button, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7932L)	395.47	41.11
28 49 17 00-0023	EA	Pendant Push Button, Emergency Aid Devices (Edwards Signaling 7620)	198.32	41.11
28 49 17 00-0024	EA	Single 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7675)	222.67	13.71
28 49 17 00-0025	EA	Double 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7676)	340.65	13.71
28 49 17 00-0026	EA	Single 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7685)	347.91	13.71
28 49 17 00-0027	EA	Double 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7686)	456.25	13.71

END OF SECTION 28

28 Electronic Safety and Security

28 40 Life Safety

28 49 Electronic Personal Protection Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 Earthwork

31 01 Maintenance of Earthwork ⁽³¹⁾

31 01 20 Maintenance of Earth Moving ^(31 01)

31 01 20 00-0001 Rip Settling Basins ^(31 01 20)

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	627.54
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	965.28
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	825.24

31 05 Common Work Results for Earthwork ⁽³¹⁾

31 05 13 Soils for Earthwork ^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material) ^(31 05 13)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 05 13 00-0002	CY Bank Run/Fill Sand	34.14
	For Up To 8, Add	6.83
	For >8 To 16, Add	3.41
	For >48 To 64, Deduct	-2.47
	For >64 To 96, Deduct	-4.18
	For >96, Deduct	-5.88
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	40.66
	For Up To 8, Add	8.13
	For >8 To 16, Add	4.07
	For >48 To 64, Deduct	-2.79
	For >64 To 96, Deduct	-4.83
	For >96, Deduct	-6.86
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	56.31
	For Up To 8, Add	11.26
	For >8 To 16, Add	5.63
	For >48 To 64, Deduct	-3.58
	For >64 To 96, Deduct	-6.39
	For >96, Deduct	-9.21
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	50.44
	For Up To 8, Add	10.09
	For >8 To 16, Add	5.04
	For >48 To 64, Deduct	-3.28
	For >64 To 96, Deduct	-5.81
	For >96, Deduct	-8.33
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	90.86
	For Up To 8, Add	18.17
	For >8 To 16, Add	9.09
	For >48 To 64, Deduct	-5.30
	For >64 To 96, Deduct	-9.85
	For >96, Deduct	-14.39
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	42.61
	For Up To 8, Add	8.52
	For >8 To 16, Add	4.26
	For >48 To 64, Deduct	-2.89
	For >64 To 96, Deduct	-5.02
	For >96, Deduct	-7.15
31 05 13 00-0008	CY Lime Rock Screening	38.51
	For Up To 8, Add	7.70
	For >8 To 16, Add	3.85
	For >48 To 64, Deduct	-2.69
	For >64 To 96, Deduct	-4.61
	For >96, Deduct	-6.54
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2"	38.51
	For Up To 8, Add	7.70
	For >8 To 16, Add	3.85
	For >48 To 64, Deduct	-2.69
	For >64 To 96, Deduct	-4.61
	For >96, Deduct	-6.54
31 05 13 00-0010	CY Sand/Clay	44.45
	For Up To 8, Add	8.89
	For >8 To 16, Add	4.45
	For >48 To 64, Deduct	-2.98
	For >64 To 96, Deduct	-5.21
	For >96, Deduct	-7.43
31 05 13 00-0011	CY Recycled Concrete Aggregate	34.46
	For Up To 8, Add	6.89
	For >8 To 16, Add	3.45
	For >48 To 64, Deduct	-2.48
	For >64 To 96, Deduct	-4.21
	For >96, Deduct	-5.93

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012	CY		Pitrun Clay	62.17	
			For Up To 8, Add	12.43	
			For >8 To 16, Add	6.22	
			For >48 To 64, Deduct	-3.87	
			For >64 To 96, Deduct	-6.98	
			For >96, Deduct	-10.09	
31 05 13 00-0013	CY		Light Clay / Loam	50.37	
			For Up To 8, Add	10.07	
			For >8 To 16, Add	5.04	
			For >48 To 64, Deduct	-3.28	
			For >64 To 96, Deduct	-5.80	
			For >96, Deduct	-8.32	
31 05 13 00-0014	CY		Heavy Clay	62.17	
			For Up To 8, Add	12.43	
			For >8 To 16, Add	6.22	
			For >48 To 64, Deduct	-3.87	
			For >64 To 96, Deduct	-6.98	
			For >96, Deduct	-10.09	

31 05 16 Aggregates for Earthwork (31 05)

See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 05 16 00-0002	CY		#2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	51.74	
			For Up To 8, Add	10.35	
			For >8 To 16, Add	5.17	
			For >48 To 64, Deduct	-3.35	
			For >64 To 96, Deduct	-5.94	
			For >96, Deduct	-8.52	
31 05 16 00-0003	CY		#3 Stone Aggregate Fill (1" To 2" Clean)	53.88	
			For Up To 8, Add	10.78	
			For >8 To 16, Add	5.39	
			For >48 To 64, Deduct	-3.46	
			For >64 To 96, Deduct	-6.15	
			For >96, Deduct	-8.84	
31 05 16 00-0004	CY		#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	51.74	
			For Up To 8, Add	10.35	
			For >8 To 16, Add	5.17	
			For >48 To 64, Deduct	-3.35	
			For >64 To 96, Deduct	-5.94	
			For >96, Deduct	-8.52	
31 05 16 00-0005	CY		#5 Stone Aggregate Fill (1/2" To 1" Clean)	55.43	
			For Up To 8, Add	11.09	
			For >8 To 16, Add	5.54	
			For >48 To 64, Deduct	-3.53	
			For >64 To 96, Deduct	-6.30	
			For >96, Deduct	-9.08	
31 05 16 00-0006	CY		#6 Stone Aggregate Fill (3/8" To 3/4" Clean)	57.61	
			For Up To 8, Add	11.52	
			For >8 To 16, Add	5.76	
			For >48 To 64, Deduct	-3.64	
			For >64 To 96, Deduct	-6.52	
			For >96, Deduct	-9.40	
31 05 16 00-0007	CY		#56 Stone Aggregate Fill (3/8" To 1")	55.77	
			For Up To 8, Add	11.15	
			For >8 To 16, Add	5.58	
			For >48 To 64, Deduct	-3.55	
			For >64 To 96, Deduct	-6.34	
			For >96, Deduct	-9.13	
31 05 16 00-0008	CY		#57 Stone Aggregate Fill (3/8" To 1")	59.57	
			For Up To 8, Add	11.91	
			For >8 To 16, Add	5.96	
			For >48 To 64, Deduct	-3.74	
			For >64 To 96, Deduct	-6.72	
			For >96, Deduct	-9.70	
31 05 16 00-0009	CY		#67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	53.76	
			For Up To 8, Add	10.75	
			For >8 To 16, Add	5.38	
			For >48 To 64, Deduct	-3.45	
			For >64 To 96, Deduct	-6.14	
			For >96, Deduct	-8.83	
31 05 16 00-0010	CY		#7 Stone Aggregate Fill (3/8" To 1/2")	54.82	
			For Up To 8, Add	10.96	
			For >8 To 16, Add	5.48	
			For >48 To 64, Deduct	-3.50	
			For >64 To 96, Deduct	-6.24	
			For >96, Deduct	-8.98	
31 05 16 00-0011	CY		#78 Stone Aggregate Fill (3/32" To 1/2")	55.28	
			For Up To 8, Add	11.06	
			For >8 To 16, Add	5.53	
			For >48 To 64, Deduct	-3.53	
			For >64 To 96, Deduct	-6.29	
			For >96, Deduct	-9.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8")	57.61	
For Up To 8, Add	11.52	
For >8 To 16, Add	5.76	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.52	
For >96, Deduct	-9.40	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8")	58.26	
For Up To 8, Add	11.65	
For >8 To 16, Add	5.83	
For >48 To 64, Deduct	-3.67	
For >64 To 96, Deduct	-6.59	
For >96, Deduct	-9.50	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16")	57.61	
For Up To 8, Add	11.52	
For >8 To 16, Add	5.76	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.52	
For >96, Deduct	-9.40	
31 05 16 00-0015 CY #10 Stone Aggregate Fill (1/16" To 3/16")	58.95	
For Up To 8, Add	11.79	
For >8 To 16, Add	5.90	
For >48 To 64, Deduct	-3.71	
For >64 To 96, Deduct	-6.66	
For >96, Deduct	-9.60	
31 05 16 00-0016 CY #610 Modified Stone Aggregate Fill (1/16" To 3/4")	58.26	
For Up To 8, Add	11.65	
For >8 To 16, Add	5.83	
For >48 To 64, Deduct	-3.67	
For >64 To 96, Deduct	-6.59	
For >96, Deduct	-9.50	
31 05 16 00-0017 CY Screenings Stone Aggregate Fill (3/16" Max)	48.74	
For Up To 8, Add	9.75	
For >8 To 16, Add	4.87	
For >48 To 64, Deduct	-3.20	
For >64 To 96, Deduct	-5.64	
For >96, Deduct	-8.07	
31 05 16 00-0018 CY Over 6" To 12" Stone Aggregate Fill, Random Size	53.05	
For Up To 8, Add	10.61	
For >8 To 16, Add	5.31	
For >48 To 64, Deduct	-3.41	
For >64 To 96, Deduct	-6.07	
For >96, Deduct	-8.72	
31 05 16 00-0019 CY Over 6" To 12" Graded Stone Aggregate Fill	53.05	
For Up To 8, Add	10.61	
For >8 To 16, Add	5.31	
For >48 To 64, Deduct	-3.41	
For >64 To 96, Deduct	-6.07	
For >96, Deduct	-8.72	
31 05 16 00-0020 CY 3" To 7" Surge Stone Aggregate Fill, Random Size	57.35	
For Up To 8, Add	11.47	
For >8 To 16, Add	5.74	
For >48 To 64, Deduct	-3.63	
For >64 To 96, Deduct	-6.50	
For >96, Deduct	-9.36	
31 05 16 00-0021 CY 3" To 7" Surge Stone Graded Aggregate Fill	60.41	
For Up To 8, Add	12.08	
For >8 To 16, Add	6.04	
For >48 To 64, Deduct	-3.78	
For >64 To 96, Deduct	-6.80	
For >96, Deduct	-9.82	
31 05 16 00-0022 CY Crusher Run Aggregate Fill (2-1/2" Minus)	33.76	
For Up To 8, Add	6.75	
For >8 To 16, Add	3.38	
For >48 To 64, Deduct	-2.45	
For >64 To 96, Deduct	-4.14	
For >96, Deduct	-5.83	
31 05 16 00-0023 CY Crusher Run Aggregate Fill (1-1/2" Minus)	37.14	
For Up To 8, Add	7.43	
For >8 To 16, Add	3.71	
For >48 To 64, Deduct	-2.62	
For >64 To 96, Deduct	-4.48	
For >96, Deduct	-6.33	
31 05 16 00-0024 CY Crusher Run Aggregate Fill (3/4" Minus)	34.95	
For Up To 8, Add	6.99	
For >8 To 16, Add	3.50	
For >48 To 64, Deduct	-2.51	
For >64 To 96, Deduct	-4.26	
For >96, Deduct	-6.00	
31 05 16 00-0025 CY Miscellaneous Crushed Base, Processed Concrete, Paving	53.55	
For Up To 8, Add	10.71	
For >8 To 16, Add	5.36	
For >48 To 64, Deduct	-3.44	
For >64 To 96, Deduct	-6.12	
For >96, Deduct	-8.79	

31	31 Earthwork
	31 05 Common Work Results for Earthwork
	31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization ⁽³¹⁾
⁽⁰⁵⁾
 See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾

31 11 Clearing and Grubbing ^(31 10)

31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	7,781.46
		Note: Includes grub and removal of stump	
31 11 00 00-0003	ACR	Clear And Grub Light Stumps Only Up To 6" Diameter	2,023.34
31 11 00 00-0004	ACR	Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	9,078.37
		Note: Includes grub and removal of stump	
31 11 00 00-0005	ACR	Clear And Grub Medium Stumps Only Up To 10" Diameter	3,372.23
31 11 00 00-0006	ACR	Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	10,316.32
		Note: Includes grub and removal of stump	
31 11 00 00-0007	ACR	Clear And Grub Heavy Stumps Only Up To 16" Diameter	3,832.55
31 11 00 00-0008	ACR	Clearing By Machine - Light Brush Without Grub	299.01
31 11 00 00-0009	ACR	Clearing By Machine - Medium Brush Without Grub	628.70
31 11 00 00-0010	ACR	Clearing By Machine - Heavy Brush Without Grub	889.34
31 11 00 00-0011	ACR	Chipping - Light Brush	2,421.32
31 11 00 00-0012	ACR	Chipping - Medium Brush	3,113.29
31 11 00 00-0013	ACR	Chipping - Heavy Brush	4,359.01

31 11 00 00-0014 Loading Of Cleared And Grubbed Material ^(31 11)

See CSI section 01 74 19 00-0039 for hauling.

31 11 00 00-0015	CY	Machine Loading Of Cleared And Grubbed Material	10.57
31 11 00 00-0016	CY	Chute Loading Of Cleared And Grubbed Material	12.69
31 11 00 00-0017	CY	Hand Loading Of Cleared And Grubbed Material	35.87
31 11 00 00-0018	CY	Wheel And Ramp Loading Of Cleared And Grubbed Material	28.18

31 13 Selective Tree and Shrub Removal and Trimming ^(31 10)

31 13 13 Selective Tree and Shrub Removal ^(31 13)

31 13 13 00-0001 Individual Tree Removal ^(31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA	Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	567.40
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0003	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	851.10
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,134.79
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0005	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,702.19
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,269.59
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	2,836.99
		Note: Includes cutting up tree, chipping and loading.	
		<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	<i>-709.25</i>
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	3,404.38
		Note: Includes cutting up tree, chipping and loading.	
		<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	<i>-851.10</i>
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	4,539.18
		Note: Includes cutting up tree, chipping and loading.	
		<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	<i>-1,134.80</i>

31 13 13 00-0010 Stump Removal ^(31 13 13)

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine ^(31 13 13 00-0010)

31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal	101.17
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal	193.90
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal	252.92
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal	379.38
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal	446.85
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal	526.07
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal	623.86
		Note: Includes excavation necessary to remove stump and loading.	



Earthwork	31	13
Site Clearing	31 10	
Selective Tree and Shrub Removal and Trimming	31 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	733.46	
31 13 13 00-0020 Stump Removal By Hand <small>(31 13 13 00-0010)</small>		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	585.23	
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	731.55	
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,072.93	
31 13 13 00-0024 EA >24" To 36" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,463.09	
31 13 13 00-0025 EA >36" To 48" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,950.79	
31 13 13 00-0026 EA >48" To 60" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,438.49	
31 13 13 00-0027 EA >60" To 72" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,926.18	
31 13 13 00-0028 EA >72" To 84" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,413.88	
31 13 13 00-0029 Stump Grinding <small>(31 13 13)</small> Note: Measured by diameter of stump.		
31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil <small>(31 13 13 00-0029)</small> Note: Level soil to match existing surface area.		
31 13 13 00-0031 EA Stump Grinding Up To 6" Tree..... <i>For 24" Depth, Add</i>	110.30 22.06	
31 13 13 00-0032 EA Stump Grinding >6" To 12" Tree..... <i>For 24" Depth, Add</i>	147.06 29.41	
31 13 13 00-0033 EA Stump Grinding >12" To 15" Tree..... <i>For 24" Depth, Add</i>	165.44 33.09	
31 13 13 00-0034 EA Stump Grinding >15" To 18" Tree..... <i>For 24" Depth, Add</i>	183.83 36.77	
31 13 13 00-0035 EA Stump Grinding >18" To 21" Tree..... <i>For 24" Depth, Add</i>	197.61 39.52	
31 13 13 00-0036 EA Stump Grinding >21" To 24" Tree..... <i>For 24" Depth, Add</i>	211.40 42.28	
31 13 13 00-0037 EA Stump Grinding >24" To 27" Tree..... <i>For 24" Depth, Add</i>	229.78 45.96	
31 13 13 00-0038 EA Stump Grinding >27" To 30" Tree..... <i>For 24" Depth, Add</i>	251.02 50.20	
31 13 13 00-0039 EA Stump Grinding >30" To 33" Tree..... <i>For 24" Depth, Add</i>	278.91 55.78	
31 13 13 00-0040 EA Stump Grinding >33" To 36" Tree..... <i>For 24" Depth, Add</i>	297.51 59.50	
31 13 13 00-0041 EA Stump Grinding >36" To 42" Tree..... <i>For 24" Depth, Add</i>	334.69 66.94	
31 13 13 00-0042 EA Stump Grinding >42" To 48" Tree..... <i>For 24" Depth, Add</i>	371.88 74.38	
31 13 13 00-0043 EA Stump Grinding >48" To 60" Tree..... <i>For 24" Depth, Add</i>	464.85 92.97	
31 13 13 00-0044 EA Stump Grinding >60" To 72" Tree..... <i>For 24" Depth, Add</i>	581.07 116.21	
31 13 13 00-0045 EA Stump Grinding >72" To 84" Tree..... <i>For 24" Depth, Add</i>	743.76 148.75	
31 13 13 00-0046 Shrub Removal <small>(31 13 13)</small>		
31 13 13 00-0047 EA Removal Of 18" To 24" Shrub, Broadleaf Evergreen.....	42.07	
31 13 13 00-0048 EA Removal Of 2' To 3' Shrub, Broadleaf Evergreen.....	65.97	
31 13 13 00-0049 EA Removal Of 3' To 4' Shrub, Broadleaf Evergreen.....	76.49	
31 13 13 00-0050 EA Removal Of 4' To 5' Shrub, Broadleaf Evergreen.....	114.74	
31 13 13 00-0051 EA Removal Of 12" To 15" Shrub, Deciduous.....	21.03	
31 13 13 00-0052 EA Removal Of 18" To 24" Shrub, Deciduous.....	32.51	
31 13 13 00-0053 EA Removal Of 2' To 3' Shrub, Deciduous.....	42.07	
31 13 13 00-0054 EA Removal Of 3' To 4' Shrub, Deciduous.....	45.89	
31 13 13 00-0055 EA Removal Of 18" To 24" Shrub, Evergreen.....	42.07	
31 13 13 00-0056 EA Removal Of 24" To 30" Shrub, Evergreen.....	45.89	
31 13 13 00-0057 EA Removal Of 30" To 36" Shrub, Evergreen.....	65.97	
31 13 13 00-0058 EA Removal Of 36" To 42" Shrub, Evergreen.....	114.73	

31 13 16 Selective Tree and Shrub Trimming (31 13)

31	31 Earthwork
	31 10 Site Clearing
	31 13 Selective Tree and Shrub Removal and Trimming



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 13 16 00-0001	Tree Trimming For Pole Line Construction And Maintenance <small>(31 13 16)</small> Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.	
31 13 16 00-0002	LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	1.85
31 13 16 00-0003	LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	2.76
31 13 16 00-0004	LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	3.25

31 20 Earth Moving (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation and Fill (31 20)

31 23 16 Excavation (31 23)

31 23 16 13 Trenching (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002	CY 12" Wide or Less, Excavation for Trenching by Machine in Soil	10.27
	<i>For Excavation In Light Material (Class A), Deduct</i>	-1.28
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	4.11
	<i>For Up To 20, Add</i>	8.22
	<i>For >20 To 50, Add</i>	5.14
	<i>For >50 To 250, Add</i>	2.57
	<i>For >500 To 1,000, Deduct</i>	-1.54
	<i>For >1,000, Deduct</i>	-3.08
31 23 16 13-0003	CY Over 12" Wide, Excavation for Trenching by Machine in Soil	6.84
	<i>For Excavation In Light Material (Class A), Deduct</i>	-0.86
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	2.74
	<i>For Up To 20, Add</i>	5.47
	<i>For >20 To 50, Add</i>	3.42
	<i>For >50 To 250, Add</i>	1.71
	<i>For >500 To 1,000, Deduct</i>	-1.03
	<i>For >1,000, Deduct</i>	-2.05
31 23 16 13-0004	CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	17.00
	Note: Includes compacted aggregate	
	<i>For Up To 20, Add</i>	13.60
	<i>For >20 To 50, Add</i>	8.50
	<i>For >50 To 250, Add</i>	4.25
	<i>For >500 To 1,000, Deduct</i>	-2.55
	<i>For >1,000, Deduct</i>	-5.10
31 23 16 13-0005	CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	12.14
	Note: Includes compacted aggregate	
	<i>For Up To 20, Add</i>	9.71
	<i>For >20 To 50, Add</i>	6.07
	<i>For >50 To 250, Add</i>	3.04
	<i>For >500 To 1,000, Deduct</i>	-1.82
	<i>For >1,000, Deduct</i>	-3.64

31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)

31 23 16 13-0007	CY Excavation For Trenching By Hand In Soil	118.35
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate.....	203.02
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	

31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches (31 23 16 13)

Note: With imported or stockpiled materials.

31 23 16 13-0010	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	3.67
	<i>For Up To 20, Add</i>	2.94
	<i>For >20 To 50, Add</i>	1.84
	<i>For >50 To 250, Add</i>	0.92
	<i>For >500 To 1,000, Deduct</i>	-0.55
	<i>For >1,000, Deduct</i>	-1.10
31 23 16 13-0011	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	32.88

31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches (31 23 16 13)

Note: Includes restoration of final grade.



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	6.88	
<i>For Up To 20, Add</i>	5.50	
<i>For >20 To 50, Add</i>	3.44	
<i>For >50 To 250, Add</i>	1.72	
<i>For >500 To 1,000, Deduct</i>	-1.03	
<i>For >1,000, Deduct</i>	-2.06	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	37.09	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches <small>(31 23 16 13)</small>		
<small>Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.</small>		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	6.38	
<i>For Up To 20, Add</i>	5.10	
<i>For >20 To 50, Add</i>	3.19	
<i>For >50 To 250, Add</i>	1.60	
<i>For >500 To 1,000, Deduct</i>	-0.96	
<i>For >1,000, Deduct</i>	-1.91	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	86.79	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches <small>(31 23 16 13)</small>		
<small>Note: Includes hand work by laborer for clean-up.</small>		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine	2.98	
<i>For Up To 20, Add</i>	2.38	
<i>For >20 To 50, Add</i>	1.49	
<i>For >50 To 250, Add</i>	0.75	
<i>For >500 To 1,000, Deduct</i>	-0.45	
<i>For >1,000, Deduct</i>	-0.89	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine <small>(31 23 16 13)</small>		
<small>Note: Includes trench, backfill, compaction and restoration of final grade.</small>		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	2.31	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep.....	2.54	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep.....	3.62	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep.....	4.08	
31 23 16 13-0025 Utility Chain Trencher <small>(31 23 16 13)</small>		
31 23 16 13-0026 Utility Trench, Chain Trencher <small>(31 23 16 13-0025)</small>		
<small>Note: Earth left adjacent to trench.</small>		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.21	
<i>For >100 To 250, Deduct</i>	-0.08	
<i>For >250 To 500, Deduct</i>	-0.18	
<i>For >500, Deduct</i>	-0.36	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	1.33	
<i>For >100 To 250, Deduct</i>	-0.09	
<i>For >250 To 500, Deduct</i>	-0.20	
<i>For >500, Deduct</i>	-0.40	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	1.38	
<i>For >100 To 250, Deduct</i>	-0.10	
<i>For >250 To 500, Deduct</i>	-0.21	
<i>For >500, Deduct</i>	-0.41	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.46	
<i>For >100 To 250, Deduct</i>	-0.10	
<i>For >250 To 500, Deduct</i>	-0.22	
<i>For >500, Deduct</i>	-0.44	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	1.60	
<i>For >100 To 250, Deduct</i>	-0.11	
<i>For >250 To 500, Deduct</i>	-0.24	
<i>For >500, Deduct</i>	-0.48	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	1.82	
<i>For >100 To 250, Deduct</i>	-0.13	
<i>For >250 To 500, Deduct</i>	-0.27	
<i>For >500, Deduct</i>	-0.55	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher.....	2.19	
<i>For >100 To 250, Deduct</i>	-0.15	
<i>For >250 To 500, Deduct</i>	-0.33	
<i>For >500, Deduct</i>	-0.66	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	2.07	
<i>For >100 To 250, Deduct</i>	-0.14	
<i>For >250 To 500, Deduct</i>	-0.31	
<i>For >500, Deduct</i>	-0.62	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	2.43	
<i>For >100 To 250, Deduct</i>	-0.17	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500, Deduct</i>	-0.73	
31 23 16 13-0036 LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	2.76	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.41	
<i>For >500, Deduct</i>	-0.83	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0037 LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.28	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.49	
For >500, Deduct	-0.98	
31 23 16 13-0038 Backfill Trenches With Compaction <small>(31 23 16 13-0025)</small>		
31 23 16 13-0039 LF Backfill 4" Wide, 12" Deep Trench, With Compaction	0.19	
For >100 To 250, Deduct	-0.01	
For >250 To 500, Deduct	-0.03	
For >500, Deduct	-0.06	
31 23 16 13-0040 LF Backfill 4" Wide, 18" Deep Trench, With Compaction	0.30	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.09	
31 23 16 13-0041 LF Backfill 4" Wide, 24" Deep Trench, With Compaction	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0042 LF Backfill 6" Wide, 12" Deep Trench, With Compaction	0.30	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.09	
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction	0.59	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.09	
For >500, Deduct	-0.18	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction	0.84	
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.13	
For >500, Deduct	-0.25	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction	0.59	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.09	
For >500, Deduct	-0.18	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction	0.79	
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.12	
For >500, Deduct	-0.24	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction	1.19	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.18	
For >500, Deduct	-0.36	
31 23 16 26 Rock Removal <small>(31 23 16)</small>		
31 23 16 26-0001 Rock Breaking By Machine <small>(31 23 16 26)</small>		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone).....	27.25	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate)	29.06	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	34.51	
31 23 16 33 Bulk Excavation <small>(31 23 16)</small>		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
31 23 16 33-0001 Excavation <small>(31 23 16 33)</small>		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil	9.33	
For Excavation In Light Material (Class A), Deduct	-1.17	
For Excavation In Heavy/Wet Material (Class C), Add	3.73	
For >1,000, Deduct	-1.40	
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	5.51	
For Excavation In Light Material (Class A), Deduct	-0.69	
For Excavation In Heavy/Wet Material (Class C), Add	2.20	
For >1,000, Deduct	-0.83	
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock	11.47	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.72	
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock.....	6.79	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.02	
31 23 16 33-0006 Spreading, Shaping And Rough Grading <small>(31 23 16 33)</small>		
Note: Imported or stockpiled material for bulk excavation.		



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine..... <i>For >1,000, Deduct</i>	5.76 -0.86	
31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine..... <i>For >1,000, Deduct</i>	6.40 -0.96	
31 23 16 33-0010 Relocating On Site Excavated Material From Excavation (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300' <i>For >1,000, Deduct</i>	5.11 -0.77	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500' <i>For >1,000, Deduct</i>	7.67 -1.15	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' <i>For >1,000, Deduct</i>	11.51 -1.73	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000' <i>For >1,000, Deduct</i>	15.35 -2.30	
31 23 16 33-0015 Finish Grading (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine.....	0.64	
31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift (31 23 16 33) Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine..... Note: Per Lift	0.65	
31 23 16 33-0019 Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation..... <i>For >1,000, Deduct</i>	5.51 -0.83	
31 23 16 36 Excavation for Building Foundations and Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001 Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	8.48 -1.06 3.39 8.48 6.36 3.39 1.27	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	10.56 10.56 7.92 4.22 1.58	
31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	6.62 -0.83 2.65 6.62 4.97 2.65 0.99	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	7.88 7.88 5.91 3.15 1.18	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand <small>(31 23 16 36-0001)</small> Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil.....	118.35	
For Excavation In Light Material (Class A), Deduct	-14.79	
For Excavation In Heavy/Wet Material (Class C), Add	47.34	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock..... Note: Includes compacted aggregate	203.02	
31 23 16 36-0011 Relocating On Site Excavated Material From Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures over 100'.		
31 23 16 36-0012 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'	5.11	
For Up To 20, Add	5.11	
For >20 To 50, Add	3.83	
For >50 To 250, Add	2.04	
For >250 To 500, Add	0.77	
31 23 16 36-0013 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'	7.67	
For Up To 20, Add	7.67	
For >20 To 50, Add	5.75	
For >50 To 250, Add	3.07	
For >250 To 500, Add	1.15	
31 23 16 36-0014 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'	11.51	
For Up To 20, Add	11.51	
For >20 To 50, Add	8.63	
For >50 To 250, Add	4.60	
For >250 To 500, Add	1.73	
31 23 16 36-0015 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'	15.35	
For Up To 20, Add	15.35	
For >20 To 50, Add	11.51	
For >50 To 250, Add	6.14	
For >250 To 500, Add	2.30	
31 23 16 36-0016 Backfilling <small>(31 23 16 36)</small> Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	4.19	
For Up To 20, Add	4.19	
For >20 To 50, Add	3.14	
For >50 To 250, Add	1.68	
For >250 To 500, Add	0.63	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	5.13	
For Up To 20, Add	5.13	
For >20 To 50, Add	3.85	
For >50 To 250, Add	2.05	
For >250 To 500, Add	0.77	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand.....	56.36	
31 23 16 36-0020 Compaction Of Fill Or Subbase <small>(31 23 16 36)</small> Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	10.91	
For Up To 20, Add	10.91	
For >20 To 50, Add	8.18	
For >50 To 250, Add	4.36	
For >250 To 500, Add	1.64	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	37.08	
31 23 16 36-0023 Grading <small>(31 23 16 36)</small> Note: For building foundations and other structures.		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	1.11	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	1.77	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	10.96	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	5.73	
For Up To 20, Add	5.73	
For >20 To 50, Add	4.30	
For >50 To 250, Add	2.29	
For >250 To 500, Add	0.86	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	86.79	
31 23 16 36-0030 Spread Material <small>(31 23 16 36)</small> Note: For building foundations and other structures.		



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine	2.98	
For Up To 20, Add	2.98	
For >20 To 50, Add	2.24	
For >50 To 250, Add	1.19	
For >250 To 500, Add	0.45	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	47.89	
31 23 16 46 Excavation Operations to Expose Underground Pipes and Structures (31 23 16)		
Note: Includes work above, beside and under pipe. Pipes up to 82" in diameter. Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine. See CSI section 31 23 16 13-0015 for loading excess material, 31 23 16 13-0018 for spreading excess material.		
31 23 16 46-0001 Excavation To Expose Underground Pipe Or Structures (31 23 16 46)		
Note: Includes stockpiling excess materials and trimming sides and bottom of trench. Excludes rock breaking.		
31 23 16 46-0002 Excavation By Machine To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0003 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Soil/Common Excavation To Expose Underground Pipes And Structures.....	13.24	
For Excavation In Light Material (Class A), Deduct	-1.66	
For Excavation In Heavy/Wet Material (Class C), Add	5.30	
For Up To 20, Add	13.24	
For >20 To 50, Add	9.93	
For >50 To 250, Add	5.30	
For >250 To 500, Add	1.99	
31 23 16 46-0004 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Loose Rock To Expose Underground Pipes And Structures.....	15.73	
For Up To 20, Add	15.73	
For >20 To 50, Add	11.80	
For >50 To 250, Add	6.29	
For >250 To 500, Add	2.36	
31 23 16 46-0005 Excavation By Hand To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0006 CY Excavation By Hand In Soil To Expose Underground Pipes And Structures	147.94	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 46-0007 CY Excavation By Hand In Loose Rock To Expose Underground Pipes And Structures	220.93	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 46-0008 Backfilling Or Placing Subbase At Exposed Underground Pipe Or Structures (31 23 16 46)		
Note: With imported or stockpiled materials		
31 23 16 46-0009 CY Backfilling By Hydraulic Excavator, Backhoe, Loader At Exposed Underground Pipes And Structures.....	9.93	
For >20 To 50, Add	7.45	
For >50 To 250, Add	3.97	
For >250 To 500, Add	1.49	
31 23 16 46-0010 CY Backfilling by Hand At Exposed Underground Pipes And Structures.....	67.07	
31 23 16 46-0011 Compaction Of Fill Or Subbase At Exposed Underground Pipe Or Structures (31 23 16 46)		
Note: With imported or stockpiled materials		
31 23 16 46-0012 CY Compaction of Fill or Subbase by Mechanical Means At Exposed Underground Pipe Or Structures.....	13.74	
For Up To 20, Add	13.74	
For >20 To 50, Add	10.31	
For >50 To 250, Add	5.50	
For >250 To 500, Add	2.06	
31 23 16 46-0013 CY Compaction of Fill or Subbase by Hand At Exposed Underground Pipe Or Structures	44.51	
31 23 16 46-0014 Loading Excess Material For Removal From Excavation At Exposed Underground Pipe Or Structures (31 23 16 46)		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.		
31 23 16 46-0015 CY Load Excess Material by Machine for Removal from Excavation At Exposed Underground Pipe Or Structures.....	6.38	
For Up To 20, Add	5.10	
For >20 To 50, Add	3.19	
For >50 To 250, Add	1.60	
For >500 To 1,000, Deduct	-0.96	
For >1,000, Deduct	-1.91	
31 23 16 46-0016 CY Load Excess Material by Hand for Removal from Excavation At Exposed Underground Pipe Or Structures.....	86.79	
31 23 16 46-0017 Spread Excess Or Imported Material At Exposed Underground Pipe Or Structures (31 23 16 46)		
Note: Includes hand work by laborer for clean-up.		
31 23 16 46-0018 CY Spread Excess Or Imported Material On Site By Machine At Exposed Underground Pipe Or Structures.....	2.98	
For Up To 20, Add	2.38	
For >20 To 50, Add	1.49	
For >50 To 250, Add	0.75	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.89	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 23 16 46-0019 CY Spread Excess Or Imported Material On Site By Hand At Exposed Underground Pipe Or Structures.....47.89

31 23 19 Dewatering (31 23)

31 23 19 00-0001 Well Point Dewatering System (31 23 19)

31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001)

Note: Priced by linear foot of header used.

31 23 19 00-0003	LF	Up To 100' In Length Well Point System Delivery, Installation And Removal	119.52
31 23 19 00-0004	LF	>100' To 250' In Length Well Point System Delivery, Installation And Removal	65.73
31 23 19 00-0005	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	59.76
31 23 19 00-0006	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	53.78
31 23 19 00-0007	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal	47.81
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal.....	41.83

31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001)

Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.

31 23 19 00-0010	LFD	Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	2.92
		For >5 Days And <1 Month, Deduct	-0.64
		For >1 Month, Deduct	-0.82
31 23 19 00-0011	LFD	>100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.70
		For >5 Days And <1 Month, Deduct	-0.37
		For >1 Month, Deduct	-0.48
31 23 19 00-0012	LFD	>250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	1.22
		For >5 Days And <1 Month, Deduct	-0.27
		For >1 Month, Deduct	-0.34
31 23 19 00-0013	LFD	>500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.89
		For >5 Days And <1 Month, Deduct	-0.20
		For >1 Month, Deduct	-0.25
31 23 19 00-0014	LFD	>1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.81
		For >5 Days And <1 Month, Deduct	-0.18
		For >1 Month, Deduct	-0.23

31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001)

Note: The quantity for operation shall be the total number of hours the well point system is operational.

31 23 19 00-0016 HR Operation Costs.....142.36

31 23 23 Fill (31 23)

31 23 23 23 Compaction (31 23 23)

31 23 23 23-0001 Compaction Water, Water Truck And Operator (31 23 23 23)

31 23 23 23-0002	MGL	Compaction Water, Water Truck And Operator	194.00
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Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1253 for water truck when water is available on site.

31 24 Embankments (31 20)

31 24 13 Roadway Embankments (31 24)

31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13)

Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.

31 24 13 00-0002 Cutting, Shaping And Rough Grading (31 24 13 00-0001)

Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.

31 24 13 00-0003 Cutting, Shaping, And Rough Grading (31 24 13 00-0002)

31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	6.40
		For Up To 20, Add	6.40
		For >20 To 50, Add	4.80
		For >50 To 250, Add	2.56
		For >250 To 500, Add	0.96
		For >1,000, Deduct	-0.96



Earthwork	31	13
Earth Moving	31 20	
Embankments	31 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0005 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	7.93	
Note: Includes compacted aggregate		
For Up To 20, Add	7.93	
For >20 To 50, Add	5.95	
For >50 To 250, Add	3.17	
For >250 To 500, Add	1.19	
For >1,000, Deduct	-1.19	
31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)		
31 24 13 00-0007 SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope.....	6.07	
31 24 13 00-0008 SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	7.89	
31 24 13 00-0009 Scarify Soil (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010 CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	5.93	
For Up To 20, Add	2.97	
For >20 To 50, Add	1.48	
For >250 To 500, Deduct	-0.59	
For >500, Deduct	-1.19	
31 24 13 00-0011 Relocating On Site Excavated Material (31 24 13 00-0001)		
31 24 13 00-0012 CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	11.51	
For Up To 20, Add	11.51	
For >20 To 50, Add	8.63	
For >50 To 250, Add	4.60	
For >250 To 500, Add	1.73	
For >1,000, Deduct	-1.73	
31 24 13 00-0013 CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	15.35	
For Up To 20, Add	15.35	
For >20 To 50, Add	11.51	
For >50 To 250, Add	6.14	
For >250 To 500, Add	2.30	
For >1,000, Deduct	-2.30	
31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015 CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	7.04	
For Up To 20, Add	7.04	
For >20 To 50, Add	5.28	
For >50 To 250, Add	2.82	
For >250 To 500, Add	1.06	
For >1,000, Deduct	-1.06	
31 24 13 00-0016 Grading (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017 SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	0.73	
31 24 13 00-0018 SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	0.96	
31 24 13 00-0019 LF Finish Grade For Curb.....	1.08	
31 24 13 00-0020 LF Finish Grade For Curb And Gutter.....	1.33	
31 24 13 00-0021 Compaction Of Fill Or Subbase (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.65	
For Up To 250, Add	0.65	
For >250 To 500, Add	0.49	
For >500 To 1,000, Add	0.26	
For >5,000, Deduct	-0.10	
31 24 13 00-0023 Loading Excess Material For Removal From Excavation (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	5.51	
For Up To 20, Add	5.51	
For >20 To 50, Add	4.13	
For >50 To 250, Add	2.20	
For >250 To 500, Add	0.83	
For >1,000, Deduct	-0.83	

31 25 Erosion and Sedimentation Controls (31 20)

31	31	Earthwork
	31 20	Earth Moving
	31 25	Erosion and Sedimentation Controls



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 25 14 Stabilization Measures for Erosion and Sedimentation Control (31 25)

31 25 14 13 Hydraulically-Applied Erosion Control (31 25 14)

31 25 14 13-0001 Bonded Fiber Matrix (31 25 14 13)

31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	52.82	
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	48.34	
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	44.54	
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied	42.37	

31 25 14 16 Rolled Erosion Control Mats and Blankets (31 25 14)

Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.

31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)

31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)

31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket	2.53	
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.				
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket	3.23	
Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.				
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket	2.41	
Note: As manufactured by American Excelsior				
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket	2.53	
Note: As manufactured by American Green.				
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	2.25	

31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)

31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket	3.25	
Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.				
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket	4.34	
Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.				
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural.....	2.73	
Note: As manufactured by American Excelsior.				
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green	2.85	
Note: As manufactured by American Excelsior.				
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket.....	3.03	
Note: As manufactured by American Excelsior.				

31 25 14 16-0014 Turf Reinforcement Mats (TRM) (31 25 14 16-0001)

Note: Permanent, UV stabilized.

31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat.....	11.99	
Note: 100% synthetic, UV stabilized, two layer netting.				
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat	11.05	
Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.				
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat.....	13.27	
Note: As manufactured by American Excelsior, 100% recycled				

31 25 14 16-0018 Jute Mesh Erosion Control Blankets (31 25 14 16-0001)

31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave.....	3.02	
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31 25 14 16-0020 Revegetation Mat (31 25 14 16-0001)

31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	9.18	
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.				
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber.....	13.13	
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.				

31 25 14 23 Stabilization Measures for Erosion Control (31 25 14)

See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 25 14 23-0001 Sand Bags (31 25 14 23)

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0002	BAG	50 LB Capacity Sand Bag With Sand	6.15	2.49
			-0.50	
For >2,500 To 5,000, Deduct				
			-1.11	
For >5,000, Deduct				
31 25 14 23-0003	BAG	75 LB Capacity Sand Bag With Sand	7.98	3.10
			-0.62	
For >2,500 To 5,000, Deduct				
			-1.42	
For >5,000, Deduct				
31 25 14 23-0004	BAG	100 LB Capacity Sand Bag With Sand	10.07	3.70
			-0.74	
For >2,500 To 5,000, Deduct				
			-1.75	
For >5,000, Deduct				



Earthwork	31
Earth Moving	31 20
Erosion and Sedimentation Controls	31 25

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0005 BAG 125 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	12.41 -0.93 -2.17	4.63
31 25 14 23-0006 BAG 150 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	15.08 -1.11 -2.62	5.55
31 25 14 23-0007 BAG 175 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	17.56 -1.26 -3.02	6.32
31 25 14 23-0008 BAG 2,000 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	143.43 -8.34 -22.69	44.53
31 25 14 23-0009 BAG 3,000 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	188.44 -9.18 -28.02	48.99
31 25 14 23-0010 Gravel Bags <small>(31 25 14 23)</small> Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0011 BAG 30 LB Capacity Gravel Bag With Gravel <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	6.04 -0.33 -0.93	1.66
31 25 14 23-0012 BAG 50 LB Capacity Gravel Bag With Gravel <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	10.63 -0.50 -1.56	2.49
31 25 14 23-0013 Floating Turbidity Curtain <small>(31 25 14 23)</small> Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.		
31 25 14 23-0014 LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	23.05 -3.51 -2.14 2.59	
31 25 14 23-0015 LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	24.97 -3.86 -2.35 2.85	
31 25 14 23-0016 LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	27.61 -4.37 -2.66 3.23	
31 25 14 23-0017 LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	29.87 -4.79 -2.92 3.54	
31 25 14 23-0018 LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	31.34 -5.03 -3.06 3.71	
31 25 14 23-0019 LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	32.82 -5.26 -3.20 3.89	
31 25 14 23-0020 LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	34.54 -5.54 -3.37 4.10	
31 25 14 23-0021 LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	36.89 -5.96 -3.63 4.41	
31 25 14 23-0022 LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	38.77 -6.27 -3.81 4.63	
31 25 14 23-0023 LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	41.27 -6.71 -4.08 4.96	
31 25 14 23-0024 LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	43.61 -7.11 -4.33 5.25	
31 25 14 23-0025 LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	45.87 -7.48 -4.55 5.53	
31 25 14 23-0026 LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	49.90 -8.25 -5.02 6.10	
31 25 14 23-0027 LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	52.32 -8.65 -5.27 6.39	

31	31	Earthwork
	31 20	Earth Moving
	31 25	Erosion and Sedimentation Controls



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0028 LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	54.68	
For Type 1, Deduct	-9.02	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.49	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.67	
31 25 14 23-0029 LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	57.18	
For Type 1, Deduct	-9.42	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.73	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.96	
31 25 14 23-0030 LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	59.63	
For Type 1, Deduct	-9.80	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.96	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.24	
31 25 14 23-0031 Turbidity Curtain Anchors (31 25 14 23)		
31 25 14 23-0032 EA 14 LB, Turbidity Curtain Anchor System.....	611.04	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033 EA 25 LB, Turbidity Curtain Anchor System.....	836.73	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034 EA 40 LB, Turbidity Curtain Anchor System.....	1,063.40	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035 EA 65 LB, Turbidity Curtain Anchor System.....	1,389.82	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036 Filter Bags (31 25 14 23)		
31 25 14 23-0037 Non-Woven Filter Bags (31 25 14 23-0036)		
31 25 14 23-0038 EA 6' x 15' Non-Woven Filter Bag.....	202.14	
31 25 14 23-0039 EA 13' x 15' Non-Woven Filter Bag.....	292.31	
31 25 14 23-0040 EA 15' x 15' Non-Woven Filter Bag.....	336.29	
31 25 14 23-0041 Monofilament Filter Bags (31 25 14 23-0036)		
31 25 14 23-0042 EA 5' x 15' Monofilament Filter Bag.....	210.10	
31 25 14 23-0043 EA 10' x 15' Monofilament Filter Bag.....	290.67	
31 25 14 23-0044 Cable Articulating Concrete Block (31 25 14 23)		
Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045 SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	42.95	
For Up To 500, Add	9.60	
For >500 To 1,000, Add	5.31	
31 25 14 23-0046 SF 6" Open Cell Articulated Concrete Block With Earth Backfill.....	49.31	
For Up To 500, Add	10.97	
For >500 To 1,000, Add	6.04	
31 25 14 23-0047 SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	56.58	
For Up To 500, Add	12.53	
For >500 To 1,000, Add	6.87	
31 25 14 23-0048 SF 9" Open Cell Articulated Concrete Block With Earth Backfill.....	63.88	
For Up To 500, Add	14.13	
For >500 To 1,000, Add	7.74	
31 25 14 23-0049 SF 4.75" Closed Cell Articulated Concrete Block.....	46.37	
For Up To 500, Add	10.29	
For >500 To 1,000, Add	5.65	
31 25 14 23-0050 SF 6" Closed Cell Articulated Concrete Block.....	53.39	
For Up To 500, Add	11.78	
For >500 To 1,000, Add	6.44	
31 25 14 23-0051 SF 7.5" Closed Cell Articulated Concrete Block.....	61.43	
For Up To 500, Add	13.50	
For >500 To 1,000, Add	7.36	
31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block.....	69.42	
For Up To 500, Add	15.23	
For >500 To 1,000, Add	8.29	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26)		
Note: Includes stakes and embedding.		
31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001)		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center.....	3.27	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center.....	2.59	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center.....	1.89	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center.....	1.68	
31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001)		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center.....	3.41	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center.....	2.87	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center.....	1.77	



Earthwork	31	13
Earth Moving	31 20	
Erosion and Sedimentation Controls	31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center	1.78	
31 25 14 26-0012 Silt Dike Barrier <small>(31 25 14 26-0001)</small>		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes.....	4.27	
31 25 14 26-0014 Silt Fences Removal <small>(31 25 14 26-0001)</small>		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes.....	0.79	
31 25 14 26-0016 Hay And Straw Bales <small>(31 25 14 26)</small>		
Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales.....	4.72	
Note: Includes securing in ground with stakes.		
31 25 14 26-0018 LF Place Hay Bales	4.34	
Note: Includes securing in ground with stakes.		
31 25 14 26-0019 LF Removal Of Hay Or Straw Bales	1.41	
Note: Includes removal of stakes.		
31 25 14 26-0020 Sediment Logs (Degradable) <small>(31 25 14 26)</small>		
31 25 14 26-0021 Sediment Logs (Degradable) <small>(31 25 14 26-0020)</small>		
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0022 LF 12" Sediment Log	9.09	
31 25 14 26-0023 LF 20" Sediment Log	10.79	
31 25 14 26-0024 Wattles (Degradable) With UV Stabilized Synthetic Netting <small>(31 25 14 26-0020)</small>		
Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0025 EA Wattles (Sterile Straw Filled Rolls), 9" x 25'	159.44	
31 25 14 26-0026 EA Wattles (Sterile Straw Filled Rolls), 12" x 20'	153.32	
31 25 14 26-0027 Fiber Roll (CALTRANS Type 1) <small>(31 25 14 26)</small>		
Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0028 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	6.55	
<i>For >1,000 To 10,000, Deduct</i>		
	-0.71	
<i>For >10,000, Deduct</i>		
	-1.21	
31 25 14 26-0029 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.52	
<i>For >1,000 To 10,000, Deduct</i>		
	-0.74	
<i>For >10,000, Deduct</i>		
	-1.26	
31 25 14 26-0030 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	9.48	
<i>For >1,000 To 10,000, Deduct</i>		
	-0.88	
<i>For >10,000, Deduct</i>		
	-1.51	
31 25 14 26-0031 Fiber Roll (CALTRANS Type 2) <small>(31 25 14 26)</small>		
Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0032 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.66	
<i>For >1,000 To 10,000, Deduct</i>		
	-0.58	
<i>For >10,000, Deduct</i>		
	-0.98	
31 25 14 26-0033 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.59	
<i>For >1,000 To 10,000, Deduct</i>		
	-0.60	
<i>For >10,000, Deduct</i>		
	-1.03	
31 25 14 26-0034 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	7.89	
<i>For >1,000 To 10,000, Deduct</i>		
	-0.65	
<i>For >10,000, Deduct</i>		
	-1.11	
31 25 14 26-0035 Inlet Protection Sediment Bags <small>(31 25 14 26)</small>		
Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0036 EA 2' x 2' x 3' Inlet Protection Sediment Bag.....	54.07	
31 25 14 26-0037 EA 2' x 3' x 3' Inlet Protection Sediment Bag.....	68.00	
31 25 14 26-0038 EA 2' x 4' x 3' Inlet Protection Sediment Bag.....	84.20	
31 30 Earthwork Methods <small>(31)</small>		
31 31 Soil Treatment <small>(31 30)</small>		
31 31 16 Termite Control <small>(31 31)</small>		
31 31 16 13 Chemical Termite Control <small>(31 31 16)</small>		
31 31 16 13-0001 Commercial Use <small>(31 31 16 13)</small>		
31 31 16 13-0002 SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	1.01	
31 31 16 13-0003 SF Termite Pretreatment, Commercial Slab And Walls.....	1.01	
31 31 16 13-0004 Residential Use <small>(31 31 16 13)</small>		

31	31	Earthwork
	31 30	Earthwork Methods
	31 31	Soil Treatment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 31 16 13-0005 SF Termite Pretreatment, Residential General Spraying Walls And Slab	0.87	
31 31 16 13-0006 SF Termite Treatment, Existing Residential Structure.....	1.19	
31 31 19 Vegetation Control <small>(31 31)</small>		
31 31 19 13 Chemical Vegetation Control <small>(31 31 19)</small>		
31 31 19 13-0001 Soil Sterilants <small>(31 31 19 13)</small>		
31 31 19 13-0002 MSF Soil Sterilant.....	27.08	
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
For >45 To 90, Deduct	-0.42	
For >90 To 225, Deduct	-2.20	
For >225, Deduct	-3.04	
31 32 Soil Stabilization <small>(31 32)</small>		
31 32 13 Soil Mixing Stabilization <small>(31 32)</small>		
31 32 13 16 Cement Soil Stabilization <small>(31 32 13)</small>		
31 32 13 16-0001 Cementitious Soil Binder <small>(31 32 13 16)</small>		
31 32 13 16-0002 CY Cementitious Soil Binder, 4% Cement Mix By Volume	40.40	
31 32 13 16-0003 CY Cementitious Soil Binder, 5% Cement Mix By Volume	44.64	
31 32 13 16-0004 CY Cementitious Soil Binder, 6% Cement Mix By Volume	47.91	
31 32 13 16-0005 CY Cementitious Soil Binder, 7% Cement Mix By Volume	51.99	
31 32 13 16-0006 CY Cementitious Soil Binder, 9% Cement Mix By Volume	60.29	
31 32 13 16-0007 CY Cementitious Soil Binder, 12% Cement Mix By Volume	72.48	
31 32 13 19 Lime Soil Stabilization <small>(31 32 13)</small>		
Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
31 32 13 19-0001 Lime Slurry <small>(31 32 13 19)</small>		
31 32 13 19-0002 LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	34.13	
31 32 13 19-0003 TON Cement Stabilized Base Material	182.86	
31 32 13 19-0004 CWT Lime For Soil Stabilization	30.75	
Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005 LCY Roller, Grader - Lime Stabilization	17.16	
31 32 13 19-0006 LCY Roller, Grader - Cement Stabilization	3.86	
31 32 13 19-0007 Lime Stabilized Subgrade <small>(31 32 13 19)</small>		
Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).		
31 32 13 19-0008 SY 6" Thick Lime Stabilized Subgrade, 25 LB	15.60	
For 4% Lime Instead Of 5%, Deduct	-0.55	
For 6% Lime Instead Of 5%, Add	0.55	
31 32 13 19-0009 SY 7" Thick Lime Stabilized Subgrade, 29 LB	18.06	
For 4% Lime Instead Of 5%, Deduct	-0.63	
For 6% Lime Instead Of 5%, Add	0.63	
31 32 13 19-0010 SY 8" Thick Lime Stabilized Subgrade, 33 LB	20.60	
For 4% Lime Instead Of 5%, Deduct	-0.72	
For 6% Lime Instead Of 5%, Add	0.72	
31 32 13 29 Liquid Soil Stabilization <small>(31 32 13)</small>		
31 32 13 29-0001 GAL Polyacrylamide And Calcium Solution	3.29	
31 32 19 Geosynthetic Soil Stabilization and Layer Separation <small>(31 32)</small>		
31 32 19 13 Geogrid Soil Stabilization <small>(31 32 19)</small>		
31 32 19 13-0001 Geogrid Fabrics <small>(31 32 19 13)</small>		
Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.		
31 32 19 13-0002 SY 5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	3.45	
For Up To 50, Add	0.79	
For >50 To 150, Add	0.58	
For >150 To 250, Add	0.38	
For >250 To 500, Add	0.19	
31 32 19 13-0003 SY 6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	3.92	
For Up To 50, Add	0.89	
For >50 To 150, Add	0.66	
For >150 To 250, Add	0.43	
For >250 To 500, Add	0.21	



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0004	SY		8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500).....	4.28	
			<i>For Up To 50, Add</i>	0.96	
			<i>For >50 To 150, Add</i>	0.71	
			<i>For >150 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.23	
31 32 19 13-0005	SY		12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800).....	6.12	
			<i>For Up To 50, Add</i>	1.34	
			<i>For >50 To 150, Add</i>	0.99	
			<i>For >150 To 250, Add</i>	0.65	
			<i>For >250 To 500, Add</i>	0.32	
31 32 19 13-0006	SY		14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000).....	7.00	
			<i>For Up To 50, Add</i>	1.52	
			<i>For >50 To 150, Add</i>	1.13	
			<i>For >150 To 250, Add</i>	0.74	
			<i>For >250 To 500, Add</i>	0.37	
31 32 19 13-0007	SY		4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20).....	3.50	
			<i>For Up To 50, Add</i>	0.80	
			<i>For >50 To 150, Add</i>	0.59	
			<i>For >150 To 250, Add</i>	0.38	
			<i>For >250 To 500, Add</i>	0.19	
31 32 19 13-0008	SY		5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30).....	5.12	
			<i>For Up To 50, Add</i>	1.13	
			<i>For >50 To 150, Add</i>	0.84	
			<i>For >150 To 250, Add</i>	0.55	
			<i>For >250 To 500, Add</i>	0.27	

31 32 19 16 Geotextile Soil Stabilization (31 32 19)

31 32 19 16-0001 Nonwoven Polypropylene Geotextiles (31 32 19 16)

Note: For drainage, filtration and separation.

31 32 19 16-0002	SY		3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	1.08	
			<i>For Up To 50, Add</i>	0.26	
			<i>For >50 To 150, Add</i>	0.19	
			<i>For >150 To 250, Add</i>	0.12	
			<i>For >250 To 500, Add</i>	0.06	
31 32 19 16-0003	SY		3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	1.16	
			<i>For Up To 50, Add</i>	0.27	
			<i>For >50 To 150, Add</i>	0.20	
			<i>For >150 To 250, Add</i>	0.13	
			<i>For >250 To 500, Add</i>	0.06	
31 32 19 16-0004	SY		4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	1.25	
			<i>For Up To 50, Add</i>	0.29	
			<i>For >50 To 150, Add</i>	0.21	
			<i>For >150 To 250, Add</i>	0.14	
			<i>For >250 To 500, Add</i>	0.07	
31 32 19 16-0005	SY		4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	1.34	
			<i>For Up To 50, Add</i>	0.31	
			<i>For >50 To 150, Add</i>	0.23	
			<i>For >150 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
31 32 19 16-0006	SY		6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	1.59	
			<i>For Up To 50, Add</i>	0.36	
			<i>For >50 To 150, Add</i>	0.26	
			<i>For >150 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.09	
31 32 19 16-0007	SY		7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	1.86	
			<i>For Up To 50, Add</i>	0.42	
			<i>For >50 To 150, Add</i>	0.31	
			<i>For >150 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.10	
31 32 19 16-0008	SY		8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	2.04	
			<i>For Up To 50, Add</i>	0.46	
			<i>For >50 To 150, Add</i>	0.34	
			<i>For >150 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.11	
31 32 19 16-0009	SY		10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	2.51	
			<i>For Up To 50, Add</i>	0.55	
			<i>For >50 To 150, Add</i>	0.41	
			<i>For >150 To 250, Add</i>	0.27	
			<i>For >250 To 500, Add</i>	0.13	
31 32 19 16-0010	SY		16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	5.50	
			<i>For Up To 50, Add</i>	1.15	
			<i>For >50 To 150, Add</i>	0.86	
			<i>For >150 To 250, Add</i>	0.57	
			<i>For >250 To 500, Add</i>	0.28	

31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0012	SY	200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	1.55	
		<i>For Up To 50, Add</i>	0.35	
		<i>For >50 To 150, Add</i>	0.26	
		<i>For >150 To 250, Add</i>	0.17	
		<i>For >250 To 500, Add</i>	0.08	
31 32 19 16-0013	SY	315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	2.16	
		<i>For Up To 50, Add</i>	0.47	
		<i>For >50 To 150, Add</i>	0.35	
		<i>For >150 To 250, Add</i>	0.23	
		<i>For >250 To 500, Add</i>	0.11	
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	3.80	
		<i>For Up To 50, Add</i>	0.81	
		<i>For >50 To 150, Add</i>	0.60	
		<i>For >150 To 250, Add</i>	0.40	
		<i>For >250 To 500, Add</i>	0.20	
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	3.71	
		<i>For Up To 50, Add</i>	0.79	
		<i>For >50 To 150, Add</i>	0.59	
		<i>For >150 To 250, Add</i>	0.39	
		<i>For >250 To 500, Add</i>	0.19	
31 32 19 16-0016	SY	6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	3.24	
		<i>For Up To 50, Add</i>	0.70	
		<i>For >50 To 150, Add</i>	0.52	
		<i>For >150 To 250, Add</i>	0.34	
		<i>For >250 To 500, Add</i>	0.17	
31 32 19 16-0017	SY	9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	3.46	
		<i>For Up To 50, Add</i>	0.74	
		<i>For >50 To 150, Add</i>	0.55	
		<i>For >150 To 250, Add</i>	0.36	
		<i>For >250 To 500, Add</i>	0.18	
31 32 19 16-0018	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	4.41	
		<i>For Up To 50, Add</i>	0.93	
		<i>For >50 To 150, Add</i>	0.69	
		<i>For >150 To 250, Add</i>	0.46	
		<i>For >250 To 500, Add</i>	0.23	
31 32 19 16-0019	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	6.28	
		<i>For Up To 50, Add</i>	1.30	
		<i>For >50 To 150, Add</i>	0.97	
		<i>For >150 To 250, Add</i>	0.64	
		<i>For >250 To 500, Add</i>	0.32	
31 32 19 16-0020		Geomembranes <small>(31 32 19 16)</small>		
31 32 19 16-0021		Polyvinyl Chloride (PVC) Geomembrane <small>(31 32 19 16-0020)</small>		
31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.18	
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.37	
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.64	
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.97	
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.26	
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.46	
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.68	
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.95	
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.23	
31 32 19 16-0031		High Density Polyethylene (HDPE) Geomembrane <small>(31 32 19 16-0020)</small>		
31 32 19 16-0032	SF	20 Mil High Density Polyethylene Membrane (US Fabrics)	1.17	
31 32 19 16-0033	SF	30 Mil High Density Polyethylene Membrane (US Fabrics)	1.04	
31 32 19 16-0034	SF	40 Mil High Density Polyethylene Membrane (US Fabrics)	1.19	
31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics)	1.83	
31 32 19 16-0036	SF	60 Mil High Density Polyethylene Membrane (US Fabrics)	1.46	
31 32 19 16-0037	SF	80 Mil High Density Polyethylene Membrane (US Fabrics)	1.75	
31 32 19 16-0038	SF	100 Mil High Density Polyethylene Membrane (US Fabrics)	2.05	
31 32 19 16-0039	SF	120 Mil High Density Polyethylene Membrane (US Fabrics)	3.54	
31 32 19 16-0040	SF	140 Mil High Density Polyethylene Membrane (US Fabrics)	3.66	
31 32 19 26		Geoweb Cellular Confinement System <small>(31 32 19)</small>		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001		Geoweb Cellular Confinement System <small>(31 32 19 26)</small>		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems)	5.78	
		<i>For >20,000, Deduct</i>	-0.12	
		<i>For >2:1 Slope, Add</i>	1.11	



	Earthwork	31
	Earthwork Methods	31 30
	Soil Stabilization	31 32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 26-0003 SF 6" Geoweb Cellular Confinement System (Presto Geosystems)	6.88	
For >20,000, Deduct	-0.18	
For >2:1 Slope, Add	1.11	
31 32 19 26-0004 SF 8" Geoweb Cellular Confinement System (Presto Geosystems)	8.17	
For >20,000, Deduct	-0.24	
For >2:1 Slope, Add	1.11	

31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001 Erosion Control Fabric (31 35 19 19)

31 35 19 19-0002 SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900)	4.36	
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31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002 SY 6" Deep Stone Filled Gabion Slope Protection	63.15	
31 36 13 00-0003 SY 9" Deep Stone Filled Gabion Slope Protection	74.50	
31 36 13 00-0004 SY 12" Deep Stone Filled Gabion Slope Protection	89.79	
31 36 13 00-0005 SY 15" Deep Stone Filled Gabion Slope Protection	106.11	
31 36 13 00-0006 SY 18" Deep Stone Filled Gabion Slope Protection	124.59	
31 36 13 00-0007 SY 24" Deep Stone Filled Gabion Slope Protection	170.52	
31 36 13 00-0008 SY 36" Deep Stone Filled Gabion Slope Protection	215.50	

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 37 13 Machined Riprap (31 37)

31 37 13 00-0001 Random - Filter Stone (31 37 13)

31 37 13 00-0002 CY 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	55.13	
For Chinking Material, Add	13.81	
31 37 13 00-0003 CY >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	63.60	
For Chinking Material, Add	13.81	
31 37 13 00-0004 CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	67.58	
For Chinking Material, Add	13.81	
31 37 13 00-0005 CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	72.12	
For Chinking Material, Add	13.81	
31 37 13 00-0006 CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	75.79	
For Chinking Material, Add	13.81	
31 37 13 00-0007 CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap	81.77	
31 37 13 00-0008 CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	99.29	
31 37 13 00-0009 TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	36.76	
31 37 13 00-0010 TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	42.14	
31 37 13 00-0011 TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	44.67	
31 37 13 00-0012 TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	47.55	
31 37 13 00-0013 TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	49.88	
31 37 13 00-0014 TON >600 LB Average Pieces Random, Dumped From Truck, Rip Rap	53.72	
31 37 13 00-0015 TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	67.49	

31 40 Shoring and Underpinning (31)

31 41 Shoring (31 40)

31 41 13 Timber Shoring (31 41)

31 41 13 00-0001 Wood Sheet Piling (31 41 13)

31 41 13 00-0002 Pull And Salvage (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003 SF 8' Deep Excavation, Wood Shoring, Pull And Salvage	12.94	
For Wood Sheeting Left In Place	-0.85	
31 41 13 00-0004 SF 10' Deep Excavation, Wood Shoring, Pull And Salvage	13.99	
For Wood Sheeting Left In Place	-1.04	
31 41 13 00-0005 SF 12' Deep Excavation, Wood Shoring, Pull And Salvage	15.13	
For Wood Sheeting Left In Place	-1.25	
31 41 13 00-0006 SF 14' Deep Excavation, Wood Shoring, Pull And Salvage	16.37	
For Wood Sheeting Left In Place	-1.48	

31	31 Earthwork
	31 40 Shoring and Underpinning
	31 41 Shoring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 41 13 00-007 SF 16' Deep Excavation, Wood Shoring, Pull And Salvage	17.72	
For Wood Sheeting Left In Place	-1.73	
31 41 13 00-008 SF 18' Deep Excavation, Wood Shoring, Pull And Salvage	19.17	
For Wood Sheeting Left In Place	-2.03	
31 41 13 00-009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage	20.78	
For Wood Sheeting Left In Place	-2.35	

31 41 16 Sheet Piling (31 41)

31 41 16 13 Steel Sheet Piling (31 41 16)

31 41 16 13-0001

Standard Carbon Grade Steel Sheeting - Pull And Salvage (31 41 16 13)

Note: Up to 3 months, 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002 TON Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage	2,130.07	
For Standard Sheeting Left In Place, Add	1,100.78	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,576.21	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	118.86	
For High Strength Sheeting 55,000 PSI Grade, Add	132.06	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	409.39	
For Each Additional Month >3 Months, Add	66.03	
31 41 16 13-0003 TON Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage	2,209.26	
For Standard Sheeting Left In Place, Add	1,061.19	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,536.61	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	118.86	
For High Strength Sheeting 55,000 PSI Grade, Add	132.06	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	409.39	
For Each Additional Month >3 Months, Add	66.03	
31 41 16 13-0004 TON Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,577.39	
For Standard Sheeting Left In Place, Add	877.12	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,352.55	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	118.86	
For High Strength Sheeting 55,000 PSI Grade, Add	132.06	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	409.39	
For Each Additional Month >3 Months, Add	66.03	
31 41 16 13-0005 TON Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,931.63	
For Standard Sheeting Left In Place, Add	700.00	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,175.43	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	118.86	
For High Strength Sheeting 55,000 PSI Grade, Add	132.06	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	409.39	
For Each Additional Month >3 Months, Add	66.03	
31 41 16 13-0006 TON Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,140.01	
For Standard Sheeting Left In Place, Add	595.81	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,071.24	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	118.86	
For High Strength Sheeting 55,000 PSI Grade, Add	132.06	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	409.39	
For Each Additional Month >3 Months, Add	66.03	
31 41 16 13-0007 TON Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,352.56	
For Standard Sheeting Left In Place, Add	489.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	964.96	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	118.86	
For High Strength Sheeting 55,000 PSI Grade, Add	132.06	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	409.39	
For Each Additional Month >3 Months, Add	66.03	

31 45 Vibroflotation and Densification (31 40)

31 45 13 Vibroflotation (31 45)

31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....	14.22	
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31 48 Underpinning (31 40)

31 48 33 Micropile Underpinning (31 48)

31 48 33 00-0001 Augered Micro-Pile And Grout System (31 48 33)

31 48 33 00-0002 EA Micro-Pile Mobilization Per Job.....	2,296.52	
31 48 33 00-0003 EA Relocate And Set-up Micro-Pile Equipment At New Pile Cap Location	574.13	
31 48 33 00-0004 VLF Auger 8" Diameter Hole, Insert GEWI Micro-Pile And Grout Void	339.59	
Note: Includes GEWI piles, threadbar extensions, couplers, spacers, top nut and steel bearing plate.		
31 48 33 00-0005 VLF Auger 8" Diameter Hole, Insert GEWI Micro-Pile And Grout Void - Indoor	411.34	
Note: Includes GEWI piles, threadbar extensions, couplers, spacers, top nut and steel bearing plate.		
31 48 33 00-0006 EA Pile Load Test.....	2,870.65	

31 50 Excavation Support and Protection (31)

31 52 Cofferdams (31 50)

31 52 21 Portable Cofferdams (31 52)



Earthwork	31	13
Excavation Support and Protection	31 50	
Cofferdams	31 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 52 21 00-0001	Portable Cofferdams <small>(31 52 21)</small> Note: Excludes dewatering and pumps.	
31 52 21 00-0002	Portable Cofferdam Rental <small>(31 52 21 00-0001)</small> Note: Excludes delivery and installation.	
31 52 21 00-0003	LF 3' High x 7' Width, Portable Cofferdam, Rental Per Month 40.23 Note: Minimum 40'	
31 52 21 00-0004	LF 4' High x 9' Width, Portable Cofferdam, Rental Per Month 51.50 Note: Minimum 40'	
31 52 21 00-0005	LF 5' High x 11' Width, Portable Cofferdam, Rental Per Month 72.42 Note: Minimum 40'	
31 52 21 00-0006	LF 6' High x 13' Width, Portable Cofferdam, Rental Per Month 93.34 Note: Minimum 40'	
31 52 21 00-0007	LF 8' High x 17' Width, Portable Cofferdam, Rental Per Month 120.70 Note: Minimum 40'	
31 52 21 00-0008	LF 10' High x 21' Width, Portable Cofferdam, Rental Per Month 241.40 Note: Minimum 40'	
31 52 21 00-0009	LF 12' High x 25' Width, Portable Cofferdam, Rental Per Month 337.95 Note: Minimum 40'	
31 52 21 00-0010	LF 16' High x 33' Width, Portable Cofferdam, Rental Per Month 477.96 Note: Minimum 40'	
31 52 21 00-0011	Portable Cofferdam Delivery And Set-up <small>(31 52 21 00-0001)</small> Note: Excludes crane usage where required. See CSI section 01 22 23 00-0793 for crane lifting equipment.	
31 52 21 00-0012	LF Up To 5' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water 9.86	
31 52 21 00-0013	LF 6' To 8' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water 15.78	
31 52 21 00-0014	LF 10' To 12' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water 23.67	
31 52 21 00-0015	LF 16' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water 31.57	
31 52 21 00-0016	LF Up To 5' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water 5.91	
31 52 21 00-0017	LF 6' To 8' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water 9.86	
31 52 21 00-0018	LF 10' To 12' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water 15.78	
31 52 21 00-0019	LF 16' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water 21.70	
31 52 21 00-0020	Portable Cofferdam Repositioning <small>(31 52 21 00-0001)</small>	
31 52 21 00-0021	LF Up To 5' High, Portable Cofferdam, Repositioning 4.93	
31 52 21 00-0022	LF 6' To 8' High, Portable Cofferdam, Repositioning 7.89	
31 52 21 00-0023	LF 10' To 12' High, Portable Cofferdam, Repositioning 11.84	
31 52 21 00-0024	LF 16' High, Portable Cofferdam, Repositioning 15.78	

31 60 Special Foundations and Load-bearing Elements (31)

31 62 Driven Piles (31 60)

31 62 13 Concrete Piles (31 62)

31 62 13 23 Prestressed Concrete Piles (31 62 13)

31 62 13 23-0001 Square Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0002	VLF 10" Square Prestressed Driven Concrete Pile 30.46 <i>For Piles Driven In Water, Add</i> 14.89	
31 62 13 23-0003	VLF 12" Square Prestressed Driven Concrete Pile 38.19 <i>For Piles Driven In Water, Add</i> 16.78	
31 62 13 23-0004	VLF 14" Square Prestressed Driven Concrete Pile 46.26 <i>For Piles Driven In Water, Add</i> 18.45	
31 62 13 23-0005	VLF 16" Square Prestressed Driven Concrete Pile 56.62 <i>For Piles Driven In Water, Add</i> 20.48	
31 62 13 23-0006	VLF 18" Square Prestressed Driven Concrete Pile 68.70 <i>For Piles Driven In Water, Add</i> 22.82	
31 62 13 23-0007	VLF 20" Square Prestressed Driven Concrete Pile 79.45 <i>For Piles Driven In Water, Add</i> 25.23	
31 62 13 23-0008	VLF 24" Square Prestressed Driven Concrete Pile 101.27 <i>For Piles Driven In Water, Add</i> 28.97	

31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0010	VLF 12" Octagonal Prestressed Driven Concrete Pile 35.23 <i>For Piles Driven In Water, Add</i> 15.72	
31 62 13 23-0011	VLF 14" Octagonal Prestressed Driven Concrete Pile 43.31 <i>For Piles Driven In Water, Add</i> 17.29	
31 62 13 23-0012	VLF 16" Octagonal Prestressed Driven Concrete Pile 51.49 <i>For Piles Driven In Water, Add</i> 18.97	
31 62 13 23-0013	VLF 18" Octagonal Prestressed Driven Concrete Pile 61.63 <i>For Piles Driven In Water, Add</i> 20.98	
31 62 13 23-0014	VLF 20" Octagonal Prestressed Driven Concrete Pile 65.59 <i>For Piles Driven In Water, Add</i> 22.51	
31 62 13 23-0015	VLF 24" Octagonal Prestressed Driven Concrete Pile 69.79 <i>For Piles Driven In Water, Add</i> 24.26	

31	31 Earthwork
	31 60 Special Foundations and Load-bearing Elements
	31 62 Driven Piles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	48.98	
For Piles Driven In Water, Add	16.42	
31 62 13 23-0018 VLF 14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	57.99	
For Piles Driven In Water, Add	17.99	
31 62 13 23-0019 VLF 16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	68.67	
For Piles Driven In Water, Add	19.83	
31 62 13 23-0020 VLF 18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	77.67	
For Piles Driven In Water, Add	21.59	
31 62 13 23-0021 VLF 20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	97.53	
For Piles Driven In Water, Add	24.57	
31 62 13 23-0022 VLF 24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	120.45	
For Piles Driven In Water, Add	27.99	
31 62 16 Steel Piles <small>(31 62)</small>		
31 62 16 16 Steel H Piles <small>(31 62 16)</small>		
31 62 16 16-0001 Rolled, Driven Steel H Piles <small>(31 62 16 16)</small>		
31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile.....	52.66	
For Piles Driven In Water, Add	18.23	
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile.....	59.75	
For Piles Driven In Water, Add	19.57	
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile.....	75.69	
For Piles Driven In Water, Add	21.17	
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile.....	71.89	
For Piles Driven In Water, Add	21.19	
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile.....	82.52	
For Piles Driven In Water, Add	22.26	
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile.....	95.51	
For Piles Driven In Water, Add	24.73	
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile.....	106.14	
For Piles Driven In Water, Add	25.79	
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile.....	94.87	
For Piles Driven In Water, Add	25.04	
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile.....	112.94	
For Piles Driven In Water, Add	26.85	
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile.....	127.13	
For Piles Driven In Water, Add	29.56	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile.....	144.14	
For Piles Driven In Water, Add	31.26	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles <small>(31 62 16 16)</small>		
31 62 16 16-0014 Rolled Steel H Pile Splices <small>(31 62 16 16-0013)</small>		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice.....	378.71	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice.....	454.20	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice.....	598.70	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice.....	636.45	
31 62 16 16-0019 Rolled Steel H Driving Caps <small>(31 62 16 16-0013)</small>		
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap.....	6,153.43	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap.....	6,153.43	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap.....	6,209.45	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap.....	9,417.97	
31 62 16 16-0024 Rolled Steel H Standard Pile Points <small>(31 62 16 16-0013)</small>		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point.....	416.46	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point.....	454.20	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point.....	598.70	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point.....	711.94	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point.....	598.70	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point.....	785.06	
31 62 16 19 Unfilled Tubular Steel Piles <small>(31 62 16)</small>		
31 62 16 19-0001 Unfilled Tubular Driven Steel Piles <small>(31 62 16 19)</small>		
31 62 16 19-0002 VLF 8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile.....	42.34	
For Piles Driven In Water, Add	20.82	
31 62 16 19-0003 VLF 8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile.....	48.32	
For Piles Driven In Water, Add	21.42	
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile.....	54.78	
For Piles Driven In Water, Add	22.07	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile.....	48.32	
For Piles Driven In Water, Add	21.42	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile.....	54.00	
For Piles Driven In Water, Add	21.99	



Earthwork	31
Special Foundations and Load-bearing Elements	31 60
Driven Piles	31 62

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	66.56 23.24	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	56.34 23.09	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	62.98 23.76	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	66.68 24.13	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	77.02 25.16	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	61.02 25.39	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	68.54 26.14	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	76.07 26.89	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	83.59 27.65	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	67.91 28.33	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	76.70 29.21	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	93.85 30.92	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	83.08 31.66	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	94.51 32.81	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	116.22 34.98	
31 62 16 19-0022 Splices And Points For Pipe Piles <small>(31 62 16 19)</small>		
31 62 16 19-0023 Steel Pipe Pile Splices <small>(31 62 16 19-0022)</small>		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice.....	297.37	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice.....	323.10	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice.....	416.76	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice.....	442.14	
31 62 16 19-0028 EA 16" Diameter, Steel Pipe Pile Splice.....	539.31	
31 62 16 19-0029 EA 18" Diameter, Steel Pipe Pile Splice.....	655.99	
31 62 16 19-0030 Steel Pipe Standard Pile Points <small>(31 62 16 19-0022)</small>		
31 62 16 19-0031 EA 8" Diameter, Steel Pipe Standard Pile Point.....	288.27	
31 62 16 19-0032 EA 10" Diameter, Steel Pipe Standard Pile Point.....	308.89	
31 62 16 19-0033 EA 12" Diameter, Steel Pipe Standard Pile Point.....	351.39	
31 62 16 19-0034 EA 14" Diameter, Steel Pipe Standard Pile Point.....	408.07	
31 62 16 19-0035 EA 16" Diameter, Steel Pipe Standard Pile Point.....	459.59	
31 62 16 19-0036 EA 18" Diameter, Steel Pipe Standard Pile Point.....	528.79	
31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points <small>(31 62 16 19-0022)</small>		
31 62 16 19-0038 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point.....	417.85	
31 62 16 19-0039 EA 12" Diameter, Steel Pipe Heavy Duty Pile Point.....	443.61	
31 62 16 19-0040 EA 14" Diameter, Steel Pipe Heavy Duty Pile Point.....	499.83	
31 62 16 19-0041 EA 16" Diameter, Steel Pipe Heavy Duty Pile Point.....	602.89	
31 62 16 19-0042 EA 18" Diameter, Steel Pipe Heavy Duty Pile Point.....	688.61	
31 62 19 Timber Piles <small>(31 62)</small>		
31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles <small>(31 62 19)</small>		
Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002 LF Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile..... <i>For Piles Driven In Water, Add</i> <i>For Untreated Pile, Deduct</i> <i>For Each Pile Tip Point, Add</i> <i>For Each Pile Butt, Driving Cap, Add</i> <i>For Each Splice For Pile >50', Add</i>	30.17 14.54 -6.43 12.50 20.10 139.40	
31 62 19 00-0003 LF >30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile..... <i>For Piles Driven In Water, Add</i> <i>For Untreated Pile, Deduct</i> <i>For Each Pile Tip Point, Add</i> <i>For Each Pile Butt, Driving Cap, Add</i> <i>For Each Splice For Pile >50', Add</i>	31.96 16.16 -6.50 12.50 20.10 139.40	
31 62 19 00-0004 LF 39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile..... <i>For Piles Driven In Water, Add</i> <i>For Untreated Pile, Deduct</i> <i>For Each Pile Tip Point, Add</i> <i>For Each Pile Butt, Driving Cap, Add</i> <i>For Each Splice For Pile >50', Add</i>	33.73 17.20 -6.80 12.50 20.10 139.40	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 19 00-0005	LF	>49'	To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	36.47	
			<i>For Piles Driven In Water, Add</i>	19.20	
			<i>For Untreated Pile, Deduct</i>	-7.10	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 19 00-0006	LF	>59'	To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	44.88	
			<i>For Piles Driven In Water, Add</i>	21.77	
			<i>For Untreated Pile, Deduct</i>	-9.50	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 19 00-0007	LF	>69'	To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	55.88	
			<i>For Piles Driven In Water, Add</i>	26.32	
			<i>For Untreated Pile, Deduct</i>	-12.15	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	

31 62 23 Composite Piles (31 62)**31 62 23 13 Concrete-Filled Steel Piles (31 62 23)****31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles (31 62 23 13)**

Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.

31 62 23 13-0002	VLF	8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile	46.73	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	6.40	
		<i>For Piles Driven In Water, Add</i>	22.71	
31 62 23 13-0003	VLF	8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile	52.71	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	7.00	
		<i>For Piles Driven In Water, Add</i>	23.31	
31 62 23 13-0004	VLF	8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile	59.16	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	7.64	
		<i>For Piles Driven In Water, Add</i>	23.95	
31 62 23 13-0005	VLF	10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile	54.79	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	9.26	
		<i>For Piles Driven In Water, Add</i>	23.91	
31 62 23 13-0006	VLF	10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile	60.47	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	9.83	
		<i>For Piles Driven In Water, Add</i>	24.48	
31 62 23 13-0007	VLF	10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile	73.02	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	11.08	
		<i>For Piles Driven In Water, Add</i>	25.73	
31 62 23 13-0008	VLF	12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile	65.45	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	12.71	
		<i>For Piles Driven In Water, Add</i>	26.53	
31 62 23 13-0009	VLF	12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile	72.10	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	13.38	
		<i>For Piles Driven In Water, Add</i>	27.20	
31 62 23 13-0010	VLF	12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile	75.79	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	13.75	
		<i>For Piles Driven In Water, Add</i>	27.57	
31 62 23 13-0011	VLF	12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile	86.13	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	14.78	
		<i>For Piles Driven In Water, Add</i>	28.60	
31 62 23 13-0012	VLF	14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile	73.06	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	16.12	
		<i>For Piles Driven In Water, Add</i>	30.66	
31 62 23 13-0013	VLF	14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile	80.58	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	16.87	
		<i>For Piles Driven In Water, Add</i>	31.41	
31 62 23 13-0014	VLF	14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile	88.10	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	17.63	
		<i>For Piles Driven In Water, Add</i>	32.17	
31 62 23 13-0015	VLF	14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile	95.62	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	18.38	
		<i>For Piles Driven In Water, Add</i>	32.92	
31 62 23 13-0016	VLF	16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile	81.41	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	20.30	
		<i>For Piles Driven In Water, Add</i>	32.89	
31 62 23 13-0017	VLF	16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile	90.20	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	21.18	
		<i>For Piles Driven In Water, Add</i>	33.77	
31 62 23 13-0018	VLF	16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile	107.35	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	22.90	
		<i>For Piles Driven In Water, Add</i>	35.49	
31 62 23 13-0019	VLF	18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile	99.54	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	25.88	
		<i>For Piles Driven In Water, Add</i>	36.71	
31 62 23 13-0020	VLF	18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile	110.97	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	27.02	
		<i>For Piles Driven In Water, Add</i>	37.85	
31 62 23 13-0021	VLF	18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile	132.68	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	29.20	
		<i>For Piles Driven In Water, Add</i>	40.03	



Earthwork	31
Special Foundations and Load-bearing Elements	31 60
Driven Piles	31 62

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small>		
<i>Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.</i>		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	56.53	
<i>For Piles Driven In Water, Add</i>		
	19.48	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	68.16	
<i>For Piles Driven In Water, Add</i>		
	21.63	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	76.97	
<i>For Piles Driven In Water, Add</i>		
	23.65	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	83.72	
<i>For Piles Driven In Water, Add</i>		
	25.65	
31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small>		
<i>Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.</i>		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	55.52	
<i>For Piles Driven In Water, Add</i>		
	19.38	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	57.12	
<i>For Piles Driven In Water, Add</i>		
	20.53	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	69.23	
<i>For Piles Driven In Water, Add</i>		
	22.87	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	79.63	
<i>For Piles Driven In Water, Add</i>		
	25.24	
31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles <small>(31 62 23 13)</small>		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	34.12	
<i>For Piles Driven In Water, Add</i>		
	15.08	
<i>For Thick Wall Shell, Add</i>		
	0.05	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	37.68	
<i>For Piles Driven In Water, Add</i>		
	16.73	
<i>For Thick Wall Shell, Add</i>		
	0.06	
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	41.22	
<i>For Piles Driven In Water, Add</i>		
	18.38	
<i>For Thick Wall Shell, Add</i>		
	0.06	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	44.78	
<i>For Piles Driven In Water, Add</i>		
	20.03	
<i>For Thick Wall Shell, Add</i>		
	0.07	
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	48.35	
<i>For Piles Driven In Water, Add</i>		
	21.68	
<i>For Thick Wall Shell, Add</i>		
	0.07	
31 63 Bored Piles <small>(31 60)</small>		
31 63 36 Drilled Steel Piles <small>(31 63)</small>		
31 63 36 00-0001 Drill Hole <small>(31 63 36)</small>		
<i>Note: Excludes removal of excess material.</i>		
31 63 36 00-0002 Drilling Mobilization <small>(31 63 36 00-0001)</small>		
31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization	861.20	
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization.....	1,148.26	
31 63 36 00-0005 Drill Hole In Soil <small>(31 63 36 00-0001)</small>		
31 63 36 00-0006 LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole	48.04	
31 63 36 00-0007 LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole	55.86	
31 63 36 00-0008 LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole	65.64	
31 63 36 00-0009 LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole	77.37	
31 63 36 00-0010 LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole	83.62	
31 63 36 00-0011 LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole	92.00	
31 63 36 00-0012 LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole	100.77	
31 63 36 00-0013 Steel H Piles <small>(31 63 36)</small>		
31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles <small>(31 63 36 00-0013)</small>		
<i>Note: Includes guides, bracing and alignment.</i>		
31 63 36 00-0015 VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	50.37	
<i>For >2,400 To 3,600, Deduct</i>		
	-1.56	
<i>For >3,600 To 4,800, Deduct</i>		
	-3.12	
<i>For >4,800 To 6,000, Deduct</i>		
	-5.64	
<i>For >6,000, Deduct</i>		
	-8.16	
31 63 36 00-0016 VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	57.35	
<i>For >2,400 To 3,600, Deduct</i>		
	-1.75	
<i>For >3,600 To 4,800, Deduct</i>		
	-3.50	
<i>For >4,800 To 6,000, Deduct</i>		
	-6.37	
<i>For >6,000, Deduct</i>		
	-9.24	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0017	VLF		10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	73.29	
			<i>For >2,400 To 3,600, Deduct</i>	-2.15	
			<i>For >3,600 To 4,800, Deduct</i>	-4.30	
			<i>For >4,800 To 6,000, Deduct</i>	-7.96	
			<i>For >6,000, Deduct</i>	-11.63	
31 63 36 00-0018	VLF		12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	69.42	
			<i>For >2,400 To 3,600, Deduct</i>	-2.06	
			<i>For >3,600 To 4,800, Deduct</i>	-4.13	
			<i>For >4,800 To 6,000, Deduct</i>	-7.60	
			<i>For >6,000, Deduct</i>	-11.07	
31 63 36 00-0019	VLF		12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	80.05	
			<i>For >2,400 To 3,600, Deduct</i>	-2.33	
			<i>For >3,600 To 4,800, Deduct</i>	-4.66	
			<i>For >4,800 To 6,000, Deduct</i>	-8.66	
			<i>For >6,000, Deduct</i>	-12.66	
31 63 36 00-0020	VLF		12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	92.83	
			<i>For >2,400 To 3,600, Deduct</i>	-2.68	
			<i>For >3,600 To 4,800, Deduct</i>	-5.35	
			<i>For >4,800 To 6,000, Deduct</i>	-9.99	
			<i>For >6,000, Deduct</i>	-14.63	
31 63 36 00-0021	VLF		12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	103.46	
			<i>For >2,400 To 3,600, Deduct</i>	-2.94	
			<i>For >3,600 To 4,800, Deduct</i>	-5.88	
			<i>For >4,800 To 6,000, Deduct</i>	-11.06	
			<i>For >6,000, Deduct</i>	-16.23	
31 63 36 00-0022	VLF		14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	92.12	
			<i>For >2,400 To 3,600, Deduct</i>	-2.67	
			<i>For >3,600 To 4,800, Deduct</i>	-5.33	
			<i>For >4,800 To 6,000, Deduct</i>	-9.94	
			<i>For >6,000, Deduct</i>	-14.54	
31 63 36 00-0023	VLF		14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	110.19	
			<i>For >2,400 To 3,600, Deduct</i>	-3.12	
			<i>For >3,600 To 4,800, Deduct</i>	-6.24	
			<i>For >4,800 To 6,000, Deduct</i>	-11.75	
			<i>For >6,000, Deduct</i>	-17.26	
31 63 36 00-0024	VLF		14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	124.15	
			<i>For >2,400 To 3,600, Deduct</i>	-3.50	
			<i>For >3,600 To 4,800, Deduct</i>	-6.99	
			<i>For >4,800 To 6,000, Deduct</i>	-13.20	
			<i>For >6,000, Deduct</i>	-19.41	
31 63 36 00-0025	VLF		14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	141.16	
			<i>For >2,400 To 3,600, Deduct</i>	-3.92	
			<i>For >3,600 To 4,800, Deduct</i>	-7.85	
			<i>For >4,800 To 6,000, Deduct</i>	-14.90	
			<i>For >6,000, Deduct</i>	-21.96	
31 63 36 00-0026			Welded Steel Stud Pins <small>(31 63 36 00-0013)</small>		
			Note: Includes welding to steel piles.		
31 63 36 00-0027	EA		5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	12.97	
			<i>For >50 To 150, Deduct</i>	-0.58	
			<i>For >150 To 250, Deduct</i>	-1.19	
			<i>For >250 To 500, Deduct</i>	-1.81	
			<i>For >500, Deduct</i>	-2.42	
31 63 36 00-0028	EA		5/8" Diameter x 5" Long, Welded Steel Stud Pins.....	14.36	
			<i>For >50 To 150, Deduct</i>	-0.58	
			<i>For >150 To 250, Deduct</i>	-1.23	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.53	
31 63 36 00-0029	EA		5/8" Diameter x 7" Long, Welded Steel Stud Pins.....	15.71	
			<i>For >50 To 150, Deduct</i>	-0.58	
			<i>For >150 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.63	
31 63 36 00-0030	EA		3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	14.37	
			<i>For >50 To 150, Deduct</i>	-0.61	
			<i>For >150 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-1.94	
			<i>For >500, Deduct</i>	-2.60	
31 63 36 00-0031	EA		3/4" Diameter x 5" Long, Welded Steel Stud Pins.....	16.49	
			<i>For >50 To 150, Deduct</i>	-0.61	
			<i>For >150 To 250, Deduct</i>	-1.33	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.76	
31 63 36 00-0032	EA		3/4" Diameter x 7" Long, Welded Steel Stud Pins.....	17.97	
			<i>For >50 To 150, Deduct</i>	-0.61	
			<i>For >150 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.87	
31 63 36 00-0033	EA		7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	16.13	
			<i>For >50 To 150, Deduct</i>	-0.63	
			<i>For >150 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.79	



Earthwork	31	15
Special Foundations and Load-bearing Elements	31 60	
Bored Piles	31 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins	19.57	
For >50 To 150, Deduct	-0.63	
For >150 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-3.05	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins	21.26	
For >50 To 150, Deduct	-0.63	
For >150 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-3.18	
31 63 36 00-0036 Concrete Fill <small>(31 63 36)</small>		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	52.07	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	57.85	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	63.64	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	69.42	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	75.20	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	80.98	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	93.03	
31 64 Caissons <small>(31 64)</small>		
31 64 13 Box Caissons <small>(31 64)</small>		
31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002 Caisson In Stable Ground <small>(31 64 13 00-0001)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0003 VLF 18" Diameter Caisson, No Casing Stable Ground, No Ground Water	57.00	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For >50' To 100' Deep, Add	5.79	
For >100' To 150' Deep, Add	14.25	
For >150' To 200' Deep, Add	19.35	
For Right Angle Drilling, Add	14.33	
31 64 13 00-0004 VLF 24" Diameter Caisson, No Casing Stable Ground, No Ground Water	73.88	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	8.21	
For >100' To 150' Deep, Add	18.47	
For >150' To 200' Deep, Add	25.97	
For Right Angle Drilling, Add	16.36	
31 64 13 00-0005 VLF 30" Diameter Caisson, No Casing Stable Ground, No Ground Water	105.72	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For >50' To 100' Deep, Add	12.23	
For >100' To 150' Deep, Add	26.43	
For >150' To 200' Deep, Add	37.75	
For Right Angle Drilling, Add	21.91	
31 64 13 00-0006 VLF 36" Diameter Caisson, No Casing Stable Ground, No Ground Water	141.31	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For >50' To 100' Deep, Add	16.84	
For >100' To 150' Deep, Add	35.33	
For >150' To 200' Deep, Add	51.08	
For Right Angle Drilling, Add	27.75	
31 64 13 00-0007 VLF 42" Diameter Caisson, No Casing Stable Ground, No Ground Water	182.53	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	22.45	
For >100' To 150' Deep, Add	45.63	
For >150' To 200' Deep, Add	66.85	
For Right Angle Drilling, Add	33.66	
31 64 13 00-0008 VLF 48" Diameter Caisson No Casing Stable Ground, No Ground Water	221.91	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	27.76	
For >100' To 150' Deep, Add	55.48	
For >150' To 200' Deep, Add	81.86	
For Right Angle Drilling, Add	39.45	
31 64 13 00-0009 VLF 54" Diameter Caisson No Casing Stable Ground, No Ground Water	269.75	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	34.64	
For >100' To 150' Deep, Add	67.44	
For >150' To 200' Deep, Add	100.62	
For Right Angle Drilling, Add	45.19	
31 64 13 00-0010 VLF 60" Diameter Caisson No Casing Stable Ground, No Ground Water	319.19	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	41.74	
For >100' To 150' Deep, Add	79.80	
For >150' To 200' Deep, Add	120.01	
For Right Angle Drilling, Add	51.09	
31 64 13 00-0011 VLF 66" Diameter Caisson No Casing Stable Ground, No Ground Water	374.90	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	49.72	
For >100' To 150' Deep, Add	93.73	
For >150' To 200' Deep, Add	141.81	
For Right Angle Drilling, Add	57.86	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64	13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water .....438.40 Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	58.86	
			<i>For >100' To 150' Deep, Add</i>	109.60	
			<i>For >150' To 200' Deep, Add</i>	166.73	
			<i>For Right Angle Drilling, Add</i>	65.41	
31 64	13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water .....502.63 Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	68.25	
			<i>For >100' To 150' Deep, Add</i>	125.66	
			<i>For >150' To 200' Deep, Add</i>	192.12	
			<i>For Right Angle Drilling, Add</i>	72.60	
31 64	13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water .....571.33 Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	78.34	
			<i>For >100' To 150' Deep, Add</i>	142.83	
			<i>For >150' To 200' Deep, Add</i>	219.33	
			<i>For Right Angle Drilling, Add</i>	80.14	
31 64	13 00-0015		For Bell Excavation And Concrete, Add <small>(31 64 13 00-0001)</small>		
31 64	13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY .....425.76		
			<i>For >50' To 100' Deep, Add</i>	36.25	
			<i>For >100' To 150' Deep, Add</i>	106.44	
			<i>For >150' To 200' Deep, Add</i>	135.79	
31 64	13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY .....1,497.66		
			<i>For >50' To 100' Deep, Add</i>	127.77	
			<i>For >100' To 150' Deep, Add</i>	374.42	
			<i>For >150' To 200' Deep, Add</i>	477.97	
31 64	13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY .....2,279.41		
			<i>For >50' To 100' Deep, Add</i>	198.15	
			<i>For >100' To 150' Deep, Add</i>	569.85	
			<i>For >150' To 200' Deep, Add</i>	732.06	
31 64	13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY .....3,166.50		
			<i>For >50' To 100' Deep, Add</i>	275.89	
			<i>For >100' To 150' Deep, Add</i>	791.63	
			<i>For >150' To 200' Deep, Add</i>	1,017.75	
31 64	13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY .....4,266.51		
			<i>For >50' To 100' Deep, Add</i>	363.89	
			<i>For >100' To 150' Deep, Add</i>	1,066.63	
			<i>For >150' To 200' Deep, Add</i>	1,361.49	
31 64	13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY .....5,015.91		
			<i>For >50' To 100' Deep, Add</i>	427.57	
			<i>For >100' To 150' Deep, Add</i>	1,253.98	
			<i>For >150' To 200' Deep, Add</i>	1,600.35	
31 64	13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY .....8,500.16		
			<i>For >50' To 100' Deep, Add</i>	722.84	
			<i>For >100' To 150' Deep, Add</i>	2,125.04	
			<i>For >150' To 200' Deep, Add</i>	2,709.84	
31 64	13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY .....12,339.36		
			<i>For >50' To 100' Deep, Add</i>	1,062.08	
			<i>For >100' To 150' Deep, Add</i>	3,084.84	
			<i>For >150' To 200' Deep, Add</i>	3,949.71	
31 64	13 00-0024		Caisson In Wet Ground, Casing Pulled <small>(31 64 13)</small>		
			Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64	13 00-0025		Caisson In Wet Ground <small>(31 64 13 00-0024)</small>		
			Note: Includes 3000 PSI concrete and reinforcing.		
31 64	13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled .....62.34 Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	6.15	
			<i>For >100' To 150' Deep, Add</i>	15.59	
			<i>For >150' To 200' Deep, Add</i>	20.94	
			<i>For Right Angle Drilling, Add</i>	16.23	
31 64	13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled .....104.64 Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	10.37	
			<i>For >100' To 150' Deep, Add</i>	26.16	
			<i>For >150' To 200' Deep, Add</i>	35.19	
			<i>For Right Angle Drilling, Add</i>	27.12	
31 64	13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled .....140.33 Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	14.65	
			<i>For >100' To 150' Deep, Add</i>	35.08	
			<i>For >150' To 200' Deep, Add</i>	48.14	
			<i>For Right Angle Drilling, Add</i>	34.02	
31 64	13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled .....193.44 Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	20.49	
			<i>For >100' To 150' Deep, Add</i>	48.36	
			<i>For >150' To 200' Deep, Add</i>	66.72	
			<i>For Right Angle Drilling, Add</i>	46.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0030 VLF 42" Diameter Caisson Wet Ground, Casing Pulled.....	246.91	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	26.96	
For >100' To 150' Deep, Add	61.73	
For >150' To 200' Deep, Add	86.16	
For Right Angle Drilling, Add	56.19	
31 64 13 00-0031 VLF 48" Diameter Caisson Wet Ground, Casing Pulled.....	298.26	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	33.11	
For >100' To 150' Deep, Add	74.57	
For >150' To 200' Deep, Add	104.77	
For Right Angle Drilling, Add	66.17	
31 64 13 00-0032 VLF 54" Diameter Caisson Wet Ground, Casing Pulled.....	384.32	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	42.66	
For >100' To 150' Deep, Add	96.08	
For >150' To 200' Deep, Add	134.99	
For Right Angle Drilling, Add	85.28	
31 64 13 00-0033 VLF 60" Diameter Caisson Wet Ground, Casing Pulled.....	470.95	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	52.37	
For >100' To 150' Deep, Add	117.74	
For >150' To 200' Deep, Add	165.54	
For Right Angle Drilling, Add	104.21	
31 64 13 00-0034 VLF 66" Diameter Caisson Wet Ground, Casing Pulled.....	540.92	
Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	61.34	
For >100' To 150' Deep, Add	135.23	
For >150' To 200' Deep, Add	191.62	
For Right Angle Drilling, Add	115.97	
31 64 13 00-0035 VLF 72" Diameter Caisson Wet Ground, Casing Pulled.....	618.64	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	71.47	
For >100' To 150' Deep, Add	154.66	
For >150' To 200' Deep, Add	220.80	
For Right Angle Drilling, Add	128.49	
31 64 13 00-0036 VLF 78" Diameter Caisson Wet Ground, Casing Pulled.....	706.45	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	82.51	
For >100' To 150' Deep, Add	176.61	
For >150' To 200' Deep, Add	253.26	
For Right Angle Drilling, Add	143.94	
31 64 13 00-0037 VLF 84" Diameter Caisson Wet Ground, Casing Pulled.....	799.13	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	94.28	
For >100' To 150' Deep, Add	199.78	
For >150' To 200' Deep, Add	287.67	
For Right Angle Drilling, Add	159.87	
31 64 13 00-0038 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0024)</small>		
31 64 13 00-0039 EA Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	484.47	
For >50' To 100' Deep, Add	40.36	
For >100' To 150' Deep, Add	121.12	
For >150' To 200' Deep, Add	153.41	
31 64 13 00-0040 EA Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,689.51	
For >50' To 100' Deep, Add	141.20	
For >100' To 150' Deep, Add	422.38	
For >150' To 200' Deep, Add	535.53	
31 64 13 00-0041 EA Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	2,260.32	
For >50' To 100' Deep, Add	172.92	
For >100' To 150' Deep, Add	565.08	
For >150' To 200' Deep, Add	696.47	
31 64 13 00-0042 EA Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	3,725.84	
For >50' To 100' Deep, Add	315.05	
For >100' To 150' Deep, Add	931.46	
For >150' To 200' Deep, Add	1,185.55	
31 64 13 00-0043 EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	4,813.30	
For >50' To 100' Deep, Add	402.16	
For >100' To 150' Deep, Add	1,203.33	
For >150' To 200' Deep, Add	1,525.53	
31 64 13 00-0044 EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	5,659.19	
For >50' To 100' Deep, Add	472.60	
For >100' To 150' Deep, Add	1,414.80	
For >150' To 200' Deep, Add	1,793.33	
31 64 13 00-0045 EA Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	9,593.74	
For >50' To 100' Deep, Add	799.39	
For >100' To 150' Deep, Add	2,398.44	
For >150' To 200' Deep, Add	3,037.91	
31 64 13 00-0046 EA Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	13,901.61	
For >50' To 100' Deep, Add	1,171.43	
For >100' To 150' Deep, Add	3,475.40	
For >150' To 200' Deep, Add	4,418.38	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale ^(31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048 Caisson In Soft Rock ^(31 64 13 00-0047) Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049 VLF 18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	228.44	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For >50' To 100' Deep, Add	17.78	
For >100' To 150' Deep, Add	57.11	
For >150' To 200' Deep, Add	70.77	
For Right Angle Drilling, Add	74.36	
31 64 13 00-0050 VLF 24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	381.52	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	29.75	
For >100' To 150' Deep, Add	95.38	
For >150' To 200' Deep, Add	118.26	
For Right Angle Drilling, Add	124.03	
31 64 13 00-0051 VLF 30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	575.57	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For >50' To 100' Deep, Add	45.12	
For >100' To 150' Deep, Add	143.89	
For >150' To 200' Deep, Add	178.71	
For Right Angle Drilling, Add	186.36	
31 64 13 00-0052 VLF 36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	737.61	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For >50' To 100' Deep, Add	58.58	
For >100' To 150' Deep, Add	184.40	
For >150' To 200' Deep, Add	229.97	
For Right Angle Drilling, Add	236.46	
31 64 13 00-0053 VLF 42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	945.48	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	75.86	
For >100' To 150' Deep, Add	236.37	
For >150' To 200' Deep, Add	295.74	
For Right Angle Drilling, Add	300.69	
31 64 13 00-0054 VLF 48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,142.37	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	92.20	
For >100' To 150' Deep, Add	285.59	
For >150' To 200' Deep, Add	358.00	
For Right Angle Drilling, Add	361.61	
31 64 13 00-0055 VLF 54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,398.78	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	113.67	
For >100' To 150' Deep, Add	349.70	
For >150' To 200' Deep, Add	439.33	
For Right Angle Drilling, Add	440.35	
31 64 13 00-0056 VLF 60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,656.02	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	135.32	
For >100' To 150' Deep, Add	414.01	
For >150' To 200' Deep, Add	521.06	
For Right Angle Drilling, Add	518.98	
31 64 13 00-0057 VLF 66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,825.14	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	151.24	
For >100' To 150' Deep, Add	456.29	
For >150' To 200' Deep, Add	576.89	
For Right Angle Drilling, Add	565.44	
31 64 13 00-0058 VLF 72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,001.26	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	168.26	
For >100' To 150' Deep, Add	500.32	
For >150' To 200' Deep, Add	635.59	
For Right Angle Drilling, Add	612.41	
31 64 13 00-0059 VLF 78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,062.41	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	177.43	
For >100' To 150' Deep, Add	515.60	
For >150' To 200' Deep, Add	660.05	
For Right Angle Drilling, Add	618.53	
31 64 13 00-0060 VLF 84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,459.51	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	210.51	
For >100' To 150' Deep, Add	614.88	
For >150' To 200' Deep, Add	785.78	
For Right Angle Drilling, Add	741.00	
31 64 13 00-0061 For Bell Excavation And Concrete, Add ^(31 64 13 00-0047)		
31 64 13 00-0062 EA Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	814.21	
For >50' To 100' Deep, Add	63.45	
For >100' To 150' Deep, Add	203.55	
For >150' To 200' Deep, Add	252.33	



Earthwork	31	
Special Foundations and Load-bearing Elements	31 60	15
Caissons	31 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0063 EA Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	2,866.03	
For >50' To 100' Deep, Add	223.56	
For >100' To 150' Deep, Add	716.51	
For >150' To 200' Deep, Add	888.48	
31 64 13 00-0064 EA Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	4,310.24	
For >50' To 100' Deep, Add	340.31	
For >100' To 150' Deep, Add	1,077.56	
For >150' To 200' Deep, Add	1,341.31	
31 64 13 00-0065 EA Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	6,134.21	
For >50' To 100' Deep, Add	483.63	
For >100' To 150' Deep, Add	1,533.55	
For >150' To 200' Deep, Add	1,908.06	
31 64 13 00-0066 EA Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	8,084.32	
For >50' To 100' Deep, Add	631.13	
For >100' To 150' Deep, Add	2,021.08	
For >150' To 200' Deep, Add	2,506.83	
31 64 13 00-0067 EA Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	9,840.02	
For >50' To 100' Deep, Add	765.26	
For >100' To 150' Deep, Add	2,460.01	
For >150' To 200' Deep, Add	3,047.58	
31 64 13 00-0068 EA Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	14,924.29	
For >50' To 100' Deep, Add	1,172.53	
For >100' To 150' Deep, Add	3,731.07	
For >150' To 200' Deep, Add	4,637.08	
31 64 13 00-0069 EA Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	22,468.58	
For >50' To 100' Deep, Add	1,771.12	
For >100' To 150' Deep, Add	5,617.15	
For >150' To 200' Deep, Add	6,988.47	
31 64 13 00-0070 Caisson Setup And Removal <small>(31 64 13)</small>		
Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071 EA Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	3,729.09	
31 64 13 00-0072 EA Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	5,336.86	
31 64 13 00-0073 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,727.75	
31 64 13 00-0074 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,303.68	
31 64 13 00-0075 EA Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	143.98	
31 68 Foundation Anchors <small>(31 68)</small>		
31 68 13 Rock Foundation Anchors <small>(31 68)</small>		
31 68 13 00-0001 Materials And Placement <small>(31 68 13)</small>		
31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0003 3/4" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0004 EA 3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	173.03	
31 68 13 00-0005 EA 3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	247.00	
31 68 13 00-0006 EA 3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	296.67	
31 68 13 00-0007 EA 3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	394.93	
31 68 13 00-0008 1" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0009 EA 1" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	214.55	
31 68 13 00-0010 EA 1" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	326.83	
31 68 13 00-0011 EA 1" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	414.82	
31 68 13 00-0012 EA 1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	551.42	
31 68 13 00-0013 1-3/8" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0014 EA 1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	342.56	
31 68 13 00-0015 EA 1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	528.25	
31 68 13 00-0016 EA 1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	689.67	
31 68 13 00-0017 EA 1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	899.66	
31 68 13 00-0018 2" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0019 EA 2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	731.90	
31 68 13 00-0020 EA 2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	1,085.26	
31 68 13 00-0021 EA 2" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	1,414.28	
31 68 13 00-0022 EA 2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,791.94	
31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0024			3/4" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	131.02	
	31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	174.78	
	31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	194.17	
	31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	260.77	
31 68 13 00-0029			1" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	152.57	
	31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	211.09	
	31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	243.57	
	31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	324.65	
31 68 13 00-0034			1-1/4" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	215.86	
	31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	301.80	
	31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	363.06	
	31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	470.35	
31 68 13 00-0039			2" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	538.01	
	31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	763.23	
	31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	926.61	
	31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,148.48	
31 68 13 00-0044			Solid Rebar Anchors, ASTM A615 <small>(31 68 13 00-0001)</small>		
			Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045			3/4" Diameter <small>(31 68 13 00-0044)</small>		
	31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor.....	124.10	
	31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor.....	160.15	
	31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor.....	171.88	
	31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor.....	232.22	
31 68 13 00-0050			1" Diameter <small>(31 68 13 00-0044)</small>		
	31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor.....	137.42	
	31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor.....	182.17	
	31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor.....	202.65	
	31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor.....	271.68	
31 68 13 00-0055			1-1/4" Diameter <small>(31 68 13 00-0044)</small>		
	31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor.....	190.69	
	31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor.....	246.95	
	31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor.....	278.99	
	31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor.....	359.59	
31 68 13 00-0060			Resin Anchoring With Grade 60 Rebar <small>(31 68 13 00-0001)</small>		
			Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061			Rebar #6 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	77.35	
	31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	106.11	
	31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	110.57	
	31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	154.70	
31 68 13 00-0066			Rebar #8 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	80.83	
	31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	113.05	
	31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	120.99	
	31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	177.51	
31 68 13 00-0071			Rebar #10 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	85.79	
	31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	122.97	
	31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	135.87	
	31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	197.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0076 Rebar #14 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0077 EA #14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	97.69	
31 68 13 00-0078 EA #14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	146.78	
31 68 13 00-0079 EA #14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	171.58	
31 68 13 00-0080 EA #14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	244.97	
31 68 13 00-0081 Plastic Rebar Collars, Sizes #6-#14 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0082 EA Plastic Rebar Collars For Rebar #4 To #14.....	1.84	
31 68 13 00-0083 12" Long Resin Cartridges <small>(31 68 13 00-0001)</small>		
31 68 13 00-0084 EA 7/8" Resin Cartridge 12" Long.....	1.51	
31 68 13 00-0085 EA 1" Resin Cartridge 12" Long.....	2.07	
31 68 13 00-0086 EA 1-1/16" Resin Cartridge 12" Long.....	2.22	
31 68 13 00-0087 EA 1-1/4" Resin Cartridge 12" Long.....	2.40	
31 68 13 00-0088 EA 1-3/8" Resin Cartridge 12" Long.....	2.76	
31 68 13 00-0089 EA 1-9/16" Resin Cartridge 12" Long.....	3.45	
31 68 13 00-0090 EA 1-3/4" Resin Cartridge 12" Long.....	4.74	
31 68 13 00-0091 Head Assembly <small>(31 68 13 00-0001)</small>		
31 68 13 00-0092 3/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0093 EA 3/4" Rod Head Assembly 1-5/8" Short Cone and Shell.....	21.70	
31 68 13 00-0094 EA 3/4" Rod Head Assembly 1-3/4" Short Cone and Shell.....	18.28	
31 68 13 00-0095 EA 3/4" Rod Head Assembly 1-7/8" Short Cone and Shell.....	19.17	
31 68 13 00-0096 EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	34.42	
31 68 13 00-0097 EA 3/4" Rod Head Assembly 1-7/8" Long Cone and Shell.....	34.42	
31 68 13 00-0098 EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	32.61	
31 68 13 00-0099 1" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0100 EA 1" Rod Head Assembly 1-5/8" Short Cone and Shell.....	23.39	
31 68 13 00-0101 EA 1" Rod Head Assembly 1-3/4" Short Cone and Shell.....	20.01	
31 68 13 00-0102 EA 1" Rod Head Assembly 1-7/8" Short Cone and Shell.....	20.91	
31 68 13 00-0103 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell.....	36.21	
31 68 13 00-0104 EA 1" Rod Head Assembly 1-7/8" Long Cone and Shell.....	36.21	
31 68 13 00-0105 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell.....	34.52	
31 68 13 00-0106 1-1/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0107 EA 1-1/4" Rod Head Assembly 2" Short Cone and Shell.....	52.18	
31 68 13 00-0108 EA 1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell.....	60.96	
31 68 13 00-0109 EA 1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell.....	61.83	
31 68 13 00-0110 EA 1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell.....	54.83	
31 68 13 00-0111 EA 1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell.....	63.93	
31 68 13 00-0112 1-7/8" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113 EA 1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	205.37	
31 68 13 00-0114 EA 1-7/8" Rod Head Assembly 3" Long Cone and Shell.....	141.58	
31 68 13 00-0115 2" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0116 EA 2" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	205.37	
31 68 13 00-0117 EA 2" Rod Head Assembly 3" Long Cone and Shell.....	141.58	
31 68 13 00-0118 Steel Plates With Standard Hole And Washers <small>(31 68 13 00-0001)</small>		
31 68 13 00-0119 Steel Plates <small>(31 68 13 00-0118)</small>		
31 68 13 00-0120 EA 1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer.....	3.64	
31 68 13 00-0121 EA 1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	6.71	
31 68 13 00-0122 EA 3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	9.34	
31 68 13 00-0123 EA 3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	16.38	
31 68 13 00-0124 EA 1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer.....	6.36	
31 68 13 00-0125 EA 1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	16.71	
31 68 13 00-0126 EA 3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer.....	27.73	
31 68 13 00-0127 EA 3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	39.29	
31 68 13 00-0128 EA 1" x 4" x 7" Steel Plate For Rock Bolt With Washer.....	23.58	
31 68 13 00-0129 EA 1" x 9" x 9" Steel Plate For Rock Bolt With Washer.....	66.71	
31 68 13 00-0130 EA 1" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	98.31	
31 68 13 00-0131 EA 1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer.....	43.15	
31 68 13 00-0132 EA 1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer.....	116.71	
31 68 13 00-0133 EA 1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	58.37	
31 68 13 00-0134 EA 1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	140.39	
31 68 13 00-0135 EA 1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	64.43	
31 68 13 00-0136 EA 1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	155.70	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

31 68 13 00-0137	Hardened Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0138	EA Hardened Washer For 3/4" Diameter Rock Bolt	0.72	
31 68 13 00-0139	EA Hardened Washer For 1" Diameter Rock Bolt	0.99	
31 68 13 00-0140	EA Hardened Washer For 1-1/4" Diameter Rock Bolt	2.78	
31 68 13 00-0141	EA Hardened Washer For 2" Diameter Rock Bolt	6.92	
31 68 13 00-0142	Beveled Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0143	EA Beveled Washer For 3/4" Diameter Rock Bolt	1.81	
31 68 13 00-0144	EA Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt	1.79	
31 68 13 00-0145	EA Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt	2.70	
31 68 13 00-0146	EA Beveled Washer For 1-1/2" Diameter Rock Bolt	11.56	
31 68 13 00-0147	EA Beveled Washer For 2" Diameter Rock Bolt	7.99	
31 68 13 00-0148	Hex Nuts <small>(31 68 13 00-0118)</small>		
31 68 13 00-0149	EA Hex Nut For 3/4" Diameter Rock Bolt	1.41	
31 68 13 00-0150	EA Hex Nut For 1" Diameter Rock Bolt	2.31	
31 68 13 00-0151	EA Hex Nut For 1-1/4" Diameter Rock Bolt	9.45	
31 68 13 00-0152	EA Hex Nut For 1-1/2" Diameter Rock Bolt	5.95	
31 68 13 00-0153	EA Hex Nut For 2" Diameter Rock Bolt	37.97	
31 68 13 00-0154	Drilling Operation For Rockbolts <small>(31 68 13)</small>		
31 68 13 00-0155	Drill Holes For Rock Bolts <small>(31 68 13 00-0154)</small>		
31 68 13 00-0156	3/4" Diameter Bolt, 1-3/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0157	EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts	169.31	
31 68 13 00-0158	EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts	319.81	
31 68 13 00-0159	EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts	479.73	
31 68 13 00-0160	EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts	575.67	
31 68 13 00-0161	1" Diameter Bolt, 2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0162	EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt	221.41	
31 68 13 00-0163	EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt	411.19	
31 68 13 00-0164	EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt	575.67	
31 68 13 00-0165	EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt	719.59	
31 68 13 00-0166	1-1/4" Diameter Bolt, 2-1/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0167	EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt	239.86	
31 68 13 00-0168	EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt	479.73	
31 68 13 00-0169	EA Drill 2-1/4" Diameter Hole x 15' Long For 1-1/4" Diameter Rock Bolt	719.59	
31 68 13 00-0170	EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt	959.44	
31 68 13 00-0171	2" Diameter Bolt, 3-1/2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0172	EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt	287.84	
31 68 13 00-0173	EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt	575.67	
31 68 13 00-0174	EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts	959.44	
31 68 13 00-0175	EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt	1,439.17	
31 68 13 00-0176	Tools <small>(31 68 13)</small>		
31 68 13 00-0177	Hydraulic Jacks, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0178	EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke	586.88	
31 68 13 00-0179	EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	864.87	
31 68 13 00-0180	EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,450.92	
31 68 13 00-0181	EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,172.22	
31 68 13 00-0182	EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	3,247.07	
31 68 13 00-0183	Torque Wrenches And Ratchet Adapter, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0184	0-500 Foot Pounds (0-678J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0185	EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental	205.37	
31 68 13 00-0186	EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	128.73	
31 68 13 00-0187	EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	334.35	
31 68 13 00-0188	0-600 Foot Pounds (0-814J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0189	EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	233.17	
31 68 13 00-0190	Up To 1,000 Foot Pounds (0-1356J) <small>(31 68 13 00-0183)</small>		



Earthwork	31	13
Special Foundations and Load-bearing Elements	31 60	
Foundation Anchors	31 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental	447.80	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	110.45	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	558.25	
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier <small>(31 68 13 00-0176)</small>		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio.....	573.53	
31 68 13 00-0196 Pneumatic Drive Torque Wrench <small>(31 68 13 00-0176)</small>		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J)	1,227.20	
31 68 13 00-0198 Grouting <small>(31 68 13)</small>		
31 68 13 00-0199 Grouting With Pumps <small>(31 68 13 00-0198)</small>		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery.....	19.60	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery.....	31.48	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery.....	28.93	
31 68 13 00-0203 Grout Pumps, Monthly Rental <small>(31 68 13 00-0198)</small>		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental	139.44	
31 68 13 00-0205 EA Air Powered Programmable Feed Grout Pump Monthly Rental.....	1,172.99	
31 68 13 00-0206 EA Air Powered, Piston Drive Grout Pump Monthly Rental.....	2,047.93	
31 68 13 00-0207 Rock Bolt Testing <small>(31 68 13)</small>		
31 68 13 00-0208 EA Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....	484.50	

END OF SECTION 31

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF Removal Of 4" Wide Painted Or Epoxy Pavement Striping	1.97	
	For Up To 250, Add	0.99	
	For >250 To 1,000, Add	0.49	
	For >5,000 To 10,000, Deduct	-0.30	
	For >10,000 To 25,000, Deduct	-0.49	
	For >25,000 To 50,000, Deduct	-0.69	
	For >50,000, Deduct	-0.79	
32 01 11 53-0003	LF Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.37	
	For Up To 250, Add	1.19	
	For >250 To 1,000, Add	0.59	
	For >5,000 To 10,000, Deduct	-0.36	
	For >10,000 To 25,000, Deduct	-0.59	
	For >25,000 To 50,000, Deduct	-0.83	
	For >50,000, Deduct	-0.95	
32 01 11 53-0004	LF Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.83	
	For Up To 250, Add	1.42	
	For >250 To 1,000, Add	0.71	
	For >5,000 To 10,000, Deduct	-0.42	
	For >10,000 To 25,000, Deduct	-0.71	
	For >25,000 To 50,000, Deduct	-0.99	
	For >50,000, Deduct	-1.13	
32 01 11 53-0005	LF Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.39	
	For Up To 250, Add	1.70	
	For >250 To 1,000, Add	0.85	
	For >5,000 To 10,000, Deduct	-0.51	
	For >10,000 To 25,000, Deduct	-0.85	
	For >25,000 To 50,000, Deduct	-1.19	
	For >50,000, Deduct	-1.36	
32 01 11 53-0006	SF Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.39	
	For Up To 250, Add	1.70	
	For >250 To 1,000, Add	0.85	
	For >5,000 To 10,000, Deduct	-0.51	
	For >10,000 To 25,000, Deduct	-0.85	
	For >25,000 To 50,000, Deduct	-1.19	
	For >50,000, Deduct	-1.36	
32 01 11 53-0007	LF Removal Of 4" Wide Thermoplastic Pavement Striping	2.53	
	For Up To 250, Add	1.27	
	For >250 To 1,000, Add	0.63	
	For >5,000 To 10,000, Deduct	-0.38	
	For >10,000 To 25,000, Deduct	-0.63	
	For >25,000 To 50,000, Deduct	-0.89	
	For >50,000, Deduct	-1.01	
32 01 11 53-0008	LF Removal Of 6" Wide Thermoplastic Pavement Striping	2.98	
	For Up To 250, Add	1.49	
	For >250 To 1,000, Add	0.75	
	For >5,000 To 10,000, Deduct	-0.45	
	For >10,000 To 25,000, Deduct	-0.75	
	For >25,000 To 50,000, Deduct	-1.04	
	For >50,000, Deduct	-1.19	
32 01 11 53-0009	LF Removal Of 8" Wide Thermoplastic Pavement Striping	3.61	
	For Up To 250, Add	1.81	
	For >250 To 1,000, Add	0.90	
	For >5,000 To 10,000, Deduct	-0.54	
	For >10,000 To 25,000, Deduct	-0.90	
	For >25,000 To 50,000, Deduct	-1.26	
	For >50,000, Deduct	-1.44	
32 01 11 53-0010	LF Removal Of 12" Wide Thermoplastic Pavement Striping	4.32	
	For Up To 250, Add	2.16	
	For >250 To 1,000, Add	1.08	
	For >5,000 To 10,000, Deduct	-0.65	
	For >10,000 To 25,000, Deduct	-1.08	
	For >25,000 To 50,000, Deduct	-1.51	
	For >50,000, Deduct	-1.73	
32 01 11 53-0011	SF Removal Of Thermoplastic Pavement Marking, Letters Or Symbols	4.32	
	For Up To 250, Add	2.16	
	For >250 To 1,000, Add	1.08	
	For >5,000 To 10,000, Deduct	-0.65	
	For >10,000 To 25,000, Deduct	-1.08	
	For >25,000 To 50,000, Deduct	-1.51	
	For >50,000, Deduct	-1.73	

32 01 13 Flexible Paving Surface Treatment ^(32 01)

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 01 13 61 Slurry Seal (Latex Modified)** (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum Charge	743.46
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.01
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0004	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.73
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0005	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.52
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0006	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.32
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0007	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.14
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0008	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	2.97
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.43
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0009	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.01
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.49
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0010	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	4.70
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0011	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	4.48
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0012	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	4.27
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0013	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	4.08
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0014	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	3.89
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.43
		For Each 0.5% Of Latex Addition, Add	0.49

32 01 13 62 Asphalt Surface Treatment (32 01 13)**32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing)** (32 01 13 62)

Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	8.89	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	8.43	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	8.03	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	7.69	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	7.38	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	7.11	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	6.91	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	6.81	

32 01 16 Flexible Paving Rehabilitation (32 01)

32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)

32 01 16 71-0001	Removal Of Asphalt Surface Course <small>(32 01 16 71)</small> Note: Includes direct loading into truck.		
32 01 16 71-0002	Production Cold Milling Of Roads And Parking Areas <small>(32 01 16 71-0001)</small> Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.		
32 01 16 71-0003	SY Up To 3" Depth, Production Cold Milling Of Asphalt.....	4.18	
	For Up To 2,500, Add	3.14	
	For >2,500 To 5,000, Add	1.05	
	For >10,000 To 25,000, Deduct	-0.42	
	For >25,000, Deduct	-0.63	
32 01 16 71-0004	SY >3" To 6" Depth, Production Cold Milling Of Asphalt.....	5.57	
	For Up To 2,500, Add	4.18	
	For >2,500 To 5,000, Add	1.39	
	For >10,000 To 25,000, Deduct	-0.56	
	For >25,000, Deduct	-0.84	
32 01 16 71-0005	SY >6" To 12" Depth, Production Cold Milling Of Asphalt.....	7.42	
	For Up To 2,500, Add	5.57	
	For >2,500 To 5,000, Add	1.86	
	For >10,000 To 25,000, Deduct	-0.74	
	For >25,000, Deduct	-1.11	

32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)

	Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.		
32 01 16 71-0007	SY Up To 3" Depth, Limited Cold Milling Of Asphalt.....	26.42	
	For >100 To 1,000, Deduct	-13.21	
	For >1,000, Deduct	-19.82	
32 01 16 71-0008	SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	34.99	
	For >100 To 1,000, Deduct	-17.50	
	For >1,000, Deduct	-26.24	
32 01 16 71-0009	SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	46.60	
	For >100 To 1,000, Deduct	-23.30	
	For >1,000, Deduct	-34.95	

32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)

	Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011	SY Grind, Leave In-Place As Subbase Course, 6-9" Depth.....	6.89	

32 01 16 71-0012 Wedge Grinding Cold Milling (32 01 16 71)

	Note: Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes water truck. Excludes mobilization, sweeping and cleaning, hauling and disposal. See CSI section 01 74 16 00-0001 for sweeping and cleaning.		
32 01 16 71-0013	LF 5' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth.....	7.34	
32 01 16 71-0014	LF 10' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth.....	14.68	

32 01 16 71-0015 Cutback Ramp (32 01 16 71)

32 01 16 71-0016	LF 1" Differential, 5' Length, Cutback Ramp.....	11.38	
32 01 16 71-0017	LF 1-1/2" Differential, 5' Length, Cutback Ramp.....	13.80	
32 01 16 71-0018	LF 2" Differential, 5' Length, Cutback Ramp.....	16.01	

32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16)

32 01 16 74-0001	Rejuvenate, Respread Asphalt Pavement <small>(32 01 16 74)</small> Note: Includes direct loading into truck.		
32 01 16 74-0002	SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	11.48	
32 01 16 74-0003	SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	13.51	
32 01 16 74-0004	TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings.....	180.94	

32 01 16 74-0005 Reclamation, Pulverize And Blending With Existing (32 01 16 74)

	Note: Includes direct loading into truck.		
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32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0006 SY Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	14.23	
32 01 16 74-0007 SY Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.12	
32 01 16 74-0008 SY Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.56	
32 01 16 74-0009 SY Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.37	
32 01 16 74-0010 SY >2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.88	
32 01 16 74-0011 SY >2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	15.52	
32 01 16 74-0012 SY >2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.77	
32 01 16 74-0013 SY >2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.66	
32 01 16 74-0014 SY >3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	17.08	
32 01 16 74-0015 SY >3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.54	
32 01 16 74-0016 SY >3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.27	
32 01 16 74-0017 SY >3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.94	
32 01 16 74-0018 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	18.64	
32 01 16 74-0019 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.32	
32 01 16 74-0020 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.65	
32 01 16 74-0021 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.34	
32 01 16 74-0022 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,601.31	

32 01 17 Flexible Paving Repair (32 01)

See CSI section 32 12 16 00-0000 for large area resurfacing.

32 01 17 61 Sealing Cracks in Asphalt Paving (32 01 17)

Note: Includes removing loose materials and cleaning.

**32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With
Standard Weight Aggregate Longitudinal Crack And Sealing Repair** (32 01 17 61)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002 LF Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.58	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.45	
For 1" x 1/2" Fill, Add	0.85	
For Backer Rod, Add	0.93	
32 01 17 61-0003 LF >200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.29	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.37	
For 1" x 1/2" Fill, Add	0.71	
For Backer Rod, Add	0.84	
32 01 17 61-0004 LF >500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.02	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.30	
For 1" x 1/2" Fill, Add	0.57	
For Backer Rod, Add	0.75	
32 01 17 61-0005 LF >2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.88	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.26	
For 1" x 1/2" Fill, Add	0.50	
For Backer Rod, Add	0.70	
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.79	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.23	
For 1" x 1/2" Fill, Add	0.45	
For Backer Rod, Add	0.66	
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.73	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.21	
For 1" x 1/2" Fill, Add	0.41	
For Backer Rod, Add	0.63	
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.80	
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.25	
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.74	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.53	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.39	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.28	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.50	

32 01 17 63 Flexible Pavement Repair (32 01 17)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0001 Temporary Pot Hole Repair <small>(32 01 17 63)</small>		
<small>Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.</small>		
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,592.26	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified.....	483.16	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,515.71	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix	457.64	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,477.44	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified.....	444.88	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,439.16	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix	432.13	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0010 Permanent Pot Hole Repair <small>(32 01 17 63)</small>		
<small>Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.</small>		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons	1,686.58	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix.....	548.58	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,648.31	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified	535.82	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,610.03	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix.....	523.07	
<small>Note: Use for each ton over 3 tons.</small>		
32 01 17 63-0017 Asphalt Placement For Small Repairs <small>(32 01 17 63)</small>		
<small>Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0001 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.</small>		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,203.07	
<small>Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified	293.78	
<small>Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons	2,126.52	
<small>Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix.....	268.26	
<small>Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	2,088.25	
<small>Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified.....	255.50	
<small>Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons	2,049.97	
<small>Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	242.75	
<small>Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.</small>		
32 01 17 63-0026 Grind Asphalt <small>(32 01 17 63)</small>		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	19.77	
32 01 26 Rigid Paving Rehabilitation <small>(32 01)</small>		
32 01 26 71 Grooving of Concrete Paving <small>(32 01 26)</small>		
32 01 26 71-0001 Roadway Grooving <small>(32 01 26 71)</small>		
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	3,650.98	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.38	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse.....	4,067.32	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	4.40	
32 01 26 71-0006 Rumble Strips <small>(32 01 26 71)</small>		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	4,002.31	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 26 Rigid Paving Rehabilitation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 26 71-0008	LF		Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.73	
32 01 26 71-0009	EA		First 2000 LF Of MIARDS, Rumble Strips, Concrete	4,460.21	
32 01 26 71-0010	LF		Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete	0.81	
32 01 26 73			Milling Of Concrete Paving (32 01 26)		
32 01 26 73-0001			Removal Of Concrete (32 01 26 73) Note: Includes direct loading into truck.		
32 01 26 73-0002			Production Milling Of Roads And Parking Areas (32 01 26 73-0001) Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.		
32 01 26 73-0003	SY		Production Milling Of Concrete Per Inch	6.33	
32 01 26 73-0004			Limited Production Milling (32 01 26 73-0001) Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.		
32 01 26 73-0005	SY		Limited Production Milling Of Concrete Per Inch	39.71	
32 01 90			Operation and Maintenance of Planting (32 01) Note: These tasks are to be used as requested by the owner to maintain existing conditions.		
32 01 90 13			Fertilizing (32 01 90)		
32 01 90 13-0001	MSF		Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	13.22	
32 01 90 13-0002	MSF		Fertilizer - 2 LB Of Nitrogen/MSF (Liquid)	9.84	
32 01 90 13-0003	MSF		Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	10.71	
32 01 90 13-0004	MSF		Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid)	8.85	
32 01 90 19			Mowing (32 01 90)		
32 01 90 19-0001	ACR		Vegetation Cutting By Bush Hog..... Note: Includes normal debris removal, cutting, and trimming. For <1 Acre, Add	180.63 45.16	
32 01 90 19-0002	MSF		Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	6.27	
32 01 90 19-0003	MSF		Mowing Vegetation With Riding Mower, >45,000 SF	4.86	
32 01 90 19-0004	MSF		Clear Vegetation With Weed Trimmer, Up To 1,000 SF	22.70	
			For Work On Slopes >2:1, Add	5.68	
			For Clearing Light Brush, Add	3.41	
32 01 90 19-0005	MSF		Clear Vegetation With Weed Trimmer, >1,000 SF	19.07	
			For Work On Slopes >2:1, Add	4.77	
			For Clearing Light Brush, Add	2.86	
32 01 90 19-0006	MSF		Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	18.47	
32 01 90 23			Pruning (32 01 90)		
32 01 90 23-0001			Tree Pruning (32 01 90 23) Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.		
32 01 90 23-0002			Tree Pruning; Crown Cleaning (32 01 90 23-0001) Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.		
32 01 90 23-0003	EA		1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	28.31	
32 01 90 23-0004	EA		2" Caliper, Tree Pruning (Crown Cleaning), By Hand	32.36	
32 01 90 23-0005	EA		2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	36.40	
32 01 90 23-0006	EA		3" Caliper, Tree Pruning (Crown Cleaning), By Hand	40.44	
32 01 90 23-0007	EA		4" Caliper, Tree Pruning (Crown Cleaning), By Hand	61.47	
32 01 90 23-0008	EA		4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	103.56	
32 01 90 23-0009	EA		6" Caliper, Tree Pruning (Crown Cleaning), By Hand	107.56	
32 01 90 23-0010	EA		6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	197.23	
32 01 90 23-0011	EA		9" Caliper, Tree Pruning (Crown Cleaning), By Hand	172.24	
32 01 90 23-0012	EA		9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	315.49	
32 01 90 23-0013	EA		12" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	199.03	
32 01 90 23-0014	EA		12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	364.85	
32 01 90 23-0015	EA		18" Caliper, Tree Pruning (Crown Cleaning), By Hand	231.36	
32 01 90 23-0016	EA		18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	424.02	
32 01 90 23-0017	EA		24" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	281.64	
32 01 90 23-0018	EA		24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	512.85	
32 01 90 23-0019	EA		30" Caliper, Tree Pruning (Crown Cleaning), By Hand	349.86	
32 01 90 23-0020	EA		30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	646.35	
32 01 90 23-0021	EA		36" Caliper, Tree Pruning (Crown Cleaning), By Hand	479.19	
32 01 90 23-0022	EA		36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	876.01	
32 01 90 23-0023	EA		48" Caliper, Tree Pruning (Crown Cleaning), By Hand	760.21	
32 01 90 23-0024	EA		48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,408.76	



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 01 90 23-0025

Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	34.70
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	39.63
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	44.57
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	49.58
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand	75.31
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	126.82
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand	131.77
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	241.61
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand	211.03
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	386.46
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand	243.80
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	446.92
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand	283.43
32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	519.40
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	344.98
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	628.27
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	428.54
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	791.77
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	586.99
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,073.12
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	931.25
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,725.74

32 01 90 23-0048

Tree Pruning; Crown Raising (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	38.26
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand	43.68
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	49.18
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand	54.59
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand	82.99
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	139.83
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand	145.19
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	266.25
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand	232.55
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	425.91
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand	268.70
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	492.57
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand	312.39
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	572.45
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand	380.25
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	692.37
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand	472.30
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	872.53
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand	646.93
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,182.58
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand	1,026.29
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,901.86

32 01 90 23-0071

Tree Pruning; Crown Reduction (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	41.09
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	46.92
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	52.81
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	58.64
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	89.14
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	150.19
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand	155.95
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	285.98
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand	249.78
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	457.47
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand	288.60
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	529.06
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand	335.52

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	614.86	
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand.....	408.39	
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	743.65	
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand.....	507.32	
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	937.23	
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand.....	694.81	
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,270.24	
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand.....	1,102.32	
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	2,042.69	

32 01 90 23-0094**Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	47.15	
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	53.96	
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	60.67	
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand.....	67.38	
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand.....	102.41	
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	172.58	
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	179.24	
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	328.68	
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	287.07	
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	525.81	
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	331.71	
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	608.05	
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	385.59	
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	706.66	
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	469.39	
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	854.78	
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	583.11	
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,077.25	
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	798.67	
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,460.07	
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,267.01	
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	2,347.99	

32 01 90 23-0117**Palm Tree Pruning** (32 01 90 23)

32 01 90 23-0118	EA	Trim Mexican Palm Tree.....	85.76	
32 01 90 23-0119	EA	Trim Date Palm Tree.....	193.50	
32 01 90 23-0120	LF	Skin Palm Tree.....	21.99	
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height.....	83.83	
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height.....	103.55	
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height.....	115.87	

32 01 90 23-0124**Shrub Pruning** (32 01 90 23)

32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed.....	92.17	
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height.....	3.23	
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height.....	7.28	
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'.....	12.95	
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground.....	32.36	
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work.....	80.89	

32 01 90 23-0131**Root Pruning** (32 01 90 23)

Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.

32 01 90 23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree.....	16.18	
32 01 90 23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree.....	20.22	
32 01 90 23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree.....	24.27	
32 01 90 23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree.....	32.36	
32 01 90 23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree.....	48.53	
32 01 90 23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree.....	60.67	
32 01 90 23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree.....	84.93	
32 01 90 23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree.....	97.07	
32 01 90 23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree.....	113.24	
32 01 90 23-0141	EA	Root Pruning, One Side Of >18" To 24" Caliper Tree.....	141.55	
32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree.....	173.91	
32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree.....	202.22	
32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree.....	222.44	
32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree.....	242.66	

32 01 90 26 Watering (32 01 90)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.

32 01 90 26-0001			Watering Lawns, Plants And Trees <small>(32 01 90 26)</small>		
			Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002	MSF		Watering Sod/Grass, Per Inch Of Water	41.16	
32 01 90 26-0003	CSF		Watering Groundcover.....	6.38	
32 01 90 26-0004	CSF		Watering Annuals And Perennials	11.33	
32 01 90 26-0005	EA		Watering Trees, 1-1/2" To 5" Diameter By Hand	21.93	
32 01 90 26-0006	EA		Watering Trees, 6" To 12" Diameter By Hand	28.83	
32 01 90 26-0007	EA		Watering Trees, 13" To 18" Diameter By Hand	35.73	
32 01 90 26-0008	EA		Watering Trees, >18" Diameter By Hand.....	43.97	
32 01 90 26-0009	EA		Watering Shrub Or Bush By Hand.....	11.02	

32 01 90 36 Weed and Brush Control (32 01 90)

32 01 90 36-0001			Herbicide, Push Or Hand Spreader Applied <small>(32 01 90 36)</small>		
32 01 90 36-0002	MSF		Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF)	7.41	
			<i>For >45 To 90, Deduct</i>	-0.40	
			<i>For >90 To 225, Deduct</i>	-1.14	
			<i>For >225 To 870, Deduct</i>	-1.89	
			<i>For >870, Deduct</i>	-2.29	
32 01 90 36-0003	MSF		Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF)	7.94	
			<i>For >45 To 90, Deduct</i>	-0.46	
			<i>For >90 To 225, Deduct</i>	-1.25	
			<i>For >225 To 870, Deduct</i>	-2.04	
			<i>For >870, Deduct</i>	-2.50	
32 01 90 36-0004	MSF		Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF)	7.91	
			Note: Includes pre and post emergent.		
			<i>For >45 To 90, Deduct</i>	-0.45	
			<i>For >90 To 225, Deduct</i>	-1.24	
			<i>For >225 To 870, Deduct</i>	-2.04	
			<i>For >870, Deduct</i>	-2.49	
32 01 90 36-0005	MSF		Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	8.24	
			Note: Includes pre and post emergents.		
			<i>For >45 To 90, Deduct</i>	-0.49	
			<i>For >90 To 225, Deduct</i>	-1.31	
			<i>For >225 To 870, Deduct</i>	-2.13	
			<i>For >870, Deduct</i>	-2.62	

32 01 90 39 Pesticides (32 01 90)

32 01 90 39-0001	MSF	Pesticide - Surface Eating.....		10.20	
32 01 90 39-0002	MSF	Pesticide - Subsurface Eating.....		10.24	
32 01 90 39-0003	MSF	Pesticide - Fungicide Application.....		10.97	

32 01 90 43 Weed and Cultivate Beds (32 01 90)

32 01 90 43-0001	MSF	Weed Mulched Bed		39.45	
32 01 90 43-0002	MSF	Weed Unmulched Bed.....		112.71	
32 01 90 43-0003	MSF	Cultivate Bed		60.69	

32 01 90 46 Hedge Trimming (32 01 90)

32 01 90 46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide.....		5.23	
32 01 90 46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide.....		7.84	
32 01 90 46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide.....		11.88	
32 01 90 46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide.....		12.10	

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001	EA	Plant Growth Regulator Application		5.62	
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32 10 Bases, Ballasts, and Paving (32)

32 11 Base Courses (32 10)

32 11 16 Subbase Courses (32 11)

32 11 16 16 Aggregate Subbase Courses (32 11 16)

32 11 16 16-0001			Base And Subbase Courses For Roadways And Parking Areas <small>(32 11 16 16)</small>		
			Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 11 16 16-0002			Base And Subbase Courses By The CY <small>(32 11 16 16-0001)</small>		
32 11 16 16-0003	CY		Class II Graded Crushed Aggregate Roadway Base Course	81.14	
32 11 16 16-0004	CY		Class III Graded Crushed Aggregate Roadway Base Course	78.54	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 11 Base Courses**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 11 23 Aggregate Base Courses** (32 11)**32 11 23 16 Aggregate Base Courses** (32 11 23)**32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete)** (32 11 23 16)

Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 11 23 16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks	0.53
		For Up To 1,000, Add	0.15
		For >1,000 To 2,500, Add	0.05
32 11 23 16-0003	SF	3" Crushed Aggregate Base Course For Sidewalks	0.77
		For Up To 1,000, Add	0.22
		For >1,000 To 2,500, Add	0.08
32 11 23 16-0004	SF	4" Crushed Aggregate Base Course For Sidewalks	1.00
		For Up To 1,000, Add	0.28
		For >1,000 To 2,500, Add	0.10
32 11 23 16-0005	SF	5" Crushed Aggregate Base Course For Sidewalks	1.28
		For Up To 1,000, Add	0.36
		For >1,000 To 2,500, Add	0.13
32 11 23 16-0006	SF	6" Crushed Aggregate Base Course For Sidewalks	1.58
		For Up To 1,000, Add	0.44
		For >1,000 To 2,500, Add	0.16
32 11 23 16-0007	SF	7" Crushed Aggregate Base Course For Sidewalks	1.82
		For Up To 1,000, Add	0.51
		For >1,000 To 2,500, Add	0.18
32 11 23 16-0008	SF	8" Crushed Aggregate Base Course For Sidewalks	2.07
		For Up To 1,000, Add	0.58
		For >1,000 To 2,500, Add	0.21

32 11 26 Asphaltic Base Courses (32 11)**32 11 26 19 Bituminous-Stabilized Base Courses** (32 11 26)**32 11 26 19-0001 Bituminous-Stabilized Base Courses** (32 11 26 19)

32 11 26 19-0002	CY	Bituminous Stabilized Base Course	105.99
		Note: 3/4" ASTM C33.	

32 12 Flexible Paving (32 10)**32 12 13 Preparatory Coats** (32 12)**32 12 13 13 Tack Coats** (32 12 13)

32 12 13 13-0001	SY	Tack Coat, 0.04 Gallon/SY	0.53
		For Up To 150, Add	0.10
		For >150 To 300, Add	0.05
		For >300 To 500, Add	0.03
		For >3,500 To 5,000, Deduct	-0.01
		For >5,000, Deduct	-0.03
32 12 13 13-0002	SY	Tack Coat, 0.05 Gallon/SY	0.58
		For Up To 150, Add	0.11
		For >150 To 300, Add	0.06
		For >300 To 500, Add	0.03
		For >3,500 To 5,000, Deduct	-0.01
		For >5,000, Deduct	-0.04
32 12 13 13-0003	SY	Tack Coat, 0.07 Gallon/SY	0.68
		For Up To 150, Add	0.14
		For >150 To 300, Add	0.07
		For >300 To 500, Add	0.03
		For >3,500 To 5,000, Deduct	-0.02
		For >5,000, Deduct	-0.04
32 12 13 13-0004	SY	Tack Coat, 0.08 Gallon/SY	0.73
		For Up To 150, Add	0.15
		For >150 To 300, Add	0.07
		For >300 To 500, Add	0.04
		For >3,500 To 5,000, Deduct	-0.02
		For >5,000, Deduct	-0.05
32 12 13 13-0005	SY	Tack Coat, 0.10 Gallon/SY	0.84
		For Up To 150, Add	0.18
		For >150 To 300, Add	0.08
		For >300 To 500, Add	0.04
		For >3,500 To 5,000, Deduct	-0.02
		For >5,000, Deduct	-0.05
32 12 13 13-0006	SY	Tack Coat, 0.11 Gallon/SY	0.89
		For Up To 150, Add	0.19
		For >150 To 300, Add	0.09
		For >300 To 500, Add	0.04
		For >3,500 To 5,000, Deduct	-0.02
		For >5,000, Deduct	-0.06

32 12 13 19 Prime Coats (32 12 13)



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Flexible Paving	32 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 13 19-0001 SY Surface Prime Coat, 0.26 Gallon/SY	1.46	
For Up To 150, Add	0.33	
For >150 To 300, Add	0.15	
For >300 To 500, Add	0.07	
For >3,500 To 5,000, Deduct	-0.04	
For >5,000, Deduct	-0.10	
32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY	1.54	
For Up To 150, Add	0.35	
For >150 To 300, Add	0.15	
For >300 To 500, Add	0.08	
For >3,500 To 5,000, Deduct	-0.04	
For >5,000, Deduct	-0.11	
32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY	1.62	
For Up To 150, Add	0.37	
For >150 To 300, Add	0.16	
For >300 To 500, Add	0.08	
For >3,500 To 5,000, Deduct	-0.04	
For >5,000, Deduct	-0.11	
32 12 16 Asphalt Paving <small>(32 12)</small>		
32 12 16 13 Plant-Mix Asphalt Paving <small>(32 12 16)</small>		
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0039 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.		
32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small>		
Note: Meets Caltrans requirements.		
32 12 16 13-0002 TON Bituminous Hot Mix Intermediate Course 3,954 LB/CY	146.48	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
For PG64-10 Asphalt, Add	17.58	
For Up To 25, Add	19.91	
For >25 To 50, Add	10.98	
For >500 To 1,000, Deduct	-6.27	
For >1,000 To 2,500, Deduct	-11.38	
For >2,500 To 5,000, Deduct	-17.65	
For >5,000, Deduct	-25.30	
For Warm Mix Additive, Add	7.62	
32 12 16 13-0003 SY 1" Thick Bituminous Hot Mix Binder Course	8.28	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.97	
For Up To 1,000, Add	1.16	
For >1,000 To 2,000, Add	0.64	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000 To 50,000, Deduct	-0.65	
For >50,000 To 100,000, Deduct	-1.01	
For >100,000, Deduct	-1.45	
32 12 16 13-0004 SY 1-1/2" Thick Bituminous Hot Mix Binder Course	12.30	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.45	
For Up To 700, Add	1.71	
For >700 To 1,400, Add	0.95	
For >7,000 To 14,000, Deduct	-0.54	
For >14,000 To 32,000, Deduct	-0.97	
For >32,000 To 64,000, Deduct	-1.51	
For >64,000, Deduct	-2.17	
32 12 16 13-0005 SY 2" Thick Bituminous Hot Mix Binder Course	15.93	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.93	
For Up To 500, Add	2.14	
For >500 To 1,000, Add	1.18	
For >5,000 To 10,000, Deduct	-0.70	
For >10,000 To 24,000, Deduct	-1.28	
For >24,000 To 48,000, Deduct	-1.99	
For >48,000, Deduct	-2.85	
32 12 16 13-0006 SY 2-1/2" Thick Bituminous Hot Mix Binder Course	20.10	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.41	
For Up To 400, Add	2.73	
For >400 To 800, Add	1.51	
For >4,000 To 8,000, Deduct	-0.88	
For >8,000 To 20,000, Deduct	-1.61	
For >20,000 To 40,000, Deduct	-2.49	
For >40,000, Deduct	-3.58	
32 12 16 13-0007 SY 3" Thick Bituminous Hot Mix Binder Course	24.13	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.90	
For Up To 340, Add	3.28	
For >340 To 680, Add	2.77	
For >3,400 To 6,800, Deduct	-1.06	
For >6,800 To 17,000, Deduct	-1.93	
For >17,000 To 34,000, Deduct	-2.99	
For >34,000, Deduct	-4.30	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0008	SY		3-1/2" Thick Bituminous Hot Mix Binder Course	28.15	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	3.38	
			For Up To 280, Add	3.83	
			For >280 To 560, Add	2.11	
			For >2,800 To 5,600, Deduct	-1.24	
			For >5,600 To 14,000, Deduct	-2.25	
			For >14,000 To 28,000, Deduct	-3.49	
			For >28,000, Deduct	-5.01	
32 12 16 13-0009	SY		4" Thick Bituminous Hot Mix Binder Course	32.18	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	3.86	
			For Up To 250, Add	4.38	
			For >250 To 500, Add	2.41	
			For >2,500 To 5,000, Deduct	-1.42	
			For >5,000 To 12,000, Deduct	-2.57	
			For >12,000 To 24,000, Deduct	-3.99	
			For >24,000, Deduct	-5.73	
32 12 16 13-0010	SY		5" Thick Bituminous Hot Mix Binder Course	40.21	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	4.83	
			For Up To 200, Add	5.47	
			For >200 To 400, Add	3.01	
			For >2,000 To 4,000, Deduct	-1.77	
			For >4,000 To 10,000, Deduct	-3.22	
			For >10,000 To 20,000, Deduct	-4.99	
			For >20,000, Deduct	-7.16	
32 12 16 13-0011	SY		6" Thick Bituminous Hot Mix Binder Course	48.26	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	5.79	
			For Up To 160, Add	6.56	
			For >160 To 320, Add	3.62	
			For >1,600 To 3,200, Deduct	-2.12	
			For >3,200 To 8,000, Deduct	-3.86	
			For >8,000 To 16,000, Deduct	-5.99	
			For >16,000, Deduct	-8.59	
32 12 16 13-0012			Surface Courses, Hot Mix Asphalt (HMA) (32 12 16 13)		
			Note: Meets Caltrans requirements.		
32 12 16 13-0013	TON		Bituminous Hot Mix Surface Course 3954 LB/CY	148.44	
			Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
			For PG64-10 Asphalt, Add	2.80	
			For Up To 25, Add	21.43	
			For >25 To 50, Add	11.99	
			For >500 To 1,000, Deduct	-6.11	
			For >1,000 To 2,500, Deduct	-11.10	
			For >2,500 To 5,000, Deduct	-17.21	
			For >5,000, Deduct	-24.70	
			For Warm Mix Additive, Add	7.27	
32 12 16 13-0014	TON		Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR)	164.59	
			Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
			For Up To 25, Add	24.14	
			For >25 To 50, Add	13.56	
			For >500 To 1,000, Deduct	-6.70	
			For Warm Mix Additive, Add	7.93	
32 12 16 13-0015	TON		Asphalt Rubberized Hot Mix (ARHM) Surface Course.....	175.78	
			Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
			For Up To 25, Add	25.26	
			For >25 To 50, Add	14.12	
			For >500 To 1,000, Deduct	-7.26	
			For >1,000 To 2,500, Deduct	-13.19	
			For >2,500 To 5,000, Deduct	-20.44	
			For >5,000, Deduct	-29.33	
			For Warm Mix Additive, Add	8.65	
32 12 16 13-0016	SY		1" Thick Bituminous Hot Mix Surface Course	8.07	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.15	
			For Up To 1,000, Add	1.20	
			For >1,000 To 2,000, Add	0.68	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000 To 50,000, Deduct	-0.62	
			For >50,000 To 100,000, Deduct	-0.95	
			For >100,000, Deduct	-1.37	
32 12 16 13-0017	SY		1-1/2" Thick Bituminous Hot Mix Surface Course	11.96	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.22	
			For Up To 700, Add	1.76	
			For >700 To 1,400, Add	0.99	
			For >7,000 To 14,000, Deduct	-0.50	
			For >14,000 To 32,000, Deduct	-0.92	
			For >32,000 To 64,000, Deduct	-1.42	
			For >64,000, Deduct	-2.04	



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Flexible Paving	32 12

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0018	SY		2" Thick Bituminous Hot Mix Surface Course	15.38	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.29	
			For Up To 500, Add	2.20	
			For >500 To 1,000, Add	1.23	
			For >5,000 To 10,000, Deduct	-0.66	
			For >10,000 To 24,000, Deduct	-1.20	
			For >24,000 To 48,000, Deduct	-1.86	
			For >48,000, Deduct	-2.67	
32 12 16 13-0019	SY		2-1/2" Thick Bituminous Hot Mix Surface Course	19.45	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.37	
			For Up To 400, Add	2.81	
			For >400 To 800, Add	1.57	
			For >4,000 To 8,000, Deduct	-0.83	
			For >8,000 To 20,000, Deduct	-1.51	
			For >20,000 To 40,000, Deduct	-2.34	
			For >40,000, Deduct	-3.36	
32 12 16 13-0020	SY		3" Thick Bituminous Hot Mix Surface Course	23.34	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.44	
			For Up To 340, Add	3.37	
			For >340 To 680, Add	2.77	
			For >3,400 To 6,800, Deduct	-0.99	
			For >6,800 To 17,000, Deduct	-1.81	
			For >17,000 To 34,000, Deduct	-2.81	
			For >34,000, Deduct	-4.04	
32 12 16 13-0021	CSF		Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	78.73	
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)					
32 12 16 13-0023	TON		Hand Placed Hot Mixed Asphalt 3,954 LB/CY	355.20	
			Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		
32 12 16 13-0024 AC Dikes (32 12 16 13)					
			See CSI section 32 11 23 16-0001 for base course.		
32 12 16 13-0025	LF		Type A, Asphalt Concrete Dike.....	12.59	5.07
			For Up To 100, Add	5.68	
			For >100 To 500, Add	1.64	
			For >1,000 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-1.64	
32 12 16 13-0026	LF		Type C, Asphalt Concrete Dike.....	10.83	5.07
			For Up To 100, Add	5.24	
			For >100 To 500, Add	1.55	
			For >1,000 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-1.55	
32 12 16 13-0027	LF		Type D, Asphalt Concrete Dike.....	15.49	5.07
			For Up To 100, Add	6.41	
			For >100 To 500, Add	1.79	
			For >1,000 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-1.79	
32 12 16 13-0028	LF		Type E, Asphalt Concrete Dike.....	12.53	5.07
			For Up To 100, Add	5.67	
			For >100 To 500, Add	1.64	
			For >1,000 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-1.64	
32 12 16 13-0029	LF		Type F, Asphalt Concrete Dike.....	11.34	5.07
			For Up To 100, Add	5.37	
			For >100 To 500, Add	1.58	
			For >1,000 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-1.58	
32 12 16 13-0030 Ditch Lining (32 12 16 13)					
32 12 16 13-0031	SY		4" Concrete Ditch Pavement.....	65.72	
32 12 16 13-0032	SY		4" Asphalt Ditch Pavement.....	49.07	
32 12 16 13-0033	SY		4" Soil-Cement Ditch Pavement.....	8.31	
32 12 16 13-0034	SY		4" Rip-Rap Ditch Pavement.....	7.63	
32 12 16 19 Cold-Mix Asphalt Paving (32 12 16)					
			Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19)					
			Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002	SY		Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	13.06	
32 12 16 19-0003	SY		Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	12.72	
32 12 16 19-0004	SY		Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	20.65	
32 12 16 39 Paving Fabrics (32 12 16)					
			See CSI section 31 32 19 16-0000 for geotextile fabric.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 39-0001	SY		3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)	1.25	
			<i>For Up To 50, Add</i>	0.29	
			<i>For >50 To 150, Add</i>	0.21	
			<i>For >150 To 250, Add</i>	0.14	
			<i>For >250 To 500, Add</i>	0.07	
32 12 16 39-0002	SY		4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O)	1.34	
			<i>For Up To 50, Add</i>	0.31	
			<i>For >50 To 150, Add</i>	0.23	
			<i>For >150 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
32 12 16 43 Waterproofing Membranes (32 12 16)					
32 12 16 43-0001			Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002	SY		Up To 500 SY, Preformed Rubberized Asphalt Membrane	34.40	
32 12 16 43-0003	SY		>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	25.83	
32 12 16 43-0004	SY		>1,000 SY, Preformed Rubberized Asphalt Membrane	16.11	
32 12 33 Flexible Paving Surface Treatments (32 12)					
32 12 33 00-0001			Bituminous Surface Treatment For Roadways (32 12 33)		
			Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002	SY		Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.07	
32 12 33 00-0003	SY		Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.50	
32 12 33 00-0004			Bituminous Surface Treatment For Trails (32 12 33)		
			Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005	SY		Bituminous Surface Treatment, For Trails	2.11	
32 12 36 Seal Coats (32 12)					
			See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)					
32 12 36 13-0001			Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13)		
			Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0002			Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)		
			Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0003	SY		Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.82	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0004	SY		>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.65	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0005	SY		>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.53	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0006	SY		>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.37	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0007	SY		>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.29	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0008	SY		>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.23	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0009	SY		>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.15	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0010	SY		>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.12	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.38	
32 12 36 13-0011			Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)		
			Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0012	SY		Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.57	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0013	SY		>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.34	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0014	SY		>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.17	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0015	SY		>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.10	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0016	SY		>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.86	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0017	SY		>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.72	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0018	SY		>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.62	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	
32 12 36 13-0019	SY		>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.58	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.48	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0020 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0001)</small> Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.17	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0022 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.88	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0023 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.66	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0024 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.42	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0025 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.28	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0026 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.08	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0027 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.95	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0028 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.90	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0029 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0001)</small> Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0030 SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.24	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0031 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.95	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0032 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.74	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0033 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.49	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0034 SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.36	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0035 SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.23	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0036 SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.03	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0037 SY >50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.98	
For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0038 Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0001)</small> Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0039 SY Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.25	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0040 SY >200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.79	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0041 SY >500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.45	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0042 SY >1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.05	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0043 SY >5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.83	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0044 SY >10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.56	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0045 SY >20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.35	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0046 SY >50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.27	
For Each Additional 0.5% Latex Additive, Add	0.94	
32 12 36 13-0047 Fog Seal, CQS-1h <small>(32 12 36 13)</small> Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.		
32 12 36 13-0048 SY Up To 200 SY, CQS-1h, Fog Seal	1.60	
32 12 36 13-0049 SY >200 To 500 SY, CQS-1h, Fog Seal	1.14	
32 12 36 13-0050 SY >500 To 1,000 SY, CQS-1h, Fog Seal	0.95	
32 12 36 13-0051 SY >1,000 To 5,000 SY, CQS-1h, Fog Seal	0.80	
32 12 36 13-0052 SY >5,000 To 10,000 SY, CQS-1h, Fog Seal	0.73	
32 12 36 13-0053 SY >10,000 To 20,000 SY, CQS-1h, Fog Seal	0.66	
32 12 36 13-0054 SY >20,000 To 50,000 SY, CQS-1h, Fog Seal	0.60	
32 12 36 13-0055 SY >50,000 SY, CQS-1h, Fog Seal	0.59	
32 12 36 13-0056 Sand Sealer <small>(32 12 36 13)</small> Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0057 SY Up To 200 SY, Sand Seal	2.49	
32 12 36 13-0058 SY >200 To 500 SY, Sand Seal	1.64	
32 12 36 13-0059 SY >500 To 1,000 SY, Sand Seal	1.63	
32 12 36 13-0060 SY >1,000 To 5,000 SY, Sand Seal	1.43	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0061 SY >5,000 To 10,000 SY, Sand Seal	1.32	
32 12 36 13-0062 SY >10,000 To 20,000 SY, Sand Seal	1.24	
32 12 36 13-0063 SY >20,000 To 50,000 SY, Sand Seal	1.17	
32 12 36 13-0064 SY >50,000 SY, Sand Seal.....	1.15	
32 12 36 16 Coal Tar Seal Coats (32 12 36)		
32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal (32 12 36 16)		
Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002 SY Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	11.49	
32 12 36 16-0003 SY >500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	10.75	
32 12 36 16-0004 SY >1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	9.45	
32 12 36 16-0005 SY >5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	8.45	
32 12 36 16-0006 SY >20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	7.15	
32 12 36 16-0007 SY >50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	5.83	
32 12 36 16-0008 SY Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	13.83	
32 12 36 16-0009 SY >500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	13.01	
32 12 36 16-0010 SY >1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	11.46	
32 12 36 16-0011 SY >5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	10.30	
32 12 36 16-0012 SY >20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	8.76	
32 12 36 16-0013 SY >50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	7.20	
32 12 43 Porous Flexible Paving (32 12)		
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid (32 12 43)		
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002 SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill	34.71	
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
For Up To 100, Add	11.87	
For >100 To 500, Add	3.01	
For >1,000 To 5,000, Deduct	-1.28	
For >5,000, Deduct	-2.57	
32 12 73 Asphalt Paving Joint Sealants (32 12)		
32 12 73 00-0001 Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002 LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk.....	4.32	
32 13 Rigid Paving (32 10)		
32 13 13 Concrete Paving (32 13)		
Note: The following section includes spreading and placing delivered Portland cement concrete mix.		
32 13 13 33 Plain Concrete Paving (32 13 13)		
32 13 13 33-0001 Concrete Paving Assemblies (32 13 13 33)		
Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.		
32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly.....	67.22	
For 2,500 PSI Concrete, Deduct	-4.66	
For 3,000 PSI Concrete, Deduct	-3.04	
For 3,500 PSI Concrete, Deduct	-2.43	
For 4,000 PSI Concrete, Deduct	-1.05	
For 5,000 PSI Concrete, Add	0.65	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.27	
For <12' Wide Pass, Add	10.73	
For 24' Or Greater Wide Pass, Deduct	-13.44	
For Air Entrainment, Add	2.03	
For Slipforming, Deduct	-6.72	
For Up To 100, Add	24.12	
For >100 To 250, Add	14.09	
For >250 To 500, Add	7.04	
For >1,000 To 2,000, Deduct	-2.03	
For >2,000 To 5,000, Deduct	-3.71	
For >5,000 To 10,000, Deduct	-5.39	
For >10,000 To 20,000, Deduct	-7.07	
For >20,000, Deduct	-8.75	



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Rigid Paving	32 13

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
32 13 13 33-0004 SY 5" 4,500 PSI Concrete Paving Assembly.....	80.52	
For 2,500 PSI Concrete, Deduct	-5.85	
For 3,000 PSI Concrete, Deduct	-3.81	
For 3,500 PSI Concrete, Deduct	-3.05	
For 4,000 PSI Concrete, Deduct	-1.32	
For 5,000 PSI Concrete, Add	0.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.61	
For <12' Wide Pass, Add	12.50	
For 24' Or Greater Wide Pass, Deduct	-16.10	
For Air Entrainment, Add	2.54	
For Slipforming, Deduct	-8.05	
For Up To 100, Add	27.97	
For >100 To 250, Add	16.53	
For >250 To 500, Add	8.26	
For >1,000 To 2,000, Deduct	-2.54	
For >2,000 To 5,000, Deduct	-4.56	
For >5,000 To 10,000, Deduct	-6.57	
For >10,000 To 20,000, Deduct	-8.58	
For >20,000, Deduct	-10.60	
32 13 13 33-0005 SY 6" 4,500 PSI Concrete Paving Assembly.....	85.78	
For 2,500 PSI Concrete, Deduct	-6.17	
For 3,000 PSI Concrete, Deduct	-4.02	
For 3,500 PSI Concrete, Deduct	-3.22	
For 4,000 PSI Concrete, Deduct	-1.39	
For 5,000 PSI Concrete, Add	0.86	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.97	
For <12' Wide Pass, Add	13.40	
For 24' Or Greater Wide Pass, Deduct	-17.16	
For Air Entrainment, Add	2.68	
For Slipforming, Deduct	-8.58	
For Up To 100, Add	30.01	
For >100 To 250, Add	17.69	
For >250 To 500, Add	8.84	
For >1,000 To 2,000, Deduct	-2.68	
For >2,000 To 5,000, Deduct	-4.83	
For >5,000 To 10,000, Deduct	-6.97	
For >10,000 To 20,000, Deduct	-9.12	
For >20,000, Deduct	-11.26	
32 13 13 33-0006 SY 7" 4,500 PSI Concrete Paving Assembly.....	103.24	
For 2,500 PSI Concrete, Deduct	-7.78	
For 3,000 PSI Concrete, Deduct	-5.07	
For 3,500 PSI Concrete, Deduct	-4.06	
For 4,000 PSI Concrete, Deduct	-1.76	
For 5,000 PSI Concrete, Add	1.08	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.79	
For <12' Wide Pass, Add	15.66	
For 24' Or Greater Wide Pass, Deduct	-20.65	
For Air Entrainment, Add	3.38	
For Slipforming, Deduct	-10.32	
For Up To 100, Add	34.88	
For >100 To 250, Add	20.82	
For >250 To 500, Add	10.41	
For >1,000 To 2,000, Deduct	-3.38	
For >2,000 To 5,000, Deduct	-5.96	
For >5,000 To 10,000, Deduct	-8.54	
For >10,000 To 20,000, Deduct	-11.13	
For >20,000, Deduct	-13.71	
32 13 13 33-0007 SY 8" 4,500 PSI Concrete Paving Assembly.....	116.97	
For 2,500 PSI Concrete, Deduct	-8.54	
For 3,000 PSI Concrete, Deduct	-5.57	
For 3,500 PSI Concrete, Deduct	-4.46	
For 4,000 PSI Concrete, Deduct	-1.93	
For 5,000 PSI Concrete, Add	1.19	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.65	
For <12' Wide Pass, Add	18.11	
For 24' Or Greater Wide Pass, Deduct	-23.39	
For Air Entrainment, Add	3.71	
For Slipforming, Deduct	-11.70	
For Up To 100, Add	40.48	
For >100 To 250, Add	23.95	
For >250 To 500, Add	11.98	
For >1,000 To 2,000, Deduct	-3.71	
For >2,000 To 5,000, Deduct	-6.64	
For >5,000 To 10,000, Deduct	-9.56	
For >10,000 To 20,000, Deduct	-12.49	
For >20,000, Deduct	-15.41	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0008	SY	9"	4,500 PSI Concrete Paving Assembly	132.96	
			For 2,500 PSI Concrete, Deduct	-9.87	
			For 3,000 PSI Concrete, Deduct	-6.44	
			For 3,500 PSI Concrete, Deduct	-5.15	
			For 4,000 PSI Concrete, Deduct	-2.23	
			For 5,000 PSI Concrete, Add	1.37	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	11.15	
			For <12' Wide Pass, Add	20.37	
			For 24' Or Greater Wide Pass, Deduct	-26.59	
			For Air Entrainment, Add	4.29	
			For Slipforming, Deduct	-13.30	
			For Up To 100, Add	45.46	
			For >100 To 250, Add	27.02	
			For >250 To 500, Add	13.51	
			For >1,000 To 2,000, Deduct	-4.29	
			For >2,000 To 5,000, Deduct	-7.61	
			For >5,000 To 10,000, Deduct	-10.94	
			For >10,000 To 20,000, Deduct	-14.26	
			For >20,000, Deduct	-17.59	
32 13 13 33-0009	SY	10"	4,500 PSI Concrete Paving Assembly	147.77	
			For 2,500 PSI Concrete, Deduct	-10.85	
			For 3,000 PSI Concrete, Deduct	-7.08	
			For 3,500 PSI Concrete, Deduct	-5.66	
			For 4,000 PSI Concrete, Deduct	-2.45	
			For 5,000 PSI Concrete, Add	1.51	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.27	
			For <12' Wide Pass, Add	22.79	
			For 24' Or Greater Wide Pass, Deduct	-29.55	
			For Air Entrainment, Add	4.72	
			For Slipforming, Deduct	-14.78	
			For Up To 100, Add	50.91	
			For >100 To 250, Add	30.17	
			For >250 To 500, Add	15.09	
			For >1,000 To 2,000, Deduct	-4.72	
			For >2,000 To 5,000, Deduct	-8.41	
			For >5,000 To 10,000, Deduct	-12.11	
			For >10,000 To 20,000, Deduct	-15.80	
			For >20,000, Deduct	-19.50	
32 13 13 33-0010	SY	12"	4,500 PSI Concrete Paving Assembly	175.83	
			For 2,500 PSI Concrete, Deduct	-12.85	
			For 3,000 PSI Concrete, Deduct	-8.38	
			For 3,500 PSI Concrete, Deduct	-6.71	
			For 4,000 PSI Concrete, Deduct	-2.91	
			For 5,000 PSI Concrete, Add	1.79	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	14.53	
			For <12' Wide Pass, Add	27.19	
			For 24' Or Greater Wide Pass, Deduct	-35.17	
			For Air Entrainment, Add	5.59	
			For Slipforming, Deduct	-17.58	
			For Up To 100, Add	60.79	
			For >100 To 250, Add	35.99	
			For >250 To 500, Add	17.99	
			For >1,000 To 2,000, Deduct	-5.59	
			For >2,000 To 5,000, Deduct	-9.98	
			For >5,000 To 10,000, Deduct	-14.38	
			For >10,000 To 20,000, Deduct	-18.78	
			For >20,000, Deduct	-23.17	
32 13 13 33-0011	SY	15"	4,500 PSI Concrete Paving Assembly	222.27	
			For 2,500 PSI Concrete, Deduct	-15.78	
			For 3,000 PSI Concrete, Deduct	-10.29	
			For 3,500 PSI Concrete, Deduct	-8.23	
			For 4,000 PSI Concrete, Deduct	-3.57	
			For 5,000 PSI Concrete, Add	2.20	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	17.84	
			For <12' Wide Pass, Add	34.98	
			For 24' Or Greater Wide Pass, Deduct	-44.45	
			For Air Entrainment, Add	6.86	
			For Slipforming, Deduct	-22.23	
			For Up To 100, Add	78.47	
			For >100 To 250, Add	46.10	
			For >250 To 500, Add	23.05	
			For >1,000 To 2,000, Deduct	-6.86	
			For >2,000 To 5,000, Deduct	-12.42	
			For >5,000 To 10,000, Deduct	-17.98	
			For >10,000 To 20,000, Deduct	-23.53	
			For >20,000, Deduct	-29.09	

32 13 16 Decorative Concrete Paving (32 13)**32 13 16 13 Patterned Concrete Paving** (32 13 16)

32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk.....4.67

32 13 43 Pervious Concrete Paving (32 13)



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Rigid Paving		32 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 13 43 00-0001			Pervious Concrete Assembly <small>(32 13 43)</small> Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002	SF		6" Thick Pervious Concrete Paving..... Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing. <i>For >5,000 To 30,000, Deduct</i> <i>For >30,000 To 100,000, Deduct</i> <i>For >100,000, Deduct</i>	15.30 -1.65 -3.03 -3.76	
32 13 43 00-0003	SF		9" Thick Pervious Concrete Paving..... Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing. <i>For >5,000 To 30,000, Deduct</i> <i>For >30,000 To 100,000, Deduct</i> <i>For >100,000, Deduct</i>	19.37 -2.03 -3.66 -4.55	

32 13 73 Concrete Paving Joint Sealants (32 13)
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)

32 13 73 13-0001			Concrete Pavement Joint And Crack Repair <small>(32 13 73 13)</small> Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002	LF		Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads	8.34	

32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)

32 13 73 16-0001			Preformed Elastomeric Concrete Pavement Joint And Crack Repair <small>(32 13 73 16)</small> Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002	LF		Joint Sealing, Concrete Pavement Preformed Elastomeric	12.51	

32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)

32 13 73 19-0001			Silicone Joint Sealant For Concrete Pavement <small>(32 13 73 19)</small> Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002	LF		1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.59	2.27
32 13 73 19-0003	LF		3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.02	2.32
32 13 73 19-0004	LF		1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.48	2.37
32 13 73 19-0005	LF		3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.97	2.41
32 13 73 19-0006	LF		1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	13.82	2.47
32 13 73 19-0007	LF		1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	16.31	2.51
32 13 73 19-0008	LF		2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	20.07	2.57

32 14 Unit Paving (32 10)

32 14 09 Paver Restraints (32 14)

32 14 09 00-0001			Paver Restraints <small>(32 14 09)</small> Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09 00-0002	LF		Up To 2" Height, Vinyl Paver Restraint..... <i>For >1,000 To 2,000, Deduct</i> <i>For >2,000 To 4,000, Deduct</i> <i>For >4,000, Deduct</i>	4.23 -0.58 -0.84 -1.08	1.00
32 14 09 00-0003	LF		Up To 2" Height, Galvanized Steel Paver Restraint..... <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,000, Deduct</i> <i>For >2,000, Deduct</i>	4.59 -0.15 -0.30 -0.45	1.00
32 14 09 00-0004	LF		Up To 1" Height, Aluminum Paver Restraint..... <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 1,500, Deduct</i>	4.41 -0.28 -0.42 -0.71	1.00
32 14 09 00-0005	LF		>1" To 2" Height, Aluminum Paver Restraint..... <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 1,500, Deduct</i>	5.20 -0.36 -0.54 -0.90	1.00
32 14 09 00-0006	LF		>2" To 3" Height, Aluminum Paver Restraint..... <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 1,500, Deduct</i>	6.72 -0.51 -0.77 -1.28	1.00
32 14 09 00-0007	LF		>3" To 4" Height, Aluminum Paver Restraint..... <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 1,500, Deduct</i>	7.89 -0.63 -0.95 -1.58	1.00

32 14 11 Bedding for Unit Paving (32 14)

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 14 11 00-0001	Bedding For Brick, Precast Concrete Paver And Stone Sidewalk <small>(32 14 11)</small>		
	Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 14 11 00-0002	SF 1" To 2" Sand Bedding, Screeded	1.14	
	For Up To 100, Add	0.49	
	For >100 To 500, Add	0.14	
	For >1,000 To 5,000, Deduct	-0.08	
	For >5,000, Deduct	-0.13	
32 14 11 00-0003	SF 1" To 2" Stone Dust Bedding, Screeded	1.40	
	For Up To 100, Add	0.56	
	For >100 To 500, Add	0.15	
	For >1,000 To 5,000, Deduct	-0.08	
	For >5,000, Deduct	-0.14	
32 14 11 00-0004	SF 3" Stone Dust Bedding, Screeded	1.83	
	For Up To 100, Add	0.70	
	For >100 To 500, Add	0.19	
	For >1,000 To 5,000, Deduct	-0.10	
	For >5,000, Deduct	-0.17	
32 14 11 00-0005	SF 4" Stone Dust Bedding, Screeded	2.33	
	For Up To 100, Add	0.88	
	For >100 To 500, Add	0.23	
	For >1,000 To 5,000, Deduct	-0.12	
	For >5,000, Deduct	-0.21	
32 14 11 00-0006	SF 1" Mortar Bedding	3.51	
	For Up To 100, Add	1.54	
	For >100 To 500, Add	0.44	
	For >1,000 To 5,000, Deduct	-0.27	
	For >5,000, Deduct	-0.42	
32 14 11 00-0007	SF 2" Mortar Bedding	5.25	
	For Up To 100, Add	2.20	
	For >100 To 500, Add	0.62	
	For >1,000 To 5,000, Deduct	-0.36	
	For >5,000, Deduct	-0.58	
32 14 11 00-0008	SF Thin-Set Latex Portland Cement Mortar	1.77	
	For Up To 100, Add	0.80	
	For >100 To 500, Add	0.23	
	For >1,000 To 5,000, Deduct	-0.14	
	For >5,000, Deduct	-0.22	
32 14 13	Precast Concrete Unit Paving <small>(32 14)</small>		
32 14 13 16	Precast Concrete Unit Paving Slabs <small>(32 14 13)</small>		
32 14 13 16-0001	Precast Concrete Paver Sidewalk <small>(32 14 13 16)</small>		
	Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 13 16-0002	SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver	13.53	3.32
	Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
	For 2-3/4" Concrete Paver, Add	1.36	
	For 3-1/8" Concrete Paver, Add	2.22	
	For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.01	
	For Up To 100, Add	5.05	
	For >100 To 500, Add	1.34	
	For >1,000 To 5,000, Deduct	-0.67	
	For >5,000, Deduct	-1.21	
32 14 13 16-0003	SF 2-3/8" Thick, >32 To 64 SI Precast Concrete Paver	12.92	3.03
	Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
	For 2-3/4" Concrete Paver, Add	1.33	
	For 3-1/8" Concrete Paver, Add	2.17	
	For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.95	
	For Up To 100, Add	4.74	
	For >100 To 500, Add	1.25	
	For >1,000 To 5,000, Deduct	-0.61	
	For >5,000, Deduct	-1.11	
32 14 13 16-0004	SF 2-3/8" Thick, >64 To 144 SI Precast Concrete Paver	12.37	2.40
	Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
	For 2-3/4" Concrete Paver, Add	1.31	
	For 3-1/8" Concrete Paver, Add	2.13	
	For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.89	
	For Up To 100, Add	4.47	
	For >100 To 500, Add	1.17	
	For >1,000 To 5,000, Deduct	-0.55	
	For >5,000, Deduct	-1.03	
32 14 13 16-0005	SF 2-3/8" Thick, >144 SI Precast Concrete Paver	11.87	2.50
	Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
	For 2-3/4" Concrete Paver, Add	1.28	
	For 3-1/8" Concrete Paver, Add	2.09	
	For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.84	
	For Up To 100, Add	4.22	
	For >100 To 500, Add	1.09	
	For >1,000 To 5,000, Deduct	-0.50	
	For >5,000, Deduct	-0.96	



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Unit Paving	32 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0006 SF 2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups.	12.64	2.87
<i>For 2-3/4" Concrete Paver, Add</i>	1.32	
<i>For 3-1/8" Concrete Paver, Add</i>	2.15	
<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.92	
<i>For Up To 100, Add</i>	4.60	
<i>For >100 To 500, Add</i>	1.21	
<i>For >1,000 To 5,000, Deduct</i>	-0.58	
<i>For >5,000, Deduct</i>	-1.07	
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)		
32 14 13 19-0001 Turf Block (32 14 13 19) Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002 SF 3-1/8" Thick, Precast Concrete Turf Block	11.11	2.87
<i>For Up To 100, Add</i>	4.22	
<i>For >100 To 500, Add</i>	1.13	
<i>For >1,000 To 5,000, Deduct</i>	-0.58	
<i>For >5,000, Deduct</i>	-1.03	
32 14 16 Brick Unit Paving (32 14)		
32 14 16 00-0001 Brick Paver Sidewalk (32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 16 00-0002 SF 4" x 8" x 2-1/4" Brick Paver, Laid Flat	13.69	3.32
<i>For 1-3/8" Thick Paver, Deduct</i>	-2.79	
<i>For 2-3/4" Thick Paver (Vehicular), Add</i>	6.33	
<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.02	
<i>For Up To 100, Add</i>	5.09	
<i>For >100 To 500, Add</i>	1.35	
<i>For >1,000 To 5,000, Deduct</i>	-0.67	
<i>For >5,000, Deduct</i>	-1.21	
32 14 16 00-0003 SF 4" x 8" x 2-1/4" Brick, Laid On Edge	20.07	3.79
<i>For 1-3/8" Thick Paver, Deduct</i>	-4.75	
<i>For 2-3/4" Thick Paver (Vehicular), Add</i>	11.04	
<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.38	
<i>For Up To 100, Add</i>	6.91	
<i>For >100 To 500, Add</i>	1.76	
<i>For >1,000 To 5,000, Deduct</i>	-0.76	
<i>For >5,000, Deduct</i>	-1.51	
32 14 33 Plastic Paving (32 14)		
32 14 33 13 Permeable Plastic Paving (32 14 33)		
32 14 33 13-0001 Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002 SF 4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block	16.38	2.87
<i>For Up To 100, Add</i>	5.54	
<i>For >100 To 500, Add</i>	1.40	
<i>For >1,000 To 5,000, Deduct</i>	-0.58	
<i>For >5,000, Deduct</i>	-1.18	
32 14 40 Stone Paving (32 14)		
32 14 40 00-0001 Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002 SF 1" Thick, Up to 54 SI Slate Paver	16.08	2.75
Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.08	
<i>For 1/4" Thick Paver, Deduct</i>	-8.15	
<i>For 1/2" Thick Paver, Deduct</i>	-5.69	
<i>For Up To 100, Add</i>	5.40	
<i>For >100 To 500, Add</i>	1.35	
<i>For >1,000 To 5,000, Deduct</i>	-0.55	
<i>For >5,000, Deduct</i>	-1.14	
32 14 40 00-0003 SF 1" Thick, >54 to 108 SI Slate Paver	15.58	2.50
Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.03	
<i>For 1/4" Thick Paver, Deduct</i>	-8.02	
<i>For 1/2" Thick Paver, Deduct</i>	-5.62	
<i>For Up To 100, Add</i>	5.15	
<i>For >100 To 500, Add</i>	1.28	
<i>For >1,000 To 5,000, Deduct</i>	-0.50	
<i>For >5,000, Deduct</i>	-1.07	

32 Exterior Improvements

32 10 Bases, Ballasts, and Paving

32 14 Unit Paving



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0004	SF	1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	14.71 0.94 -7.80 -5.49 4.71 1.15 -0.41 -0.94	2.06
32 14 40 00-0005	SF	1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	14.34 0.91 -7.71 -5.43 4.53 1.09 -0.38 -0.88	1.88
32 14 40 00-0006	SF	1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	15.10 0.98 -7.90 -5.54 4.91 1.21 -0.45 -1.00	2.26
32 14 40 00-0007		Granite Paver Sidewalk <small>(32 14 40)</small> Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008	SF	1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	21.49 1.35 1.07 2.15 2.42 6.75 1.62 -0.55 -1.30	2.75
32 14 40 00-0009	SF	1" Thick, >54 to 108 SI Granite Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	20.99 1.30 1.05 2.10 2.35 6.50 1.55 -0.50 -1.23	2.50
32 14 40 00-0010	SF	1" Thick, >108 to 216 SI Granite Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	20.12 1.21 1.01 2.01 2.22 6.06 1.42 -0.41 -1.10	2.06
32 14 40 00-0011	SF	1" Thick, >216 SI Granite Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	19.75 1.18 0.99 1.98 2.16 5.88 1.36 -0.38 -1.04	1.88
32 14 40 00-0012	SF	1" Thick, Granite Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	20.51 1.25 1.03 2.05 2.28 6.26 1.48 -0.45 -1.16	2.26

32 15 Aggregate Surfacing (32 10)



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Aggregate Surfacing	32 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 15 40 Crushed Stone Surfacing <small>(32 15)</small> Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 15 40 00-0001 Gravel Surfacing And Spreading <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002 CY Gravel Surfacing And Spreading	80.71	
32 15 40 00-0003 Limestone Screenings <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004 CY Limestone Screenings For Trail	91.73	
32 15 40 00-0005 Decomposed Granite <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006 SY 3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	16.23	
Note: Placed in 2 lifts.		
For Additional 2" Lift	8.12	
For >45 To 180, Deduct	-1.10	
For >180 To 450, Deduct	-1.39	
For >450, Deduct	-1.68	
32 16 Curbs, Gutters, Sidewalks, and Driveways <small>(32 10)</small>		
32 16 13 Curbs and Gutters <small>(32 16)</small> Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0001 for additional saw cuts within the 100'.		
32 16 13 13 Cast-In-Place Concrete Curbs and Gutters <small>(32 16 13)</small> Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0001 Cast In Place Concrete Curb And Gutter <small>(32 16 13 13)</small> Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0002 LF 6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	28.87	12.38
For Up To 20, Add	19.49	
For >20 To 50, Add	10.83	
For >50 To 100, Add	4.33	
For >500 To 1,000, Deduct	-3.61	
For >1,000, Deduct	-6.14	
For Mountable Or Rolled Curb And Gutter, Add	1.77	
32 16 13 13-0003 LF 6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	31.46	16.51
For Up To 20, Add	21.25	
For >20 To 50, Add	11.81	
For >50 To 100, Add	4.72	
For >500 To 1,000, Deduct	-3.95	
For >1,000, Deduct	-6.71	
For Mountable Or Rolled Curb And Gutter, Add	1.95	
32 16 13 13-0004 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	36.78	13.72
For Up To 20, Add	24.80	
For >20 To 50, Add	13.77	
For >50 To 100, Add	5.52	
For >500 To 1,000, Deduct	-4.57	
For >1,000, Deduct	-7.78	
For Mountable Or Rolled Curb And Gutter, Add	2.21	
32 16 13 13-0005 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	40.59	15.27
For Up To 20, Add	27.40	
For >20 To 50, Add	15.22	
For >50 To 100, Add	6.09	
For >500 To 1,000, Deduct	-5.07	
For >1,000, Deduct	-8.63	
For Mountable Or Rolled Curb And Gutter, Add	2.49	
32 16 13 13-0006 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6).....	44.69	16.51
For Up To 20, Add	30.12	
For >20 To 50, Add	16.71	
For >50 To 100, Add	6.70	
For >500 To 1,000, Deduct	-5.54	
For >1,000, Deduct	-9.42	
For Mountable Or Rolled Curb And Gutter, Add	2.66	
32 16 13 13-0007 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6).....	49.70	18.57
For Up To 20, Add	33.53	
For >20 To 50, Add	18.62	
For >50 To 100, Add	7.46	
For >500 To 1,000, Deduct	-6.20	
For >1,000, Deduct	-10.54	
For Mountable Or Rolled Curb And Gutter, Add	3.02	
32 16 13 13-0008 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	53.13	19.60
For Up To 20, Add	35.80	
For >20 To 50, Add	19.86	
For >50 To 100, Add	7.97	
For >500 To 1,000, Deduct	-6.58	
For >1,000, Deduct	-11.19	
For Mountable Or Rolled Curb And Gutter, Add	3.16	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0009	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	58.32	21.67
			For Up To 20, Add	39.33	
			For >20 To 50, Add	21.83	
			For >50 To 100, Add	8.75	
			For >500 To 1,000, Deduct	-7.25	
			For >1,000, Deduct	-12.33	
			For Mountable Or Rolled Curb And Gutter, Add	3.51	
32 16 13 13-0010	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	61.55	22.70
			For Up To 20, Add	41.47	
			For >20 To 50, Add	23.00	
			For >50 To 100, Add	9.23	
			For >500 To 1,000, Deduct	-7.62	
			For >1,000, Deduct	-12.96	
			For Mountable Or Rolled Curb And Gutter, Add	3.65	
32 16 13 13-0011	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	66.94	24.76
			For Up To 20, Add	45.12	
			For >20 To 50, Add	25.04	
			For >50 To 100, Add	10.04	
			For >500 To 1,000, Deduct	-8.30	
			For >1,000, Deduct	-14.12	
			For Mountable Or Rolled Curb And Gutter, Add	4.00	
32 16 13 13-0012	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	69.98	25.79
			For Up To 20, Add	47.15	
			For >20 To 50, Add	26.15	
			For >50 To 100, Add	10.50	
			For >500 To 1,000, Deduct	-8.66	
			For >1,000, Deduct	-14.74	
			For Mountable Or Rolled Curb And Gutter, Add	4.15	
32 16 13 13-0013	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	77.61	28.89
			For Up To 20, Add	52.34	
			For >20 To 50, Add	29.06	
			For >50 To 100, Add	11.64	
			For >500 To 1,000, Deduct	-9.66	
			For >1,000, Deduct	-16.43	
			For Mountable Or Rolled Curb And Gutter, Add	4.69	
32 16 13 13-0014			Cast In Place Concrete Curbs <small>(32 16 13 13)</small>		
			Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0015	LF		6" x 12" Cast In Place Concrete Curb (Type A1-6)	21.25	10.48
			For Mountable Curb, Add	1.43	
			For Up To 20, Add	12.63	
			For >20 To 50, Add	7.15	
			For >50 To 100, Add	2.74	
			For >500 To 1,000, Deduct	-2.74	
			For >1,000, Deduct	-4.64	
32 16 13 13-0016	LF		6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	24.31	12.05
			For Mountable Curb, Add	1.67	
			For Up To 20, Add	14.55	
			For >20 To 50, Add	8.25	
			For >50 To 100, Add	3.15	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-5.34	
32 16 13 13-0017	LF		6" x 14" Cast In Place Concrete Curb (Type A1-8)	23.40	10.48
			For Mountable Curb, Add	1.55	
			For Up To 20, Add	13.85	
			For >20 To 50, Add	7.84	
			For >50 To 100, Add	3.00	
			For >500 To 1,000, Deduct	-3.00	
			For >1,000, Deduct	-5.09	
32 16 13 13-0018	LF		6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	26.78	12.05
			For Mountable Curb, Add	1.81	
			For Up To 20, Add	15.96	
			For >20 To 50, Add	9.04	
			For >50 To 100, Add	3.46	
			For >500 To 1,000, Deduct	-3.46	
			For >1,000, Deduct	-5.86	
32 16 13 13-0019	LF		6" x 16" Cast In Place Concrete Curb	25.83	10.48
			For Mountable Curb, Add	1.66	
			For Up To 20, Add	15.12	
			For >20 To 50, Add	8.55	
			For >50 To 100, Add	3.28	
			For >500 To 1,000, Deduct	-3.28	
			For >1,000, Deduct	-5.57	
32 16 13 13-0020	LF		6" x 16" Cast In Place Concrete Curb - Radius.....	29.48	15.72
			For Mountable Curb, Add	1.95	
			For Up To 20, Add	17.42	
			For >20 To 50, Add	9.86	
			For >50 To 100, Add	3.78	
			For >500 To 1,000, Deduct	-3.78	
			For >1,000, Deduct	-6.41	



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Curbs, Gutters, Sidewalks, and Driveways	32 16

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0021	LF		6" x 18" Cast In Place Concrete Curb.....	27.77	10.48
			<i>For Mountable Curb, Add</i>	1.75	
			<i>For Up To 20, Add</i>	16.14	
			<i>For >20 To 50, Add</i>	9.13	
			<i>For >50 To 100, Add</i>	3.51	
			<i>For >500 To 1,000, Deduct</i>	-3.51	
			<i>For >1,000, Deduct</i>	-5.95	
32 16 13 13-0022	LF		6" x 18" Cast In Place Concrete Curb - Radius.....	31.36	12.05
			<i>For Mountable Curb, Add</i>	2.01	
			<i>For Up To 20, Add</i>	18.32	
			<i>For >20 To 50, Add</i>	10.37	
			<i>For >50 To 100, Add</i>	3.98	
			<i>For >500 To 1,000, Deduct</i>	-3.98	
			<i>For >1,000, Deduct</i>	-6.75	
32 16 13 13-0023	LF		6" x 24" Cast In Place Concrete Curb.....	32.18	11.53
			<i>For Mountable Curb, Add</i>	1.84	
			<i>For Up To 20, Add</i>	18.08	
			<i>For >20 To 50, Add</i>	10.21	
			<i>For >50 To 100, Add</i>	3.94	
			<i>For >500 To 1,000, Deduct</i>	-3.94	
			<i>For >1,000, Deduct</i>	-6.71	
32 16 13 13-0024	LF		6" x 24" Cast In Place Concrete Curb - Radius.....	35.97	13.09
			<i>For Mountable Curb, Add</i>	2.08	
			<i>For Up To 20, Add</i>	20.29	
			<i>For >20 To 50, Add</i>	11.45	
			<i>For >50 To 100, Add</i>	4.42	
			<i>For >500 To 1,000, Deduct</i>	-4.42	
			<i>For >1,000, Deduct</i>	-7.53	
32 16 13 13-0025	LF		12" x 24" Cast In Place Concrete Curb.....	43.23	13.09
			<i>For Mountable Curb, Add</i>	1.68	
			<i>For Up To 20, Add</i>	21.74	
			<i>For >20 To 50, Add</i>	12.18	
			<i>For >50 To 100, Add</i>	4.78	
			<i>For >500 To 1,000, Deduct</i>	-4.78	
			<i>For >1,000, Deduct</i>	-8.25	
32 16 13 13-0026	LF		12" x 24" Cast In Place Concrete Curb - Radius.....	48.08	14.66
			<i>For Mountable Curb, Add</i>	1.90	
			<i>For Up To 20, Add</i>	24.29	
			<i>For >20 To 50, Add</i>	13.61	
			<i>For >50 To 100, Add</i>	5.34	
			<i>For >500 To 1,000, Deduct</i>	-5.34	
			<i>For >1,000, Deduct</i>	-9.21	
32 16 13 13-0027	EA		Additional Finish For Handicap Drop Section In Curb.....	78.57	
32 16 13 13-0028			Concrete Band, Cast In Place <small>(32 16 13 13)</small>		
			Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0029	LF		6" x 6" Concrete Band.....	19.21	10.48
			Note: Excludes base course.		
			<i>For Up To 20, Add</i>	12.22	
			<i>For >20 To 50, Add</i>	6.95	
			<i>For >50 To 100, Add</i>	2.64	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-4.44	
32 16 13 14			Machine Formed, Slip Form Curbs <small>(32 16 13)</small>		
			Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0001	LF		6" x 12" Straight Concrete Curb, Machine Formed.....	15.91	
32 16 13 14-0002	LF		6" x 12" Curved Concrete Curb, Machine Formed.....	20.64	
32 16 13 14-0003	LF		6" x 18" Straight Concrete Curb, Machine Formed.....	21.18	
32 16 13 14-0004	LF		6" x 18" Curved Concrete Curb, Machine Formed.....	26.38	
32 16 13 16			Steel Faced Curbs <small>(32 16 13)</small>		
			Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0001			Sidewalk/Curb Facing <small>(32 16 13 16)</small>		
			Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002	LF		3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	15.89	4.95
			<i>For Curved Section, Add</i>	3.44	
32 16 13 16-0003	LF		4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	17.48	5.63
			<i>For Curved Section, Add</i>	3.86	
32 16 13 16-0004	LF		6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	23.61	6.31
			<i>For Curved Section, Add</i>	4.74	
32 16 13 16-0005	LF		8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	29.02	7.10
			<i>For Curved Section, Add</i>	5.54	
32 16 13 16-0006	LF		10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	35.55	7.77
			<i>For Curved Section, Add</i>	6.46	
32 16 13 16-0007	LF		12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	46.51	9.90
			<i>For Curved Section, Add</i>	8.35	
32 16 13 16-0008	LF		13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	53.55	12.84
			<i>For Curved Section, Add</i>	10.15	
32 16 13 16-0009	EA		Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	168.15	

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 16	Curbs, Gutters, Sidewalks, and Driveways



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)

Note: Includes concrete, forms, rebar, expansion joints, finish and curing.

32 16 13 19-0002	LF	2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	24.90
		<i>For Up To 20, Add</i>	10.34
		<i>For >20 To 50, Add</i>	5.71
		<i>For >50 To 100, Add</i>	2.32
		<i>For >500 To 1,000, Deduct</i>	-2.32
		<i>For >1,000, Deduct</i>	-4.10
32 16 13 19-0003	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	30.62
		<i>For Up To 20, Add</i>	12.57
		<i>For >20 To 50, Add</i>	6.93
		<i>For >50 To 100, Add</i>	2.82
		<i>For >500 To 1,000, Deduct</i>	-2.82
		<i>For >1,000, Deduct</i>	-5.00
32 16 13 19-0004	LF	3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	36.31
		<i>For Up To 20, Add</i>	14.78
		<i>For >20 To 50, Add</i>	8.14
		<i>For >50 To 100, Add</i>	3.32
		<i>For >500 To 1,000, Deduct</i>	-3.32
		<i>For >1,000, Deduct</i>	-5.89
32 16 13 19-0005	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	41.96
		<i>For Up To 20, Add</i>	16.97
		<i>For >20 To 50, Add</i>	9.34
		<i>For >50 To 100, Add</i>	3.81
		<i>For >500 To 1,000, Deduct</i>	-3.81
		<i>For >1,000, Deduct</i>	-6.77
32 16 13 19-0006	LF	4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	47.63
		<i>For Up To 20, Add</i>	19.16
		<i>For >20 To 50, Add</i>	10.54
		<i>For >50 To 100, Add</i>	4.31
		<i>For >500 To 1,000, Deduct</i>	-4.31
		<i>For >1,000, Deduct</i>	-7.65
32 16 13 19-0007	LF	5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	57.13
		<i>For Up To 20, Add</i>	22.27
		<i>For >20 To 50, Add</i>	12.22
		<i>For >50 To 100, Add</i>	5.02
		<i>For >500 To 1,000, Deduct</i>	-5.02
		<i>For >1,000, Deduct</i>	-8.97
32 16 13 19-0008	LF	6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	66.36
		<i>For Up To 20, Add</i>	25.18
		<i>For >20 To 50, Add</i>	13.78
		<i>For >50 To 100, Add</i>	5.70
		<i>For >500 To 1,000, Deduct</i>	-5.70
		<i>For >1,000, Deduct</i>	-10.21
32 16 13 19-0009	SF	>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	11.05
		<i>For Up To 100, Add</i>	4.19
		<i>For >100 To 250, Add</i>	2.29
		<i>For >250 To 500, Add</i>	0.95
		<i>For >2,500 To 5,000, Deduct</i>	-0.95
		<i>For >5,000, Deduct</i>	-1.70
32 16 13 19-0010	LF	2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	27.61
		<i>For Up To 20, Add</i>	11.17
		<i>For >20 To 50, Add</i>	6.15
		<i>For >50 To 100, Add</i>	2.51
		<i>For >500 To 1,000, Deduct</i>	-2.51
		<i>For >1,000, Deduct</i>	-4.45
32 16 13 19-0011	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	34.16
		<i>For Up To 20, Add</i>	13.72
		<i>For >20 To 50, Add</i>	7.55
		<i>For >50 To 100, Add</i>	3.09
		<i>For >500 To 1,000, Deduct</i>	-3.09
		<i>For >1,000, Deduct</i>	-5.48
32 16 13 19-0012	LF	3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	40.33
		<i>For Up To 20, Add</i>	16.00
		<i>For >20 To 50, Add</i>	8.79
		<i>For >50 To 100, Add</i>	3.60
		<i>For >500 To 1,000, Deduct</i>	-3.60
		<i>For >1,000, Deduct</i>	-6.41
32 16 13 19-0013	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	46.66
		<i>For Up To 20, Add</i>	18.39
		<i>For >20 To 50, Add</i>	10.10
		<i>For >50 To 100, Add</i>	4.14
		<i>For >500 To 1,000, Deduct</i>	-4.14
		<i>For >1,000, Deduct</i>	-7.38
32 16 13 19-0014	LF	4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	52.97
		<i>For Up To 20, Add</i>	20.76
		<i>For >20 To 50, Add</i>	11.40
		<i>For >50 To 100, Add</i>	4.68
		<i>For >500 To 1,000, Deduct</i>	-4.68
		<i>For >1,000, Deduct</i>	-8.35



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Curbs, Gutters, Sidewalks, and Driveways	32 16

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0015 LF 5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	63.67	
For Up To 20, Add	24.17	
For >20 To 50, Add	13.23	
For >50 To 100, Add	5.47	
For >500 To 1,000, Deduct	-5.47	
For >1,000, Deduct	-9.80	
32 16 13 19-0016 LF 6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	74.09	
For Up To 20, Add	27.39	
For >20 To 50, Add	14.95	
For >50 To 100, Add	6.22	
For >500 To 1,000, Deduct	-6.22	
For >1,000, Deduct	-11.18	
32 16 13 19-0017 SF >6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	12.35	
For Up To 100, Add	4.57	
For >100 To 250, Add	2.49	
For >250 To 500, Add	1.04	
For >2,500 To 5,000, Deduct	-1.04	
For >5,000, Deduct	-1.86	
32 16 13 19-0018 LF 2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	27.55	
For Up To 20, Add	11.45	
For >20 To 50, Add	6.32	
For >50 To 100, Add	2.57	
For >500 To 1,000, Deduct	-2.57	
For >1,000, Deduct	-4.54	
32 16 13 19-0019 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	33.91	
For Up To 20, Add	13.95	
For >20 To 50, Add	7.69	
For >50 To 100, Add	3.13	
For >500 To 1,000, Deduct	-3.13	
For >1,000, Deduct	-5.54	
32 16 13 19-0020 LF 3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	40.19	
For Up To 20, Add	16.38	
For >20 To 50, Add	9.03	
For >50 To 100, Add	3.68	
For >500 To 1,000, Deduct	-3.68	
For >1,000, Deduct	-6.52	
32 16 13 19-0021 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	46.48	
For Up To 20, Add	18.83	
For >20 To 50, Add	10.37	
For >50 To 100, Add	4.23	
For >500 To 1,000, Deduct	-4.23	
For >1,000, Deduct	-7.51	
32 16 13 19-0022 LF 4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	52.76	
For Up To 20, Add	21.26	
For >20 To 50, Add	11.70	
For >50 To 100, Add	4.78	
For >500 To 1,000, Deduct	-4.78	
For >1,000, Deduct	-8.49	
32 16 13 19-0023 LF 5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	63.27	
32 16 13 19-0024 LF 6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	73.46	
32 16 13 19-0025 SF >6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	12.24	
For Up To 100, Add	4.65	
For >100 To 250, Add	2.55	
For >250 To 500, Add	1.05	
For >2,500 To 5,000, Deduct	-1.05	
For >5,000, Deduct	-1.89	

32 16 13 23 Precast Concrete Curbs and Gutters (32 16 13)

32 16 13 23-0001 LF 6" x 18" Precast Concrete Curb.....	48.54	9.18
32 16 13 23-0002 LF 6" x 18" Precast Concrete Curb, Radius.....	58.63	10.56
32 16 13 23-0003 LF 6" x 20" Precast Concrete Curb.....	51.99	9.18
32 16 13 23-0004 LF 6" x 20" Precast Concrete Curb, Radius.....	63.19	10.56
32 16 13 23-0005 LF 7" x 18" Precast Concrete Curb.....	53.56	9.18
32 16 13 23-0006 LF 7" x 18" Precast Concrete Curb, Radius.....	65.01	10.56
32 16 13 23-0007 LF 7" x 20" Precast Concrete Curb.....	57.47	9.18
32 16 13 23-0008 LF 7" x 20" Precast Concrete Curb, Radius.....	69.96	10.56

32 16 13 33 Asphalt Curbs (32 16 13)

32 16 13 33-0001 Asphalt Curbs (32 16 13 33)		
32 16 13 33-0002 LF 6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	12.48	5.07
32 16 13 33-0003 LF 8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain.....	14.06	5.63
32 16 13 33-0004 LF 8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain.....	15.50	6.20

32 16 13 43 Stone Curbs (32 16 13)

32 16 13 43-0001 Remove And Reset Stone And Precast Curbing (32 16 13 43)		
Note: Includes storage and cleaning.		
32 16 13 43-0002 LF Removal And Resetting Of Stone Or Precast Curbing.....	35.86	
Note: Includes storage and cleaning.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 16 23 Sidewalks** (32 16)**32 16 23 00-0001****Cast In Place Concrete Sidewalk** (32 16 23)

Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0081 for buggies, 03 31 13 00-0088 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.

32 16 23 00-0002	SF	4" Cast In Place Concrete Sidewalk	9.84
		<i>For Up To 100, Add</i>	4.10
		<i>For >100 To 500, Add</i>	1.15
		<i>For >1,000 To 5,000, Deduct</i>	-0.66
		<i>For >5,000, Deduct</i>	-1.47
		<i>For Welded Wire Reinforcement, Add</i>	0.80
32 16 23 00-0003	SF	5" Cast In Place Concrete Sidewalk	10.83
		<i>For Up To 100, Add</i>	4.41
		<i>For >100 To 500, Add</i>	1.22
		<i>For >1,000 To 5,000, Deduct</i>	-0.68
		<i>For >5,000, Deduct</i>	-1.56
		<i>For Welded Wire Reinforcement, Add</i>	0.80
32 16 23 00-0004	SF	6" Cast In Place Concrete Sidewalk	11.83
		<i>For Up To 100, Add</i>	4.72
		<i>For >100 To 500, Add</i>	1.29
		<i>For >1,000 To 5,000, Deduct</i>	-0.70
		<i>For >5,000, Deduct</i>	-1.65
		<i>For Welded Wire Reinforcement, Add</i>	0.80
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	13.75
		<i>For Up To 100, Add</i>	5.43
		<i>For >100 To 500, Add</i>	1.49
		<i>For >1,000 To 5,000, Deduct</i>	-0.80
		<i>For >5,000, Deduct</i>	-1.88
		<i>For Welded Wire Reinforcement, Add</i>	0.80
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	14.64
		<i>For Up To 100, Add</i>	5.69
		<i>For >100 To 500, Add</i>	1.54
		<i>For >1,000 To 5,000, Deduct</i>	-0.81
		<i>For >5,000, Deduct</i>	-1.95
		<i>For Welded Wire Reinforcement, Add</i>	0.80
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	2.33
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk.....	140.09
		Note: Excludes patterned (tactile) finish.	

32 16 23 00-0009**Bituminous Sidewalk** (32 16 23)

Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.

32 16 23 00-0010	SY	1" Bituminous Sidewalk.....	9.02
		<i>For Up To 100, Add</i>	3.32
		<i>For >100 To 500, Add</i>	0.88
		<i>For >1,000 To 5,000, Deduct</i>	-0.43
		<i>For >5,000, Deduct</i>	-0.88
32 16 23 00-0011	SY	1-1/2" Bituminous Sidewalk	11.35
		<i>For Up To 100, Add</i>	4.11
		<i>For >100 To 500, Add</i>	1.08
		<i>For >1,000 To 5,000, Deduct</i>	-0.51
		<i>For >5,000, Deduct</i>	-1.08
32 16 23 00-0012	SY	2" Bituminous Sidewalk.....	15.85
		<i>For Up To 100, Add</i>	5.55
		<i>For >100 To 500, Add</i>	1.43
		<i>For >1,000 To 5,000, Deduct</i>	-0.63
		<i>For >5,000, Deduct</i>	-1.43
32 16 23 00-0013	SY	2-1/2" Bituminous Sidewalk	19.81
		<i>For Up To 100, Add</i>	6.91
		<i>For >100 To 500, Add</i>	1.77
		<i>For >1,000 To 5,000, Deduct</i>	-0.78
		<i>For >5,000, Deduct</i>	-1.77
32 16 23 00-0014	SY	3" Bituminous Sidewalk.....	22.87
		<i>For Up To 100, Add</i>	7.84
		<i>For >100 To 500, Add</i>	1.99
		<i>For >1,000 To 5,000, Deduct</i>	-0.85
		<i>For >5,000, Deduct</i>	-1.99
32 16 23 00-0015	SY	3-1/2" Bituminous Sidewalk	26.47
		<i>For Up To 100, Add</i>	8.96
		<i>For >100 To 500, Add</i>	2.26
		<i>For >1,000 To 5,000, Deduct</i>	-0.94
		<i>For >5,000, Deduct</i>	-2.26

32 16 43 Asphalt Dike (32 16)**32 16 43 00-0001****Asphalt Dike** (32 16 43)

32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.74
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height.....	9.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	9.27	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	13.28	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	15.73	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.51	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back.....	9.62	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	14.85	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.74	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.51	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	14.85	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back.....	9.62	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height.....	5.15	

32 17 Paving Specialties (32 10)

32 17 13 Parking Bumpers (32 17)

Note: Includes dowels set.

32 17 13 16 Plastic Parking Bumpers (32 17 13)

32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop	144.07	6.56
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop	163.00	6.56

32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)

32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels.....	40.45	19.76
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels.....	46.50	19.76
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels.....	47.28	19.76
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels.....	48.88	19.76
32 17 13 19-0005 EA 8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels.....	46.50	19.76
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels.....	55.31	19.76
32 17 13 19-0007 EA Removal And Relocation Of Precast Concrete Wheel Stop.....	31.62	
32 17 13 19-0008 EA Removal And Relocation Of Plastic Or Wood Wheel Stop.....	20.56	

32 17 13 23 Rubber Parking Bumpers (32 17 13)

32 17 13 23-0001 EA 3' Recycled Rubber Wheel Stop	27.27	6.56
32 17 13 23-0002 EA 4' Recycled Rubber Wheel Stop	31.65	6.56
32 17 13 23-0003 EA 5' Recycled Rubber Wheel Stop	33.41	6.56
32 17 13 23-0004 EA 6' Recycled Rubber Wheel Stop	36.04	6.56

32 17 13 26 Wood Parking Bumpers (32 17 13)

32 17 13 26-0001 LF 4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated.....	9.54	1.58
32 17 13 26-0002 LF 6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated.....	12.69	1.58

32 17 16 Manufactured Traffic-Calming Devices (32 17)

32 17 16 00-0001 Speed Bumps (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0002 LF 2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	35.67	1.69
32 17 16 00-0003 LF 3-1/2" High x 12" Wide, Asphalt Speed Bump	56.47	
Note: Excludes striping.		
32 17 16 00-0004 LF 2-1/4" High x 12" Wide, Recycled Rubber Speed Bump.....	26.44	1.12
32 17 16 00-0005 LF 2-5/8" High x 12" Wide, Recycled Plastic Speed Bump.....	92.30	1.12

32 17 16 00-0006 Modular Rubber Speed Tables (32 17 16)

Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0007 SF Up To 24' Road Width x 7' Run Modular Rubber Speed Table.....	57.37	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008 SF Up To 24' Road Width x 14' Run Modular Rubber Speed Table.....	50.11	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009 SF Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	46.98	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010 SF >24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	54.88	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0011 SF >24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	48.23	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0012 SF >24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	45.45	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0013 SF >30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	52.39	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0014 SF >30' To 40' Road Width x 14' Run Modular Rubber Speed Table.....	46.74	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0015 SF >30' To 40' Road Width x 21' Run Modular Rubber Speed Table.....	44.18	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0016 Asphalt Speed Table <small>(32 17 16)</small>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0017 LF Up to 36" Wide Asphalt Speed Table With 3" Center Crown	33.52	
Note: Tapered on edges to roadway.		
32 17 16 00-0018 LF >36" To 48" Wide Asphalt Speed Table With 3" Center Crown	39.60	
Note: Tapered on edges to roadway.		
32 17 16 00-0019 LF Up to 36" Wide Asphalt Speed Table With 4" Center Crown	42.16	
Note: Tapered on edges to roadway.		
32 17 16 00-0020 LF >36" To 48" Wide Asphalt Speed Table With 4" Center Crown	49.83	
Note: Tapered on edges to roadway.		
32 17 16 00-0021 LF Up to 36" Wide Asphalt Speed Table With 6" Center Crown	51.37	
Note: Tapered on edges to roadway.		
32 17 16 00-0022 LF >36" To 48" Wide Asphalt Speed Table With 6" Center Crown	57.45	
Note: Tapered on edges to roadway.		
32 17 16 00-0023 Concrete Speed Table <small>(32 17 16)</small>		
32 17 16 00-0024 SF Concrete Speed Table	14.83	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 23 Pavement Markings <small>(32 17)</small>		
See CSI section 01 55 26 00-0000 for temporary markings and removable line mask tape.		
32 17 23 13 Painted Pavement Markings <small>(32 17 23)</small>		
32 17 23 13-0001 Painted Pavement Striping, Letters, Symbols And Markers For Roads <small>(32 17 23 13)</small>		
Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
32 17 23 13-0002 Alkyd/Solvent Based/Latex Reflective Pavement Marking <small>(32 17 23 13-0001)</small>		
Note: 15 mil thickness.		
32 17 23 13-0003 LF Single 4" Wide Solid Line, Painted Reflective Pavement Striping	0.28	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.04	
For Broken Line, Deduct	-0.05	
32 17 23 13-0004 LF Single 6" Wide Solid Line, Painted Reflective Pavement Striping	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
For Broken Line, Deduct	-0.08	
32 17 23 13-0005 LF Single 8" Wide Solid Line, Painted Reflective Pavement Striping	0.46	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
For Broken Line, Deduct	-0.09	
32 17 23 13-0006 LF Single 12" Wide Solid Line, Painted Reflective Pavement Striping	0.62	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
For Broken Line, Deduct	-0.14	
32 17 23 13-0007 LF Double 4" Wide Solid Lines, Painted Reflective Pavement Striping	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.09	
32 17 23 13-0008 LF Double 6" Wide Solid Lines, Painted Reflective Pavement Striping	0.62	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
For Broken Line On One Side, Deduct	-0.07	
For Double Broken Line, Deduct	-0.14	
32 17 23 13-0009 SF Solid Area, Painted Reflective Pavement Striping	5.84	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0010 EA 6" High, Letter/Number, Alkyd Reflective Pavement Striping	4.21	
For <10, Add	0.58	
For >50 To 100, Deduct	-0.29	
For >100 To 200, Deduct	-0.39	
For >200, Deduct	-0.77	
32 17 23 13-0011 EA 12" High, Letter/Number, Alkyd Reflective Pavement Striping	7.09	
For <10, Add	0.88	
For >50 To 100, Deduct	-0.44	
For >100 To 200, Deduct	-0.59	
For >200, Deduct	-1.17	
32 17 23 13-0012 EA 24" High, Letter/Number, Alkyd Reflective Pavement Striping	11.88	
For <10, Add	1.46	
For >50 To 100, Deduct	-0.73	
For >100 To 200, Deduct	-0.97	
For >200, Deduct	-1.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0013 EA 36" High, Letter/Number, Alkyd Reflective Pavement Striping.....	23.23	
<i>For <10, Add</i>	2.91	
<i>For >50 To 100, Deduct</i>	-1.46	
<i>For >100 To 200, Deduct</i>	-1.94	
<i>For >200, Deduct</i>	-3.89	
32 17 23 13-0014 EA 48" High, Letter/Number, Alkyd Reflective Pavement Striping.....	26.75	
<i>For <10, Add</i>	3.27	
<i>For >50 To 100, Deduct</i>	-1.64	
<i>For >100 To 200, Deduct</i>	-2.18	
<i>For >200, Deduct</i>	-4.36	
32 17 23 13-0015 EA 72" High, Letter/Number, Alkyd Reflective Pavement Striping.....	47.81	
<i>For <10, Add</i>	5.82	
<i>For >50 To 100, Deduct</i>	-2.91	
<i>For >100 To 200, Deduct</i>	-3.88	
<i>For >200, Deduct</i>	-7.75	
32 17 23 13-0016 EA 96" High, Letter/Number, Alkyd Reflective Pavement Striping.....	63.96	
<i>For <10, Add</i>	7.81	
<i>For >50 To 100, Deduct</i>	-3.91	
<i>For >100 To 200, Deduct</i>	-5.21	
<i>For >200, Deduct</i>	-10.41	
32 17 23 13-0017 EA 120" High, Letter/Number, Alkyd Reflective Pavement Striping.....	91.05	
<i>For <10, Add</i>	9.68	
<i>For >50 To 100, Deduct</i>	-4.84	
<i>For >100 To 200, Deduct</i>	-6.45	
<i>For >200, Deduct</i>	-12.90	
32 17 23 13-0018 SF Letter/Number, Painted Reflective Pavement Marking	6.71	
32 17 23 13-0019 SF Symbols, Painted Reflective Pavement Marking	8.03	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0020 Painted Reflective Pavement Marking (CALTRANS) <small>(32 17 23 13-0001)</small>		
Note: Per LF of detail.		
32 17 23 13-0021 LF CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.24	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0022 LF CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.35	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0023 LF CALTRANS Detail 4 Centerline	0.60	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0024 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.24	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0025 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.35	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0026 LF CALTRANS Detail 7 Centerline	0.44	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0027 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.24	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0028 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.35	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0029 LF CALTRANS Detail 10 Lanelines	0.60	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0030 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.24	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0031 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.34	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0032 LF CALTRANS Detail 13 Lanelines	0.44	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0033 LF CALTRANS Detail 14 Lanelines	0.44	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0034 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping.....	0.34	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0035 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.31	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.05	
<i>For Broken Line On One Side, Deduct</i>	-0.03	
<i>For Double Broken Line, Deduct</i>	-0.07	
32 17 23 13-0036 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.76	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0037 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines.....	1.77	
<i>For Up To 5,000 LF, Add</i>	0.35	
<i>For >25,000 LF, Deduct</i>	-0.27	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0038	LF		CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.31	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.05	
			<i>For Broken Line On One Side, Deduct</i>	-0.03	
			<i>For Double Broken Line, Deduct</i>	-0.07	
32 17 23 13-0039	LF		CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.64	
			<i>For Up To 5,000 LF, Add</i>	0.13	
			<i>For >25,000 LF, Deduct</i>	-0.10	
32 17 23 13-0040	LF		CALTRANS Detail 20 No Passing Zones-One Direction Lanelines.....	1.49	
			<i>For Up To 5,000 LF, Add</i>	0.30	
			<i>For >25,000 LF, Deduct</i>	-0.22	
32 17 23 13-0041	LF		CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping.....	0.36	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For >25,000 LF, Deduct</i>	-0.05	
			<i>For Broken Line On One Side, Deduct</i>	-0.05	
			<i>For Double Broken Line, Deduct</i>	-0.11	
32 17 23 13-0042	LF		CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping.....	0.81	
			<i>For Up To 5,000 LF, Add</i>	0.16	
			<i>For >25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0043	LF		CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines.....	2.10	
			<i>For Up To 5,000 LF, Add</i>	0.42	
			<i>For >25,000 LF, Deduct</i>	-0.32	
32 17 23 13-0044	LF		CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping.....	0.29	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0045	LF		CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping.....	0.40	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For >25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0046	LF		CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping.....	0.51	
			<i>For Up To 5,000 LF, Add</i>	0.10	
			<i>For >25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0047	LF		CALTRANS Detail 26 Left Edgelines.....	0.11	
			<i>For Up To 5,000 LF, Add</i>	0.02	
			<i>For >25,000 LF, Deduct</i>	-0.02	
32 17 23 13-0048	LF		CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping.....	0.47	
			<i>For Up To 5,000 LF, Add</i>	0.09	
			<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0049	LF		CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping.....	0.29	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0050	LF		CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping.....	0.23	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0051	LF		CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping.....	0.73	
			<i>For Up To 5,000 LF, Add</i>	0.15	
			<i>For >25,000 LF, Deduct</i>	-0.11	
			<i>For Broken Line On One Side, Deduct</i>	-0.11	
			<i>For Double Broken Line, Deduct</i>	-0.22	
32 17 23 13-0052	LF		CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping.....	1.18	
			<i>For Up To 5,000 LF, Add</i>	0.24	
			<i>For >25,000 LF, Deduct</i>	-0.18	
32 17 23 13-0053	LF		CALTRANS Detail 30 Median Islands.....	4.21	
			<i>For Up To 5,000 LF, Add</i>	0.84	
			<i>For >25,000 LF, Deduct</i>	-0.63	
32 17 23 13-0054	LF		CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.62	
			<i>For Up To 5,000 LF, Add</i>	0.12	
			<i>For >25,000 LF, Deduct</i>	-0.09	
			<i>For Broken Line On One Side, Deduct</i>	-0.07	
			<i>For Double Broken Line, Deduct</i>	-0.14	
32 17 23 13-0055	LF		CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	1.18	
			<i>For Up To 5,000 LF, Add</i>	0.24	
			<i>For >25,000 LF, Deduct</i>	-0.18	
32 17 23 13-0056	LF		CALTRANS Detail 33 Two-Way Left Turn Lanes.....	2.88	
			<i>For Up To 5,000 LF, Add</i>	0.58	
			<i>For >25,000 LF, Deduct</i>	-0.43	
32 17 23 13-0057	LF		CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping.....	0.64	
			<i>For Up To 5,000 LF, Add</i>	0.13	
			<i>For >25,000 LF, Deduct</i>	-0.10	
32 17 23 13-0058	LF		CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.31	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0059	LF		CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping.....	0.76	
			<i>For Up To 5,000 LF, Add</i>	0.15	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0060	LF		CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.31	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0061	LF		CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping.....	1.38	
			<i>For Up To 5,000 LF, Add</i>	0.28	
			<i>For >25,000 LF, Deduct</i>	-0.21	
32 17 23 13-0062	LF		CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	0.91	
			<i>For Up To 5,000 LF, Add</i>	0.18	
			<i>For >25,000 LF, Deduct</i>	-0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0063 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	0.97	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0064 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.86	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0065 LF CALTRANS Detail 37A Lane Drop At Exit Ramps	1.42	
For Up To 5,000 LF, Add	0.28	
For >25,000 LF, Deduct	-0.21	
32 17 23 13-0066 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	0.86	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0067 LF CALTRANS Detail 37C Lane Drop At Intersections	1.42	
For Up To 5,000 LF, Add	0.28	
For >25,000 LF, Deduct	-0.21	
32 17 23 13-0068 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.82	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
32 17 23 13-0069 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.60	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0070 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	1.04	
For Up To 5,000 LF, Add	0.21	
For >25,000 LF, Deduct	-0.16	
32 17 23 13-0071 LF CALTRANS Detail 38C Channelizing Line	2.10	
For Up To 5,000 LF, Add	0.42	
For >25,000 LF, Deduct	-0.32	
32 17 23 13-0072 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.36	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0073 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.30	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0074 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.23	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.03	
32 17 23 13-0075 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.00	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0076 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.23	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.03	
32 17 23 13-0077 LF CALTRANS Detail 41A Center Line Extensions Through Intersections	1.00	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0078 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	106.77	
For <10, Add	14.15	
For >50 To 100, Deduct	-7.07	
For >100 To 200, Deduct	-9.43	
For >200, Deduct	-18.87	
32 17 23 13-0079 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	187.29	
For <10, Add	24.76	
For >50 To 100, Deduct	-12.38	
For >100 To 200, Deduct	-16.51	
For >200, Deduct	-33.02	
32 17 23 13-0080 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	235.07	
For <10, Add	31.13	
For >50 To 100, Deduct	-15.56	
For >100 To 200, Deduct	-20.75	
For >200, Deduct	-41.51	
32 17 23 13-0081 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	341.83	
For <10, Add	45.28	
For >50 To 100, Deduct	-22.64	
For >100 To 200, Deduct	-30.19	
For >200, Deduct	-60.37	
32 17 23 13-0082 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	448.61	
For <10, Add	59.43	
For >50 To 100, Deduct	-29.72	
For >100 To 200, Deduct	-39.62	
For >200, Deduct	-79.24	
32 17 23 13-0083 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	315.59	
For <10, Add	41.74	
For >50 To 100, Deduct	-20.87	
For >100 To 200, Deduct	-27.83	
For >200, Deduct	-55.66	
32 17 23 13-0084 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	550.66	
For <10, Add	72.87	
For >50 To 100, Deduct	-36.44	
For >100 To 200, Deduct	-48.58	
For >200, Deduct	-97.16	
32 17 23 13-0085 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	112.37	
For <10, Add	14.86	
For >50 To 100, Deduct	-7.43	
For >100 To 200, Deduct	-9.91	
For >200, Deduct	-19.81	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0086 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	246.27	
For <10, Add	32.54	
For >50 To 100, Deduct	-16.27	
For >100 To 200, Deduct	-21.70	
For >200, Deduct	-43.39	
32 17 23 13-0087 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	315.59	
For <10, Add	41.74	
For >50 To 100, Deduct	-20.87	
For >100 To 200, Deduct	-27.83	
For >200, Deduct	-55.66	
32 17 23 13-0088 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking.....	203.37	
For <10, Add	26.88	
For >50 To 100, Deduct	-13.44	
For >100 To 200, Deduct	-17.92	
For >200, Deduct	-35.85	
32 17 23 13-0089 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking.....	267.81	
For <10, Add	35.37	
For >50 To 100, Deduct	-17.69	
For >100 To 200, Deduct	-23.58	
For >200, Deduct	-47.17	
32 17 23 13-0090 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking.....	53.39	
For <10, Add	7.08	
For >50 To 100, Deduct	-3.54	
For >100 To 200, Deduct	-4.72	
For >200, Deduct	-9.43	
32 17 23 13-0091 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	510.26	
Note: Excludes variable width transverse lines.		
For <10, Add	67.21	
For >50 To 100, Deduct	-33.61	
For >100 To 200, Deduct	-44.81	
For >200, Deduct	-89.62	
32 17 23 13-0092 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	6.65	
32 17 23 13-0093 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	48.93	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.09	
For >50 To 100, Deduct	-2.55	
For >100 To 200, Deduct	-3.40	
For >200, Deduct	-6.79	
32 17 23 13-0094 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	51.84	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.38	
For >50 To 100, Deduct	-2.69	
For >100 To 200, Deduct	-3.59	
For >200, Deduct	-7.17	
32 17 23 13-0095 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	85.24	
For <10, Add	11.32	
For >50 To 100, Deduct	-5.66	
For >100 To 200, Deduct	-7.55	
For >200, Deduct	-15.09	
32 17 23 13-0096 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	173.25	
For <10, Add	22.92	
For >50 To 100, Deduct	-11.46	
For >100 To 200, Deduct	-15.28	
For >200, Deduct	-30.56	
32 17 23 13-0097 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	37.56	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.38	
For >50 To 100, Deduct	-2.69	
For >100 To 200, Deduct	-3.59	
For >200, Deduct	-7.17	
32 17 23 13-0098 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking.....	6.74	
32 17 23 13-0099 SF CALTRANS Symbols, Painted Reflective Pavement Marking.....	7.50	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0100 Epoxy Reflective Pavement Marking (32 17 23 13-0001)		
Note: 15 mil thickness.		
32 17 23 13-0101 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.51	
For 20 Mil Thickness, Add	0.11	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.08	
For Broken Line, Deduct	-0.22	
32 17 23 13-0102 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.70	
For 20 Mil Thickness, Add	0.16	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
For Broken Line, Deduct	-0.32	
32 17 23 13-0103 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.86	
For 20 Mil Thickness, Add	0.19	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
For Broken Line, Deduct	-0.39	



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Paving Specialties	32 17

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0104 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.29	
<i>For 20 Mil Thickness, Add</i>	0.31	
<i>For Up To 5,000 LF, Add</i>	0.26	
<i>For >25,000 LF, Deduct</i>	-0.19	
<i>For Broken Line, Deduct</i>	-0.64	
32 17 23 13-0105 LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.79	
<i>For 20 Mil Thickness, Add</i>	0.20	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For >25,000 LF, Deduct</i>	-0.12	
<i>For Broken Line On One Side, Deduct</i>	-0.21	
<i>For Double Broken Line, Deduct</i>	-0.43	
32 17 23 13-0106 LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.12	
<i>For 20 Mil Thickness, Add</i>	0.30	
<i>For Up To 5,000 LF, Add</i>	0.22	
<i>For >25,000 LF, Deduct</i>	-0.17	
<i>For Broken Line On One Side, Deduct</i>	-0.32	
<i>For Double Broken Line, Deduct</i>	-0.64	
32 17 23 13-0107 SF Solid Area, Epoxy Reflective Pavement Marking.....	7.18	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
<i>For 20 Mil Thickness, Add</i>	0.79	
32 17 23 13-0108 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	4.48	
<i>For 20 Mil Thickness, Add</i>	0.40	
<i>For <10, Add</i>	0.58	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 200, Deduct</i>	-0.39	
<i>For >200, Deduct</i>	-0.77	
32 17 23 13-0109 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	8.05	
<i>For 20 Mil Thickness, Add</i>	1.03	
<i>For <10, Add</i>	0.88	
<i>For >50 To 100, Deduct</i>	-0.44	
<i>For >100 To 200, Deduct</i>	-0.59	
<i>For >200, Deduct</i>	-1.17	
32 17 23 13-0110 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	13.57	
<i>For 20 Mil Thickness, Add</i>	1.77	
<i>For <10, Add</i>	1.46	
<i>For >50 To 100, Deduct</i>	-0.73	
<i>For >100 To 200, Deduct</i>	-0.97	
<i>For >200, Deduct</i>	-1.94	
32 17 23 13-0111 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	26.20	
<i>For 20 Mil Thickness, Add</i>	3.23	
<i>For <10, Add</i>	2.91	
<i>For >50 To 100, Deduct</i>	-1.46	
<i>For >100 To 200, Deduct</i>	-1.94	
<i>For >200, Deduct</i>	-3.89	
32 17 23 13-0112 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	30.60	
<i>For 20 Mil Thickness, Add</i>	4.02	
<i>For <10, Add</i>	3.27	
<i>For >50 To 100, Deduct</i>	-1.64	
<i>For >100 To 200, Deduct</i>	-2.18	
<i>For >200, Deduct</i>	-4.36	
32 17 23 13-0113 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	54.85	
<i>For 20 Mil Thickness, Add</i>	7.30	
<i>For <10, Add</i>	5.82	
<i>For >50 To 100, Deduct</i>	-2.91	
<i>For >100 To 200, Deduct</i>	-3.88	
<i>For >200, Deduct</i>	-7.75	
32 17 23 13-0114 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	73.23	
<i>For 20 Mil Thickness, Add</i>	9.66	
<i>For <10, Add</i>	7.81	
<i>For >50 To 100, Deduct</i>	-3.91	
<i>For >100 To 200, Deduct</i>	-5.21	
<i>For >200, Deduct</i>	-10.41	
32 17 23 13-0115 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	111.75	
<i>For 20 Mil Thickness, Add</i>	18.97	
<i>For <10, Add</i>	9.68	
<i>For >50 To 100, Deduct</i>	-4.84	
<i>For >100 To 200, Deduct</i>	-6.45	
<i>For >200, Deduct</i>	-12.90	
32 17 23 13-0116 SF Letter/Number, Epoxy Reflective Pavement Marking	7.37	
<i>For 20 Mil Thickness, Add</i>	0.80	
32 17 23 13-0117 SF Symbols, Epoxy Reflective Pavement Marking.....	9.35	
Note: Handicap, railroad, diamond, arrows, etc.		
<i>For 20 Mil Thickness, Add</i>	0.90	
32 17 23 13-0118 Painted Pavement Striping, Letters And Symbols For Parking Areas <small>(32 1723 13)</small>		
Note: Includes primers. Per Coat.		
32 17 23 13-0119 Painted Pavement Marking For Parking Areas <small>(32 1723 13-0118)</small>		
Note: 15 mil thickness.		
32 17 23 13-0120 LF Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.11	
32 17 23 13-0121 LF Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.21	
32 17 23 13-0122 LF Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.28	
32 17 23 13-0123 LF Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.44	
32 17 23 13-0124 SF Solid Area, Painted Pavement Marking For Parking Areas	5.81	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0125 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.10	
For Up To 10, Add	0.57	
For >50 To 100, Deduct	-0.28	
For >100 To 200, Deduct	-0.38	
For >200, Deduct	-0.75	
32 17 23 13-0126 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	6.85	
For Up To 10, Add	0.85	
For >50 To 100, Deduct	-0.42	
For >100 To 200, Deduct	-0.57	
For >200, Deduct	-1.13	
32 17 23 13-0127 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	11.52	
For Up To 10, Add	1.41	
For >50 To 100, Deduct	-0.71	
For >100 To 200, Deduct	-0.94	
For >200, Deduct	-1.89	
32 17 23 13-0128 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	21.60	
For Up To 10, Add	2.69	
For >50 To 100, Deduct	-1.34	
For >100 To 200, Deduct	-1.79	
For >200, Deduct	-3.58	
32 17 23 13-0129 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	28.76	
For Up To 10, Add	3.68	
For >50 To 100, Deduct	-1.84	
For >100 To 200, Deduct	-2.45	
For >200, Deduct	-4.91	
32 17 23 13-0130 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	34.97	
For Up To 10, Add	4.53	
For >50 To 100, Deduct	-2.26	
For >100 To 200, Deduct	-3.02	
For >200, Deduct	-6.04	
32 17 23 13-0131 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	46.46	
For Up To 10, Add	5.66	
For >50 To 100, Deduct	-2.83	
For >100 To 200, Deduct	-3.77	
For >200, Deduct	-7.55	
32 17 23 13-0132 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	81.02	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0133 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	91.77	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0134 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	128.44	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0135 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	130.92	
Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0136 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	169.19	
Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0137 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	33.79	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	23.96	
For Blue Background With White Symbol And Border, Add	29.96	
32 17 23 13-0138 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas.....	48.38	
Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	47.85	
For Blue Background With White Symbol And Border, Add	59.81	
32 17 23 13-0139 Painted Curbs (32 17 23 13)		
Note: All colors.		
32 17 23 13-0140 LF Reflective Painted Curb	3.09	
32 17 23 13-0141 LF Reflective Painted Curb And Gutter	5.84	
32 17 23 13-0142 LF Painted Curb.....	2.49	
32 17 23 13-0143 LF Painted Curb And Gutter.....	5.30	
32 17 23 13-0144 Markings For Outdoor Play Areas, Courts (32 17 23 13)		
32 17 23 13-0145 LF 2" Wide Marking For Outdoor Play Areas	0.88	
32 17 23 13-0146 LF 3" Wide Marking For Outdoor Play Areas	1.00	
32 17 23 13-0147 LF 4" Wide Marking For Outdoor Play Areas	1.12	
32 17 23 13-0148 LF 6" Wide Marking For Outdoor Play Areas	1.31	
32 17 23 13-0149 EA Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera).....	265.33	
32 17 23 13-0150 Painted Pavement Cycle Lane For Roads (32 17 23 13)		
32 17 23 13-0151 SF StreetBond or Ride-A-Way Pavement Coating For Cycle Lanes	4.44	
Note: 4-layer system with green bike lane colorant		
32 17 23 23 Raised Pavement Markings (32 17 23)		
32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM)	5.04	2.40
Note: Type G, H or R		
For >100, Deduct	-0.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 23-0003 EA Two-Way Reflective, Raised Pavement Marker (RPM) Note: Type B, C, D, AC, RA or RR	5.32	2.40
<i>For >100, Deduct</i>	-0.53	
32 17 23 23-0004 EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM) <i>For >100, Deduct</i>	5.92	2.40
<i>For >100, Deduct</i>	-0.59	
32 17 23 23-0005 EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) Note: Type A or AY	4.68	2.40
<i>For >100, Deduct</i>	-0.47	
32 17 23 23-0006 Snowplowable Pavement Markers <small>(32 17 23 23)</small>		
32 17 23 23-0007 EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail..... Note: Type G, H or R	64.30	28.23
32 17 23 23-0008 EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail..... Note: Type B, C, D, AC, RA or RR	64.54	28.23
32 17 23 23-0009 EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker.....	17.65	
32 17 23 23-0010 EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker.....	22.59	
32 17 23 33 Plastic Pavement Markings <small>(32 17 23)</small>		
32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads <small>(32 17 23 33)</small> Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002 Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small> Note: 90 mil thickness.		
32 17 23 33-0003 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping..... <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i> <i>For Broken Line, Deduct</i>	1.16 0.23 -0.17 -0.15 0.20 -0.65	
32 17 23 33-0004 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i> <i>For Broken Line, Deduct</i>	1.66 0.33 -0.25 -0.23 0.29 -0.98	
32 17 23 33-0005 LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i> <i>For Broken Line, Deduct</i>	2.19 0.44 -0.33 -0.30 0.39 -1.30	
32 17 23 33-0006 LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i> <i>For Broken Line, Deduct</i>	3.19 0.64 -0.48 -0.46 0.59 -1.95	
32 17 23 33-0007 LF Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i> <i>For Broken Line On One Side, Deduct</i> <i>For Double Broken Line, Deduct</i>	2.17 0.43 -0.33 -0.30 0.39 -0.65 -1.30	
32 17 23 33-0008 LF Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i> <i>For Broken Line On One Side, Deduct</i> <i>For Double Broken Line, Deduct</i>	3.19 0.64 -0.48 -0.46 0.59 -0.98 -1.95	
32 17 23 33-0009 SF Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking..... Note: Includes yellow or white. <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i>	8.24 -0.45 0.58	
32 17 23 33-0010 EA 6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking..... <i>For Up To 10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i>	5.55 0.64 -0.32 -0.43 -0.85 -0.23 0.29	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0011 EA 12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	11.12	
For Up To 10, Add	0.96	
For >50 To 100, Deduct	-0.48	
For >100 To 200, Deduct	-0.64	
For >200, Deduct	-1.28	
For 60 mils Thick, Deduct	-0.82	
For 125 mils Thick, Add	1.06	
32 17 23 33-0012 EA 24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	18.89	
For Up To 10, Add	1.60	
For >50 To 100, Deduct	-0.80	
For >100 To 200, Deduct	-1.07	
For >200, Deduct	-2.13	
For 60 mils Thick, Deduct	-1.44	
For 125 mils Thick, Add	1.85	
32 17 23 33-0013 EA 36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	35.89	
For Up To 10, Add	3.21	
For >50 To 100, Deduct	-1.61	
For >100 To 200, Deduct	-2.14	
For >200, Deduct	-4.28	
For 60 mils Thick, Deduct	-2.53	
For 125 mils Thick, Add	3.26	
32 17 23 33-0014 EA 48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	42.78	
For Up To 10, Add	3.59	
For >50 To 100, Deduct	-1.80	
For >100 To 200, Deduct	-2.40	
For >200, Deduct	-4.79	
For 60 mils Thick, Deduct	-3.29	
For 125 mils Thick, Add	4.23	
32 17 23 33-0015 EA 72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	77.03	
For Up To 10, Add	6.40	
For >50 To 100, Deduct	-3.20	
For >100 To 200, Deduct	-4.26	
For >200, Deduct	-8.53	
For 60 mils Thick, Deduct	-6.02	
For 125 mils Thick, Add	7.74	
32 17 23 33-0016 EA 96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	102.50	
For Up To 10, Add	8.59	
For >50 To 100, Deduct	-4.29	
For >100 To 200, Deduct	-5.73	
For >200, Deduct	-11.45	
For 60 mils Thick, Deduct	-7.92	
For 125 mils Thick, Add	10.18	
32 17 23 33-0017 EA 120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	171.93	
For Up To 10, Add	10.64	
For >50 To 100, Deduct	-5.32	
For >100 To 200, Deduct	-7.09	
For >200, Deduct	-14.19	
For 60 mils Thick, Deduct	-17.67	
For 125 mils Thick, Add	22.72	
32 17 23 33-0018 SF Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	9.67	
For 60 mils Thick, Deduct	-0.57	
For 125 mils Thick, Add	0.73	
32 17 23 33-0019 SY Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	29.39	
Note: Per SY of area.		
For 60 mils Thick, Deduct	-1.02	
For 125 mils Thick, Add	1.31	
32 17 23 33-0020 EA Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	255.00	
For 60 mils Thick, Deduct	-13.11	
For 125 mils Thick, Add	16.86	
32 17 23 33-0021 EA Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	756.28	
For 60 mils Thick, Deduct	-39.91	
For 125 mils Thick, Add	51.31	
32 17 23 33-0022 EA Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	140.94	
Note: Approximate overall dimensions: 4' width x 8' height.		
For 60 mils Thick, Deduct	-18.06	
For 125 mils Thick, Add	23.22	
32 17 23 33-0023 EA Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	121.96	
For 60 mils Thick, Deduct	-6.27	
For 125 mils Thick, Add	8.06	
32 17 23 33-0024 SF Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	11.09	
Note: Handicap, railroad, diamond, arrows, etc.		
For 60 mils Thick, Deduct	-0.57	
For 125 mils Thick, Add	0.73	
32 17 23 33-0025 EA 10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	155.22	
For 60 mils Thick, Deduct	-7.98	
For 125 mils Thick, Add	10.26	
32 17 23 33-0026 EA 18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	277.18	
For 60 mils Thick, Deduct	-14.25	
For 125 mils Thick, Add	18.32	
32 17 23 33-0027 EA 24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	343.71	
For 60 mils Thick, Deduct	-17.67	
For 125 mils Thick, Add	22.72	
32 17 23 33-0028 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	498.92	
For 60 mils Thick, Deduct	-25.65	
For 125 mils Thick, Add	32.98	



Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0029 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	654.15	
<i>For 60 mils Thick, Deduct</i>	-33.64	
<i>For 125 mils Thick, Add</i>	43.25	
32 17 23 33-0030 EA 24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	465.66	
<i>For 60 mils Thick, Deduct</i>	-23.94	
<i>For 125 mils Thick, Add</i>	30.78	
32 17 23 33-0031 EA 24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	809.35	
<i>For 60 mils Thick, Deduct</i>	-41.62	
<i>For 125 mils Thick, Add</i>	53.51	
32 17 23 33-0032 EA 8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	166.31	
<i>For 60 mils Thick, Deduct</i>	-8.55	
<i>For 125 mils Thick, Add</i>	10.99	
32 17 23 33-0033 EA 24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	365.87	
<i>For 60 mils Thick, Deduct</i>	-18.81	
<i>For 125 mils Thick, Add</i>	24.19	
32 17 23 33-0034 EA 18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	465.66	
<i>For 60 mils Thick, Deduct</i>	-23.94	
<i>For 125 mils Thick, Add</i>	30.78	
32 17 23 33-0035 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	299.36	
<i>For 60 mils Thick, Deduct</i>	-15.39	
<i>For 125 mils Thick, Add</i>	19.79	
32 17 23 33-0036 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	399.13	
<i>For 60 mils Thick, Deduct</i>	-20.52	
<i>For 125 mils Thick, Add</i>	26.39	
32 17 23 33-0037 EA 5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	77.61	
<i>For 60 mils Thick, Deduct</i>	-3.99	
<i>For 125 mils Thick, Add</i>	5.13	
32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs <small>(32 17 23 33-0001)</small>		
32 17 23 33-0039 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	2.86	
<i>For 60 mils Thick, Deduct</i>	-0.15	
<i>For 125 mils Thick, Add</i>	0.20	
32 17 23 33-0040 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	3.57	
<i>For 60 mils Thick, Deduct</i>	-0.23	
<i>For 125 mils Thick, Add</i>	0.29	
32 17 23 33-0041 LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	4.38	
<i>For 60 mils Thick, Deduct</i>	-0.30	
<i>For 125 mils Thick, Add</i>	0.39	
32 17 23 33-0042 LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	6.27	
<i>For 60 mils Thick, Deduct</i>	-0.46	
<i>For 125 mils Thick, Add</i>	0.59	
32 17 23 33-0043 LF Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	11.16	
<i>For 60 mils Thick, Deduct</i>	-0.91	
<i>For 125 mils Thick, Add</i>	1.17	
32 17 23 33-0044 Preformed, Patterned Reflective Pavement Marking Tape <small>(32 17 23 33-0001)</small>		
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0045 LF Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	2.42	
Note: Includes yellow or white.		
<i>For Up To 5,000 LF, Add</i>	0.48	
<i>For >25,000 LF, Deduct</i>	-0.36	
32 17 23 33-0046 LF Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	3.58	
Note: Includes yellow or white.		
<i>For Up To 5,000 LF, Add</i>	0.72	
<i>For >25,000 LF, Deduct</i>	-0.54	
32 17 23 33-0047 LF Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	4.76	
Note: Includes yellow or white.		
<i>For Up To 5,000 LF, Add</i>	0.95	
<i>For >25,000 LF, Deduct</i>	-0.71	
32 17 23 33-0048 LF Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	7.03	
Note: Includes yellow or white.		
<i>For Up To 5,000 LF, Add</i>	1.41	
<i>For >25,000 LF, Deduct</i>	-1.05	
32 17 23 33-0049 SF Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape.....	20.45	
Note: Includes yellow or white.		
32 17 23 33-0050 EA 6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	30.22	
<i>For <10, Add</i>	1.16	
<i>For >50 To 100, Deduct</i>	-0.58	
<i>For >100 To 200, Deduct</i>	-0.77	
<i>For >200, Deduct</i>	-1.55	
32 17 23 33-0051 EA 12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	52.61	
<i>For <10, Add</i>	1.47	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100 To 200, Deduct</i>	-0.98	
<i>For >200, Deduct</i>	-1.96	
32 17 23 33-0052 EA 24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	90.89	
<i>For <10, Add</i>	2.91	
<i>For >50 To 100, Deduct</i>	-1.46	
<i>For >100 To 200, Deduct</i>	-1.94	
<i>For >200, Deduct</i>	-3.89	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0053 EA 36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	133.33	
For <10, Add	5.83	
For >50 To 100, Deduct	-2.92	
For >100 To 200, Deduct	-3.89	
For >200, Deduct	-7.77	
32 17 23 33-0054 EA 48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	155.89	
For <10, Add	6.54	
For >50 To 100, Deduct	-3.27	
For >100 To 200, Deduct	-4.36	
For >200, Deduct	-8.72	
32 17 23 33-0055 EA 72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	203.79	
For <10, Add	11.63	
For >50 To 100, Deduct	-5.82	
For >100 To 200, Deduct	-7.76	
For >200, Deduct	-15.51	
32 17 23 33-0056 EA 96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	260.85	
For <10, Add	15.62	
For >50 To 100, Deduct	-7.81	
For >100 To 200, Deduct	-10.41	
For >200, Deduct	-20.83	
32 17 23 33-0057 EA 120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	326.68	
For <10, Add	19.36	
For >50 To 100, Deduct	-9.68	
For >100 To 200, Deduct	-12.91	
For >200, Deduct	-25.81	
32 17 23 33-0058 SF Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	21.20	
32 17 23 33-0059 SF Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	22.62	
Note: Handicap, railroad, diamond symbol, etc.		
32 17 23 33-0060 Preformed, Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small>		
Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0061 EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	236.93	
Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0062 EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	626.15	
Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0063 EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	135.04	
Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0064 EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	118.42	
Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0065 EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	213.36	
Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0066 EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	133.94	
Note: Approximate overall dimensions: 3' width x 4' height.		
32 17 23 33-0067 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	235.26	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0068 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	389.27	
Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0069 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	576.00	
Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0070 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	222.60	
Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0071 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	244.50	
Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0072 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	432.42	
Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0073 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	399.64	
Note: Approximate overall dimensions: 3-1/2' width x 20' height.		
32 17 23 33-0074 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	402.47	
Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0075 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	540.48	
Note: Approximate overall dimensions: 5-1/2' width x 18' height.		
32 17 23 33-0076 EA 4' x 7' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	323.56	
Note: Lightgreen or black background color with white symbol.		
32 17 23 33-0077 EA 4' x 10' Preformed Shared Bike Lane Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	460.20	
Note: Lightgreen or black background color with white symbol.		
32 17 23 33-0078 EA 4' x 20' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	920.42	
Note: Lightgreen background color with white symbol.		
32 17 23 33-0079 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas		
<small>(32 17 23 33)</small>		
32 17 23 33-0080 Thermoplastic Pavement Marking Symbols For Parking Areas <small>(32 17 23 33-0079)</small>		
Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	85.20	
Note: White or blue symbol. Excludes striping.		
32 17 23 33-0082 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	294.78	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
32 17 23 33-0083 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	172.02	
Note: White symbol on blue background. Excludes striping.		



Exterior Improvements	32	32
Bases, Ballasts, and Paving	32 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0084 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	205.02	
Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0085 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	214.60	
Note: White symbol on blue background. Excludes striping.		
32 17 26 Tactile Warning Surfaces (32 17)		
32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26)		
Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface.....	61.20	9.33
Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.		
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface.....	49.08	9.33
Note: Also raised strips or directional bars. All colors.		
32 17 26 00-0004 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26)		
Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0005 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	68.83	9.33
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 17 26 00-0006 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	60.45	9.33
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 18 Athletic and Recreational Surfacing (32 18)		
32 18 16 Synthetic Resilient Surfacing (32 18)		
32 18 16 13 Playground Protective Surfacing (32 18 16)		
32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13)		
Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile Playground Surfacing.....	17.44	2.17
For Manufacturer's Standard Colors, Add	0.99	
For Interlocking Tiles, Add	2.19	
For Mechanically Fastened, Add	1.70	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile Playground Surfacing.....	17.86	2.30
For Manufacturer's Standard Colors, Add	0.99	
For Interlocking Tiles, Add	2.19	
For Mechanically Fastened, Add	1.78	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0004 SF 2-1/4" Thick, Resilient Rubber Tile Playground Surfacing.....	18.67	2.56
For Manufacturer's Standard Colors, Add	0.99	
For Interlocking Tiles, Add	2.19	
For Mechanically Fastened, Add	1.94	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005 SF 2-1/2" Thick, Resilient Rubber Tile Playground Surfacing.....	19.48	2.84
For Manufacturer's Standard Colors, Add	0.99	
For Interlocking Tiles, Add	2.19	
For Mechanically Fastened, Add	2.11	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0006 SF 2-3/4" Thick, Resilient Rubber Tile Playground Surfacing.....	21.70	3.11
For Manufacturer's Standard Colors, Add	0.74	
For Interlocking Tiles, Add	2.47	
For Mechanically Fastened, Add	2.27	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0007 SF 3" Thick, Resilient Rubber Tile Playground Surfacing.....	22.61	3.41
For Manufacturer's Standard Colors, Add	0.74	
For Interlocking Tiles, Add	2.47	
For Mechanically Fastened, Add	2.45	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0008 SF 3-1/4" Thick, Resilient Rubber Tile Playground Surfacing.....	23.54	3.72
For Manufacturer's Standard Colors, Add	0.74	
For Interlocking Tiles, Add	2.47	
For Mechanically Fastened, Add	2.63	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0009 SF 3-1/2" Thick, Resilient Rubber Tile Playground Surfacing.....	25.83	3.98
For Manufacturer's Standard Colors, Add	0.41	
For Interlocking Tiles, Add	2.76	
For Mechanically Fastened, Add	2.80	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile Playground Surfacing.....	26.64	4.30
For Manufacturer's Standard Colors, Add	0.41	
For Interlocking Tiles, Add	2.76	
For Mechanically Fastened, Add	2.97	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0011	SF		4" Thick, Resilient Rubber Tile Playground Surfacing.....	27.53	4.54
			<i>For Manufacturer's Standard Colors, Add</i>	0.41	
			<i>For Interlocking Tiles, Add</i>	2.76	
			<i>For Mechanically Fastened, Add</i>	3.14	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0012	SF		4-1/2" Thick, Resilient Rubber Tile Playground Surfacing.....	31.62	5.11
			<i>For Manufacturer's Standard Colors, Add</i>	0.40	
			<i>For Interlocking Tiles, Add</i>	3.24	
			<i>For Mechanically Fastened, Add</i>	3.49	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0013			Loose Laid Playground Surface Material <small>(32 18 16 13)</small>		
			Note: Excludes sub base.		
32 18 16 13-0014	SF		3" Loose Laid Wood Fiber Safety Playground Surfacing	1.42	0.32
32 18 16 13-0015	SF		6" Loose Laid Wood Fiber Safety Playground Surfacing	1.88	0.40
32 18 16 13-0016	SF		9" Loose Laid Wood Fiber Safety Playground Surfacing	2.37	0.49
32 18 16 13-0017	SF		12" Loose Laid Wood Fiber Safety Playground Surfacing	3.34	0.73
32 18 16 13-0018	SF		3" Loose Laid Synthetic Fiber Safety Playground Surfacing	2.82	0.32
32 18 16 13-0019	SF		6" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.49	0.40
32 18 16 13-0020	SF		9" Loose Laid Synthetic Fiber Safety Playground Surfacing	5.52	0.49
32 18 16 13-0021	SF		12" Loose Laid Synthetic Fiber Safety Playground Surfacing	6.78	0.73
32 18 16 13-0022	SF		8" FIBAR System Playground Surfacing	7.95	1.21
			Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023	SF		12" FIBAR System Playground Surfacing	10.19	1.63
			Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
32 18 16 13-0024			Poured In Place Playground Surfacing <small>(32 18 16 13)</small>		
			Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025	SF		1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing	14.53	2.46
			<i>For Up To 2,000, Add</i>	3.22	
			<i>For >2,000 To 3,000, Add</i>	2.26	
			<i>For >3,000 To 4,000, Add</i>	1.54	
			<i>For >4,000 To 5,000, Add</i>	0.98	
			<i>For >5,000 To 7,000, Add</i>	0.40	
			<i>For Aliphatic (Non Yellowing) Binder, Add</i>	3.43	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.46	
32 18 16 13-0026	SF		2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing	14.99	2.73
			<i>For Up To 2,000, Add</i>	3.32	
			<i>For >2,000 To 3,000, Add</i>	2.33	
			<i>For >3,000 To 4,000, Add</i>	1.58	
			<i>For >4,000 To 5,000, Add</i>	1.01	
			<i>For >5,000 To 7,000, Add</i>	0.42	
			<i>For Aliphatic (Non Yellowing) Binder, Add</i>	3.43	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.46	
32 18 16 13-0027	SF		2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing	16.18	3.12
			<i>For Up To 2,000, Add</i>	3.59	
			<i>For >2,000 To 3,000, Add</i>	2.52	
			<i>For >3,000 To 4,000, Add</i>	1.71	
			<i>For >4,000 To 5,000, Add</i>	1.09	
			<i>For >5,000 To 7,000, Add</i>	0.45	
			<i>For Aliphatic (Non Yellowing) Binder, Add</i>	3.43	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.46	
32 18 16 13-0028	SF		3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing	17.48	3.32
			<i>For Up To 2,000, Add</i>	3.88	
			<i>For >2,000 To 3,000, Add</i>	2.72	
			<i>For >3,000 To 4,000, Add</i>	1.85	
			<i>For >4,000 To 5,000, Add</i>	1.18	
			<i>For >5,000 To 7,000, Add</i>	0.49	
			<i>For Aliphatic (Non Yellowing) Binder, Add</i>	3.43	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.46	
32 18 16 13-0029	SF		3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing	18.76	3.50
			<i>For Up To 2,000, Add</i>	4.16	
			<i>For >2,000 To 3,000, Add</i>	2.92	
			<i>For >3,000 To 4,000, Add</i>	1.98	
			<i>For >4,000 To 5,000, Add</i>	1.26	
			<i>For >5,000 To 7,000, Add</i>	0.52	
			<i>For Aliphatic (Non Yellowing) Binder, Add</i>	3.43	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.46	
32 18 16 13-0030	SF		4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing	19.86	3.70
			<i>For Up To 2,000, Add</i>	4.40	
			<i>For >2,000 To 3,000, Add</i>	3.09	
			<i>For >3,000 To 4,000, Add</i>	2.10	
			<i>For >4,000 To 5,000, Add</i>	1.34	
			<i>For >5,000 To 7,000, Add</i>	0.55	
			<i>For Aliphatic (Non Yellowing) Binder, Add</i>	3.43	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.46	



		Exterior Improvements	32
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		Athletic and Recreational Surfacing	32 18

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0031 SF 4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	21.16	3.90
For Up To 2,000, Add	4.69	
For >2,000 To 3,000, Add	3.30	
For >3,000 To 4,000, Add	2.24	
For >4,000 To 5,000, Add	1.43	
For >5,000 To 7,000, Add	0.59	
For Aliphatic (Non Yellowing) Binder, Add	3.43	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.46	
32 18 16 13-0032 SF 5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	23.73	4.37
For Up To 2,000, Add	5.26	
For >2,000 To 3,000, Add	3.70	
For >3,000 To 4,000, Add	2.51	
For >4,000 To 5,000, Add	1.60	
For >5,000 To 7,000, Add	0.66	
For Aliphatic (Non Yellowing) Binder, Add	3.43	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.46	
32 18 16 13-0033 SF 1/2" Top Only, Poured In Place Playground Surfacing	9.49	
Note: Not used with new surfacing system tasks.		
For Up To 2,000, Add	3.21	
For >2,000 To 3,000, Add	2.07	
For >3,000 To 4,000, Add	1.25	
For >4,000 To 5,000, Add	0.76	
For >5,000 To 7,000, Add	0.34	
For Aliphatic (Non Yellowing) Binder, Add	3.43	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.46	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing	2,427.73	
32 18 16 13-0035 Synthetic Playground Turf (Sporturf) (32 18 16 13)		
Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929)	8.63	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906)	7.61	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf)	4.93	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf)	47.89	
32 18 23 Athletic Surfacing (32 18)		
32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)		
32 18 23 29-0001 Synthetic Field Sport Surfacing (32 18 23 29)		
32 18 23 29-0002 Synthetic Turf (AstroTurf) (32 18 23 29-0001)		
Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0003 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)		
32 18 23 29-0004 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)		
32 18 23 29-0005 SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	6.82	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0006 EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	22,010.26	
32 18 23 29-0007 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	17,940.44	
32 18 23 29-0008 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	5,398.74	
Note: Per sport.		
32 18 23 29-0009 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	1,993.38	
Note: Per letter. Excludes outline.		
32 18 23 29-0010 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields.....	1,910.32	
Note: Per endzone.		
32 18 23 29-0011 EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	16,611.52	
Note: Block letter.		
32 18 23 29-0012 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	24,086.70	
Note: Graphic.		
32 18 23 29-0013 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)		
32 18 23 29-0014 SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	7.82	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0015 EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	22,425.69	
32 18 23 29-0016 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	18,605.01	
32 18 23 29-0017 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	5,814.07	
Note: Per sport.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0018 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields Note: Per letter. Excludes outline.	2,159.51	
32 18 23 29-0019 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields..... Note: Per endzone.	1,993.39	
32 18 23 29-0020 EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields Note: Block letter.	17,442.20	
32 18 23 29-0021 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields Note: Graphic.	25,291.19	
32 18 23 29-0022 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)		
32 18 23 29-0023 SF 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	7.97	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0024 EA Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	22,840.98	
32 18 23 29-0025 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	20,100.06	
32 18 23 29-0026 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields..... Note: Per sport.	6,229.36	
32 18 23 29-0027 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields Note: Per letter. Excludes outline.	2,325.63	
32 18 23 29-0028 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields..... Note: Per endzone.	2,076.45	
32 18 23 29-0029 EA Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Block letter.	18,272.78	
32 18 23 29-0030 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Graphic.	26,495.53	
32 18 23 29-0031 Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)		
32 18 23 29-0032 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) (32 18 23 29-0031)		
32 18 23 29-0033 SF 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	8.91	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0034 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	23,671.42	
32 18 23 29-0035 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	25,249.51	
32 18 23 29-0036 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per sport.	7,059.90	
32 18 23 29-0037 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per letter. Excludes outline.	2,657.84	
32 18 23 29-0038 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per endzone.	2,242.56	
32 18 23 29-0039 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Block letter.	19,933.82	
32 18 23 29-0040 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Graphic.	28,904.04	
32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)		
32 18 23 29-0042 SF 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	9.21	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0043 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	24,086.70	
32 18 23 29-0044 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	28,073.47	
32 18 23 29-0045 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per sport.	7,475.18	
32 18 23 29-0046 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per letter. Excludes outline.	2,823.96	
32 18 23 29-0047 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per endzone.	2,325.61	
32 18 23 29-0048 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Block letter.	20,764.40	
32 18 23 29-0049 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Graphic.	30,108.38	
32 18 23 29-0050 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) (32 18 23 29-0031)		



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Athletic and Recreational Surfacing	32 18

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0051	SF		52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52).....	9.23	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0052	EA		Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	24,501.99	
32 18 23 29-0053	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	28,239.58	
32 18 23 29-0054	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	7,890.47	
			Note: Per sport.		
32 18 23 29-0055	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields.....	2,990.07	
			Note: Per letter. Excludes outline.		
32 18 23 29-0056	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields.....	2,408.67	
			Note: Per endzone.		
32 18 23 29-0057	EA		Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	21,594.98	
			Note: Block letter.		
32 18 23 29-0058	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	31,312.72	
			Note: Graphic.		
32 18 23 29-0059			60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) (32 18 23 29-0031)		
32 18 23 29-0060	SF		60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60).....	9.40	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0061	EA		Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	24,917.28	
32 18 23 29-0062	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	30,066.85	
32 18 23 29-0063	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	8,305.76	
			Note: Per sport.		
32 18 23 29-0064	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields.....	3,322.30	
			Note: Per letter. Excludes outline.		
32 18 23 29-0065	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields.....	2,491.73	
			Note: Per endzone.		
32 18 23 29-0066	EA		Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	22,425.55	
			Note: Block letter.		
32 18 23 29-0067	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	32,517.05	
			Note: Graphic.		
32 18 23 29-0068			Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)		
32 18 23 29-0069			38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)		
32 18 23 29-0070	SF		38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	7.52	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0071	EA		Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	21,179.82	
32 18 23 29-0072	EA		Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	15,614.92	
32 18 23 29-0073	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	4,568.20	
			Note: Per sport.		
32 18 23 29-0074	EA		Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,661.16	
			Note: Per letter. Excludes outline.		
32 18 23 29-0075	EA		Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,744.22	
			Note: Per endzone.		
32 18 23 29-0076	EA		Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	14,950.46	
			Note: Block letter.		
32 18 23 29-0077	EA		Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	21,678.16	
			Note: Graphic.		
32 18 23 29-0078			42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)		
32 18 23 29-0079	SF		42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	6.62	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0080	EA		Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	21,594.98	
32 18 23 29-0081	EA		Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	16,611.52	
32 18 23 29-0082	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	4,983.46	
			Note: Per sport.		
32 18 23 29-0083	EA		Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields.....	1,827.27	
			Note: Per letter. Excludes outline.		
32 18 23 29-0084	EA		Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields.....	1,827.27	
			Note: Per endzone.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0085 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Block letter.	15,780.94	
32 18 23 29-0086 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Graphic.	22,882.37	
32 18 23 29-0087 Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)		
32 18 23 29-0088 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	14.73	
32 18 23 29-0089 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	13.20	
32 18 23 29-0090 EA Football Markings For AstroTurf® PureGrass® Fields.....	40,983.51	
32 18 23 29-0091 EA Baseball Markings For AstroTurf® PureGrass® Fields.....	48,689.81	
32 18 23 29-0092 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields Note: Per sport.	11,909.74	
32 18 23 29-0093 EA Endzone Lettering For AstroTurf® PureGrass® Fields..... Note: Per letter. Excludes outline.	4,553.72	
32 18 23 29-0094 EA Colored Endzone For AstroTurf® PureGrass® Fields Note: Per endzone.	3,380.08	
32 18 23 29-0095 EA Simple Logo For AstroTurf® PureGrass® Fields..... Note: Block letter.	30,420.75	
32 18 23 29-0096 EA Deluxe Logo For AstroTurf® PureGrass® Fields..... Note: Graphic.	44,661.52	
32 18 23 29-0097 Synthetic Turf (G9 Turf) (32 18 23 29-0001)		
Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098 SF 2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.	8.17	
For >35,000, Deduct	-0.74	
32 18 23 29-0099 SF 2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf) Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.	8.10	
For >35,000, Deduct	-0.73	
32 18 23 29-0100 SF 1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf) Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.	8.45	
32 18 23 29-0101 EA Football Inlays For G9 Synthetic Turf..... Note: Includes field grid, numbers, arrows, coach's box and kick off lines.	56,657.42	
32 18 23 29-0102 EA Soccer Inlays For G9 Synthetic Turf	24,551.55	
32 18 23 29-0103 EA Boys Lacrosse Inlays For G9 Synthetic Turf.....	24,551.55	
32 18 23 29-0104 EA Girls Lacrosse Inlays For G9 Synthetic Turf	24,551.55	
32 18 23 29-0105 EA Field Hockey Inlays For G9 Synthetic Turf.....	24,551.55	
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf..... Note: Priced per letter. Includes single color outlining.	2,832.87	
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf	2.65	
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	6.93	
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf	1.98	
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf.....	1.00	
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf.....	1.64	
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf Note: Includes a comprehensive report.	1,888.58	
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf	18,885.81	
32 18 23 29-0114 SF Clean And Groom Synthetic Turf..... Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.	0.62	
For >10,000 To 30,000, Deduct	-0.25	
For >30,000 To 60,000, Deduct	-0.43	
For >60,000, Deduct	-0.47	
32 18 23 29-0115 SF Rejuvenate Synthetic Turf And Reinstall Existing Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.	4.23	
32 18 23 29-0116 SF Rejuvenate Synthetic Turf For Installation Of New Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.	4.70	
32 18 23 29-0117 SF Drainage Layer For G9 Synthetic Turf Note: Used for drainage over asphalt or on roof tops.	3.86	
32 18 23 29-0118 SF 15 mm, Shock Pad For G9 Synthetic Turf	2.37	
Note: Used for additional Gmax for a stone base field.		
32 18 23 29-0119 EA Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf Note: Includes field inspection and report.	3,763.80	
32 18 23 29-0120 LF Repair Inlay Lines Or Seams On G9 Synthetic Turf..... Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.	10.35	
32 18 23 29-0121 LF Nailer Used To Attach G9 Synthetic Turf.....	4.14	
32 18 23 29-0122 SF Removal And Recycling Of Existing Field..... Note: Includes removal, shipping and recycling of infill, fibers and backing.	2.92	

32 18 23 33 Running Track Surfacing (32 18 23)**32 18 23 33-0001 Running Track Surfacing (32 18 23 33)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 33-0002 SY 2-1/2" Asphaltic Concrete Running Track Surfacing.....	31.28	
32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)		
32 18 23 33-0004 SY 1 Seal Coat, Striping Of Track.....	17.85	
Note: Includes certification.		
32 18 23 39 Synthetic Running Track Surfacing (32 18 23)		
32 18 23 39-0001 Synthetic Running Track Surfacing (XPLODE™) And Striping (32 18 23 39)		
Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.		
32 18 23 39-0002 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100).....	59.22	6.17
For Up To 4,000, Add	20.73	
For >5,500, Deduct	-6.51	
32 18 23 39-0003 SY Paved-In-Place Ethylene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200).....	79.48	6.17
For Up To 4,000, Add	27.82	
For >5,500, Deduct	-8.74	
For Custom Color Upgrade, Add	7.55	
For Aliphatic Top Coating, Add	14.31	
32 18 23 39-0004 SY Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500).....	133.58	6.17
For Up To 4,000, Add	46.75	
For >5,500, Deduct	-8.01	
For Custom Color Upgrade, Add	10.29	
For Aliphatic Top Coating, Add	19.10	
32 18 23 39-0005 SY Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000).....	172.54	6.17
For Up To 4,000, Add	60.39	
For >5,500, Deduct	-10.35	
For Custom Color Upgrade, Add	13.46	
For Aliphatic Top Coating, Add	19.67	
32 18 23 39-0006 SY Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning).....	53.95	
For Up To 4,000, Add	18.88	
For >5,500, Deduct	-5.93	
32 18 23 39-0007 SY Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	60.72	
For Up To 4,000, Add	21.25	
For >5,500, Deduct	-8.80	
32 18 23 39-0008 SY Spray Retop XPLODE™ M100/MS200 Running Tracks.....	53.34	
For Up To 4,000, Add	18.67	
For >5,500, Deduct	-5.22	
32 18 23 39-0009 SY Sandwich Retop XPLODE™ MSX500 Running Tracks.....	103.24	
For Up To 4,000, Add	36.13	
For >5,500, Deduct	-10.88	
32 18 23 39-0010 SY Retop XPLODE™ Plexitrac® Lightning Running Tracks.....	30.03	
Note: Two layers.		
For Up To 4,000, Add	10.51	
For >5,500, Deduct	-4.97	
32 18 23 39-0011 SY Retop XPLODE™ Plexitrac® Accelerator Running Tracks.....	36.56	
Note: Two layers.		
For Up To 4,000, Add	12.80	
For >5,500, Deduct	-4.96	
32 18 23 39-0012 EA Restripe XPLODE™ Running Track.....	12,413.50	
Note: Includes two coats of acrylic resurfacer and two coats of color.		
For College Track Restriping, Add	2,257.00	
32 18 23 53 Tennis Court Surfacing (32 18 23)		
32 18 23 53-0001 Tennis Court Surfacing (32 18 23 53)		
See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002 SY Tennis Court Bituminous Pavement, 2-1/2" Thick.....	33.58	
32 18 23 53-0003 Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004 EA Paint Markings On Asphalt Tennis Court 2 Coats.....	498.53	
32 18 23 56 Natural Tennis Court Surfacing (32 18 23)		
32 18 23 56-0001 SY Clay Tennis Court.....	46.63	
32 18 23 56-0002 SY Tennis Court, Pulverized Natural Greenstone, Fast Dry.....	51.89	
Note: Includes 4" base.		
32 18 23 56-0003 SY Tennis Court, Rubber-Cork Base Resilient Pavement.....	18.26	
32 18 23 56-0004 SY Resurface Clay Tennis Court.....	13.48	
32 18 23 56-0005 SY Resurface Tennis Court, Pulverized Natural Greenstone.....	11.41	
32 18 23 56-0006 SY Resurface Tennis Court, Resilient Pavement.....	7.69	
32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0001			100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002			Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY		100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	1.50	
32 18 23 61-0004	SY		Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat Note: For previously uncoated portland cement concrete. Applied with broom.	0.84	
32 18 23 61-0005	SY		Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.	2.18	
32 18 23 61-0006	SY		Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.	91.21	
32 18 23 61-0007			Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001) Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	3.36	
			For Pacific Blue, Add	0.20	
			For US Open Blue, Add	0.70	
32 18 23 61-0009	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.68	
			For Pacific Blue, Add	0.14	
			For US Open Blue, Add	0.50	
32 18 23 61-0010	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	2.31	
			For Pacific Blue, Add	0.11	
			For US Open Blue, Add	0.39	
32 18 23 61-0011	SY		Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	2.45	
			For Pacific Blue, Add	0.06	
			For US Open Or Australian Open Blue, Add	0.45	
			For Pro Purple, Add	1.18	
32 18 23 61-0012			Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0013	SY		Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®) Note: Textured or non-textured highly reflective line marking paint.	1.39	
32 18 23 61-0014			Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) (32 18 23 61-0001)		
32 18 23 61-0015	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat Note: Applied with rubber squeegee.	5.69	
32 18 23 61-0016	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat Note: Applied with rubber squeegee.	7.88	
32 18 23 61-0017	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat Note: Price per coat for third or additional coats. Applied with rubber squeegee.	6.73	
32 18 23 61-0018	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat Note: Applied with rubber squeegee.	4.96	
32 18 23 61-0019	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat Note: Price per coat for second or additional coats. Applied with rubber squeegee.	3.71	
32 18 23 61-0020			Resurface Athletic Court (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021	SY		Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster)	2.28	

32 30 Site Improvements (32)**32 31 Fences and Gates** (32 30)**32 31 11 Gate Operators** (32 31)



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0001 Gate Operators <small>(32 31 11)</small> Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002 Swing Gate Actuator (DKS™ DoorKing®) <small>(32 31 11 00-0001)</small>		
32 31 11 00-0003 Single Gate, Swing Gate Actuator <small>(32 31 11 00-0002)</small>		
32 31 11 00-0004 EA Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	1,537.94	197.29
Note: Includes one primary operator with a 10' wide gate capacity.		
32 31 11 00-0005 EA Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	2,033.41	197.29
Note: Includes one primary operator with a 14' wide gate capacity.		
32 31 11 00-0006 Dual Gate, Swing Gate Actuator <small>(32 31 11 00-0002)</small>		
32 31 11 00-0007 EA Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	3,075.90	394.56
Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.		
32 31 11 00-0008 EA Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	4,066.84	394.56
Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.		
32 31 11 00-0009 Swing Gate Operators (DKS™ DoorKing®) <small>(32 31 11 00-0001)</small>		
32 31 11 00-0010 Single Gate, Swing Gate Operators <small>(32 31 11 00-0009)</small>		
32 31 11 00-0011 EA 400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050)	3,087.86	197.29
Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.		
32 31 11 00-0012 EA 500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100)	3,354.65	197.29
Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.		
32 31 11 00-0013 EA 700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	4,536.15	197.29
Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.		
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0014 EA 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	5,133.25	197.29
Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.		
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0015 Dual Gate, Swing Gate Operators <small>(32 31 11 00-0009)</small>		
32 31 11 00-0016 EA 400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050)	5,477.01	394.56
Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.		
32 31 11 00-0017 EA 500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100)	6,010.59	394.56
Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.		
32 31 11 00-0018 EA 700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	8,360.87	394.56
Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.		
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0019 EA 800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	9,669.41	394.56
Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.		
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0020 Sliding Gate Operators (DKS™ DoorKing®) <small>(32 31 11 00-0001)</small> Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021 EA 300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050)	1,810.88	197.29
Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0022 EA 1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100)	2,533.58	236.74
Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023 EA 1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150)	3,134.44	236.74
Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0024 EA 3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210)	4,093.19	276.20
Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0025 EA 2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220)	5,020.23	276.20
Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026 EA 5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230)	6,850.24	315.65
Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0027 EA 5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530)	11,446.83	315.65
Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028 EA 10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550)	19,405.63	355.11
Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 11 00-0029	Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0030	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410)	529.65
32 31 11 00-0031	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409)	1,032.61
32 31 11 00-0032	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	666.00
32 31 11 00-0033	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	732.21
32 31 11 00-0034	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	655.98
32 31 11 00-0035	EA	Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310)	471.77
32 31 11 00-0036	LF	#40 Chain For Sliding Gate Operators.....	5.71
32 31 11 00-0037	LF	#41 Chain For Sliding Gate Operators.....	5.97
32 31 11 00-0038	LF	#50 Chain For Sliding Gate Operators.....	7.63
32 31 11 00-0039	LF	#60 Chain For Sliding Gate Operators.....	11.76
32 31 11 00-0040	EA	Exterior Keypad Gate Operator (Linear AK-11)	682.52
			171.28
32 31 11 00-0041	Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0042	EA	Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U)	2,839.42
		Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).	
		For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	195.75
		For Plug-In Loop Detector Option (Liftmaster LOOPDETLM), Add	140.13
		For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	69.01
		For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	277.36
		For Each Additional 10' Chain, Add	41.54
			236.74
32 31 13	Chain Link Fences and Gates (32 31)		
32 31 13 13	Chain Link Fences and Gates (32 31 13)		
32 31 13 13-0001	Post Holes (32 31 13 13)		
		Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0025 for core drilling in concrete, 02 41 19 13-0163 for core drilling in asphalt.	
32 31 13 13-0002	Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	8.92
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.03
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	11.89
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	13.37
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	14.59
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	16.05
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	17.83
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	20.05
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	22.93
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	26.74
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	32.09
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	40.11
32 31 13 13-0015	Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016	CF	Jackhammer Post Hole In Rock.....	65.27
32 31 13 13-0017	CF	Rock Drill Post Hole In Rock.....	18.96
32 31 13 13-0018	Fill For Post Holes (32 31 13 13-0001)		
		See CSI section 03 21 00 00-0000 for reinforcing bars.	
32 31 13 13-0019	Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020	VLF	Up To 2-1/2" Diameter, Concrete Fill For Post Hole	6.22
32 31 13 13-0021	VLF	2-1/2" Diameter, Concrete Fill For Post Hole	7.96
32 31 13 13-0022	VLF	3" Diameter, Concrete Fill For Post Hole	8.89
32 31 13 13-0023	VLF	4" Diameter, Concrete Fill For Post Hole	10.49
32 31 13 13-0024	VLF	6" Diameter, Concrete Fill For Post Hole	14.96
32 31 13 13-0025	VLF	8" Diameter, Concrete Fill For Post Hole	19.98
32 31 13 13-0026	VLF	10" Diameter, Concrete Fill For Post Hole	24.53
32 31 13 13-0027	VLF	12" Diameter, Concrete Fill For Post Hole	28.78
32 31 13 13-0028	VLF	18" Diameter, Concrete Fill For Post Hole	40.02
32 31 13 13-0029	VLF	24" Diameter, Concrete Fill For Post Hole	50.49
32 31 13 13-0030	VLF	30" Diameter, Concrete Fill For Post Hole	60.76
32 31 13 13-0031	VLF	36" Diameter, Concrete Fill For Post Hole	71.55
32 31 13 13-0032	Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033	VLF	Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.12
32 31 13 13-0034	VLF	2-1/2" Diameter, Grout Fill For Post Hole.....	9.14
32 31 13 13-0035	VLF	3" Diameter, Grout Fill For Post Hole.....	10.07
32 31 13 13-0036	VLF	4" Diameter, Grout Fill For Post Hole.....	11.62
32 31 13 13-0037	VLF	6" Diameter, Grout Fill For Post Hole.....	16.42
32 31 13 13-0038	VLF	8" Diameter, Grout Fill For Post Hole.....	21.92
32 31 13 13-0039	VLF	10" Diameter, Grout Fill For Post Hole.....	26.82
32 31 13 13-0040	VLF	12" Diameter, Grout Fill For Post Hole.....	31.31



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	42.77	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	53.20	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	63.37	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	73.94	
32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	4.39	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.72	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	5.97	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	6.15	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	8.22	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	10.96	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	13.15	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	14.91	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	18.17	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	20.39	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	22.36	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	24.11	
32 31 13 13-0058 Fence Posts (32 31 13 13)		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length	15.85	3.10
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length	14.96	2.65
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length	13.89	2.18
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length	13.03	1.72
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length	12.45	1.49
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length.....	11.55	1.04
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)		
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0068 LF Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	11.11	2.87
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.34	
For Vinyl Coated, Add	3.22	
For Powder Coated, Add	4.29	
For Aluminum Coated, Add	6.70	
For Schedule 20, Deduct	-1.07	
For Schedule 80, Add	3.15	
32 31 13 13-0069 LF 7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	10.22	2.42
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.34	
For Vinyl Coated, Add	3.22	
For Powder Coated, Add	4.29	
For Aluminum Coated, Add	6.70	
For Schedule 20, Deduct	-1.07	
For Schedule 80, Add	3.06	
32 31 13 13-0070 LF 11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	9.23	1.95
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.34	
For Vinyl Coated, Add	3.22	
For Powder Coated, Add	4.29	
For Aluminum Coated, Add	6.70	
For Schedule 20, Deduct	-1.07	
For Schedule 80, Add	2.96	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0071 LF 16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	8.47	1.49
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.34	
For Vinyl Coated, Add	3.22	
For Powder Coated, Add	4.29	
For Aluminum Coated, Add	6.70	
For Schedule 20, Deduct	-1.07	
For Schedule 80, Add	2.88	
32 31 13 13-0072 LF 21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	7.95	1.27
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.34	
For Vinyl Coated, Add	3.22	
For Powder Coated, Add	4.29	
For Aluminum Coated, Add	6.70	
For Schedule 20, Deduct	-1.07	
For Schedule 80, Add	2.83	
32 31 13 13-0073 LF >24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	7.39	1.04
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.34	
For Vinyl Coated, Add	3.22	
For Powder Coated, Add	4.29	
For Aluminum Coated, Add	6.70	
For Schedule 20, Deduct	-1.07	
For Schedule 80, Add	2.78	
32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)		
Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075 LF 2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	12.50	2.99
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.64	
For Vinyl Coated, Add	3.93	
For Powder Coated, Add	5.24	
For Aluminum Coated, Add	8.19	
For Schedule 20, Deduct	-1.31	
For Schedule 80, Add	3.74	
32 31 13 13-0076 LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	11.69	2.53
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.64	
For Vinyl Coated, Add	3.93	
For Powder Coated, Add	5.24	
For Aluminum Coated, Add	8.19	
For Schedule 20, Deduct	-1.31	
For Schedule 80, Add	3.66	
32 31 13 13-0077 LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	10.65	2.07
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.64	
For Vinyl Coated, Add	3.93	
For Powder Coated, Add	5.24	
For Aluminum Coated, Add	8.19	
For Schedule 20, Deduct	-1.31	
For Schedule 80, Add	3.55	
32 31 13 13-0078 LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	9.84	1.61
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.64	
For Vinyl Coated, Add	3.93	
For Powder Coated, Add	5.24	
For Aluminum Coated, Add	8.19	
For Schedule 20, Deduct	-1.31	
For Schedule 80, Add	3.47	
32 31 13 13-0079 LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	9.29	1.38
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.64	
For Vinyl Coated, Add	3.93	
For Powder Coated, Add	5.24	
For Aluminum Coated, Add	8.19	
For Schedule 20, Deduct	-1.31	
For Schedule 80, Add	3.42	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0080 LF 2" Outside Diameter Galvanized Steel Post, >24' In Length.....	8.78	1.15
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.64	
For Vinyl Coated, Add	3.93	
For Powder Coated, Add	5.24	
For Aluminum Coated, Add	8.19	
For Schedule 20, Deduct	-1.31	
For Schedule 80, Add	3.37	
32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)		
Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082 LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	14.97	3.22
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.80	
32 31 13 13-0083 LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	14.08	2.76
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.71	
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	13.01	2.18
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.61	
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	12.15	1.72
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.52	
32 31 13 13-0086 LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	11.57	1.49
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.46	
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	11.03	1.15
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.41	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0089	LF		3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	19.91	3.45
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
			<i>For Vinyl Coated, Add</i>	7.81	
			<i>For Powder Coated, Add</i>	10.41	
			<i>For Aluminum Coated, Add</i>	16.26	
			<i>For Schedule 20, Deduct</i>	-2.60	
			<i>For Schedule 80, Add</i>	6.93	
32 31 13 13-0090	LF		3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	18.96	2.99
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
			<i>For Vinyl Coated, Add</i>	7.81	
			<i>For Powder Coated, Add</i>	10.41	
			<i>For Aluminum Coated, Add</i>	16.26	
			<i>For Schedule 20, Deduct</i>	-2.60	
			<i>For Schedule 80, Add</i>	6.84	
32 31 13 13-0091	LF		3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	17.80	2.42
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
			<i>For Vinyl Coated, Add</i>	7.81	
			<i>For Powder Coated, Add</i>	10.41	
			<i>For Aluminum Coated, Add</i>	16.26	
			<i>For Schedule 20, Deduct</i>	-2.60	
			<i>For Schedule 80, Add</i>	6.72	
32 31 13 13-0092	LF		3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	16.84	1.95
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
			<i>For Vinyl Coated, Add</i>	7.81	
			<i>For Powder Coated, Add</i>	10.41	
			<i>For Aluminum Coated, Add</i>	16.26	
			<i>For Schedule 20, Deduct</i>	-2.60	
			<i>For Schedule 80, Add</i>	6.63	
32 31 13 13-0093	LF		3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	16.20	1.61
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
			<i>For Vinyl Coated, Add</i>	7.81	
			<i>For Powder Coated, Add</i>	10.41	
			<i>For Aluminum Coated, Add</i>	16.26	
			<i>For Schedule 20, Deduct</i>	-2.60	
			<i>For Schedule 80, Add</i>	6.56	
32 31 13 13-0094	LF		3" Outside Diameter Galvanized Steel Post, >24' In Length.....	15.60	1.27
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
			<i>For Vinyl Coated, Add</i>	7.81	
			<i>For Powder Coated, Add</i>	10.41	
			<i>For Aluminum Coated, Add</i>	16.26	
			<i>For Schedule 20, Deduct</i>	-2.60	
			<i>For Schedule 80, Add</i>	6.50	
32 31 13 13-0095			Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0059)		
			Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF		4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	28.40	3.67
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
			<i>For Vinyl Coated, Add</i>	12.68	
			<i>For Powder Coated, Add</i>	16.91	
			<i>For Aluminum Coated, Add</i>	26.43	
			<i>For Schedule 20, Deduct</i>	-4.23	
			<i>For Schedule 80, Add</i>	10.87	
32 31 13 13-0097	LF		4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	27.19	2.99
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
			<i>For Vinyl Coated, Add</i>	12.68	
			<i>For Powder Coated, Add</i>	16.91	
			<i>For Aluminum Coated, Add</i>	26.43	
			<i>For Schedule 20, Deduct</i>	-4.23	
			<i>For Schedule 80, Add</i>	10.75	



Exterior Improvements	32	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0098 LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	26.18	2.53
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.29	
For Vinyl Coated, Add	12.68	
For Powder Coated, Add	16.91	
For Aluminum Coated, Add	26.43	
For Schedule 20, Deduct	-4.23	
For Schedule 80, Add	10.65	
32 31 13 13-0099 LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	25.18	2.07
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.29	
For Vinyl Coated, Add	12.68	
For Powder Coated, Add	16.91	
For Aluminum Coated, Add	26.43	
For Schedule 20, Deduct	-4.23	
For Schedule 80, Add	10.55	
32 31 13 13-0100 LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	25.18	2.07
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.29	
For Vinyl Coated, Add	12.68	
For Powder Coated, Add	16.91	
For Aluminum Coated, Add	26.43	
For Schedule 20, Deduct	-4.23	
For Schedule 80, Add	10.55	
32 31 13 13-0101 LF 4" Outside Diameter Galvanized Steel Post, >24' In Length.....	24.01	1.49
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.29	
For Vinyl Coated, Add	12.68	
For Powder Coated, Add	16.91	
For Aluminum Coated, Add	26.43	
For Schedule 20, Deduct	-4.23	
For Schedule 80, Add	10.43	
32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) <small>(32 31 13 13-0059)</small>		
Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103 LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	52.89	4.03
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	22.32	
32 31 13 13-0104 LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	51.58	3.33
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	22.19	
32 31 13 13-0105 LF 6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	50.43	2.76
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	22.07	
32 31 13 13-0106 LF 6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	49.30	2.18
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	21.96	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	48.65	1.95
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	11.21	
			<i>For Vinyl Coated, Add</i>	26.89	
			<i>For Powder Coated, Add</i>	35.86	
			<i>For Aluminum Coated, Add</i>	56.03	
			<i>For Schedule 20, Deduct</i>	-8.96	
			<i>For Schedule 80, Add</i>	21.90	
32 31	13 13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	48.01	1.61
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	11.21	
			<i>For Vinyl Coated, Add</i>	26.89	
			<i>For Powder Coated, Add</i>	35.86	
			<i>For Aluminum Coated, Add</i>	56.03	
			<i>For Schedule 20, Deduct</i>	-8.96	
			<i>For Schedule 80, Add</i>	21.83	
32 31	13 13-0109		Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) <small>(32 31 13 13-0059)</small>		
			Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31	13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	100.81	4.48
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	22.96	
			<i>For Vinyl Coated, Add</i>	55.11	
			<i>For Powder Coated, Add</i>	73.48	
			<i>For Aluminum Coated, Add</i>	114.81	
			<i>For Schedule 20, Deduct</i>	-18.37	
			<i>For Schedule 80, Add</i>	44.98	
32 31	13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	99.34	3.80
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	22.96	
			<i>For Vinyl Coated, Add</i>	55.11	
			<i>For Powder Coated, Add</i>	73.48	
			<i>For Aluminum Coated, Add</i>	114.81	
			<i>For Schedule 20, Deduct</i>	-18.37	
			<i>For Schedule 80, Add</i>	44.84	
32 31	13 13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	98.06	3.10
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	22.96	
			<i>For Vinyl Coated, Add</i>	55.11	
			<i>For Powder Coated, Add</i>	73.48	
			<i>For Aluminum Coated, Add</i>	114.81	
			<i>For Schedule 20, Deduct</i>	-18.37	
			<i>For Schedule 80, Add</i>	44.71	
32 31	13 13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	96.77	2.42
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	22.96	
			<i>For Vinyl Coated, Add</i>	55.11	
			<i>For Powder Coated, Add</i>	73.48	
			<i>For Aluminum Coated, Add</i>	114.81	
			<i>For Schedule 20, Deduct</i>	-18.37	
			<i>For Schedule 80, Add</i>	44.58	
32 31	13 13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	96.11	2.07
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	22.96	
			<i>For Vinyl Coated, Add</i>	55.11	
			<i>For Powder Coated, Add</i>	73.48	
			<i>For Aluminum Coated, Add</i>	114.81	
			<i>For Schedule 20, Deduct</i>	-18.37	
			<i>For Schedule 80, Add</i>	44.51	
32 31	13 13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	95.40	1.72
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	22.96	
			<i>For Vinyl Coated, Add</i>	55.11	
			<i>For Powder Coated, Add</i>	73.48	
			<i>For Aluminum Coated, Add</i>	114.81	
			<i>For Schedule 20, Deduct</i>	-18.37	
			<i>For Schedule 80, Add</i>	44.44	



		Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0116		
Driven Post Supports <small>(32 31 13 13)</small>		
Note: OZ-Post.		
32 31 13 13-0117		
Driven Post Support For Round Chain Link Fence Posts <small>(32 31 13 13-0116)</small>		
32 31 13 13-0118 EA	63.43	
26" Driven Post Support For 1-5/8" Round Chain Link Fence Post Note: OZ-Post GB-700.		
32 31 13 13-0119 EA	63.43	
26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post..... Note: OZ-Post HB-700.		
32 31 13 13-0120 EA	64.76	
26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post IS-600.		
32 31 13 13-0121 EA	78.33	
32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post ISW-850.		
32 31 13 13-0122		
Driven Post Support For Square Ornamental Fence Posts <small>(32 31 13 13-0116)</small>		
32 31 13 13-0123 EA	74.32	
34" Driven Post Support For 1-3/4" Square Ornamental Fence Post Note: OZ-Post C175-850.		
32 31 13 13-0124 EA	72.32	
24" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-600.		
32 31 13 13-0125 EA	74.72	
34" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-850.		
32 31 13 13-0126 EA	78.33	
34" Driven Post Support For 2-1/2" Square Ornamental Fence Post Note: OZ-Post I25-850.		
32 31 13 13-0127 EA	78.33	
34" Driven Post Support For 3" Square Ornamental Fence Post..... Note: OZ-Post I3-850.		
32 31 13 13-0128		
Driven Post Support For Wooden Fence Posts <small>(32 31 13 13-0116)</small>		
32 31 13 13-0129 EA	70.54	
24" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-600.		
32 31 13 13-0130 EA	76.32	
34" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-850.		
32 31 13 13-0131 EA	80.99	
34" Driven Post Support For 3-3/4" Square Wooden Fence Post..... Note: OZ-Post C4-850.		
32 31 13 13-0132 EA	81.00	
34" Driven Post Support For 4" Square Wooden Fence Post..... Note: OZ-Post P4-850.		
32 31 13 13-0133 EA	89.68	
36" Driven Post Support For 4" x 6" Wooden Fence Post Note: OZ-Post T46-850.		
32 31 13 13-0134 EA	95.81	
36" Driven Post Support For 6" Square Wooden Fence Post..... Note: OZ-Post T6-850.		
32 31 13 13-0135		
Driven Post Support For Vinyl Fence Posts <small>(32 31 13 13-0116)</small>		
32 31 13 13-0136 EA	70.54	
24" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-600.		
32 31 13 13-0137 EA	76.32	
34" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-850.		
32 31 13 13-0138 EA	81.00	
34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.		
32 31 13 13-0139 EA	82.06	
34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.		
32 31 13 13-0140		
Chain Link Fence Assemblies <small>(32 31 13 13)</small>		
32 31 13 13-0141		
Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts <small>(32 31 13 13-0140)</small>		
Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0653 for barb wire attachments.		
32 31 13 13-0142		
Galvanized <small>(32 31 13 13-0141)</small>		
32 31 13 13-0143 LF	32.25	3.91
3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post		
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> 2.38		
<i>For 13 Gauge Fabric, Deduct</i> -5.89		
<i>For 11 Gauge Fabric, Deduct</i> -3.44		
<i>For 6 Gauge Fabric, Add</i> 5.40		
<i>For 1" Mesh Fabric, Add</i> 7.37		
<i>For 1-3/4" Mesh Fabric, Add</i> 2.95		
<i>For 2-1/8" Mesh Fabric, Deduct</i> -1.47		
<i>For 2-3/8" Mesh Fabric, Deduct</i> -1.97		
<i>For Posts 8' On Centers, Add</i> 1.80		
<i>For Posts 5' On Centers, Add</i> 6.80		
<i>For Up To 100, Add</i> 6.37		
<i>For >100 To 250, Add</i> 2.38		
<i>For >2,500 To 5,000, Deduct</i> -1.19		
<i>For >5,000, Deduct</i> -2.38		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0144	LF	3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	33.49	3.91
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.45	
			<i>For 13 Gauge Fabric, Deduct</i>	-6.23	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.64	
			<i>For 6 Gauge Fabric, Add</i>	5.72	
			<i>For 1" Mesh Fabric, Add</i>	7.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.12	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.56	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.08	
			<i>For Posts 8' On Centers, Add</i>	1.86	
			<i>For Posts 5' On Centers, Add</i>	7.04	
			<i>For Up To 100, Add</i>	6.58	
			<i>For >100 To 250, Add</i>	2.45	
			<i>For >2,500 To 5,000, Deduct</i>	-1.23	
			<i>For >5,000, Deduct</i>	-2.45	
32 31	13 13-0145	LF	4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	34.57	3.91
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.52	
			<i>For 13 Gauge Fabric, Deduct</i>	-6.53	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.81	
			<i>For 6 Gauge Fabric, Add</i>	5.99	
			<i>For 1" Mesh Fabric, Add</i>	8.17	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.27	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.63	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.18	
			<i>For Posts 8' On Centers, Add</i>	1.92	
			<i>For Posts 5' On Centers, Add</i>	7.25	
			<i>For Up To 100, Add</i>	6.76	
			<i>For >100 To 250, Add</i>	2.52	
			<i>For >2,500 To 5,000, Deduct</i>	-1.26	
			<i>For >5,000, Deduct</i>	-2.52	
32 31	13 13-0146	LF	5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	37.11	3.91
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.67	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.23	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.22	
			<i>For 6 Gauge Fabric, Add</i>	6.64	
			<i>For 1" Mesh Fabric, Add</i>	9.05	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.62	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.81	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.41	
			<i>For Posts 8' On Centers, Add</i>	2.05	
			<i>For Posts 5' On Centers, Add</i>	7.74	
			<i>For Up To 100, Add</i>	7.20	
			<i>For >100 To 250, Add</i>	2.67	
			<i>For >2,500 To 5,000, Deduct</i>	-1.34	
			<i>For >5,000, Deduct</i>	-2.67	
32 31	13 13-0147	LF	6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	40.22	3.91
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.88	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.94	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.64	
			<i>For 6 Gauge Fabric, Add</i>	7.29	
			<i>For 1" Mesh Fabric, Add</i>	9.94	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.99	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.65	
			<i>For Posts 8' On Centers, Add</i>	2.22	
			<i>For Posts 5' On Centers, Add</i>	8.37	
			<i>For Up To 100, Add</i>	7.77	
			<i>For >100 To 250, Add</i>	2.88	
			<i>For >2,500 To 5,000, Deduct</i>	-1.44	
			<i>For >5,000, Deduct</i>	-2.88	
32 31	13 13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	41.86	5.86
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.99	
			<i>For 13 Gauge Fabric, Deduct</i>	-8.29	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.84	
			<i>For 6 Gauge Fabric, Add</i>	7.61	
			<i>For 1" Mesh Fabric, Add</i>	10.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.15	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.07	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.77	
			<i>For Posts 8' On Centers, Add</i>	2.31	
			<i>For Posts 5' On Centers, Add</i>	8.71	
			<i>For Up To 100, Add</i>	8.08	
			<i>For >100 To 250, Add</i>	2.99	
			<i>For >2,500 To 5,000, Deduct</i>	-1.50	
			<i>For >5,000, Deduct</i>	-2.99	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0149 LF 8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	47.18	6.84
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.32	
<i>For 13 Gauge Fabric, Deduct</i>	-9.73	
<i>For 11 Gauge Fabric, Deduct</i>	-5.68	
<i>For 6 Gauge Fabric, Add</i>	8.93	
<i>For 1" Mesh Fabric, Add</i>	12.18	
<i>For 1-3/4" Mesh Fabric, Add</i>	4.87	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.44	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.25	
<i>For Posts 8' On Centers, Add</i>	2.59	
<i>For Posts 5' On Centers, Add</i>	9.74	
<i>For Up To 100, Add</i>	9.00	
<i>For >100 To 250, Add</i>	3.32	
<i>For >2,500 To 5,000, Deduct</i>	-1.66	
<i>For >5,000, Deduct</i>	-3.32	
32 31 13 13-0150 LF 9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	50.32	8.79
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.52	
<i>For 13 Gauge Fabric, Deduct</i>	-10.50	
<i>For 11 Gauge Fabric, Deduct</i>	-6.14	
<i>For 6 Gauge Fabric, Add</i>	9.64	
<i>For 1" Mesh Fabric, Add</i>	13.15	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.26	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.63	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.51	
<i>For Posts 8' On Centers, Add</i>	2.76	
<i>For Posts 5' On Centers, Add</i>	10.36	
<i>For Up To 100, Add</i>	9.56	
<i>For >100 To 250, Add</i>	3.52	
<i>For >2,500 To 5,000, Deduct</i>	-1.76	
<i>For >5,000, Deduct</i>	-3.52	
32 31 13 13-0151 LF 10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	53.48	9.77
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.72	
<i>For 13 Gauge Fabric, Deduct</i>	-11.28	
<i>For 11 Gauge Fabric, Deduct</i>	-6.59	
<i>For 6 Gauge Fabric, Add</i>	10.36	
<i>For 1" Mesh Fabric, Add</i>	14.12	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.65	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.82	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.77	
<i>For Posts 8' On Centers, Add</i>	2.93	
<i>For Posts 5' On Centers, Add</i>	10.99	
<i>For Up To 100, Add</i>	10.12	
<i>For >100 To 250, Add</i>	3.72	
<i>For >2,500 To 5,000, Deduct</i>	-1.86	
<i>For >5,000, Deduct</i>	-3.72	
32 31 13 13-0152 LF 12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	59.38	11.73
<i>For Each Additional Foot >12, Add</i>	4.03	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.11	
<i>For 13 Gauge Fabric, Deduct</i>	-12.72	
<i>For 11 Gauge Fabric, Deduct</i>	-7.43	
<i>For 6 Gauge Fabric, Add</i>	11.68	
<i>For 1" Mesh Fabric, Add</i>	15.93	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.37	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.19	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.25	
<i>For Posts 8' On Centers, Add</i>	3.24	
<i>For Posts 5' On Centers, Add</i>	12.17	
<i>For Up To 100, Add</i>	11.18	
<i>For >100 To 250, Add</i>	4.11	
<i>For >2,500 To 5,000, Deduct</i>	-2.05	
<i>For >5,000, Deduct</i>	-4.11	
32 31 13 13-0153 Vinyl Coated <small>(32 31 13 13-0141)</small>		
32 31 13 13-0154 LF 4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	35.84	3.91
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	3.01	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.58	
<i>For 13 Gauge Fabric, Deduct</i>	-6.97	
<i>For 11 Gauge Fabric, Deduct</i>	-4.07	
<i>For 6 Gauge Fabric, Add</i>	6.40	
<i>For 1" Mesh Fabric, Add</i>	8.72	
<i>For 1-3/4" Mesh Fabric, Add</i>	3.49	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.74	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.33	
<i>For Posts 8' On Centers, Add</i>	1.98	
<i>For Posts 5' On Centers, Add</i>	7.48	
<i>For Up To 100, Add</i>	6.96	
<i>For >100 To 250, Add</i>	2.58	
<i>For >2,500 To 5,000, Deduct</i>	-1.29	
<i>For >5,000, Deduct</i>	-2.58	

32 Exterior Improvements

32 30 Site Improvements

32 31 Fences and Gates



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....		38.71	3.91
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>		3.36	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>		2.75	
		<i>For 13 Gauge Fabric, Deduct</i>		-7.79	
		<i>For 11 Gauge Fabric, Deduct</i>		-4.55	
		<i>For 6 Gauge Fabric, Add</i>		7.15	
		<i>For 1" Mesh Fabric, Add</i>		9.75	
		<i>For 1-3/4" Mesh Fabric, Add</i>		3.90	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-1.95	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>		-2.60	
		<i>For Posts 8' On Centers, Add</i>		2.13	
		<i>For Posts 5' On Centers, Add</i>		8.03	
		<i>For Up To 100, Add</i>		7.44	
		<i>For >100 To 250, Add</i>		2.75	
		<i>For >2,500 To 5,000, Deduct</i>		-1.38	
		<i>For >5,000, Deduct</i>		-2.75	
32 31 13 13-0156	LF	6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....		43.47	3.91
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>		3.92	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>		3.04	
		<i>For 13 Gauge Fabric, Deduct</i>		-9.07	
		<i>For 11 Gauge Fabric, Deduct</i>		-5.30	
		<i>For 6 Gauge Fabric, Add</i>		8.33	
		<i>For 1" Mesh Fabric, Add</i>		11.36	
		<i>For 1-3/4" Mesh Fabric, Add</i>		4.54	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-2.27	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>		-3.03	
		<i>For Posts 8' On Centers, Add</i>		2.38	
		<i>For Posts 5' On Centers, Add</i>		8.95	
		<i>For Up To 100, Add</i>		8.26	
		<i>For >100 To 250, Add</i>		3.04	
		<i>For >2,500 To 5,000, Deduct</i>		-1.52	
		<i>For >5,000, Deduct</i>		-3.04	
32 31 13 13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....		45.64	5.86
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>		4.14	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>		3.18	
		<i>For 13 Gauge Fabric, Deduct</i>		-9.60	
		<i>For 11 Gauge Fabric, Deduct</i>		-5.61	
		<i>For 6 Gauge Fabric, Add</i>		8.81	
		<i>For 1" Mesh Fabric, Add</i>		12.02	
		<i>For 1-3/4" Mesh Fabric, Add</i>		4.81	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-2.40	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>		-3.21	
		<i>For Posts 8' On Centers, Add</i>		2.50	
		<i>For Posts 5' On Centers, Add</i>		9.39	
		<i>For Up To 100, Add</i>		8.65	
		<i>For >100 To 250, Add</i>		3.18	
		<i>For >2,500 To 5,000, Deduct</i>		-1.59	
		<i>For >5,000, Deduct</i>		-3.18	
32 31 13 13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....		51.58	6.84
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>		4.86	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>		3.54	
		<i>For 13 Gauge Fabric, Deduct</i>		-11.26	
		<i>For 11 Gauge Fabric, Deduct</i>		-6.58	
		<i>For 6 Gauge Fabric, Add</i>		10.33	
		<i>For 1" Mesh Fabric, Add</i>		14.09	
		<i>For 1-3/4" Mesh Fabric, Add</i>		5.64	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-2.82	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>		-3.76	
		<i>For Posts 8' On Centers, Add</i>		2.81	
		<i>For Posts 5' On Centers, Add</i>		10.53	
		<i>For Up To 100, Add</i>		9.66	
		<i>For >100 To 250, Add</i>		3.54	
		<i>For >2,500 To 5,000, Deduct</i>		-1.77	
		<i>For >5,000, Deduct</i>		-3.54	
32 31 13 13-0159	LF	9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....		55.04	8.79
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>		5.24	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>		3.76	
		<i>For 13 Gauge Fabric, Deduct</i>		-12.15	
		<i>For 11 Gauge Fabric, Deduct</i>		-7.09	
		<i>For 6 Gauge Fabric, Add</i>		11.15	
		<i>For 1" Mesh Fabric, Add</i>		15.20	
		<i>For 1-3/4" Mesh Fabric, Add</i>		6.08	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>		-3.04	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>		-4.05	
		<i>For Posts 8' On Centers, Add</i>		2.99	
		<i>For Posts 5' On Centers, Add</i>		11.21	
		<i>For Up To 100, Add</i>		10.27	
		<i>For >100 To 250, Add</i>		3.76	
		<i>For >2,500 To 5,000, Deduct</i>		-1.88	
		<i>For >5,000, Deduct</i>		-3.76	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0160 LF 10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	58.52	9.77
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.63	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.98	
<i>For 13 Gauge Fabric, Deduct</i>	-13.03	
<i>For 11 Gauge Fabric, Deduct</i>	-7.61	
<i>For 6 Gauge Fabric, Add</i>	11.97	
<i>For 1" Mesh Fabric, Add</i>	16.32	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.53	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.26	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.35	
<i>For Posts 8' On Centers, Add</i>	3.18	
<i>For Posts 5' On Centers, Add</i>	11.90	
<i>For Up To 100, Add</i>	10.88	
<i>For >100 To 250, Add</i>	3.98	
<i>For >2,500 To 5,000, Deduct</i>	-1.99	
<i>For >5,000, Deduct</i>	-3.98	
32 31 13 13-0161 LF 12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	63.82	11.73
<i>For Each Additional Foot >12, Add</i>	4.28	
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	6.16	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.33	
<i>For 13 Gauge Fabric, Deduct</i>	-14.26	
<i>For 11 Gauge Fabric, Deduct</i>	-8.33	
<i>For 6 Gauge Fabric, Add</i>	13.09	
<i>For 1" Mesh Fabric, Add</i>	17.86	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.14	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.57	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.76	
<i>For Posts 8' On Centers, Add</i>	3.46	
<i>For Posts 5' On Centers, Add</i>	12.97	
<i>For Up To 100, Add</i>	11.85	
<i>For >100 To 250, Add</i>	4.33	
<i>For >2,500 To 5,000, Deduct</i>	-2.16	
<i>For >5,000, Deduct</i>	-4.33	
32 31 13 13-0162 Rails <small>(32 31 13 13)</small>		
Note: Includes rail end fittings.		
32 31 13 13-0163 SS-20 Chain Link Fence Rails <small>(32 31 13 13-0162)</small>		
Note: Includes tie wires.		
32 31 13 13-0164 LF 1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	5.72	1.27
<i>For SS15, Deduct</i>	-0.31	
<i>For SS40, Add</i>	0.77	
32 31 13 13-0165 LF 1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	6.75	1.27
<i>For SS40, Add</i>	0.41	
<i>For Powder Coated, Add</i>	0.82	
<i>For Aluminum Coated, Add</i>	1.64	
32 31 13 13-0166 LF 1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	6.96	1.43
<i>For SS15, Deduct</i>	-0.41	
<i>For SS40, Add</i>	1.02	
32 31 13 13-0167 LF 1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	8.34	1.43
<i>For SS40, Add</i>	0.55	
<i>For Powder Coated, Add</i>	1.09	
<i>For Aluminum Coated, Add</i>	2.19	
32 31 13 13-0168 LF 2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	8.13	1.61
<i>For SS40, Add</i>	1.23	
32 31 13 13-0169 LF 2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	9.78	1.61
<i>For SS40, Add</i>	0.66	
<i>For Powder Coated, Add</i>	1.31	
<i>For Aluminum Coated, Add</i>	2.62	
32 31 13 13-0170 Fabric <small>(32 31 13 13)</small>		
32 31 13 13-0171 Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0172 LF 3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	10.60	2.30
<i>For 1-1/4" Mesh Fabric, Add</i>	0.88	
<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.78	
<i>For 13 Gauge Fabric, Deduct</i>	-1.41	
<i>For 11 Gauge Fabric, Deduct</i>	-0.78	
<i>For 6 Gauge Fabric, Add</i>	2.50	
<i>For 1" Mesh Fabric, Add</i>	2.35	
<i>For 1-1/4" Mesh Fabric, Add</i>	1.57	
<i>For 1-3/4" Mesh Fabric, Add</i>	0.94	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.47	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.63	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0173 LF 3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	11.68	2.58
For 1-1/4" Mesh Fabric, Add	1.02	
For 2 Oz Galvanized Or Zinc Coating, Add	0.91	
For 13 Gauge Fabric, Deduct	-1.64	
For 11 Gauge Fabric, Deduct	-0.91	
For 6 Gauge Fabric, Add	2.91	
For 1" Mesh Fabric, Add	2.73	
For 1-1/4" Mesh Fabric, Add	1.82	
For 1-3/4" Mesh Fabric, Add	1.09	
For 2-1/8" Mesh Fabric, Deduct	-0.55	
For 2-3/8" Mesh Fabric, Deduct	-0.73	
32 31 13 13-0174 LF 4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	12.63	2.87
For 1-1/4" Mesh Fabric, Add	1.12	
For 2 Oz Galvanized Or Zinc Coating, Add	1.00	
For 13 Gauge Fabric, Deduct	-1.80	
For 11 Gauge Fabric, Deduct	-1.00	
For 6 Gauge Fabric, Add	3.21	
For 1" Mesh Fabric, Add	3.01	
For 1-1/4" Mesh Fabric, Add	2.01	
For 1-3/4" Mesh Fabric, Add	1.20	
For 2-1/8" Mesh Fabric, Deduct	-0.60	
For 2-3/8" Mesh Fabric, Deduct	-0.80	
32 31 13 13-0175 LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	14.19	3.45
For 1-1/4" Mesh Fabric, Add	1.40	
For 2 Oz Galvanized Or Zinc Coating, Add	1.25	
For 13 Gauge Fabric, Deduct	-2.25	
For 11 Gauge Fabric, Deduct	-1.25	
For 6 Gauge Fabric, Add	4.00	
For 1" Mesh Fabric, Add	3.75	
For 1-1/4" Mesh Fabric, Add	2.50	
For 1-3/4" Mesh Fabric, Add	1.50	
For 2-1/8" Mesh Fabric, Deduct	-0.75	
For 2-3/8" Mesh Fabric, Deduct	-1.00	
32 31 13 13-0176 LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	15.85	4.03
For 1-1/4" Mesh Fabric, Add	1.68	
For 2 Oz Galvanized Or Zinc Coating, Add	1.50	
For 13 Gauge Fabric, Deduct	-2.70	
For 11 Gauge Fabric, Deduct	-1.50	
For 6 Gauge Fabric, Add	4.80	
For 1" Mesh Fabric, Add	4.50	
For 1-1/4" Mesh Fabric, Add	3.00	
For 1-3/4" Mesh Fabric, Add	1.80	
For 2-1/8" Mesh Fabric, Deduct	-0.90	
For 2-3/8" Mesh Fabric, Deduct	-1.20	
32 31 13 13-0177 LF 7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	17.60	4.60
For 1-1/4" Mesh Fabric, Add	1.96	
For 2 Oz Galvanized Or Zinc Coating, Add	1.75	
For 13 Gauge Fabric, Deduct	-3.15	
For 11 Gauge Fabric, Deduct	-1.75	
For 6 Gauge Fabric, Add	5.59	
For 1" Mesh Fabric, Add	5.24	
For 1-1/4" Mesh Fabric, Add	3.50	
For 1-3/4" Mesh Fabric, Add	2.10	
For 2-1/8" Mesh Fabric, Deduct	-1.05	
For 2-3/8" Mesh Fabric, Deduct	-1.40	
32 31 13 13-0178 LF 8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	19.50	5.75
For 1-1/4" Mesh Fabric, Add	2.24	
For 2 Oz Galvanized Or Zinc Coating, Add	2.00	
For 13 Gauge Fabric, Deduct	-3.60	
For 11 Gauge Fabric, Deduct	-2.00	
For 6 Gauge Fabric, Add	6.40	
For 1" Mesh Fabric, Add	6.00	
For 1-1/4" Mesh Fabric, Add	4.00	
For 1-3/4" Mesh Fabric, Add	2.40	
For 2-1/8" Mesh Fabric, Deduct	-1.20	
For 2-3/8" Mesh Fabric, Deduct	-1.60	
32 31 13 13-0179 LF 10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	23.08	6.32
For 1-1/4" Mesh Fabric, Add	2.91	
For 2 Oz Galvanized Or Zinc Coating, Add	2.60	
For 13 Gauge Fabric, Deduct	-4.68	
For 11 Gauge Fabric, Deduct	-2.60	
For 6 Gauge Fabric, Add	8.31	
For 1" Mesh Fabric, Add	7.79	
For 1-1/4" Mesh Fabric, Add	5.20	
For 1-3/4" Mesh Fabric, Add	3.12	
For 2-1/8" Mesh Fabric, Deduct	-1.56	
For 2-3/8" Mesh Fabric, Deduct	-2.08	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0180 LF 12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	26.24	6.90
For 1-1/4" Mesh Fabric, Add	3.49	
For 2 Oz Galvanized Or Zinc Coating, Add	3.11	
For 13 Gauge Fabric, Deduct	-5.60	
For 11 Gauge Fabric, Deduct	-3.11	
For 6 Gauge Fabric, Add	9.96	
For 1" Mesh Fabric, Add	9.34	
For 1-1/4" Mesh Fabric, Add	6.23	
For 1-3/4" Mesh Fabric, Add	3.74	
For 2-1/8" Mesh Fabric, Deduct	-1.87	
For 2-3/8" Mesh Fabric, Deduct	-2.49	
32 31 13 13-0181 LF 14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	29.47	8.04
For 1-1/4" Mesh Fabric, Add	3.75	
For 2 Oz Galvanized Or Zinc Coating, Add	3.35	
For 13 Gauge Fabric, Deduct	-6.02	
For 11 Gauge Fabric, Deduct	-3.35	
For 6 Gauge Fabric, Add	10.70	
For 1" Mesh Fabric, Add	10.04	
For 1-1/4" Mesh Fabric, Add	6.69	
For 1-3/4" Mesh Fabric, Add	4.01	
For 2-1/8" Mesh Fabric, Deduct	-2.01	
For 2-3/8" Mesh Fabric, Deduct	-2.68	
32 31 13 13-0182 LF 16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	32.69	9.19
For 1-1/4" Mesh Fabric, Add	4.00	
For 2 Oz Galvanized Or Zinc Coating, Add	3.58	
For 13 Gauge Fabric, Deduct	-6.44	
For 11 Gauge Fabric, Deduct	-3.58	
For 6 Gauge Fabric, Add	11.44	
For 1" Mesh Fabric, Add	10.73	
For 1-1/4" Mesh Fabric, Add	7.15	
For 1-3/4" Mesh Fabric, Add	4.29	
For 2-1/8" Mesh Fabric, Deduct	-2.15	
For 2-3/8" Mesh Fabric, Deduct	-2.86	
32 31 13 13-0183 Fabric, Vinyl Coated Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0184 LF 4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	13.90	2.30
For 1-1/4" Mesh Fabric, Add	1.48	
For 13 Gauge Fabric, Deduct	-2.38	
For 11 Gauge Fabric, Deduct	-1.32	
For 6 Gauge Fabric, Add	4.22	
For 1" Mesh Fabric, Add	3.96	
For 1-1/4" Mesh Fabric, Add	2.64	
For 1-3/4" Mesh Fabric, Add	1.58	
For 2-1/8" Mesh Fabric, Deduct	-0.79	
For 2-3/8" Mesh Fabric, Deduct	-1.06	
For Aluminum Coated, Add	2.11	
32 31 13 13-0185 LF 5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	15.79	3.45
For 1-1/4" Mesh Fabric, Add	1.85	
For 13 Gauge Fabric, Deduct	-2.97	
For 11 Gauge Fabric, Deduct	-1.65	
For 6 Gauge Fabric, Add	5.28	
For 1" Mesh Fabric, Add	4.95	
For 1-1/4" Mesh Fabric, Add	3.30	
For 1-3/4" Mesh Fabric, Add	1.98	
For 2-1/8" Mesh Fabric, Deduct	-0.99	
For 2-3/8" Mesh Fabric, Deduct	-1.32	
For Aluminum Coated, Add	2.64	
32 31 13 13-0186 LF 6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	19.10	4.03
For 1-1/4" Mesh Fabric, Add	2.59	
For 13 Gauge Fabric, Deduct	-4.16	
For 11 Gauge Fabric, Deduct	-2.31	
For 6 Gauge Fabric, Add	7.40	
For 1" Mesh Fabric, Add	6.94	
For 1-1/4" Mesh Fabric, Add	4.63	
For 1-3/4" Mesh Fabric, Add	2.78	
For 2-1/8" Mesh Fabric, Deduct	-1.39	
For 2-3/8" Mesh Fabric, Deduct	-1.85	
For Aluminum Coated, Add	3.70	
32 31 13 13-0187 LF 7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	21.38	4.60
For 1-1/4" Mesh Fabric, Add	3.02	
For 13 Gauge Fabric, Deduct	-4.85	
For 11 Gauge Fabric, Deduct	-2.69	
For 6 Gauge Fabric, Add	8.62	
For 1" Mesh Fabric, Add	8.08	
For 1-1/4" Mesh Fabric, Add	5.39	
For 1-3/4" Mesh Fabric, Add	3.23	
For 2-1/8" Mesh Fabric, Deduct	-1.62	
For 2-3/8" Mesh Fabric, Deduct	-2.15	
For Aluminum Coated, Add	4.31	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0188	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	23.90	5.75
			<i>For 1-1/4" Mesh Fabric, Add</i>	3.47	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.58	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.10	
			<i>For 6 Gauge Fabric, Add</i>	9.92	
			<i>For 1" Mesh Fabric, Add</i>	9.30	
			<i>For 1-1/4" Mesh Fabric, Add</i>	6.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.72	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.86	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.48	
			<i>For Aluminum Coated, Add</i>	4.96	
32 31	13 13-0189	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	28.13	6.32
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.32	
			<i>For 13 Gauge Fabric, Deduct</i>	-6.95	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.86	
			<i>For 6 Gauge Fabric, Add</i>	12.35	
			<i>For 1" Mesh Fabric, Add</i>	11.58	
			<i>For 1-1/4" Mesh Fabric, Add</i>	7.72	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.63	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.32	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.09	
			<i>For Aluminum Coated, Add</i>	6.18	
32 31	13 13-0190	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	30.68	6.90
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.73	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.60	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.22	
			<i>For 6 Gauge Fabric, Add</i>	13.51	
			<i>For 1" Mesh Fabric, Add</i>	12.67	
			<i>For 1-1/4" Mesh Fabric, Add</i>	8.45	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.07	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.53	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.38	
			<i>For Aluminum Coated, Add</i>	6.76	
32 31	13 13-0191	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	34.68	8.04
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.21	
			<i>For 13 Gauge Fabric, Deduct</i>	-8.37	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.65	
			<i>For 6 Gauge Fabric, Add</i>	14.87	
			<i>For 1" Mesh Fabric, Add</i>	13.94	
			<i>For 1-1/4" Mesh Fabric, Add</i>	9.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.79	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.72	
			<i>For Aluminum Coated, Add</i>	7.44	
32 31	13 13-0192	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	38.76	9.19
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.70	
			<i>For 13 Gauge Fabric, Deduct</i>	-9.17	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.09	
			<i>For 6 Gauge Fabric, Add</i>	16.30	
			<i>For 1" Mesh Fabric, Add</i>	15.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	10.19	
			<i>For 1-3/4" Mesh Fabric, Add</i>	6.11	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.06	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.07	
			<i>For Aluminum Coated, Add</i>	8.15	
32 31	13 13-0193		Fabric, Aluminized Steel Chain Link <small>(32 31 13 13-0170)</small>		
32 31	13 13-0194	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	10.57	2.30
			<i>For 6 Gauge Fabric, Add</i>	2.48	
			<i>For 1" Mesh Fabric, Add</i>	3.26	
32 31	13 13-0195	LF	3-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.64	2.58
			<i>For 6 Gauge Fabric, Add</i>	2.88	
			<i>For 1" Mesh Fabric, Add</i>	3.78	
32 31	13 13-0196	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.75	2.87
			<i>For 6 Gauge Fabric, Add</i>	3.30	
			<i>For 1" Mesh Fabric, Add</i>	4.34	
32 31	13 13-0197	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.34	3.45
			<i>For 6 Gauge Fabric, Add</i>	4.12	
			<i>For 1" Mesh Fabric, Add</i>	5.41	
32 31	13 13-0198	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	16.01	4.03
			<i>For 6 Gauge Fabric, Add</i>	4.93	
			<i>For 1" Mesh Fabric, Add</i>	6.47	
32 31	13 13-0199	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	17.82	4.60
			<i>For 6 Gauge Fabric, Add</i>	5.77	
			<i>For 1" Mesh Fabric, Add</i>	7.57	
32 31	13 13-0200	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	19.73	5.75
			<i>For 6 Gauge Fabric, Add</i>	6.58	
			<i>For 1" Mesh Fabric, Add</i>	8.64	
32 31	13 13-0201	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	22.98	6.32
			<i>For 6 Gauge Fabric, Add</i>	8.23	
			<i>For 1" Mesh Fabric, Add</i>	10.80	
32 31	13 13-0202	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	26.13	6.90
			<i>For 6 Gauge Fabric, Add</i>	9.87	
			<i>For 1" Mesh Fabric, Add</i>	12.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0203 Fabric, All Aluminum Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0204 LF 3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	15.58 6.49 8.52	2.30
32 31 13 13-0205 LF 3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	17.50 7.57 9.93	2.58
32 31 13 13-0206 LF 4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.43 8.65 11.35	2.87
32 31 13 13-0207 LF 5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	22.70 10.81 14.19	3.45
32 31 13 13-0208 LF 6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	26.06 12.97 17.02	4.03
32 31 13 13-0209 LF 7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	29.53 15.14 19.87	4.60
32 31 13 13-0210 LF 8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	33.12 17.30 22.70	5.75
32 31 13 13-0211 LF 10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	39.71 21.62 28.37	6.32
32 31 13 13-0212 LF 12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	46.22 25.94 34.05	6.90
32 31 13 13-0213 Fence Inserts <small>(32 31 13 13-0170)</small>		
Note: For use with new or existing chain link fence, per lf of fence.		
32 31 13 13-0214 Vinyl Plastic Fence Inserts <small>(32 31 13 13-0213)</small>		
Note: Assorted colors.		
32 31 13 13-0215 LF 3' High Fence, Vinyl Plastic Fence Insert.....	8.02	
32 31 13 13-0216 LF 3-1/2' High Fence, Vinyl Plastic Fence Insert.....	9.16	
32 31 13 13-0217 LF 4' High Fence, Vinyl Plastic Fence Insert.....	10.11	
32 31 13 13-0218 LF 5' High Fence, Vinyl Plastic Fence Insert.....	12.67	
32 31 13 13-0219 LF 6' High Fence, Vinyl Plastic Fence Insert.....	15.16	
32 31 13 13-0220 LF 7' High Fence, Vinyl Plastic Fence Insert.....	17.73	
32 31 13 13-0221 LF 8' High Fence, Vinyl Plastic Fence Insert.....	20.21	
32 31 13 13-0222 LF 10' High Fence, Vinyl Plastic Fence Insert.....	24.49	
32 31 13 13-0223 Aluminum Fence Inserts <small>(32 31 13 13-0213)</small>		
Note: Assorted colors.		
32 31 13 13-0224 LF 3' High Fence, Aluminum Fence Insert.....	21.64	
32 31 13 13-0225 LF 3-1/2' High Fence, Aluminum Fence Insert.....	23.80	
32 31 13 13-0226 LF 4' High Fence, Aluminum Fence Insert.....	27.31	
32 31 13 13-0227 LF 5' High Fence, Aluminum Fence Insert.....	34.18	
32 31 13 13-0228 LF 6' High Fence, Aluminum Fence Insert.....	41.02	
32 31 13 13-0229 LF 7' High Fence, Aluminum Fence Insert.....	44.88	
32 31 13 13-0230 LF 8' High Fence, Aluminum Fence Insert.....	54.68	
32 31 13 13-0231 LF 10' High Fence, Aluminum Fence Insert.....	67.60	
32 31 13 13-0232 Redwood Fence Inserts <small>(32 31 13 13-0213)</small>		
32 31 13 13-0233 LF 4' High Fence, Redwood Fence Insert.....	12.79	
32 31 13 13-0234 LF 5' High Fence, Redwood Fence Insert.....	16.17	
32 31 13 13-0235 LF 6' High Fence, Redwood Fence Insert.....	19.42	
32 31 13 13-0236 LF 7' High Fence, Redwood Fence Insert.....	22.61	
32 31 13 13-0237 LF 8' High Fence, Redwood Fence Insert.....	25.87	
32 31 13 13-0238 Diagonal Flexible Polyethylene Inserts <small>(32 31 13 13-0213)</small>		
32 31 13 13-0239 SF Diagonal Polyethylene Fence Weave.....	3.20	
32 31 13 13-0240 Hedge Link Fence Inserts <small>(32 31 13 13-0213)</small>		
32 31 13 13-0241 LF 3' High Fence, Hedge Link Fence Insert.....	17.00	
32 31 13 13-0242 LF 3-1/2' High Fence, Hedge Link Fence Insert.....	19.36	
32 31 13 13-0243 LF 4' High Fence, Hedge Link Fence Insert.....	22.73	
32 31 13 13-0244 LF 5' High Fence, Hedge Link Fence Insert.....	28.03	
32 31 13 13-0245 LF 6' High Fence, Hedge Link Fence Insert.....	32.11	
32 31 13 13-0246 LF 7' High Fence, Hedge Link Fence Insert.....	40.49	
32 31 13 13-0247 LF 8' High Fence, Hedge Link Fence Insert.....	45.99	
32 31 13 13-0248 LF 10' High Fence, Hedge Link Fence Insert.....	54.93	
32 31 13 13-0249 LF 12' High Fence, Hedge Link Fence Insert.....	63.00	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0250		Fence Windscreen Fabric <small>(32 31 13 13-0170)</small> Note: Includes plastic wire clips.		
	32 31 13 13-0251	SF	Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY.....	1.37	0.50
			<i>For Sewn Boxed Vent (Each), Add</i>	22.58	
			<i>For Welded Boxed Vent (Each), Add</i>	11.29	
			<i>For 4' x 4' One Color Logo (Each), Add</i>	470.48	
32 31 13	13-0252		Non-Climbable Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
	32 31 13 13-0253	LF	3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	27.44	2.30
			<i>For 11 Gauge, Deduct</i>	-3.99	
			<i>For 10 Gauge, Deduct</i>	-1.60	
			<i>For 7 Gauge, Add</i>	2.40	
			<i>For 6 Gauge, Add</i>	5.59	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-1.00	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-2.20	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-3.20	
	32 31 13 13-0254	LF	3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	31.34	2.58
			<i>For 11 Gauge, Deduct</i>	-4.66	
			<i>For 10 Gauge, Deduct</i>	-1.86	
			<i>For 7 Gauge, Add</i>	2.80	
			<i>For 6 Gauge, Add</i>	6.52	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-1.17	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-2.56	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-3.73	
	32 31 13 13-0255	LF	4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	35.28	2.87
			<i>For 11 Gauge, Deduct</i>	-5.33	
			<i>For 10 Gauge, Deduct</i>	-2.13	
			<i>For 7 Gauge, Add</i>	3.20	
			<i>For 6 Gauge, Add</i>	7.46	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-1.33	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-2.93	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-4.27	
	32 31 13 13-0256	LF	5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	42.49	3.45
			<i>For 11 Gauge, Deduct</i>	-6.66	
			<i>For 10 Gauge, Deduct</i>	-2.66	
			<i>For 7 Gauge, Add</i>	4.00	
			<i>For 6 Gauge, Add</i>	9.32	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-1.67	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-3.66	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-5.33	
	32 31 13 13-0257	LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	49.80	4.03
			<i>For 11 Gauge, Deduct</i>	-7.99	
			<i>For 10 Gauge, Deduct</i>	-3.20	
			<i>For 7 Gauge, Add</i>	4.79	
			<i>For 6 Gauge, Add</i>	11.19	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-2.00	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-4.39	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-6.39	
	32 31 13 13-0258	LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	57.22	4.60
			<i>For 11 Gauge, Deduct</i>	-9.32	
			<i>For 10 Gauge, Deduct</i>	-3.73	
			<i>For 7 Gauge, Add</i>	5.59	
			<i>For 6 Gauge, Add</i>	13.05	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-2.33	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-5.13	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-7.46	
	32 31 13 13-0259	LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	64.78	5.75
			<i>For 11 Gauge, Deduct</i>	-10.66	
			<i>For 10 Gauge, Deduct</i>	-4.26	
			<i>For 7 Gauge, Add</i>	6.39	
			<i>For 6 Gauge, Add</i>	14.92	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-2.66	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-5.86	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-8.52	
	32 31 13 13-0260	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	71.37	6.04
			<i>For 11 Gauge, Deduct</i>	-11.86	
			<i>For 10 Gauge, Deduct</i>	-4.74	
			<i>For 7 Gauge, Add</i>	7.12	
			<i>For 6 Gauge, Add</i>	16.60	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-2.97	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-6.52	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-9.49	
	32 31 13 13-0261	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	78.02	6.32
			<i>For 11 Gauge, Deduct</i>	-13.07	
			<i>For 10 Gauge, Deduct</i>	-5.23	
			<i>For 7 Gauge, Add</i>	7.84	
			<i>For 6 Gauge, Add</i>	18.29	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-3.27	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-7.19	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-10.45	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0262 LF 12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	84.61	6.90
For 11 Gauge, Deduct	-14.16	
For 10 Gauge, Deduct	-5.67	
For 7 Gauge, Add	8.50	
For 6 Gauge, Add	19.83	
For 1/2" Mesh Fabric, Deduct	-3.54	
For 5/8" Mesh Fabric, Deduct	-7.79	
For 3/4" Mesh Fabric, Deduct	-11.33	
32 31 13 13-0263 Gates <small>(32 31 13 13)</small>		
Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0264 Galvanized Steel Without Barbed Wire <small>(32 31 13 13-0263)</small>		
Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0265 4' Fence Height <small>(32 31 13 13-0264)</small>		
32 31 13 13-0266 EA 3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	316.01	21.49
For Gate With Single Barb Wire Arm, Add	27.37	
For Gate With Double Barb Wire Arm, Add	39.81	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.66	
For Aluminized Steel Gate And Post, Add	119.44	
For Powder Coated Gate And Post, Add	64.70	
For 1" Mesh Fabric, Add	108.24	
For 1-1/4" Mesh Fabric, Add	69.67	
For 1-3/4" Mesh Fabric, Add	43.30	
For 2-1/8" Mesh Fabric, Deduct	-21.65	
32 31 13 13-0267 EA 4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	398.95	22.39
For Gate With Single Barb Wire Arm, Add	36.49	
For Gate With Double Barb Wire Arm, Add	53.08	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.21	
For Aluminized Steel Gate And Post, Add	159.25	
For Powder Coated Gate And Post, Add	86.26	
For 1" Mesh Fabric, Add	144.32	
For 1-1/4" Mesh Fabric, Add	92.90	
For 1-3/4" Mesh Fabric, Add	57.73	
For 2-1/8" Mesh Fabric, Deduct	-28.86	
32 31 13 13-0268 EA 5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	472.20	23.82
For Gate With Single Barb Wire Arm, Add	44.06	
For Gate With Double Barb Wire Arm, Add	64.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.10	
For Aluminized Steel Gate And Post, Add	192.26	
For Powder Coated Gate And Post, Add	104.14	
For 1" Mesh Fabric, Add	174.24	
For 1-1/4" Mesh Fabric, Add	112.15	
For 1-3/4" Mesh Fabric, Add	69.70	
For 2-1/8" Mesh Fabric, Deduct	-34.85	
32 31 13 13-0269 EA 6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	555.34	28.67
For Gate With Single Barb Wire Arm, Add	51.63	
For Gate With Double Barb Wire Arm, Add	75.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.00	
For Aluminized Steel Gate And Post, Add	225.28	
For Powder Coated Gate And Post, Add	122.03	
For 1" Mesh Fabric, Add	204.16	
For 1-1/4" Mesh Fabric, Add	131.42	
For 1-3/4" Mesh Fabric, Add	81.67	
For 2-1/8" Mesh Fabric, Deduct	-40.83	
32 31 13 13-0270 EA 7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	638.44	33.41
For Gate With Single Barb Wire Arm, Add	59.19	
For Gate With Double Barb Wire Arm, Add	86.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.90	
For Aluminized Steel Gate And Post, Add	258.30	
For Powder Coated Gate And Post, Add	139.91	
For 1" Mesh Fabric, Add	234.08	
For 1-1/4" Mesh Fabric, Add	150.67	
For 1-3/4" Mesh Fabric, Add	93.63	
For 2-1/8" Mesh Fabric, Deduct	-46.82	
32 31 13 13-0271 EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	724.37	38.16
For Gate With Single Barb Wire Arm, Add	67.07	
For Gate With Double Barb Wire Arm, Add	97.56	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.32	
For Aluminized Steel Gate And Post, Add	292.67	
For Powder Coated Gate And Post, Add	158.53	
For 1" Mesh Fabric, Add	265.23	
For 1-1/4" Mesh Fabric, Add	170.72	
For 1-3/4" Mesh Fabric, Add	106.09	
For 2-1/8" Mesh Fabric, Deduct	-53.05	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0272	EA	9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	807.48	42.99
			For Gate With Single Barb Wire Arm, Add	74.64	
			For Gate With Double Barb Wire Arm, Add	108.56	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.22	
			For Aluminized Steel Gate And Post, Add	325.68	
			For Powder Coated Gate And Post, Add	176.41	
			For 1" Mesh Fabric, Add	295.15	
			For 1-1/4" Mesh Fabric, Add	189.98	
			For 1-3/4" Mesh Fabric, Add	118.06	
			For 2-1/8" Mesh Fabric, Deduct	-59.03	
32 31 13	13-0273	EA	10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	891.81	47.74
			For Gate With Single Barb Wire Arm, Add	82.34	
			For Gate With Double Barb Wire Arm, Add	119.76	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-140.35	
			For Aluminized Steel Gate And Post, Add	359.28	
			For Powder Coated Gate And Post, Add	194.61	
			For 1" Mesh Fabric, Add	325.60	
			For 1-1/4" Mesh Fabric, Add	209.58	
			For 1-3/4" Mesh Fabric, Add	130.24	
			For 2-1/8" Mesh Fabric, Deduct	-65.12	
32 31 13	13-0274	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,138.63	47.74
			For Gate With Single Barb Wire Arm, Add	109.49	
			For Gate With Double Barb Wire Arm, Add	159.25	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.62	
			For Aluminized Steel Gate And Post, Add	477.75	
			For Powder Coated Gate And Post, Add	258.78	
			For 1" Mesh Fabric, Add	432.96	
			For 1-1/4" Mesh Fabric, Add	278.69	
			For 1-3/4" Mesh Fabric, Add	173.19	
			For 2-1/8" Mesh Fabric, Deduct	-86.59	
32 31 13	13-0275	EA	12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,347.92	51.14
			For Gate With Single Barb Wire Arm, Add	131.38	
			For Gate With Double Barb Wire Arm, Add	191.10	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-223.95	
			For Aluminized Steel Gate And Post, Add	573.30	
			For Powder Coated Gate And Post, Add	310.54	
			For 1" Mesh Fabric, Add	519.56	
			For 1-1/4" Mesh Fabric, Add	334.43	
			For 1-3/4" Mesh Fabric, Add	207.82	
			For 2-1/8" Mesh Fabric, Deduct	-103.91	
32 31 13	13-0276	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,558.79	55.08
			For Gate With Single Barb Wire Arm, Add	153.28	
			For Gate With Double Barb Wire Arm, Add	222.95	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-261.27	
			For Aluminized Steel Gate And Post, Add	668.85	
			For Powder Coated Gate And Post, Add	362.29	
			For 1" Mesh Fabric, Add	606.15	
			For 1-1/4" Mesh Fabric, Add	390.16	
			For 1-3/4" Mesh Fabric, Add	242.46	
			For 2-1/8" Mesh Fabric, Deduct	-121.23	
32 31 13	13-0277	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,771.65	59.65
			For Gate With Single Barb Wire Arm, Add	175.18	
			For Gate With Double Barb Wire Arm, Add	254.80	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-298.60	
			For Aluminized Steel Gate And Post, Add	764.40	
			For Powder Coated Gate And Post, Add	414.05	
			For 1" Mesh Fabric, Add	692.74	
			For 1-1/4" Mesh Fabric, Add	445.90	
			For 1-3/4" Mesh Fabric, Add	277.10	
			For 2-1/8" Mesh Fabric, Deduct	-138.55	
32 31 13	13-0278	EA	18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,015.57	74.55
			For Gate With Single Barb Wire Arm, Add	197.07	
			For Gate With Double Barb Wire Arm, Add	286.65	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-335.92	
			For Aluminized Steel Gate And Post, Add	859.95	
			For Powder Coated Gate And Post, Add	465.81	
			For 1" Mesh Fabric, Add	779.33	
			For 1-1/4" Mesh Fabric, Add	501.64	
			For 1-3/4" Mesh Fabric, Add	311.73	
			For 2-1/8" Mesh Fabric, Deduct	-155.87	
32 31 13	13-0279	EA	20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,230.63	79.91
			For Gate With Single Barb Wire Arm, Add	218.97	
			For Gate With Double Barb Wire Arm, Add	318.50	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-373.24	
			For Aluminized Steel Gate And Post, Add	955.50	
			For Powder Coated Gate And Post, Add	517.56	
			For 1" Mesh Fabric, Add	865.92	
			For 1-1/4" Mesh Fabric, Add	557.38	
			For 1-3/4" Mesh Fabric, Add	346.37	
			For 2-1/8" Mesh Fabric, Deduct	-173.18	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0280 EA 22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,443.30	86.10
For Gate With Single Barb Wire Arm, Add	240.33	
For Gate With Double Barb Wire Arm, Add	349.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-409.66	
For Aluminized Steel Gate And Post, Add	1,048.72	
For Powder Coated Gate And Post, Add	568.06	
For 1" Mesh Fabric, Add	950.41	
For 1-1/4" Mesh Fabric, Add	611.76	
For 1-3/4" Mesh Fabric, Add	380.16	
For 2-1/8" Mesh Fabric, Deduct	-190.08	
32 31 13 13-0281 EA 24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,659.05	93.24
For Gate With Single Barb Wire Arm, Add	261.70	
For Gate With Double Barb Wire Arm, Add	380.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-446.07	
For Aluminized Steel Gate And Post, Add	1,141.94	
For Powder Coated Gate And Post, Add	618.55	
For 1" Mesh Fabric, Add	1,034.89	
For 1-1/4" Mesh Fabric, Add	666.13	
For 1-3/4" Mesh Fabric, Add	413.95	
For 2-1/8" Mesh Fabric, Deduct	-206.98	
32 31 13 13-0282 EA 26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,878.72	101.75
For Gate With Single Barb Wire Arm, Add	283.06	
For Gate With Double Barb Wire Arm, Add	411.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-482.49	
For Aluminized Steel Gate And Post, Add	1,235.16	
For Powder Coated Gate And Post, Add	669.05	
For 1" Mesh Fabric, Add	1,119.37	
For 1-1/4" Mesh Fabric, Add	720.51	
For 1-3/4" Mesh Fabric, Add	447.75	
For 2-1/8" Mesh Fabric, Deduct	-223.87	
32 31 13 13-0283 EA 28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,030.64	111.93
For Gate With Single Barb Wire Arm, Add	296.41	
For Gate With Double Barb Wire Arm, Add	431.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-505.25	
For Aluminized Steel Gate And Post, Add	1,293.43	
For Powder Coated Gate And Post, Add	700.61	
For 1" Mesh Fabric, Add	1,172.17	
For 1-1/4" Mesh Fabric, Add	754.50	
For 1-3/4" Mesh Fabric, Add	468.87	
For 2-1/8" Mesh Fabric, Deduct	-234.43	
32 31 13 13-0284 EA 30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,359.29	124.32
For Gate With Single Barb Wire Arm, Add	328.45	
For Gate With Double Barb Wire Arm, Add	477.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-559.87	
For Aluminized Steel Gate And Post, Add	1,433.26	
For Powder Coated Gate And Post, Add	776.35	
For 1" Mesh Fabric, Add	1,298.89	
For 1-1/4" Mesh Fabric, Add	836.07	
For 1-3/4" Mesh Fabric, Add	519.56	
For 2-1/8" Mesh Fabric, Deduct	-259.78	
32 31 13 13-0285 5' Fence Height <small>(32 31 13 13-0264)</small>		
32 31 13 13-0286 EA 3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	379.15	23.82
For Gate With Single Barb Wire Arm, Add	33.83	
For Gate With Double Barb Wire Arm, Add	49.20	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.66	
For Aluminized Steel Gate And Post, Add	147.60	
For Powder Coated Gate And Post, Add	79.95	
For 1" Mesh Fabric, Add	133.76	
For 1-1/4" Mesh Fabric, Add	86.10	
For 1-3/4" Mesh Fabric, Add	53.51	
For 2-1/8" Mesh Fabric, Deduct	-26.75	
32 31 13 13-0287 EA 4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	480.30	23.82
For Gate With Single Barb Wire Arm, Add	44.95	
For Gate With Double Barb Wire Arm, Add	65.38	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-76.62	
For Aluminized Steel Gate And Post, Add	196.15	
For Powder Coated Gate And Post, Add	106.25	
For 1" Mesh Fabric, Add	177.76	
For 1-1/4" Mesh Fabric, Add	114.42	
For 1-3/4" Mesh Fabric, Add	71.11	
For 2-1/8" Mesh Fabric, Deduct	-35.55	
32 31 13 13-0288 EA 5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	561.66	25.35
For Gate With Single Barb Wire Arm, Add	53.41	
For Gate With Double Barb Wire Arm, Add	77.68	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-91.04	
For Aluminized Steel Gate And Post, Add	233.05	
For Powder Coated Gate And Post, Add	126.24	
For 1" Mesh Fabric, Add	211.20	
For 1-1/4" Mesh Fabric, Add	135.95	
For 1-3/4" Mesh Fabric, Add	84.48	
For 2-1/8" Mesh Fabric, Deduct	-42.24	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0289	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	657.80	30.45
			<i>For Gate With Single Barb Wire Arm, Add</i>	62.31	
			<i>For Gate With Double Barb Wire Arm, Add</i>	90.63	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-106.21	
			<i>For Aluminized Steel Gate And Post, Add</i>	271.89	
			<i>For Powder Coated Gate And Post, Add</i>	147.27	
			<i>For 1" Mesh Fabric, Add</i>	246.40	
			<i>For 1-1/4" Mesh Fabric, Add</i>	158.60	
			<i>For 1-3/4" Mesh Fabric, Add</i>	98.56	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-49.28	
32 31	13 13-0290	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	745.85	35.46
			<i>For Gate With Single Barb Wire Arm, Add</i>	70.32	
			<i>For Gate With Double Barb Wire Arm, Add</i>	102.28	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-119.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	306.85	
			<i>For Powder Coated Gate And Post, Add</i>	166.21	
			<i>For 1" Mesh Fabric, Add</i>	278.08	
			<i>For 1-1/4" Mesh Fabric, Add</i>	179.00	
			<i>For 1-3/4" Mesh Fabric, Add</i>	111.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-55.62	
32 31	13 13-0291	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	842.90	40.84
			<i>For Gate With Single Barb Wire Arm, Add</i>	79.22	
			<i>For Gate With Double Barb Wire Arm, Add</i>	115.23	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-135.04	
			<i>For Aluminized Steel Gate And Post, Add</i>	345.69	
			<i>For Powder Coated Gate And Post, Add</i>	187.25	
			<i>For 1" Mesh Fabric, Add</i>	313.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	201.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	125.31	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-62.66	
32 31	13 13-0292	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	934.99	45.94
			<i>For Gate With Single Barb Wire Arm, Add</i>	87.68	
			<i>For Gate With Double Barb Wire Arm, Add</i>	127.53	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-149.45	
			<i>For Aluminized Steel Gate And Post, Add</i>	382.59	
			<i>For Powder Coated Gate And Post, Add</i>	207.24	
			<i>For 1" Mesh Fabric, Add</i>	346.72	
			<i>For 1-1/4" Mesh Fabric, Add</i>	223.18	
			<i>For 1-3/4" Mesh Fabric, Add</i>	138.69	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-69.34	
32 31	13 13-0293	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	1,027.09	50.97
			<i>For Gate With Single Barb Wire Arm, Add</i>	96.13	
			<i>For Gate With Double Barb Wire Arm, Add</i>	139.83	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-163.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	419.49	
			<i>For Powder Coated Gate And Post, Add</i>	227.22	
			<i>For 1" Mesh Fabric, Add</i>	380.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	244.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	152.07	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-76.03	
32 31	13 13-0294	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire.....	1,386.76	51.14
			<i>For Gate With Single Barb Wire Arm, Add</i>	135.65	
			<i>For Gate With Double Barb Wire Arm, Add</i>	197.32	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-231.23	
			<i>For Aluminized Steel Gate And Post, Add</i>	591.95	
			<i>For Powder Coated Gate And Post, Add</i>	320.64	
			<i>For 1" Mesh Fabric, Add</i>	536.45	
			<i>For 1-1/4" Mesh Fabric, Add</i>	345.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	214.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-107.29	
32 31	13 13-0295	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire.....	1,646.19	55.08
			<i>For Gate With Single Barb Wire Arm, Add</i>	162.89	
			<i>For Gate With Double Barb Wire Arm, Add</i>	236.93	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-277.66	
			<i>For Aluminized Steel Gate And Post, Add</i>	710.80	
			<i>For Powder Coated Gate And Post, Add</i>	385.02	
			<i>For 1" Mesh Fabric, Add</i>	644.17	
			<i>For 1-1/4" Mesh Fabric, Add</i>	414.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	257.67	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-128.83	
32 31	13 13-0296	EA	14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire.....	1,907.59	59.65
			<i>For Gate With Single Barb Wire Arm, Add</i>	190.13	
			<i>For Gate With Double Barb Wire Arm, Add</i>	276.55	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-324.08	
			<i>For Aluminized Steel Gate And Post, Add</i>	829.66	
			<i>For Powder Coated Gate And Post, Add</i>	449.40	
			<i>For 1" Mesh Fabric, Add</i>	751.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	483.97	
			<i>For 1-3/4" Mesh Fabric, Add</i>	300.75	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-150.38	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0297	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,200.07 217.37 316.17 -370.51 948.51 513.78 859.59 553.30 343.84 -171.92	74.55
32 31	13 13-0298	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,458.83 244.07 355.01 -416.03 1,065.04 576.90 965.19 621.27 386.08 -193.04	79.91
32 31	13 13-0299	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,729.76 271.84 395.41 -463.37 1,186.22 642.54 1,075.02 691.96 430.01 -215.00	86.10
32 31	13 13-0300	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,998.91 299.08 435.03 -509.80 1,305.08 706.92 1,182.73 761.29 473.09 -236.55	93.24
32 31	13 13-0301	EA	24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,267.13 325.78 473.87 -555.31 1,421.60 770.03 1,288.33 829.27 515.33 -257.67	101.75
32 31	13 13-0302	EA	26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,550.14 353.56 514.26 -602.65 1,542.79 835.68 1,398.15 899.96 559.26 -279.63	111.93
32 31	13 13-0303	EA	28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,832.04 380.46 553.39 -648.51 1,660.18 899.26 1,504.53 968.44 601.81 -300.91	124.32
32 31	13 13-0304	EA	30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,119.66 406.96 591.95 -693.69 1,775.84 961.91 1,609.35 1,035.90 643.74 -321.87	139.86

32 31 13 13-0305 6' Fence Height (32 31 13 13-0264)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0306	EA	3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	406.52	25.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	36.27	
			<i>For Gate With Double Barb Wire Arm, Add</i>	52.76	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-61.83	
			<i>For Aluminized Steel Gate And Post, Add</i>	158.28	
			<i>For Powder Coated Gate And Post, Add</i>	85.74	
			<i>For 1" Mesh Fabric, Add</i>	143.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	92.33	
			<i>For 1-3/4" Mesh Fabric, Add</i>	57.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-28.69	
32 31	13 13-0307	EA	4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	515.76	25.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	48.29	
			<i>For Gate With Double Barb Wire Arm, Add</i>	70.24	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-82.31	
			<i>For Aluminized Steel Gate And Post, Add</i>	210.72	
			<i>For Powder Coated Gate And Post, Add</i>	114.14	
			<i>For 1" Mesh Fabric, Add</i>	190.96	
			<i>For 1-1/4" Mesh Fabric, Add</i>	122.92	
			<i>For 1-3/4" Mesh Fabric, Add</i>	76.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-38.19	
32 31	13 13-0308	EA	5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	604.05	27.14
			<i>For Gate With Single Barb Wire Arm, Add</i>	57.48	
			<i>For Gate With Double Barb Wire Arm, Add</i>	83.61	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-97.98	
			<i>For Aluminized Steel Gate And Post, Add</i>	250.82	
			<i>For Powder Coated Gate And Post, Add</i>	135.86	
			<i>For 1" Mesh Fabric, Add</i>	227.30	
			<i>For 1-1/4" Mesh Fabric, Add</i>	146.31	
			<i>For 1-3/4" Mesh Fabric, Add</i>	90.92	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-45.46	
32 31	13 13-0309	EA	6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	701.37	32.78
			<i>For Gate With Single Barb Wire Arm, Add</i>	66.31	
			<i>For Gate With Double Barb Wire Arm, Add</i>	96.46	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-113.03	
			<i>For Aluminized Steel Gate And Post, Add</i>	289.37	
			<i>For Powder Coated Gate And Post, Add</i>	156.74	
			<i>For 1" Mesh Fabric, Add</i>	262.24	
			<i>For 1-1/4" Mesh Fabric, Add</i>	168.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	104.90	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-52.45	
32 31	13 13-0310	EA	7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	803.35	38.51
			<i>For Gate With Single Barb Wire Arm, Add</i>	75.66	
			<i>For Gate With Double Barb Wire Arm, Add</i>	110.05	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-128.97	
			<i>For Aluminized Steel Gate And Post, Add</i>	330.15	
			<i>For Powder Coated Gate And Post, Add</i>	178.83	
			<i>For 1" Mesh Fabric, Add</i>	299.20	
			<i>For 1-1/4" Mesh Fabric, Add</i>	192.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	119.68	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-59.84	
32 31	13 13-0311	EA	8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	900.40	43.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	84.56	
			<i>For Gate With Double Barb Wire Arm, Add</i>	123.00	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-144.14	
			<i>For Aluminized Steel Gate And Post, Add</i>	369.00	
			<i>For Powder Coated Gate And Post, Add</i>	199.87	
			<i>For 1" Mesh Fabric, Add</i>	334.40	
			<i>For 1-1/4" Mesh Fabric, Add</i>	215.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	133.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-66.88	
32 31	13 13-0312	EA	9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	998.34	49.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	93.46	
			<i>For Gate With Double Barb Wire Arm, Add</i>	135.95	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-159.31	
			<i>For Aluminized Steel Gate And Post, Add</i>	407.84	
			<i>For Powder Coated Gate And Post, Add</i>	220.91	
			<i>For 1" Mesh Fabric, Add</i>	369.60	
			<i>For 1-1/4" Mesh Fabric, Add</i>	237.90	
			<i>For 1-3/4" Mesh Fabric, Add</i>	147.84	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-73.92	
32 31	13 13-0313	EA	10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	1,059.86	55.17
			<i>For Gate With Single Barb Wire Arm, Add</i>	98.36	
			<i>For Gate With Double Barb Wire Arm, Add</i>	143.07	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-167.66	
			<i>For Aluminized Steel Gate And Post, Add</i>	429.20	
			<i>For Powder Coated Gate And Post, Add</i>	232.48	
			<i>For 1" Mesh Fabric, Add</i>	388.96	
			<i>For 1-1/4" Mesh Fabric, Add</i>	250.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	155.59	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-77.79	



Exterior Improvements	32	
Site Improvements	32 30	32
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0314	EA	10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	1,481.11 144.73 210.52 -246.71 631.56 342.10 572.36 368.41 228.94 -114.47	55.08
32 31	13 13-0315	EA	12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	1,757.08 173.57 252.47 -295.86 757.41 410.26 686.40 441.82 274.56 -137.28	59.65
32 31	13 13-0316	EA	14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,084.98 202.95 295.20 -345.93 885.59 479.69 802.57 516.59 321.03 -160.51	79.91
32 31	13 13-0317	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,365.62 231.79 337.15 -395.09 1,011.44 547.86 916.61 590.00 366.65 -183.32	86.10
32 31	13 13-0318	EA	18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,654.19 261.16 379.87 -445.16 1,139.61 617.29 1,032.77 664.77 413.11 -206.55	93.24
32 31	13 13-0319	EA	20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,946.69 290.54 422.60 -495.23 1,267.79 686.72 1,148.94 739.54 459.57 -229.79	101.75
32 31	13 13-0320	EA	22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,239.41 319.38 464.55 -544.39 1,393.64 754.89 1,262.98 812.95 505.19 -252.60	111.93
32 31	13 13-0321	EA	24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,541.36 348.48 506.88 -594.00 1,520.65 823.69 1,378.09 887.05 551.24 -275.62	124.32

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0322 EA 26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,849.71	139.86
For Gate With Single Barb Wire Arm, Add	377.27	
For Gate With Double Barb Wire Arm, Add	548.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-643.07	
For Aluminized Steel Gate And Post, Add	1,646.26	
For Powder Coated Gate And Post, Add	891.72	
For 1" Mesh Fabric, Add	1,491.92	
For 1-1/4" Mesh Fabric, Add	960.32	
For 1-3/4" Mesh Fabric, Add	596.77	
For 2-1/8" Mesh Fabric, Deduct	-298.38	
32 31 13 13-0323 EA 28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,174.81	159.81
For Gate With Single Barb Wire Arm, Add	406.43	
For Gate With Double Barb Wire Arm, Add	591.17	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-692.78	
For Aluminized Steel Gate And Post, Add	1,773.51	
For Powder Coated Gate And Post, Add	960.65	
For 1" Mesh Fabric, Add	1,607.24	
For 1-1/4" Mesh Fabric, Add	1,034.55	
For 1-3/4" Mesh Fabric, Add	642.90	
For 2-1/8" Mesh Fabric, Deduct	-321.45	
32 31 13 13-0324 EA 30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,520.39	186.48
For Gate With Single Barb Wire Arm, Add	435.64	
For Gate With Double Barb Wire Arm, Add	633.66	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-742.57	
For Aluminized Steel Gate And Post, Add	1,900.99	
For Powder Coated Gate And Post, Add	1,029.70	
For 1" Mesh Fabric, Add	1,722.77	
For 1-1/4" Mesh Fabric, Add	1,108.91	
For 1-3/4" Mesh Fabric, Add	689.11	
For 2-1/8" Mesh Fabric, Deduct	-344.55	
32 31 13 13-0325 7' Fence Height (32 31 13 13-0264)		
32 31 13 13-0326 EA 3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	426.59	27.50
For Gate With Single Barb Wire Arm, Add	37.83	
For Gate With Double Barb Wire Arm, Add	55.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.48	
For Aluminized Steel Gate And Post, Add	165.08	
For Powder Coated Gate And Post, Add	89.42	
For 1" Mesh Fabric, Add	149.60	
For 1-1/4" Mesh Fabric, Add	96.29	
For 1-3/4" Mesh Fabric, Add	59.84	
For 2-1/8" Mesh Fabric, Deduct	-29.92	
32 31 13 13-0327 EA 4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	539.88	27.50
For Gate With Single Barb Wire Arm, Add	50.29	
For Gate With Double Barb Wire Arm, Add	73.15	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.73	
For Aluminized Steel Gate And Post, Add	219.46	
For Powder Coated Gate And Post, Add	118.87	
For 1" Mesh Fabric, Add	198.88	
For 1-1/4" Mesh Fabric, Add	128.02	
For 1-3/4" Mesh Fabric, Add	79.55	
For 2-1/8" Mesh Fabric, Deduct	-39.78	
32 31 13 13-0328 EA 5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	635.83	28.93
For Gate With Single Barb Wire Arm, Add	60.39	
For Gate With Double Barb Wire Arm, Add	87.83	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.93	
For Aluminized Steel Gate And Post, Add	263.50	
For Powder Coated Gate And Post, Add	142.73	
For 1" Mesh Fabric, Add	238.80	
For 1-1/4" Mesh Fabric, Add	153.71	
For 1-3/4" Mesh Fabric, Add	95.52	
For 2-1/8" Mesh Fabric, Deduct	-47.76	
32 31 13 13-0329 EA 6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	779.27	35.20
For Gate With Single Barb Wire Arm, Add	74.09	
For Gate With Double Barb Wire Arm, Add	107.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.30	
For Aluminized Steel Gate And Post, Add	323.32	
For Powder Coated Gate And Post, Add	175.13	
For 1" Mesh Fabric, Add	293.01	
For 1-1/4" Mesh Fabric, Add	188.60	
For 1-3/4" Mesh Fabric, Add	117.20	
For 2-1/8" Mesh Fabric, Deduct	-58.60	
32 31 13 13-0330 EA 7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	921.84	41.20
For Gate With Single Barb Wire Arm, Add	87.81	
For Gate With Double Barb Wire Arm, Add	127.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-149.67	
For Aluminized Steel Gate And Post, Add	383.16	
For Powder Coated Gate And Post, Add	207.54	
For 1" Mesh Fabric, Add	347.23	
For 1-1/4" Mesh Fabric, Add	223.51	
For 1-3/4" Mesh Fabric, Add	138.89	
For 2-1/8" Mesh Fabric, Deduct	-69.45	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0331 EA 8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,065.26	47.38
For Gate With Single Barb Wire Arm, Add	101.51	
For Gate With Double Barb Wire Arm, Add	147.66	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-173.03	
For Aluminized Steel Gate And Post, Add	442.97	
For Powder Coated Gate And Post, Add	239.94	
For 1" Mesh Fabric, Add	401.44	
For 1-1/4" Mesh Fabric, Add	258.40	
For 1-3/4" Mesh Fabric, Add	160.58	
For 2-1/8" Mesh Fabric, Deduct	-80.29	
32 31 13 13-0332 EA 9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,207.83	53.38
For Gate With Single Barb Wire Arm, Add	115.23	
For Gate With Double Barb Wire Arm, Add	167.60	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-196.41	
For Aluminized Steel Gate And Post, Add	502.80	
For Powder Coated Gate And Post, Add	272.35	
For 1" Mesh Fabric, Add	455.67	
For 1-1/4" Mesh Fabric, Add	293.30	
For 1-3/4" Mesh Fabric, Add	182.27	
For 2-1/8" Mesh Fabric, Deduct	-91.13	
32 31 13 13-0333 EA 10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,328.81	59.65
For Gate With Single Barb Wire Arm, Add	126.46	
For Gate With Double Barb Wire Arm, Add	183.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.56	
For Aluminized Steel Gate And Post, Add	551.84	
For Powder Coated Gate And Post, Add	298.91	
For 1" Mesh Fabric, Add	500.11	
For 1-1/4" Mesh Fabric, Add	321.91	
For 1-3/4" Mesh Fabric, Add	200.04	
For 2-1/8" Mesh Fabric, Deduct	-100.02	
32 31 13 13-0334 EA 10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,688.23	59.65
For Gate With Single Barb Wire Arm, Add	166.00	
For Gate With Double Barb Wire Arm, Add	241.45	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-282.95	
For Aluminized Steel Gate And Post, Add	724.36	
For Powder Coated Gate And Post, Add	392.36	
For 1" Mesh Fabric, Add	656.45	
For 1-1/4" Mesh Fabric, Add	422.55	
For 1-3/4" Mesh Fabric, Add	262.58	
For 2-1/8" Mesh Fabric, Deduct	-131.29	
32 31 13 13-0335 EA 12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,917.99	79.91
For Gate With Single Barb Wire Arm, Add	184.58	
For Gate With Double Barb Wire Arm, Add	268.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-314.62	
For Aluminized Steel Gate And Post, Add	805.44	
For Powder Coated Gate And Post, Add	436.28	
For 1" Mesh Fabric, Add	729.93	
For 1-1/4" Mesh Fabric, Add	469.84	
For 1-3/4" Mesh Fabric, Add	291.97	
For 2-1/8" Mesh Fabric, Deduct	-145.99	
32 31 13 13-0336 EA 14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,216.11	86.10
For Gate With Single Barb Wire Arm, Add	215.34	
For Gate With Double Barb Wire Arm, Add	313.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-367.06	
For Aluminized Steel Gate And Post, Add	939.67	
For Powder Coated Gate And Post, Add	508.99	
For 1" Mesh Fabric, Add	851.58	
For 1-1/4" Mesh Fabric, Add	548.14	
For 1-3/4" Mesh Fabric, Add	340.63	
For 2-1/8" Mesh Fabric, Deduct	-170.32	
32 31 13 13-0337 EA 16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,493.97	93.24
For Gate With Single Barb Wire Arm, Add	243.54	
For Gate With Double Barb Wire Arm, Add	354.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-415.12	
For Aluminized Steel Gate And Post, Add	1,062.71	
For Powder Coated Gate And Post, Add	575.63	
For 1" Mesh Fabric, Add	963.08	
For 1-1/4" Mesh Fabric, Add	619.91	
For 1-3/4" Mesh Fabric, Add	385.23	
For 2-1/8" Mesh Fabric, Deduct	-192.62	
32 31 13 13-0338 EA 18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,801.03	101.75
For Gate With Single Barb Wire Arm, Add	274.51	
For Gate With Double Barb Wire Arm, Add	399.29	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-467.92	
For Aluminized Steel Gate And Post, Add	1,197.87	
For Powder Coated Gate And Post, Add	648.85	
For 1" Mesh Fabric, Add	1,085.57	
For 1-1/4" Mesh Fabric, Add	698.76	
For 1-3/4" Mesh Fabric, Add	434.23	
For 2-1/8" Mesh Fabric, Deduct	-217.11	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0339 EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,108.32	111.93
For Gate With Single Barb Wire Arm, Add	304.96	
For Gate With Double Barb Wire Arm, Add	443.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.81	
For Aluminized Steel Gate And Post, Add	1,330.71	
For Powder Coated Gate And Post, Add	720.80	
For 1" Mesh Fabric, Add	1,205.96	
For 1-1/4" Mesh Fabric, Add	776.25	
For 1-3/4" Mesh Fabric, Add	482.38	
For 2-1/8" Mesh Fabric, Deduct	-241.19	
32 31 13 13-0340 EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,422.41	124.32
For Gate With Single Barb Wire Arm, Add	335.40	
For Gate With Double Barb Wire Arm, Add	487.85	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-571.70	
For Aluminized Steel Gate And Post, Add	1,463.55	
For Powder Coated Gate And Post, Add	792.76	
For 1" Mesh Fabric, Add	1,326.35	
For 1-1/4" Mesh Fabric, Add	853.74	
For 1-3/4" Mesh Fabric, Add	530.54	
For 2-1/8" Mesh Fabric, Deduct	-265.27	
32 31 13 13-0341 EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,745.81	139.86
For Gate With Single Barb Wire Arm, Add	365.84	
For Gate With Double Barb Wire Arm, Add	532.13	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-623.59	
For Aluminized Steel Gate And Post, Add	1,596.39	
For Powder Coated Gate And Post, Add	864.71	
For 1" Mesh Fabric, Add	1,446.73	
For 1-1/4" Mesh Fabric, Add	931.23	
For 1-3/4" Mesh Fabric, Add	578.69	
For 2-1/8" Mesh Fabric, Deduct	-289.35	
32 31 13 13-0342 EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,082.56	159.81
For Gate With Single Barb Wire Arm, Add	396.28	
For Gate With Double Barb Wire Arm, Add	576.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-675.48	
For Aluminized Steel Gate And Post, Add	1,729.23	
For Powder Coated Gate And Post, Add	936.67	
For 1" Mesh Fabric, Add	1,567.11	
For 1-1/4" Mesh Fabric, Add	1,008.72	
For 1-3/4" Mesh Fabric, Add	626.85	
For 2-1/8" Mesh Fabric, Deduct	-313.42	
32 31 13 13-0343 EA 28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,439.30	186.48
For Gate With Single Barb Wire Arm, Add	426.72	
For Gate With Double Barb Wire Arm, Add	620.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-727.37	
For Aluminized Steel Gate And Post, Add	1,862.06	
For Powder Coated Gate And Post, Add	1,008.62	
For 1" Mesh Fabric, Add	1,687.50	
For 1-1/4" Mesh Fabric, Add	1,086.20	
For 1-3/4" Mesh Fabric, Add	675.00	
For 2-1/8" Mesh Fabric, Deduct	-337.50	
32 31 13 13-0344 EA 30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,828.05	223.76
For Gate With Single Barb Wire Arm, Add	457.17	
For Gate With Double Barb Wire Arm, Add	664.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-779.26	
For Aluminized Steel Gate And Post, Add	1,994.90	
For Powder Coated Gate And Post, Add	1,080.57	
For 1" Mesh Fabric, Add	1,807.88	
For 1-1/4" Mesh Fabric, Add	1,163.69	
For 1-3/4" Mesh Fabric, Add	723.15	
For 2-1/8" Mesh Fabric, Deduct	-361.58	
32 31 13 13-0345 8' Fence Height (32 31 13 13-0264)		
32 31 13 13-0346 EA 3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	500.30	29.83
For Gate With Single Barb Wire Arm, Add	45.18	
For Gate With Double Barb Wire Arm, Add	65.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.01	
For Aluminized Steel Gate And Post, Add	197.15	
For Powder Coated Gate And Post, Add	106.79	
For 1" Mesh Fabric, Add	178.67	
For 1-1/4" Mesh Fabric, Add	115.00	
For 1-3/4" Mesh Fabric, Add	71.47	
For 2-1/8" Mesh Fabric, Deduct	-35.73	
32 31 13 13-0347 EA 4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	637.21	29.83
For Gate With Single Barb Wire Arm, Add	60.24	
For Gate With Double Barb Wire Arm, Add	87.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.68	
For Aluminized Steel Gate And Post, Add	262.87	
For Powder Coated Gate And Post, Add	142.39	
For 1" Mesh Fabric, Add	238.22	
For 1-1/4" Mesh Fabric, Add	153.34	
For 1-3/4" Mesh Fabric, Add	95.29	
For 2-1/8" Mesh Fabric, Deduct	-47.64	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0348	EA 5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire 743.95		33.22
			For Gate With Single Barb Wire Arm, Add	70.85	
			For Gate With Double Barb Wire Arm, Add	103.05	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-120.77	
			For Aluminized Steel Gate And Post, Add	309.16	
			For Powder Coated Gate And Post, Add	167.46	
			For 1" Mesh Fabric, Add	280.17	
			For 1-1/4" Mesh Fabric, Add	180.34	
			For 1-3/4" Mesh Fabric, Add	112.07	
			For 2-1/8" Mesh Fabric, Deduct	-56.03	
32 31	13	13-0349	EA 6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire 853.39		37.62
			For Gate With Single Barb Wire Arm, Add	81.46	
			For Gate With Double Barb Wire Arm, Add	118.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.85	
			For Aluminized Steel Gate And Post, Add	355.46	
			For Powder Coated Gate And Post, Add	192.54	
			For 1" Mesh Fabric, Add	322.13	
			For 1-1/4" Mesh Fabric, Add	207.35	
			For 1-3/4" Mesh Fabric, Add	128.85	
			For 2-1/8" Mesh Fabric, Deduct	-64.43	
32 31	13	13-0350	EA 7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire 973.14		45.32
			For Gate With Single Barb Wire Arm, Add	92.07	
			For Gate With Double Barb Wire Arm, Add	133.92	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.94	
			For Aluminized Steel Gate And Post, Add	401.76	
			For Powder Coated Gate And Post, Add	217.62	
			For 1" Mesh Fabric, Add	364.10	
			For 1-1/4" Mesh Fabric, Add	234.36	
			For 1-3/4" Mesh Fabric, Add	145.64	
			For 2-1/8" Mesh Fabric, Deduct	-72.82	
32 31	13	13-0351	EA 8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire 1,091.98		52.75
			For Gate With Single Barb Wire Arm, Add	102.68	
			For Gate With Double Barb Wire Arm, Add	149.35	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.02	
			For Aluminized Steel Gate And Post, Add	448.06	
			For Powder Coated Gate And Post, Add	242.70	
			For 1" Mesh Fabric, Add	406.05	
			For 1-1/4" Mesh Fabric, Add	261.37	
			For 1-3/4" Mesh Fabric, Add	162.42	
			For 2-1/8" Mesh Fabric, Deduct	-81.21	
32 31	13	13-0352	EA 9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire 1,211.73		60.55
			For Gate With Single Barb Wire Arm, Add	113.29	
			For Gate With Double Barb Wire Arm, Add	164.79	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-193.11	
			For Aluminized Steel Gate And Post, Add	494.36	
			For Powder Coated Gate And Post, Add	267.78	
			For 1" Mesh Fabric, Add	448.01	
			For 1-1/4" Mesh Fabric, Add	288.37	
			For 1-3/4" Mesh Fabric, Add	179.20	
			For 2-1/8" Mesh Fabric, Deduct	-89.60	
32 31	13	13-0353	EA 10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire 1,331.47		68.34
			For Gate With Single Barb Wire Arm, Add	123.90	
			For Gate With Double Barb Wire Arm, Add	180.22	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-211.19	
			For Aluminized Steel Gate And Post, Add	540.66	
			For Powder Coated Gate And Post, Add	292.86	
			For 1" Mesh Fabric, Add	489.97	
			For 1-1/4" Mesh Fabric, Add	315.38	
			For 1-3/4" Mesh Fabric, Add	195.99	
			For 2-1/8" Mesh Fabric, Deduct	-97.99	
32 31	13	13-0354	EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire 1,929.57		79.91
			For Gate With Single Barb Wire Arm, Add	185.85	
			For Gate With Double Barb Wire Arm, Add	270.33	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-316.79	
			For Aluminized Steel Gate And Post, Add	810.99	
			For Powder Coated Gate And Post, Add	439.29	
			For 1" Mesh Fabric, Add	734.96	
			For 1-1/4" Mesh Fabric, Add	473.08	
			For 1-3/4" Mesh Fabric, Add	293.99	
			For 2-1/8" Mesh Fabric, Deduct	-146.99	
32 31	13	13-0355	EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire 2,273.37		86.10
			For Gate With Single Barb Wire Arm, Add	221.64	
			For Gate With Double Barb Wire Arm, Add	322.39	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-377.80	
			For Aluminized Steel Gate And Post, Add	967.16	
			For Powder Coated Gate And Post, Add	523.88	
			For 1" Mesh Fabric, Add	876.49	
			For 1-1/4" Mesh Fabric, Add	564.17	
			For 1-3/4" Mesh Fabric, Add	350.59	
			For 2-1/8" Mesh Fabric, Deduct	-175.30	

32 Exterior Improvements

32 30 Site Improvements

32 31 Fences and Gates



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0356	EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,625.06 257.96 375.21 -439.70 1,125.63 609.72 1,020.10 656.62 408.04 -204.02	93.24
32 31	13	13-0357	EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,990.39 295.34 429.59 -503.42 1,288.77 698.08 1,167.94 751.78 467.18 -233.59	101.75
32 31	13	13-0358	EA 18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,360.79 332.73 483.97 -567.15 1,451.90 786.45 1,315.78 846.94 526.31 -263.16	111.93
32 31	13	13-0359	EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,733.14 369.58 537.57 -629.96 1,612.70 873.55 1,461.51 940.74 584.61 -292.30	124.32
32 31	13	13-0360	EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,109.95 405.89 590.39 -691.87 1,771.18 959.39 1,605.13 1,033.19 642.05 -321.03	139.86
32 31	13	13-0361	EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,509.82 443.28 644.77 -755.59 1,934.31 1,047.75 1,752.97 1,128.35 701.19 -350.59	159.81
32 31	13	13-0362	EA 26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,929.68 480.66 699.15 -819.32 2,097.45 1,136.12 1,900.81 1,223.51 760.32 -380.16	186.48
32 31	13	13-0363	EA 28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	5,376.69 517.52 752.75 -882.13 2,258.25 1,223.22 2,046.54 1,317.31 818.62 -409.31	223.76



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0364 EA 30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,879.70	279.72
For Gate With Single Barb Wire Arm, Add	554.37	
For Gate With Double Barb Wire Arm, Add	806.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-944.94	
For Aluminized Steel Gate And Post, Add	2,419.06	
For Powder Coated Gate And Post, Add	1,310.32	
For 1" Mesh Fabric, Add	2,192.27	
For 1-1/4" Mesh Fabric, Add	1,411.12	
For 1-3/4" Mesh Fabric, Add	876.91	
For 2-1/8" Mesh Fabric, Deduct	-438.45	
32 31 13 13-0365 10' Fence Height (32 31 13 13-0264)		
32 31 13 13-0366 EA 3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	630.64	33.14
For Gate With Single Barb Wire Arm, Add	58.42	
For Gate With Double Barb Wire Arm, Add	84.98	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.59	
For Aluminized Steel Gate And Post, Add	254.94	
For Powder Coated Gate And Post, Add	138.09	
For 1" Mesh Fabric, Add	231.04	
For 1-1/4" Mesh Fabric, Add	148.72	
For 1-3/4" Mesh Fabric, Add	92.42	
For 2-1/8" Mesh Fabric, Deduct	-46.21	
32 31 13 13-0367 EA 4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	807.68	33.14
For Gate With Single Barb Wire Arm, Add	77.90	
For Gate With Double Barb Wire Arm, Add	113.31	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.78	
For Aluminized Steel Gate And Post, Add	339.92	
For Powder Coated Gate And Post, Add	184.12	
For 1" Mesh Fabric, Add	308.05	
For 1-1/4" Mesh Fabric, Add	198.29	
For 1-3/4" Mesh Fabric, Add	123.22	
For 2-1/8" Mesh Fabric, Deduct	-61.61	
32 31 13 13-0368 EA 5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	936.80	34.58
For Gate With Single Barb Wire Arm, Add	91.62	
For Gate With Double Barb Wire Arm, Add	133.27	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.17	
For Aluminized Steel Gate And Post, Add	399.80	
For Powder Coated Gate And Post, Add	216.56	
For 1" Mesh Fabric, Add	362.32	
For 1-1/4" Mesh Fabric, Add	233.21	
For 1-3/4" Mesh Fabric, Add	144.93	
For 2-1/8" Mesh Fabric, Deduct	-72.46	
32 31 13 13-0369 EA 6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,086.62	42.99
For Gate With Single Barb Wire Arm, Add	105.34	
For Gate With Double Barb Wire Arm, Add	153.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-179.56	
For Aluminized Steel Gate And Post, Add	459.67	
For Powder Coated Gate And Post, Add	248.99	
For 1" Mesh Fabric, Add	416.58	
For 1-1/4" Mesh Fabric, Add	268.14	
For 1-3/4" Mesh Fabric, Add	166.63	
For 2-1/8" Mesh Fabric, Deduct	-83.32	
32 31 13 13-0370 EA 7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,235.89	50.97
For Gate With Single Barb Wire Arm, Add	119.06	
For Gate With Double Barb Wire Arm, Add	173.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-202.94	
For Aluminized Steel Gate And Post, Add	519.53	
For Powder Coated Gate And Post, Add	281.41	
For 1" Mesh Fabric, Add	470.82	
For 1-1/4" Mesh Fabric, Add	303.06	
For 1-3/4" Mesh Fabric, Add	188.33	
For 2-1/8" Mesh Fabric, Deduct	-94.16	
32 31 13 13-0371 EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,385.31	59.38
For Gate With Single Barb Wire Arm, Add	132.78	
For Gate With Double Barb Wire Arm, Add	193.13	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.33	
For Aluminized Steel Gate And Post, Add	579.40	
For Powder Coated Gate And Post, Add	313.84	
For 1" Mesh Fabric, Add	525.08	
For 1-1/4" Mesh Fabric, Add	337.98	
For 1-3/4" Mesh Fabric, Add	210.03	
For 2-1/8" Mesh Fabric, Deduct	-105.02	
32 31 13 13-0372 EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,534.23	67.45
For Gate With Single Barb Wire Arm, Add	146.50	
For Gate With Double Barb Wire Arm, Add	213.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-249.72	
For Aluminized Steel Gate And Post, Add	639.27	
For Powder Coated Gate And Post, Add	346.27	
For 1" Mesh Fabric, Add	579.34	
For 1-1/4" Mesh Fabric, Add	372.91	
For 1-3/4" Mesh Fabric, Add	231.74	
For 2-1/8" Mesh Fabric, Deduct	-115.87	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0373 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,684.06	75.77
For Gate With Single Barb Wire Arm, Add	160.22	
For Gate With Double Barb Wire Arm, Add	233.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-273.11	
For Aluminized Steel Gate And Post, Add	699.15	
For Powder Coated Gate And Post, Add	378.71	
For 1" Mesh Fabric, Add	633.60	
For 1-1/4" Mesh Fabric, Add	407.84	
For 1-3/4" Mesh Fabric, Add	253.44	
For 2-1/8" Mesh Fabric, Deduct	-126.72	
32 31 13 13-0374 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	2,451.48	88.83
For Gate With Single Barb Wire Arm, Add	240.33	
For Gate With Double Barb Wire Arm, Add	349.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-409.65	
For Aluminized Steel Gate And Post, Add	1,048.71	
For Powder Coated Gate And Post, Add	568.05	
For 1" Mesh Fabric, Add	950.40	
For 1-1/4" Mesh Fabric, Add	611.75	
For 1-3/4" Mesh Fabric, Add	380.16	
For 2-1/8" Mesh Fabric, Deduct	-190.08	
32 31 13 13-0375 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	2,666.16	95.55
For Gate With Single Barb Wire Arm, Add	261.70	
For Gate With Double Barb Wire Arm, Add	380.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-446.08	
For Aluminized Steel Gate And Post, Add	1,141.96	
For Powder Coated Gate And Post, Add	618.56	
For 1" Mesh Fabric, Add	1,034.90	
For 1-1/4" Mesh Fabric, Add	666.14	
For 1-3/4" Mesh Fabric, Add	413.96	
For 2-1/8" Mesh Fabric, Deduct	-206.98	
32 31 13 13-0376 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	3,039.74	103.63
For Gate With Single Barb Wire Arm, Add	300.15	
For Gate With Double Barb Wire Arm, Add	436.58	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-511.62	
For Aluminized Steel Gate And Post, Add	1,309.74	
For Powder Coated Gate And Post, Add	709.44	
For 1" Mesh Fabric, Add	1,186.95	
For 1-1/4" Mesh Fabric, Add	764.01	
For 1-3/4" Mesh Fabric, Add	474.78	
For 2-1/8" Mesh Fabric, Deduct	-237.39	
32 31 13 13-0377 EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	3,456.30	112.98
For Gate With Single Barb Wire Arm, Add	342.87	
For Gate With Double Barb Wire Arm, Add	498.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-584.45	
For Aluminized Steel Gate And Post, Add	1,496.18	
For Powder Coated Gate And Post, Add	810.43	
For 1" Mesh Fabric, Add	1,355.91	
For 1-1/4" Mesh Fabric, Add	872.77	
For 1-3/4" Mesh Fabric, Add	542.36	
For 2-1/8" Mesh Fabric, Deduct	-271.18	
32 31 13 13-0378 EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	3,878.79	124.32
For Gate With Single Barb Wire Arm, Add	385.60	
For Gate With Double Barb Wire Arm, Add	560.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-657.27	
For Aluminized Steel Gate And Post, Add	1,682.62	
For Powder Coated Gate And Post, Add	911.42	
For 1" Mesh Fabric, Add	1,524.87	
For 1-1/4" Mesh Fabric, Add	981.53	
For 1-3/4" Mesh Fabric, Add	609.95	
For 2-1/8" Mesh Fabric, Deduct	-304.97	
32 31 13 13-0379 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	4,310.91	138.07
For Gate With Single Barb Wire Arm, Add	428.59	
For Gate With Double Barb Wire Arm, Add	623.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-730.56	
For Aluminized Steel Gate And Post, Add	1,870.22	
For Powder Coated Gate And Post, Add	1,013.04	
For 1" Mesh Fabric, Add	1,694.89	
For 1-1/4" Mesh Fabric, Add	1,090.96	
For 1-3/4" Mesh Fabric, Add	677.96	
For 2-1/8" Mesh Fabric, Deduct	-338.98	
32 31 13 13-0380 EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	4,753.81	155.40
For Gate With Single Barb Wire Arm, Add	471.59	
For Gate With Double Barb Wire Arm, Add	685.94	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-803.84	
For Aluminized Steel Gate And Post, Add	2,057.83	
For Powder Coated Gate And Post, Add	1,114.66	
For 1" Mesh Fabric, Add	1,864.91	
For 1-1/4" Mesh Fabric, Add	1,200.40	
For 1-3/4" Mesh Fabric, Add	745.96	
For 2-1/8" Mesh Fabric, Deduct	-372.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0381	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	5,208.55 514.31 748.09 -876.67 2,244.27 1,215.65 2,033.87 1,309.16 813.55 -406.77	177.45
32 31	13 13-0382	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	5,686.19 557.04 810.24 -949.49 2,430.71 1,316.63 2,202.83 1,417.91 881.13 -440.57	207.17
32 31	13 13-0383	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,198.39 599.76 872.38 -1,022.32 2,617.15 1,417.62 2,371.79 1,526.67 948.72 -474.36	248.43
32 31	13 13-0384	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,778.99 643.02 935.31 -1,096.06 2,805.92 1,519.87 2,542.86 1,636.78 1,017.14 -508.57	310.80
32 31	13 13-0385		12' Fence Height (22 31 13 13-0264)		
32 31	13 13-0386	EA	3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	790.41 74.78 108.77 -127.47 326.32 176.76 295.73 190.36 118.29 -59.15	36.82
32 31	13 13-0387	EA	4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,017.02 99.71 145.03 -169.96 435.10 235.68 394.31 253.81 157.72 -78.86	36.82
32 31	13 13-0388	EA	5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,180.76 117.27 170.58 -199.90 511.74 277.19 463.76 298.51 185.50 -92.75	38.16
32 31	13 13-0389	EA	6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,368.19 134.84 196.12 -229.83 588.37 318.70 533.21 343.22 213.29 -106.64	47.38

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0390	EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	619.76	56.70
	For Gate With Single Barb Wire Arm, Add	49.45	
	For Gate With Double Barb Wire Arm, Add	71.93	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.30	
	For Aluminized Steel Gate And Post, Add	215.80	
	For Powder Coated Gate And Post, Add	116.89	
	For 1" Mesh Fabric, Add	195.57	
	For 1-1/4" Mesh Fabric, Add	125.88	
	For 1-3/4" Mesh Fabric, Add	78.23	
	For 2-1/8" Mesh Fabric, Deduct	-39.11	
32 31 13 13-0391	EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	698.45	65.65
	For Gate With Single Barb Wire Arm, Add	55.15	
	For Gate With Double Barb Wire Arm, Add	80.22	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.01	
	For Aluminized Steel Gate And Post, Add	240.67	
	For Powder Coated Gate And Post, Add	130.36	
	For 1" Mesh Fabric, Add	218.11	
	For 1-1/4" Mesh Fabric, Add	140.39	
	For 1-3/4" Mesh Fabric, Add	87.24	
	For 2-1/8" Mesh Fabric, Deduct	-43.62	
32 31 13 13-0392	EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	778.03	74.88
	For Gate With Single Barb Wire Arm, Add	60.85	
	For Gate With Double Barb Wire Arm, Add	88.51	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.73	
	For Aluminized Steel Gate And Post, Add	265.54	
	For Powder Coated Gate And Post, Add	143.83	
	For 1" Mesh Fabric, Add	240.65	
	For 1-1/4" Mesh Fabric, Add	154.90	
	For 1-3/4" Mesh Fabric, Add	96.26	
	For 2-1/8" Mesh Fabric, Deduct	-48.13	
32 31 13 13-0393	EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	857.61	84.10
	For Gate With Single Barb Wire Arm, Add	66.55	
	For Gate With Double Barb Wire Arm, Add	96.80	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.44	
	For Aluminized Steel Gate And Post, Add	290.41	
	For Powder Coated Gate And Post, Add	157.31	
	For 1" Mesh Fabric, Add	263.18	
	For 1-1/4" Mesh Fabric, Add	169.41	
	For 1-3/4" Mesh Fabric, Add	105.27	
	For 2-1/8" Mesh Fabric, Deduct	-52.64	
32 31 13 13-0394	EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,139.24	98.70
	For Gate With Single Barb Wire Arm, Add	92.72	
	For Gate With Double Barb Wire Arm, Add	134.87	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.05	
	For Aluminized Steel Gate And Post, Add	404.62	
	For Powder Coated Gate And Post, Add	219.17	
	For 1" Mesh Fabric, Add	366.68	
	For 1-1/4" Mesh Fabric, Add	236.03	
	For 1-3/4" Mesh Fabric, Add	146.67	
	For 2-1/8" Mesh Fabric, Deduct	-73.34	
32 31 13 13-0395	EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,245.36	106.26
	For Gate With Single Barb Wire Arm, Add	101.91	
	For Gate With Double Barb Wire Arm, Add	148.23	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-173.71	
	For Aluminized Steel Gate And Post, Add	444.70	
	For Powder Coated Gate And Post, Add	240.88	
	For 1" Mesh Fabric, Add	403.01	
	For 1-1/4" Mesh Fabric, Add	259.41	
	For 1-3/4" Mesh Fabric, Add	161.20	
	For 2-1/8" Mesh Fabric, Deduct	-80.60	
32 31 13 13-0396	EA 14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,407.63	115.08
	For Gate With Single Barb Wire Arm, Add	116.81	
	For Gate With Double Barb Wire Arm, Add	169.91	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-199.12	
	For Aluminized Steel Gate And Post, Add	509.74	
	For Powder Coated Gate And Post, Add	276.11	
	For 1" Mesh Fabric, Add	461.95	
	For 1-1/4" Mesh Fabric, Add	297.35	
	For 1-3/4" Mesh Fabric, Add	184.78	
	For 2-1/8" Mesh Fabric, Deduct	-92.39	
32 31 13 13-0397	EA 16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,590.23	125.47
	For Gate With Single Barb Wire Arm, Add	133.45	
	For Gate With Double Barb Wire Arm, Add	194.11	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.48	
	For Aluminized Steel Gate And Post, Add	582.34	
	For Powder Coated Gate And Post, Add	315.43	
	For 1" Mesh Fabric, Add	527.75	
	For 1-1/4" Mesh Fabric, Add	339.70	
	For 1-3/4" Mesh Fabric, Add	211.10	
	For 2-1/8" Mesh Fabric, Deduct	-105.55	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0398 EA 18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	4,619.21 462.51 672.74 -788.36 2,018.21 1,093.20 1,829.00 1,177.29 731.60 -365.80	138.18
32 31 13 13-0399 EA 20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	5,136.09 514.31 748.09 -876.67 2,244.27 1,215.65 2,033.87 1,309.16 813.55 -406.77	153.40
32 31 13 13-0400 EA 22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	5,660.17 565.58 822.67 -964.06 2,468.00 1,336.83 2,236.62 1,439.66 894.65 -447.32	172.63
32 31 13 13-0401 EA 24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,204.83 617.39 898.02 -1,052.36 2,694.05 1,459.28 2,441.49 1,571.53 976.59 -488.30	197.19
32 31 13 13-0402 EA 26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,765.22 668.12 971.82 -1,138.85 2,915.45 1,579.20 2,642.13 1,700.68 1,056.85 -528.43	230.27
32 31 13 13-0403 EA 28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	7,368.84 719.39 1,046.39 -1,226.24 3,139.18 1,700.39 2,844.88 1,831.19 1,137.95 -568.98	276.04
32 31 13 13-0404 EA 30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	8,047.95 771.20 1,121.75 -1,314.55 3,365.24 1,822.84 3,049.75 1,963.05 1,219.90 -609.95	345.34
32 31 13 13-0405 Vinyl Coated Without Barb Wire Arm <small>(32 31 13 13-0263)</small> Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0406 4' Fence Height <small>(32 31 13 13-0405)</small>		
32 31 13 13-0407 EA 3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	172.32 -19.71 45.74 29.44 18.29 -9.15 11.57 16.82	22.39

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0408 EA 4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	207.36	22.39
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-26.28	
For 1" Mesh Fabric, Add	60.98	
For 1-1/4" Mesh Fabric, Add	39.25	
For 1-3/4" Mesh Fabric, Add	24.39	
For 2-1/8" Mesh Fabric, Deduct	-12.20	
For Gate With Single Barb Wire Arm, Add	15.42	
For Gate With Double Barb Wire Arm, Add	22.43	
32 31 13 13-0409 EA 5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	241.04	23.82
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-31.76	
For 1" Mesh Fabric, Add	73.68	
For 1-1/4" Mesh Fabric, Add	47.43	
For 1-3/4" Mesh Fabric, Add	29.47	
For 2-1/8" Mesh Fabric, Deduct	-14.74	
For Gate With Single Barb Wire Arm, Add	18.63	
For Gate With Double Barb Wire Arm, Add	27.10	
32 31 13 13-0410 EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	284.58	28.67
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.24	
For 1" Mesh Fabric, Add	86.39	
For 1-1/4" Mesh Fabric, Add	55.61	
For 1-3/4" Mesh Fabric, Add	34.55	
For 2-1/8" Mesh Fabric, Deduct	-17.28	
For Gate With Single Barb Wire Arm, Add	21.84	
For Gate With Double Barb Wire Arm, Add	31.77	
32 31 13 13-0411 EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	328.10	33.41
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.71	
For 1" Mesh Fabric, Add	99.09	
For 1-1/4" Mesh Fabric, Add	63.78	
For 1-3/4" Mesh Fabric, Add	39.64	
For 2-1/8" Mesh Fabric, Deduct	-19.82	
For Gate With Single Barb Wire Arm, Add	25.06	
For Gate With Double Barb Wire Arm, Add	36.45	
32 31 13 13-0412 EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	371.65	38.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-48.19	
For 1" Mesh Fabric, Add	111.80	
For 1-1/4" Mesh Fabric, Add	71.96	
For 1-3/4" Mesh Fabric, Add	44.72	
For 2-1/8" Mesh Fabric, Deduct	-22.36	
For Gate With Single Barb Wire Arm, Add	28.27	
For Gate With Double Barb Wire Arm, Add	41.12	
32 31 13 13-0413 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	415.19	42.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.66	
For 1" Mesh Fabric, Add	124.50	
For 1-1/4" Mesh Fabric, Add	80.14	
For 1-3/4" Mesh Fabric, Add	49.80	
For 2-1/8" Mesh Fabric, Deduct	-24.90	
For Gate With Single Barb Wire Arm, Add	31.48	
For Gate With Double Barb Wire Arm, Add	45.79	
32 31 13 13-0414 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	458.72	47.74
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.14	
For 1" Mesh Fabric, Add	137.20	
For 1-1/4" Mesh Fabric, Add	88.31	
For 1-3/4" Mesh Fabric, Add	54.88	
For 2-1/8" Mesh Fabric, Deduct	-27.44	
For Gate With Single Barb Wire Arm, Add	34.70	
For Gate With Double Barb Wire Arm, Add	50.47	
32 31 13 13-0415 EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	563.86	47.74
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.85	
For 1" Mesh Fabric, Add	182.94	
For 1-1/4" Mesh Fabric, Add	117.75	
For 1-3/4" Mesh Fabric, Add	73.18	
For 2-1/8" Mesh Fabric, Deduct	-36.59	
For Gate With Single Barb Wire Arm, Add	46.26	
For Gate With Double Barb Wire Arm, Add	67.29	
32 31 13 13-0416 EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	658.20	51.14
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.62	
For 1" Mesh Fabric, Add	219.53	
For 1-1/4" Mesh Fabric, Add	141.30	
For 1-3/4" Mesh Fabric, Add	87.81	
For 2-1/8" Mesh Fabric, Deduct	-43.91	
For Gate With Single Barb Wire Arm, Add	55.51	
For Gate With Double Barb Wire Arm, Add	80.75	
32 31 13 13-0417 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	754.12	55.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.39	
For 1" Mesh Fabric, Add	256.11	
For 1-1/4" Mesh Fabric, Add	164.86	
For 1-3/4" Mesh Fabric, Add	102.45	
For 2-1/8" Mesh Fabric, Deduct	-51.22	
For Gate With Single Barb Wire Arm, Add	64.76	
For Gate With Double Barb Wire Arm, Add	94.20	



Exterior Improvements 32
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Fences and Gates 32 31

MINOR	CSU	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0418	EA		16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	852.02 -126.17 292.70 188.41 117.08 -58.54 74.02 107.66	59.65
32 31 13 13-0419	EA		18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	980.99 -141.94 329.29 211.96 131.72 -65.86 83.27 121.12	74.55
32 31 13 13-0420	EA		20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,081.10 -157.71 365.88 235.51 146.35 -73.18 92.52 134.58	79.91
32 31 13 13-0421	EA		22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,183.67 -173.48 402.47 259.06 160.99 -80.49 101.77 148.03	86.10
32 31 13 13-0422	EA		24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,289.31 -189.25 439.05 282.61 175.62 -87.81 111.02 161.49	93.24
32 31 13 13-0423	EA		26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,398.88 -205.02 475.64 306.16 190.26 -95.13 120.28 174.95	101.75
32 31 13 13-0424	EA		28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,513.53 -220.79 512.23 329.71 204.89 -102.45 129.53 188.40	111.93
32 31 13 13-0425	EA		30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,634.98 -236.56 548.81 353.26 219.53 -109.76 138.78 201.86	124.32
32 31 13 13-0426 5' Fence Height <small>(32 31 13 13-0405)</small>					
32 31 13 13-0427	EA		3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	201.93 -24.43 56.67 36.48 22.67 -11.33 14.33 20.84	23.82
32 31 13 13-0428	EA		4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	245.36 -32.57 75.56 48.64 30.23 -15.11 19.11 27.79	23.82

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0429 EA 5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	282.42	25.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.68	
For 1" Mesh Fabric, Add	89.74	
For 1-1/4" Mesh Fabric, Add	57.76	
For 1-3/4" Mesh Fabric, Add	35.89	
For 2-1/8" Mesh Fabric, Deduct	-17.95	
For Gate With Single Barb Wire Arm, Add	22.69	
For Gate With Double Barb Wire Arm, Add	33.01	
32 31 13 13-0430 EA 6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	330.20	30.45
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.78	
For 1" Mesh Fabric, Add	103.90	
For 1-1/4" Mesh Fabric, Add	66.88	
For 1-3/4" Mesh Fabric, Add	41.56	
For 2-1/8" Mesh Fabric, Deduct	-20.78	
For Gate With Single Barb Wire Arm, Add	26.27	
For Gate With Double Barb Wire Arm, Add	38.22	
32 31 13 13-0431 EA 7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	378.00	35.46
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.89	
For 1" Mesh Fabric, Add	118.07	
For 1-1/4" Mesh Fabric, Add	76.00	
For 1-3/4" Mesh Fabric, Add	47.23	
For 2-1/8" Mesh Fabric, Deduct	-23.61	
For Gate With Single Barb Wire Arm, Add	29.86	
For Gate With Double Barb Wire Arm, Add	43.43	
32 31 13 13-0432 EA 8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	426.69	40.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.00	
For 1" Mesh Fabric, Add	132.24	
For 1-1/4" Mesh Fabric, Add	85.12	
For 1-3/4" Mesh Fabric, Add	52.89	
For 2-1/8" Mesh Fabric, Deduct	-26.45	
For Gate With Single Barb Wire Arm, Add	33.44	
For Gate With Double Barb Wire Arm, Add	48.64	
32 31 13 13-0433 EA 9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	474.49	45.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.11	
For 1" Mesh Fabric, Add	146.40	
For 1-1/4" Mesh Fabric, Add	94.24	
For 1-3/4" Mesh Fabric, Add	58.56	
For 2-1/8" Mesh Fabric, Deduct	-29.28	
For Gate With Single Barb Wire Arm, Add	37.02	
For Gate With Double Barb Wire Arm, Add	53.85	
32 31 13 13-0434 EA 10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	522.27	50.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.21	
For 1" Mesh Fabric, Add	160.57	
For 1-1/4" Mesh Fabric, Add	103.35	
For 1-3/4" Mesh Fabric, Add	64.23	
For 2-1/8" Mesh Fabric, Deduct	-32.11	
For Gate With Single Barb Wire Arm, Add	40.60	
For Gate With Double Barb Wire Arm, Add	59.06	
32 31 13 13-0435 EA 10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	674.66	51.14
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.71	
For 1" Mesh Fabric, Add	226.69	
For 1-1/4" Mesh Fabric, Add	145.91	
For 1-3/4" Mesh Fabric, Add	90.67	
For 2-1/8" Mesh Fabric, Deduct	-45.34	
For Gate With Single Barb Wire Arm, Add	57.32	
For Gate With Double Barb Wire Arm, Add	83.38	
32 31 13 13-0436 EA 12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	790.69	55.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-117.25	
For 1" Mesh Fabric, Add	272.02	
For 1-1/4" Mesh Fabric, Add	175.10	
For 1-3/4" Mesh Fabric, Add	108.81	
For 2-1/8" Mesh Fabric, Deduct	-54.40	
For Gate With Single Barb Wire Arm, Add	68.79	
For Gate With Double Barb Wire Arm, Add	100.05	
32 31 13 13-0437 EA 14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	908.70	59.65
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-136.79	
For 1" Mesh Fabric, Add	317.36	
For 1-1/4" Mesh Fabric, Add	204.28	
For 1-3/4" Mesh Fabric, Add	126.94	
For 2-1/8" Mesh Fabric, Deduct	-63.47	
For Gate With Single Barb Wire Arm, Add	80.25	
For Gate With Double Barb Wire Arm, Add	116.73	
32 31 13 13-0438 EA 16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,057.78	74.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.33	
For 1" Mesh Fabric, Add	362.69	
For 1-1/4" Mesh Fabric, Add	233.46	
For 1-3/4" Mesh Fabric, Add	145.08	
For 2-1/8" Mesh Fabric, Deduct	-72.54	
For Gate With Single Barb Wire Arm, Add	91.72	
For Gate With Double Barb Wire Arm, Add	133.40	



Exterior Improvements	32
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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0439	EA 18 Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,178.01	79.91
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.88	
	For 1" Mesh Fabric, Add	408.03	
	For 1-1/4" Mesh Fabric, Add	262.64	
	For 1-3/4" Mesh Fabric, Add	163.21	
	For 2-1/8" Mesh Fabric, Deduct	-81.61	
	For Gate With Single Barb Wire Arm, Add	103.18	
	For Gate With Double Barb Wire Arm, Add	150.08	
32 31 13 13-0440	EA 20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,300.69	86.10
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-195.42	
	For 1" Mesh Fabric, Add	453.37	
	For 1-1/4" Mesh Fabric, Add	291.82	
	For 1-3/4" Mesh Fabric, Add	181.35	
	For 2-1/8" Mesh Fabric, Deduct	-90.67	
	For Gate With Single Barb Wire Arm, Add	114.65	
	For Gate With Double Barb Wire Arm, Add	166.76	
32 31 13 13-0441	EA 22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,426.45	93.24
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-214.96	
	For 1" Mesh Fabric, Add	498.71	
	For 1-1/4" Mesh Fabric, Add	321.01	
	For 1-3/4" Mesh Fabric, Add	199.48	
	For 2-1/8" Mesh Fabric, Deduct	-99.74	
	For Gate With Single Barb Wire Arm, Add	126.11	
	For Gate With Double Barb Wire Arm, Add	183.43	
32 31 13 13-0442	EA 24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,556.14	101.75
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-234.50	
	For 1" Mesh Fabric, Add	544.05	
	For 1-1/4" Mesh Fabric, Add	350.19	
	For 1-3/4" Mesh Fabric, Add	217.62	
	For 2-1/8" Mesh Fabric, Deduct	-108.81	
	For Gate With Single Barb Wire Arm, Add	137.57	
	For Gate With Double Barb Wire Arm, Add	200.11	
32 31 13 13-0443	EA 26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,690.90	111.93
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-254.04	
	For 1" Mesh Fabric, Add	589.38	
	For 1-1/4" Mesh Fabric, Add	379.37	
	For 1-3/4" Mesh Fabric, Add	235.75	
	For 2-1/8" Mesh Fabric, Deduct	-117.88	
	For Gate With Single Barb Wire Arm, Add	149.04	
	For Gate With Double Barb Wire Arm, Add	216.78	
32 31 13 13-0444	EA 28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,832.46	124.32
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-273.59	
	For 1" Mesh Fabric, Add	634.72	
	For 1-1/4" Mesh Fabric, Add	408.55	
	For 1-3/4" Mesh Fabric, Add	253.89	
	For 2-1/8" Mesh Fabric, Deduct	-126.94	
	For Gate With Single Barb Wire Arm, Add	160.50	
	For Gate With Double Barb Wire Arm, Add	233.46	
32 31 13 13-0445	EA 30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,983.35	139.86
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-293.13	
	For 1" Mesh Fabric, Add	680.06	
	For 1-1/4" Mesh Fabric, Add	437.74	
	For 1-3/4" Mesh Fabric, Add	272.02	
	For 2-1/8" Mesh Fabric, Deduct	-136.01	
	For Gate With Single Barb Wire Arm, Add	171.97	
	For Gate With Double Barb Wire Arm, Add	250.14	
32 31 13 13-0446	6' Fence Height (32 31 13 13-0405)		
32 31 13 13-0447	EA 3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	216.00	25.53
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-26.11	
	For 1" Mesh Fabric, Add	60.57	
	For 1-1/4" Mesh Fabric, Add	38.98	
	For 1-3/4" Mesh Fabric, Add	24.23	
	For 2-1/8" Mesh Fabric, Deduct	-12.11	
	For Gate With Single Barb Wire Arm, Add	15.32	
	For Gate With Double Barb Wire Arm, Add	22.28	
32 31 13 13-0448	EA 4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	262.41	25.53
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.81	
	For 1" Mesh Fabric, Add	80.75	
	For 1-1/4" Mesh Fabric, Add	51.98	
	For 1-3/4" Mesh Fabric, Add	32.30	
	For 2-1/8" Mesh Fabric, Deduct	-16.15	
	For Gate With Single Barb Wire Arm, Add	20.42	
	For Gate With Double Barb Wire Arm, Add	29.70	
32 31 13 13-0449	EA 5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	301.95	27.14
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.33	
	For 1" Mesh Fabric, Add	95.90	
	For 1-1/4" Mesh Fabric, Add	61.73	
	For 1-3/4" Mesh Fabric, Add	38.36	
	For 2-1/8" Mesh Fabric, Deduct	-19.18	
	For Gate With Single Barb Wire Arm, Add	24.25	
	For Gate With Double Barb Wire Arm, Add	35.27	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0450	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	353.78	32.78
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-47.86	
		<i>For 1" Mesh Fabric, Add</i>	111.04	
		<i>For 1-1/4" Mesh Fabric, Add</i>	71.47	
		<i>For 1-3/4" Mesh Fabric, Add</i>	44.42	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-22.21	
		<i>For Gate With Single Barb Wire Arm, Add</i>	28.08	
		<i>For Gate With Double Barb Wire Arm, Add</i>	40.84	
32 31 13 13-0451	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	405.61	38.51
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-54.39	
		<i>For 1" Mesh Fabric, Add</i>	126.18	
		<i>For 1-1/4" Mesh Fabric, Add</i>	81.22	
		<i>For 1-3/4" Mesh Fabric, Add</i>	50.47	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-25.24	
		<i>For Gate With Single Barb Wire Arm, Add</i>	31.91	
		<i>For Gate With Double Barb Wire Arm, Add</i>	46.41	
32 31 13 13-0452	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	456.54	43.89
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-60.92	
		<i>For 1" Mesh Fabric, Add</i>	141.32	
		<i>For 1-1/4" Mesh Fabric, Add</i>	90.97	
		<i>For 1-3/4" Mesh Fabric, Add</i>	56.53	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-28.26	
		<i>For Gate With Single Barb Wire Arm, Add</i>	35.74	
		<i>For Gate With Double Barb Wire Arm, Add</i>	51.98	
32 31 13 13-0453	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	508.36	49.53
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-67.44	
		<i>For 1" Mesh Fabric, Add</i>	156.46	
		<i>For 1-1/4" Mesh Fabric, Add</i>	100.71	
		<i>For 1-3/4" Mesh Fabric, Add</i>	62.58	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-31.29	
		<i>For Gate With Single Barb Wire Arm, Add</i>	39.56	
		<i>For Gate With Double Barb Wire Arm, Add</i>	57.55	
32 31 13 13-0454	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	560.19	55.17
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-73.97	
		<i>For 1" Mesh Fabric, Add</i>	171.60	
		<i>For 1-1/4" Mesh Fabric, Add</i>	110.46	
		<i>For 1-3/4" Mesh Fabric, Add</i>	68.64	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-34.32	
		<i>For Gate With Single Barb Wire Arm, Add</i>	43.39	
		<i>For Gate With Double Barb Wire Arm, Add</i>	63.12	
32 31 13 13-0455	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	722.27	55.08
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-104.42	
		<i>For 1" Mesh Fabric, Add</i>	242.26	
		<i>For 1-1/4" Mesh Fabric, Add</i>	155.94	
		<i>For 1-3/4" Mesh Fabric, Add</i>	96.90	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-48.45	
		<i>For Gate With Single Barb Wire Arm, Add</i>	61.26	
		<i>For Gate With Double Barb Wire Arm, Add</i>	89.11	
32 31 13 13-0456	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	847.45	59.65
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-125.31	
		<i>For 1" Mesh Fabric, Add</i>	290.71	
		<i>For 1-1/4" Mesh Fabric, Add</i>	187.13	
		<i>For 1-3/4" Mesh Fabric, Add</i>	116.29	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-58.14	
		<i>For Gate With Single Barb Wire Arm, Add</i>	73.51	
		<i>For Gate With Double Barb Wire Arm, Add</i>	106.93	
32 31 13 13-0457	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,019.69	79.91
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-146.19	
		<i>For 1" Mesh Fabric, Add</i>	339.17	
		<i>For 1-1/4" Mesh Fabric, Add</i>	218.31	
		<i>For 1-3/4" Mesh Fabric, Add</i>	135.67	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-67.83	
		<i>For Gate With Single Barb Wire Arm, Add</i>	85.77	
		<i>For Gate With Double Barb Wire Arm, Add</i>	124.75	
32 31 13 13-0458	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,149.54	86.10
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-167.08	
		<i>For 1" Mesh Fabric, Add</i>	387.62	
		<i>For 1-1/4" Mesh Fabric, Add</i>	249.50	
		<i>For 1-3/4" Mesh Fabric, Add</i>	155.05	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-77.52	
		<i>For Gate With Single Barb Wire Arm, Add</i>	98.02	
		<i>For Gate With Double Barb Wire Arm, Add</i>	142.57	
32 31 13 13-0459	EA	18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,282.46	93.24
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-187.96	
		<i>For 1" Mesh Fabric, Add</i>	436.07	
		<i>For 1-1/4" Mesh Fabric, Add</i>	280.69	
		<i>For 1-3/4" Mesh Fabric, Add</i>	174.43	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-87.21	
		<i>For Gate With Single Barb Wire Arm, Add</i>	110.27	
		<i>For Gate With Double Barb Wire Arm, Add</i>	160.39	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0460 EA 20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,439.89	101.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.71	
For 1" Mesh Fabric, Add	493.48	
For 1-1/4" Mesh Fabric, Add	317.64	
For 1-3/4" Mesh Fabric, Add	197.39	
For 2-1/8" Mesh Fabric, Deduct	-98.70	
For Gate With Single Barb Wire Arm, Add	124.79	
For Gate With Double Barb Wire Arm, Add	181.51	
32 31 13 13-0461 EA 22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,564.97	111.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-230.43	
For 1" Mesh Fabric, Add	534.60	
For 1-1/4" Mesh Fabric, Add	344.11	
For 1-3/4" Mesh Fabric, Add	213.84	
For 2-1/8" Mesh Fabric, Deduct	-106.92	
For Gate With Single Barb Wire Arm, Add	135.19	
For Gate With Double Barb Wire Arm, Add	196.64	
32 31 13 13-0462 EA 24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,709.96	124.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-250.62	
For 1" Mesh Fabric, Add	581.43	
For 1-1/4" Mesh Fabric, Add	374.25	
For 1-3/4" Mesh Fabric, Add	232.57	
For 2-1/8" Mesh Fabric, Deduct	-116.29	
For Gate With Single Barb Wire Arm, Add	147.03	
For Gate With Double Barb Wire Arm, Add	213.86	
32 31 13 13-0463 EA 26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,868.00	139.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-271.50	
For 1" Mesh Fabric, Add	629.88	
For 1-1/4" Mesh Fabric, Add	405.44	
For 1-3/4" Mesh Fabric, Add	251.95	
For 2-1/8" Mesh Fabric, Deduct	-125.98	
For Gate With Single Barb Wire Arm, Add	159.28	
For Gate With Double Barb Wire Arm, Add	231.68	
32 31 13 13-0464 EA 28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,039.39	159.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-292.39	
For 1" Mesh Fabric, Add	678.33	
For 1-1/4" Mesh Fabric, Add	436.63	
For 1-3/4" Mesh Fabric, Add	271.33	
For 2-1/8" Mesh Fabric, Deduct	-135.67	
For Gate With Single Barb Wire Arm, Add	171.53	
For Gate With Double Barb Wire Arm, Add	249.50	
32 31 13 13-0465 EA 30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,230.77	186.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-313.27	
For 1" Mesh Fabric, Add	726.78	
For 1-1/4" Mesh Fabric, Add	467.82	
For 1-3/4" Mesh Fabric, Add	290.71	
For 2-1/8" Mesh Fabric, Deduct	-145.36	
For Gate With Single Barb Wire Arm, Add	183.78	
For Gate With Double Barb Wire Arm, Add	267.32	
32 31 13 13-0466 7' Fence Height (32 31 13 13-0405)		
32 31 13 13-0467 EA 3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	228.92	27.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.42	
For 1" Mesh Fabric, Add	63.61	
For 1-1/4" Mesh Fabric, Add	40.95	
For 1-3/4" Mesh Fabric, Add	25.45	
For 2-1/8" Mesh Fabric, Deduct	-12.72	
For Gate With Single Barb Wire Arm, Add	16.09	
For Gate With Double Barb Wire Arm, Add	23.40	
32 31 13 13-0468 EA 4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	277.67	27.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.56	
For 1" Mesh Fabric, Add	84.82	
For 1-1/4" Mesh Fabric, Add	54.60	
For 1-3/4" Mesh Fabric, Add	33.93	
For 2-1/8" Mesh Fabric, Deduct	-16.96	
For Gate With Single Barb Wire Arm, Add	21.45	
For Gate With Double Barb Wire Arm, Add	31.20	
32 31 13 13-0469 EA 5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	318.43	28.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.42	
For 1" Mesh Fabric, Add	100.73	
For 1-1/4" Mesh Fabric, Add	64.84	
For 1-3/4" Mesh Fabric, Add	40.29	
For 2-1/8" Mesh Fabric, Deduct	-20.15	
For Gate With Single Barb Wire Arm, Add	25.47	
For Gate With Double Barb Wire Arm, Add	37.05	
32 31 13 13-0470 EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	373.80	35.20
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.27	
For 1" Mesh Fabric, Add	116.63	
For 1-1/4" Mesh Fabric, Add	75.07	
For 1-3/4" Mesh Fabric, Add	46.65	
For 2-1/8" Mesh Fabric, Deduct	-23.33	
For Gate With Single Barb Wire Arm, Add	29.49	
For Gate With Double Barb Wire Arm, Add	42.90	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0471	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	428.28	41.20
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-57.13	
			<i>For 1" Mesh Fabric, Add</i>	132.54	
			<i>For 1-1/4" Mesh Fabric, Add</i>	85.31	
			<i>For 1-3/4" Mesh Fabric, Add</i>	53.01	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-26.51	
			<i>For Gate With Single Barb Wire Arm, Add</i>	33.51	
			<i>For Gate With Double Barb Wire Arm, Add</i>	48.75	
32 31	13 13-0472	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	483.66	47.38
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-63.98	
			<i>For 1" Mesh Fabric, Add</i>	148.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	95.55	
			<i>For 1-3/4" Mesh Fabric, Add</i>	59.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-29.69	
			<i>For Gate With Single Barb Wire Arm, Add</i>	37.54	
			<i>For Gate With Double Barb Wire Arm, Add</i>	54.60	
32 31	13 13-0473	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	538.12	53.38
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-70.84	
			<i>For 1" Mesh Fabric, Add</i>	164.34	
			<i>For 1-1/4" Mesh Fabric, Add</i>	105.78	
			<i>For 1-3/4" Mesh Fabric, Add</i>	65.74	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-32.87	
			<i>For Gate With Single Barb Wire Arm, Add</i>	41.56	
			<i>For Gate With Double Barb Wire Arm, Add</i>	60.45	
32 31	13 13-0474	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	593.51	59.65
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-77.69	
			<i>For 1" Mesh Fabric, Add</i>	180.25	
			<i>For 1-1/4" Mesh Fabric, Add</i>	116.02	
			<i>For 1-3/4" Mesh Fabric, Add</i>	72.10	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-36.05	
			<i>For Gate With Single Barb Wire Arm, Add</i>	45.58	
			<i>For Gate With Double Barb Wire Arm, Add</i>	66.30	
32 31	13 13-0475	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	764.12	59.65
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-109.68	
			<i>For 1" Mesh Fabric, Add</i>	254.47	
			<i>For 1-1/4" Mesh Fabric, Add</i>	163.79	
			<i>For 1-3/4" Mesh Fabric, Add</i>	101.79	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-50.89	
			<i>For Gate With Single Barb Wire Arm, Add</i>	64.35	
			<i>For Gate With Double Barb Wire Arm, Add</i>	93.60	
32 31	13 13-0476	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	941.96	79.91
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-131.62	
			<i>For 1" Mesh Fabric, Add</i>	305.35	
			<i>For 1-1/4" Mesh Fabric, Add</i>	196.55	
			<i>For 1-3/4" Mesh Fabric, Add</i>	122.14	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-61.07	
			<i>For Gate With Single Barb Wire Arm, Add</i>	77.22	
			<i>For Gate With Double Barb Wire Arm, Add</i>	112.31	
32 31	13 13-0477	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,077.43	86.10
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-153.56	
			<i>For 1" Mesh Fabric, Add</i>	356.25	
			<i>For 1-1/4" Mesh Fabric, Add</i>	229.31	
			<i>For 1-3/4" Mesh Fabric, Add</i>	142.50	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-71.25	
			<i>For Gate With Single Barb Wire Arm, Add</i>	90.09	
			<i>For Gate With Double Barb Wire Arm, Add</i>	131.04	
32 31	13 13-0478	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,215.95	93.24
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-175.49	
			<i>For 1" Mesh Fabric, Add</i>	407.14	
			<i>For 1-1/4" Mesh Fabric, Add</i>	262.07	
			<i>For 1-3/4" Mesh Fabric, Add</i>	162.86	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-81.43	
			<i>For Gate With Single Barb Wire Arm, Add</i>	102.95	
			<i>For Gate With Double Barb Wire Arm, Add</i>	149.75	
32 31	13 13-0479	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,358.41	101.75
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-197.43	
			<i>For 1" Mesh Fabric, Add</i>	458.03	
			<i>For 1-1/4" Mesh Fabric, Add</i>	294.83	
			<i>For 1-3/4" Mesh Fabric, Add</i>	183.21	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-91.61	
			<i>For Gate With Single Barb Wire Arm, Add</i>	115.82	
			<i>For Gate With Double Barb Wire Arm, Add</i>	168.47	
32 31	13 13-0480	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,505.93	111.93
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-219.36	
			<i>For 1" Mesh Fabric, Add</i>	508.92	
			<i>For 1-1/4" Mesh Fabric, Add</i>	327.58	
			<i>For 1-3/4" Mesh Fabric, Add</i>	203.57	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-101.78	
			<i>For Gate With Single Barb Wire Arm, Add</i>	128.69	
			<i>For Gate With Double Barb Wire Arm, Add</i>	187.19	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0481 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,660.25	124.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.30	
For 1" Mesh Fabric, Add	559.81	
For 1-1/4" Mesh Fabric, Add	360.33	
For 1-3/4" Mesh Fabric, Add	223.92	
For 2-1/8" Mesh Fabric, Deduct	-111.96	
For Gate With Single Barb Wire Arm, Add	141.56	
For Gate With Double Barb Wire Arm, Add	205.91	
32 31 13 13-0482 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,823.92	139.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-263.24	
For 1" Mesh Fabric, Add	610.71	
For 1-1/4" Mesh Fabric, Add	393.10	
For 1-3/4" Mesh Fabric, Add	244.28	
For 2-1/8" Mesh Fabric, Deduct	-122.14	
For Gate With Single Barb Wire Arm, Add	154.43	
For Gate With Double Barb Wire Arm, Add	224.63	
32 31 13 13-0483 EA 26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,000.93	159.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-285.17	
For 1" Mesh Fabric, Add	661.60	
For 1-1/4" Mesh Fabric, Add	425.86	
For 1-3/4" Mesh Fabric, Add	264.64	
For 2-1/8" Mesh Fabric, Deduct	-132.32	
For Gate With Single Barb Wire Arm, Add	167.30	
For Gate With Double Barb Wire Arm, Add	243.35	
32 31 13 13-0484 EA 28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,197.91	186.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-307.11	
For 1" Mesh Fabric, Add	712.49	
For 1-1/4" Mesh Fabric, Add	458.61	
For 1-3/4" Mesh Fabric, Add	285.00	
For 2-1/8" Mesh Fabric, Deduct	-142.50	
For Gate With Single Barb Wire Arm, Add	180.17	
For Gate With Double Barb Wire Arm, Add	262.07	
32 31 13 13-0485 EA 30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,426.91	223.76
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-329.05	
For 1" Mesh Fabric, Add	763.39	
For 1-1/4" Mesh Fabric, Add	491.37	
For 1-3/4" Mesh Fabric, Add	305.35	
For 2-1/8" Mesh Fabric, Deduct	-152.68	
For Gate With Single Barb Wire Arm, Add	193.04	
For Gate With Double Barb Wire Arm, Add	280.79	
32 31 13 13-0486 8' Fence Height (32 31 13 13-0405)		
32 31 13 13-0487 EA 3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	266.82	29.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.23	
For 1" Mesh Fabric, Add	77.10	
For 1-1/4" Mesh Fabric, Add	49.63	
For 1-3/4" Mesh Fabric, Add	30.84	
For 2-1/8" Mesh Fabric, Deduct	-15.42	
For Gate With Single Barb Wire Arm, Add	19.50	
For Gate With Double Barb Wire Arm, Add	28.36	
32 31 13 13-0488 EA 4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	325.91	29.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.31	
For 1" Mesh Fabric, Add	102.81	
For 1-1/4" Mesh Fabric, Add	66.18	
For 1-3/4" Mesh Fabric, Add	41.12	
For 2-1/8" Mesh Fabric, Deduct	-20.56	
For Gate With Single Barb Wire Arm, Add	26.00	
For Gate With Double Barb Wire Arm, Add	37.81	
32 31 13 13-0489 EA 5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	365.30	29.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.70	
For 1" Mesh Fabric, Add	119.94	
For 1-1/4" Mesh Fabric, Add	77.20	
For 1-3/4" Mesh Fabric, Add	47.98	
For 2-1/8" Mesh Fabric, Deduct	-23.99	
For Gate With Single Barb Wire Arm, Add	30.33	
For Gate With Double Barb Wire Arm, Add	44.12	
32 31 13 13-0490 EA 6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	427.97	37.62
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.09	
For 1" Mesh Fabric, Add	137.08	
For 1-1/4" Mesh Fabric, Add	88.23	
For 1-3/4" Mesh Fabric, Add	54.83	
For 2-1/8" Mesh Fabric, Deduct	-27.42	
For Gate With Single Barb Wire Arm, Add	34.66	
For Gate With Double Barb Wire Arm, Add	50.42	
32 31 13 13-0491 EA 7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	490.65	45.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.47	
For 1" Mesh Fabric, Add	154.21	
For 1-1/4" Mesh Fabric, Add	99.26	
For 1-3/4" Mesh Fabric, Add	61.68	
For 2-1/8" Mesh Fabric, Deduct	-30.84	
For Gate With Single Barb Wire Arm, Add	39.00	
For Gate With Double Barb Wire Arm, Add	56.72	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0492 EA 8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	552.43	52.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.86	
For 1" Mesh Fabric, Add	171.35	
For 1-1/4" Mesh Fabric, Add	110.29	
For 1-3/4" Mesh Fabric, Add	68.54	
For 2-1/8" Mesh Fabric, Deduct	-34.27	
For Gate With Single Barb Wire Arm, Add	43.33	
For Gate With Double Barb Wire Arm, Add	63.02	
32 31 13 13-0493 EA 9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	615.11	60.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.24	
For 1" Mesh Fabric, Add	188.48	
For 1-1/4" Mesh Fabric, Add	121.32	
For 1-3/4" Mesh Fabric, Add	75.39	
For 2-1/8" Mesh Fabric, Deduct	-37.70	
For Gate With Single Barb Wire Arm, Add	47.66	
For Gate With Double Barb Wire Arm, Add	69.33	
32 31 13 13-0494 EA 10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	677.78	68.34
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.63	
For 1" Mesh Fabric, Add	205.62	
For 1-1/4" Mesh Fabric, Add	132.35	
For 1-3/4" Mesh Fabric, Add	82.25	
For 2-1/8" Mesh Fabric, Deduct	-41.12	
For Gate With Single Barb Wire Arm, Add	51.99	
For Gate With Double Barb Wire Arm, Add	75.63	
32 31 13 13-0495 EA 10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	949.01	79.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.94	
For 1" Mesh Fabric, Add	308.42	
For 1-1/4" Mesh Fabric, Add	198.52	
For 1-3/4" Mesh Fabric, Add	123.37	
For 2-1/8" Mesh Fabric, Deduct	-61.68	
For Gate With Single Barb Wire Arm, Add	77.99	
For Gate With Double Barb Wire Arm, Add	113.44	
32 31 13 13-0496 EA 12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,109.27	86.10
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-159.53	
For 1" Mesh Fabric, Add	370.10	
For 1-1/4" Mesh Fabric, Add	238.23	
For 1-3/4" Mesh Fabric, Add	148.04	
For 2-1/8" Mesh Fabric, Deduct	-74.02	
For Gate With Single Barb Wire Arm, Add	93.59	
For Gate With Double Barb Wire Arm, Add	136.13	
32 31 13 13-0497 EA 14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,272.62	93.24
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.12	
For 1" Mesh Fabric, Add	431.79	
For 1-1/4" Mesh Fabric, Add	277.93	
For 1-3/4" Mesh Fabric, Add	172.72	
For 2-1/8" Mesh Fabric, Deduct	-86.36	
For Gate With Single Barb Wire Arm, Add	109.19	
For Gate With Double Barb Wire Arm, Add	158.82	
32 31 13 13-0498 EA 16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,439.88	101.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.70	
For 1" Mesh Fabric, Add	493.47	
For 1-1/4" Mesh Fabric, Add	317.64	
For 1-3/4" Mesh Fabric, Add	197.39	
For 2-1/8" Mesh Fabric, Deduct	-98.69	
For Gate With Single Barb Wire Arm, Add	124.79	
For Gate With Double Barb Wire Arm, Add	181.51	
32 31 13 13-0499 EA 18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,612.22	111.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-239.29	
For 1" Mesh Fabric, Add	555.16	
For 1-1/4" Mesh Fabric, Add	357.34	
For 1-3/4" Mesh Fabric, Add	222.06	
For 2-1/8" Mesh Fabric, Deduct	-111.03	
For Gate With Single Barb Wire Arm, Add	140.38	
For Gate With Double Barb Wire Arm, Add	204.20	
32 31 13 13-0500 EA 20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,791.36	124.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-265.88	
For 1" Mesh Fabric, Add	616.84	
For 1-1/4" Mesh Fabric, Add	397.05	
For 1-3/4" Mesh Fabric, Add	246.74	
For 2-1/8" Mesh Fabric, Deduct	-123.37	
For Gate With Single Barb Wire Arm, Add	155.98	
For Gate With Double Barb Wire Arm, Add	226.88	
32 31 13 13-0501 EA 22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,979.82	139.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-292.47	
For 1" Mesh Fabric, Add	678.52	
For 1-1/4" Mesh Fabric, Add	436.75	
For 1-3/4" Mesh Fabric, Add	271.41	
For 2-1/8" Mesh Fabric, Deduct	-135.70	
For Gate With Single Barb Wire Arm, Add	171.58	
For Gate With Double Barb Wire Arm, Add	249.57	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0502 EA 24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,181.63	159.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-319.06	
For 1" Mesh Fabric, Add	740.21	
For 1-1/4" Mesh Fabric, Add	476.46	
For 1-3/4" Mesh Fabric, Add	296.08	
For 2-1/8" Mesh Fabric, Deduct	-148.04	
For Gate With Single Barb Wire Arm, Add	187.18	
For Gate With Double Barb Wire Arm, Add	272.26	
32 31 13 13-0503 EA 26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,403.43	186.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-345.64	
For 1" Mesh Fabric, Add	801.89	
For 1-1/4" Mesh Fabric, Add	516.16	
For 1-3/4" Mesh Fabric, Add	320.76	
For 2-1/8" Mesh Fabric, Deduct	-160.38	
For Gate With Single Barb Wire Arm, Add	202.78	
For Gate With Double Barb Wire Arm, Add	294.95	
32 31 13 13-0504 EA 28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,657.23	223.76
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-372.23	
For 1" Mesh Fabric, Add	863.58	
For 1-1/4" Mesh Fabric, Add	555.86	
For 1-3/4" Mesh Fabric, Add	345.43	
For 2-1/8" Mesh Fabric, Deduct	-172.72	
For Gate With Single Barb Wire Arm, Add	218.38	
For Gate With Double Barb Wire Arm, Add	317.64	
32 31 13 13-0505 EA 30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,967.03	279.72
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-398.82	
For 1" Mesh Fabric, Add	925.26	
For 1-1/4" Mesh Fabric, Add	595.57	
For 1-3/4" Mesh Fabric, Add	370.10	
For 2-1/8" Mesh Fabric, Deduct	-185.05	
For Gate With Single Barb Wire Arm, Add	233.97	
For Gate With Double Barb Wire Arm, Add	340.32	
32 31 13 13-0506 10' Fence Height (32 31 13 13-0405)		
32 31 13 13-0507 EA 3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	305.13	33.14
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.55	
For 1" Mesh Fabric, Add	89.44	
For 1-1/4" Mesh Fabric, Add	57.57	
For 1-3/4" Mesh Fabric, Add	35.78	
For 2-1/8" Mesh Fabric, Deduct	-17.89	
For Gate With Single Barb Wire Arm, Add	22.62	
For Gate With Double Barb Wire Arm, Add	32.90	
32 31 13 13-0508 EA 4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	373.67	33.14
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.41	
For 1" Mesh Fabric, Add	119.26	
For 1-1/4" Mesh Fabric, Add	76.76	
For 1-3/4" Mesh Fabric, Add	47.70	
For 2-1/8" Mesh Fabric, Deduct	-23.85	
For Gate With Single Barb Wire Arm, Add	30.16	
For Gate With Double Barb Wire Arm, Add	43.87	
32 31 13 13-0509 EA 5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm.....	423.75	34.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.97	
For 1" Mesh Fabric, Add	139.14	
For 1-1/4" Mesh Fabric, Add	89.56	
For 1-3/4" Mesh Fabric, Add	55.66	
For 2-1/8" Mesh Fabric, Deduct	-27.83	
For Gate With Single Barb Wire Arm, Add	35.18	
For Gate With Double Barb Wire Arm, Add	51.18	
32 31 13 13-0510 EA 6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	494.52	42.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.54	
For 1" Mesh Fabric, Add	159.01	
For 1-1/4" Mesh Fabric, Add	102.35	
For 1-3/4" Mesh Fabric, Add	63.61	
For 2-1/8" Mesh Fabric, Deduct	-31.80	
For Gate With Single Barb Wire Arm, Add	40.21	
For Gate With Double Barb Wire Arm, Add	58.49	
32 31 13 13-0511 EA 7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	564.39	50.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.11	
For 1" Mesh Fabric, Add	178.89	
For 1-1/4" Mesh Fabric, Add	115.15	
For 1-3/4" Mesh Fabric, Add	71.56	
For 2-1/8" Mesh Fabric, Deduct	-35.78	
For Gate With Single Barb Wire Arm, Add	45.24	
For Gate With Double Barb Wire Arm, Add	65.80	
32 31 13 13-0512 EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	635.18	59.38
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.68	
For 1" Mesh Fabric, Add	198.77	
For 1-1/4" Mesh Fabric, Add	127.95	
For 1-3/4" Mesh Fabric, Add	79.51	
For 2-1/8" Mesh Fabric, Deduct	-39.75	
For Gate With Single Barb Wire Arm, Add	50.26	
For Gate With Double Barb Wire Arm, Add	73.11	

32	Exterior Improvements
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0513	EA		9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	705.05	67.45
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-94.25	
			<i>For 1" Mesh Fabric, Add</i>	218.65	
			<i>For 1-1/4" Mesh Fabric, Add</i>	140.74	
			<i>For 1-3/4" Mesh Fabric, Add</i>	87.46	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-43.73	
			<i>For Gate With Single Barb Wire Arm, Add</i>	55.29	
			<i>For Gate With Double Barb Wire Arm, Add</i>	80.42	
32 31 13 13-0514	EA		10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	775.84	75.77
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-102.81	
			<i>For 1" Mesh Fabric, Add</i>	238.53	
			<i>For 1-1/4" Mesh Fabric, Add</i>	153.54	
			<i>For 1-3/4" Mesh Fabric, Add</i>	95.41	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-47.71	
			<i>For Gate With Single Barb Wire Arm, Add</i>	60.32	
			<i>For Gate With Double Barb Wire Arm, Add</i>	87.73	
32 31 13 13-0515	EA		10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,089.15	88.83
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-154.22	
			<i>For 1" Mesh Fabric, Add</i>	357.78	
			<i>For 1-1/4" Mesh Fabric, Add</i>	230.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	143.11	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-71.56	
			<i>For Gate With Single Barb Wire Arm, Add</i>	90.47	
			<i>For Gate With Double Barb Wire Arm, Add</i>	131.60	
32 31 13 13-0516	EA		12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,274.07	95.55
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-185.06	
			<i>For 1" Mesh Fabric, Add</i>	429.34	
			<i>For 1-1/4" Mesh Fabric, Add</i>	276.36	
			<i>For 1-3/4" Mesh Fabric, Add</i>	171.74	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-85.87	
			<i>For Gate With Single Barb Wire Arm, Add</i>	108.57	
			<i>For Gate With Double Barb Wire Arm, Add</i>	157.92	
32 31 13 13-0517	EA		14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,462.60	103.63
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-215.90	
			<i>For 1" Mesh Fabric, Add</i>	500.89	
			<i>For 1-1/4" Mesh Fabric, Add</i>	322.41	
			<i>For 1-3/4" Mesh Fabric, Add</i>	200.36	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-100.18	
			<i>For Gate With Single Barb Wire Arm, Add</i>	126.66	
			<i>For Gate With Double Barb Wire Arm, Add</i>	184.24	
32 31 13 13-0518	EA		16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,655.24	112.98
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-246.75	
			<i>For 1" Mesh Fabric, Add</i>	572.45	
			<i>For 1-1/4" Mesh Fabric, Add</i>	368.47	
			<i>For 1-3/4" Mesh Fabric, Add</i>	228.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-114.49	
			<i>For Gate With Single Barb Wire Arm, Add</i>	144.76	
			<i>For Gate With Double Barb Wire Arm, Add</i>	210.56	
32 31 13 13-0519	EA		18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,853.82	124.32
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-277.59	
			<i>For 1" Mesh Fabric, Add</i>	644.01	
			<i>For 1-1/4" Mesh Fabric, Add</i>	414.53	
			<i>For 1-3/4" Mesh Fabric, Add</i>	257.60	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-128.80	
			<i>For Gate With Single Barb Wire Arm, Add</i>	162.85	
			<i>For Gate With Double Barb Wire Arm, Add</i>	236.88	
32 31 13 13-0520	EA		20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,059.58	138.07
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-308.43	
			<i>For 1" Mesh Fabric, Add</i>	715.56	
			<i>For 1-1/4" Mesh Fabric, Add</i>	460.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	286.22	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-143.11	
			<i>For Gate With Single Barb Wire Arm, Add</i>	180.95	
			<i>For Gate With Double Barb Wire Arm, Add</i>	263.20	
32 31 13 13-0521	EA		22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,276.14	155.40
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-339.28	
			<i>For 1" Mesh Fabric, Add</i>	787.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	506.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	314.85	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-157.42	
			<i>For Gate With Single Barb Wire Arm, Add</i>	199.04	
			<i>For Gate With Double Barb Wire Arm, Add</i>	289.52	
32 31 13 13-0522	EA		24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,506.96	177.45
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-370.12	
			<i>For 1" Mesh Fabric, Add</i>	858.68	
			<i>For 1-1/4" Mesh Fabric, Add</i>	552.71	
			<i>For 1-3/4" Mesh Fabric, Add</i>	343.47	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-171.74	
			<i>For Gate With Single Barb Wire Arm, Add</i>	217.14	
			<i>For Gate With Double Barb Wire Arm, Add</i>	315.84	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0523	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,760.69 -400.96 930.23 598.77 372.09 -186.05 235.23 342.16	207.17
32 31	13 13-0524	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,048.96 -431.81 1,001.79 644.83 400.72 -200.36 253.33 368.47	248.43
32 31	13 13-0525	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,400.79 -462.65 1,073.35 690.89 429.34 -214.67 271.42 394.79	310.80
32 31	13 13-0526		12' Fence Height (32 31 13 13-0405)		
32 31	13 13-0527	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	397.33 -53.77 124.74 80.29 49.90 -24.95 31.54 45.88	36.82
32 31	13 13-0528	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	492.65 -71.64 166.20 106.98 66.48 -33.24 42.03 61.13	36.82
32 31	13 13-0529	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	567.62 -84.93 197.05 126.83 78.82 -39.41 49.83 72.48	38.16
32 31	13 13-0530	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	654.48 -96.01 222.75 143.38 89.10 -44.55 56.33 81.93	47.38
32 31	13 13-0531	EA	7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	747.90 -108.32 251.31 161.76 100.52 -50.26 63.55 92.44	56.70
32 31	13 13-0532	EA	8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	840.42 -120.63 279.87 180.14 111.95 -55.97 70.77 102.94	65.65
32 31	13 13-0533	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	933.84 -132.94 308.42 198.53 123.37 -61.68 77.99 113.44	74.88

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0534 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,020.69	84.10
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.02	
For 1" Mesh Fabric, Add	334.12	
For 1-1/4" Mesh Fabric, Add	215.07	
For 1-3/4" Mesh Fabric, Add	133.65	
For 2-1/8" Mesh Fabric, Deduct	-66.82	
For Gate With Single Barb Wire Arm, Add	84.49	
For Gate With Double Barb Wire Arm, Add	122.90	
32 31 13 13-0535 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,447.95	98.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.96	
For 1" Mesh Fabric, Add	501.02	
For 1-1/4" Mesh Fabric, Add	322.49	
For 1-3/4" Mesh Fabric, Add	200.41	
For 2-1/8" Mesh Fabric, Deduct	-100.20	
For Gate With Single Barb Wire Arm, Add	126.69	
For Gate With Double Barb Wire Arm, Add	184.28	
32 31 13 13-0536 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,738.53	106.26
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-266.18	
For 1" Mesh Fabric, Add	617.53	
For 1-1/4" Mesh Fabric, Add	397.49	
For 1-3/4" Mesh Fabric, Add	247.01	
For 2-1/8" Mesh Fabric, Deduct	-123.51	
For Gate With Single Barb Wire Arm, Add	156.16	
For Gate With Double Barb Wire Arm, Add	227.14	
32 31 13 13-0537 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,003.21	115.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.79	
For 1" Mesh Fabric, Add	721.03	
For 1-1/4" Mesh Fabric, Add	464.11	
For 1-3/4" Mesh Fabric, Add	288.41	
For 2-1/8" Mesh Fabric, Deduct	-144.21	
For Gate With Single Barb Wire Arm, Add	182.33	
For Gate With Double Barb Wire Arm, Add	265.20	
32 31 13 13-0538 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,270.89	125.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-355.10	
For 1" Mesh Fabric, Add	823.83	
For 1-1/4" Mesh Fabric, Add	530.28	
For 1-3/4" Mesh Fabric, Add	329.53	
For 2-1/8" Mesh Fabric, Deduct	-164.77	
For Gate With Single Barb Wire Arm, Add	208.33	
For Gate With Double Barb Wire Arm, Add	303.02	
32 31 13 13-0539 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,541.88	138.18
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-398.82	
For 1" Mesh Fabric, Add	925.27	
For 1-1/4" Mesh Fabric, Add	595.58	
For 1-3/4" Mesh Fabric, Add	370.11	
For 2-1/8" Mesh Fabric, Deduct	-185.05	
For Gate With Single Barb Wire Arm, Add	233.98	
For Gate With Double Barb Wire Arm, Add	340.33	
32 31 13 13-0540 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,823.93	153.40
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-443.14	
For 1" Mesh Fabric, Add	1,028.08	
For 1-1/4" Mesh Fabric, Add	661.75	
For 1-3/4" Mesh Fabric, Add	411.23	
For 2-1/8" Mesh Fabric, Deduct	-205.62	
For Gate With Single Barb Wire Arm, Add	259.97	
For Gate With Double Barb Wire Arm, Add	378.14	
32 31 13 13-0541 EA 22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,118.25	172.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-487.45	
For 1" Mesh Fabric, Add	1,130.89	
For 1-1/4" Mesh Fabric, Add	727.93	
For 1-3/4" Mesh Fabric, Add	452.35	
For 2-1/8" Mesh Fabric, Deduct	-226.18	
For Gate With Single Barb Wire Arm, Add	285.97	
For Gate With Double Barb Wire Arm, Add	415.96	
32 31 13 13-0542 EA 24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,428.30	197.19
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-531.77	
For 1" Mesh Fabric, Add	1,233.69	
For 1-1/4" Mesh Fabric, Add	794.10	
For 1-3/4" Mesh Fabric, Add	493.48	
For 2-1/8" Mesh Fabric, Deduct	-246.74	
For Gate With Single Barb Wire Arm, Add	311.97	
For Gate With Double Barb Wire Arm, Add	453.77	
32 31 13 13-0543 EA 26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,771.66	230.27
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-577.56	
For 1" Mesh Fabric, Add	1,339.93	
For 1-1/4" Mesh Fabric, Add	862.48	
For 1-3/4" Mesh Fabric, Add	535.97	
For 2-1/8" Mesh Fabric, Deduct	-267.99	
For Gate With Single Barb Wire Arm, Add	338.83	
For Gate With Double Barb Wire Arm, Add	492.85	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0544 EA 28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,145.53	276.04
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-621.87	
For 1" Mesh Fabric, Add	1,442.74	
For 1-1/4" Mesh Fabric, Add	928.66	
For 1-3/4" Mesh Fabric, Add	577.10	
For 2-1/8" Mesh Fabric, Deduct	-288.55	
For Gate With Single Barb Wire Arm, Add	364.83	
For Gate With Double Barb Wire Arm, Add	530.66	
32 31 13 13-0545 EA 30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,590.02	345.34
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-666.18	
For 1" Mesh Fabric, Add	1,545.55	
For 1-1/4" Mesh Fabric, Add	994.83	
For 1-3/4" Mesh Fabric, Add	618.22	
For 2-1/8" Mesh Fabric, Deduct	-309.11	
For Gate With Single Barb Wire Arm, Add	390.83	
For Gate With Double Barb Wire Arm, Add	568.48	
32 31 13 13-0546 Chain Link Galvanized Steel Sliding Gate <small>(22 31 13 13-0263)</small>		
Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0630 for additional gate accessories, 32 31 13 13-0711 for gate replacement parts.		
32 31 13 13-0547 4' High Chain Link Galvanized Steel Sliding Gate <small>(22 31 13 13-0546)</small>		
32 31 13 13-0548 EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,237.43	340.84
For 1" Mesh Fabric, Add	676.74	
For 1-1/4" Mesh Fabric, Add	435.60	
For 1-3/4" Mesh Fabric, Add	270.70	
For 2-1/8" Mesh Fabric, Deduct	-135.35	
For Gate With Barb Wire Arm, Add	171.13	
For Vinyl Coated, Add	466.72	
32 31 13 13-0549 EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,689.76	411.50
For 1" Mesh Fabric, Add	812.09	
For 1-1/4" Mesh Fabric, Add	522.72	
For 1-3/4" Mesh Fabric, Add	324.84	
For 2-1/8" Mesh Fabric, Deduct	-162.42	
For Gate With Barb Wire Arm, Add	205.36	
For Vinyl Coated, Add	560.06	
32 31 13 13-0550 EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,138.24	480.06
For 1" Mesh Fabric, Add	947.44	
For 1-1/4" Mesh Fabric, Add	609.85	
For 1-3/4" Mesh Fabric, Add	378.98	
For 2-1/8" Mesh Fabric, Deduct	-189.49	
For Gate With Barb Wire Arm, Add	239.58	
For Vinyl Coated, Add	653.41	
32 31 13 13-0551 EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,592.68	551.78
For 1" Mesh Fabric, Add	1,082.78	
For 1-1/4" Mesh Fabric, Add	696.96	
For 1-3/4" Mesh Fabric, Add	433.11	
For 2-1/8" Mesh Fabric, Deduct	-216.56	
For Gate With Barb Wire Arm, Add	273.81	
For Vinyl Coated, Add	746.75	
32 31 13 13-0552 EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,041.82	620.76
For 1" Mesh Fabric, Add	1,218.13	
For 1-1/4" Mesh Fabric, Add	784.09	
For 1-3/4" Mesh Fabric, Add	487.25	
For 2-1/8" Mesh Fabric, Deduct	-243.63	
For Gate With Barb Wire Arm, Add	308.03	
For Vinyl Coated, Add	840.09	
32 31 13 13-0553 EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,478.21	683.34
For 1" Mesh Fabric, Add	1,353.49	
For 1-1/4" Mesh Fabric, Add	871.21	
For 1-3/4" Mesh Fabric, Add	541.39	
For 2-1/8" Mesh Fabric, Deduct	-270.70	
For Gate With Barb Wire Arm, Add	342.26	
For Vinyl Coated, Add	933.44	
32 31 13 13-0554 EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,352.12	822.89
For 1" Mesh Fabric, Add	1,612.26	
For 1-1/4" Mesh Fabric, Add	1,037.78	
For 1-3/4" Mesh Fabric, Add	644.90	
For 2-1/8" Mesh Fabric, Deduct	-322.45	
For Gate With Barb Wire Arm, Add	407.70	
For Vinyl Coated, Add	1,111.91	
32 31 13 13-0555 EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	7,773.69	1,553.27
For 1" Mesh Fabric, Add	2,030.22	
For 1-1/4" Mesh Fabric, Add	1,306.81	
For 1-3/4" Mesh Fabric, Add	812.09	
For 2-1/8" Mesh Fabric, Deduct	-406.04	
For Gate With Barb Wire Arm, Add	513.39	
For Vinyl Coated, Add	1,400.15	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0556 EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	10,364.92	2,071.02
For 1" Mesh Fabric, Add	2,706.96	
For 1-1/4" Mesh Fabric, Add	1,742.41	
For 1-3/4" Mesh Fabric, Add	1,082.78	
For 2-1/8" Mesh Fabric, Deduct	-541.39	
For Gate With Barb Wire Arm, Add	684.52	
For Vinyl Coated, Add	1,866.87	
32 31 13 13-0557 5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0558 EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,343.37	370.96
For 1" Mesh Fabric, Add	696.63	
For 1-1/4" Mesh Fabric, Add	448.41	
For 1-3/4" Mesh Fabric, Add	278.65	
For 2-1/8" Mesh Fabric, Deduct	-139.33	
For Gate With Barb Wire Arm, Add	176.16	
For Vinyl Coated, Add	480.44	
32 31 13 13-0559 EA 12' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,811.00	444.68
For 1" Mesh Fabric, Add	835.96	
For 1-1/4" Mesh Fabric, Add	538.09	
For 1-3/4" Mesh Fabric, Add	334.38	
For 2-1/8" Mesh Fabric, Deduct	-167.19	
For Gate With Barb Wire Arm, Add	211.39	
For Vinyl Coated, Add	576.52	
32 31 13 13-0560 EA 14' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,279.32	518.70
For 1" Mesh Fabric, Add	975.28	
For 1-1/4" Mesh Fabric, Add	627.77	
For 1-3/4" Mesh Fabric, Add	390.11	
For 2-1/8" Mesh Fabric, Deduct	-195.06	
For Gate With Barb Wire Arm, Add	246.62	
For Vinyl Coated, Add	672.61	
32 31 13 13-0561 EA 16' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,748.09	592.94
For 1" Mesh Fabric, Add	1,114.61	
For 1-1/4" Mesh Fabric, Add	717.45	
For 1-3/4" Mesh Fabric, Add	445.84	
For 2-1/8" Mesh Fabric, Deduct	-222.92	
For Gate With Barb Wire Arm, Add	281.86	
For Vinyl Coated, Add	768.70	
32 31 13 13-0562 EA 18' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,216.36	666.85
For 1" Mesh Fabric, Add	1,253.93	
For 1-1/4" Mesh Fabric, Add	807.13	
For 1-3/4" Mesh Fabric, Add	501.57	
For 2-1/8" Mesh Fabric, Deduct	-250.79	
For Gate With Barb Wire Arm, Add	317.09	
For Vinyl Coated, Add	864.78	
32 31 13 13-0563 EA 20' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,684.89	740.99
For 1" Mesh Fabric, Add	1,393.26	
For 1-1/4" Mesh Fabric, Add	896.81	
For 1-3/4" Mesh Fabric, Add	557.30	
For 2-1/8" Mesh Fabric, Deduct	-278.65	
For Gate With Barb Wire Arm, Add	352.32	
For Vinyl Coated, Add	960.87	
32 31 13 13-0564 EA 24' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,595.69	890.19
For 1" Mesh Fabric, Add	1,659.65	
For 1-1/4" Mesh Fabric, Add	1,068.28	
For 1-3/4" Mesh Fabric, Add	663.86	
For 2-1/8" Mesh Fabric, Deduct	-331.93	
For Gate With Barb Wire Arm, Add	419.68	
For Vinyl Coated, Add	1,144.58	
32 31 13 13-0565 EA 30' Long x 5' High Chain Link Galvanized Steel Sliding Gate	7,027.75	1,111.75
For 1" Mesh Fabric, Add	2,089.89	
For 1-1/4" Mesh Fabric, Add	1,345.22	
For 1-3/4" Mesh Fabric, Add	835.96	
For 2-1/8" Mesh Fabric, Deduct	-417.98	
For Gate With Barb Wire Arm, Add	528.48	
For Vinyl Coated, Add	1,441.30	
32 31 13 13-0566 EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	9,369.80	1,481.97
For 1" Mesh Fabric, Add	2,786.52	
For 1-1/4" Mesh Fabric, Add	1,793.62	
For 1-3/4" Mesh Fabric, Add	1,114.61	
For 2-1/8" Mesh Fabric, Deduct	-557.30	
For Gate With Barb Wire Arm, Add	704.64	
For Vinyl Coated, Add	1,921.74	
32 31 13 13-0567 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0568 EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	2,503.19	434.91
For 1" Mesh Fabric, Add	710.55	
For 1-1/4" Mesh Fabric, Add	457.37	
For 1-3/4" Mesh Fabric, Add	284.22	
For 2-1/8" Mesh Fabric, Deduct	-142.11	
For Gate With Barb Wire Arm, Add	179.68	
For Vinyl Coated, Add	490.04	



	Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0569 EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	3,000.78	520.28
For 1" Mesh Fabric, Add	852.67	
For 1-1/4" Mesh Fabric, Add	548.84	
For 1-3/4" Mesh Fabric, Add	341.07	
For 2-1/8" Mesh Fabric, Deduct	-170.53	
For Gate With Barb Wire Arm, Add	215.62	
For Vinyl Coated, Add	588.05	
32 31 13 13-0570 EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	3,500.72	606.90
For 1" Mesh Fabric, Add	994.78	
For 1-1/4" Mesh Fabric, Add	640.32	
For 1-3/4" Mesh Fabric, Add	397.91	
For 2-1/8" Mesh Fabric, Deduct	-198.96	
For Gate With Barb Wire Arm, Add	251.55	
For Vinyl Coated, Add	686.05	
32 31 13 13-0571 EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	4,001.04	693.74
For 1" Mesh Fabric, Add	1,136.89	
For 1-1/4" Mesh Fabric, Add	731.79	
For 1-3/4" Mesh Fabric, Add	454.75	
For 2-1/8" Mesh Fabric, Deduct	-227.38	
For Gate With Barb Wire Arm, Add	287.49	
For Vinyl Coated, Add	784.06	
32 31 13 13-0572 EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	4,500.98	780.36
For 1" Mesh Fabric, Add	1,279.00	
For 1-1/4" Mesh Fabric, Add	823.26	
For 1-3/4" Mesh Fabric, Add	511.60	
For 2-1/8" Mesh Fabric, Deduct	-255.80	
For Gate With Barb Wire Arm, Add	323.42	
For Vinyl Coated, Add	882.07	
32 31 13 13-0573 EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	5,006.77	869.92
For 1" Mesh Fabric, Add	1,421.11	
For 1-1/4" Mesh Fabric, Add	914.73	
For 1-3/4" Mesh Fabric, Add	568.44	
For 2-1/8" Mesh Fabric, Deduct	-284.22	
For Gate With Barb Wire Arm, Add	359.36	
For Vinyl Coated, Add	980.07	
32 31 13 13-0574 EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	5,972.80	1,040.66
For 1" Mesh Fabric, Add	1,692.82	
For 1-1/4" Mesh Fabric, Add	1,089.63	
For 1-3/4" Mesh Fabric, Add	677.13	
For 2-1/8" Mesh Fabric, Deduct	-338.56	
For Gate With Barb Wire Arm, Add	428.07	
For Vinyl Coated, Add	1,167.46	
32 31 13 13-0575 EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	7,502.60	1,301.16
For 1" Mesh Fabric, Add	2,131.66	
For 1-1/4" Mesh Fabric, Add	1,372.10	
For 1-3/4" Mesh Fabric, Add	852.66	
For 2-1/8" Mesh Fabric, Deduct	-426.33	
For Gate With Barb Wire Arm, Add	539.04	
For Vinyl Coated, Add	1,470.11	
32 31 13 13-0576 EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	10,002.03	1,734.08
For 1" Mesh Fabric, Add	2,842.21	
For 1-1/4" Mesh Fabric, Add	1,829.47	
For 1-3/4" Mesh Fabric, Add	1,136.88	
For 2-1/8" Mesh Fabric, Deduct	-568.44	
For Gate With Barb Wire Arm, Add	718.72	
For Vinyl Coated, Add	1,960.15	
32 31 13 13-0577 7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0578 EA 10' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	2,667.67	485.10
For 1" Mesh Fabric, Add	738.40	
For 1-1/4" Mesh Fabric, Add	475.29	
For 1-3/4" Mesh Fabric, Add	295.36	
For 2-1/8" Mesh Fabric, Deduct	-147.68	
For Gate With Barb Wire Arm, Add	186.72	
For Vinyl Coated, Add	509.24	
32 31 13 13-0579 EA 12' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	3,200.46	581.70
For 1" Mesh Fabric, Add	886.10	
For 1-1/4" Mesh Fabric, Add	570.37	
For 1-3/4" Mesh Fabric, Add	354.44	
For 2-1/8" Mesh Fabric, Deduct	-177.22	
For Gate With Barb Wire Arm, Add	224.07	
For Vinyl Coated, Add	611.11	
32 31 13 13-0580 EA 14' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	3,734.80	679.14
For 1" Mesh Fabric, Add	1,033.76	
For 1-1/4" Mesh Fabric, Add	665.41	
For 1-3/4" Mesh Fabric, Add	413.50	
For 2-1/8" Mesh Fabric, Deduct	-206.75	
For Gate With Barb Wire Arm, Add	261.41	
For Vinyl Coated, Add	712.94	
32 31 13 13-0581 EA 16' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	4,267.48	775.75
For 1" Mesh Fabric, Add	1,181.44	
For 1-1/4" Mesh Fabric, Add	760.47	
For 1-3/4" Mesh Fabric, Add	472.58	
For 2-1/8" Mesh Fabric, Deduct	-236.29	
For Gate With Barb Wire Arm, Add	298.75	
For Vinyl Coated, Add	814.79	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0582	EA	18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,801.08	872.87
			<i>For 1" Mesh Fabric, Add</i>	1,329.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	855.52	
			<i>For 1-3/4" Mesh Fabric, Add</i>	531.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-265.82	
			<i>For Gate With Barb Wire Arm, Add</i>	336.10	
			<i>For Vinyl Coated, Add</i>	916.63	
32 31 13	13-0583	EA	20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,334.01	969.57
			<i>For 1" Mesh Fabric, Add</i>	1,476.80	
			<i>For 1-1/4" Mesh Fabric, Add</i>	950.58	
			<i>For 1-3/4" Mesh Fabric, Add</i>	590.72	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-295.36	
			<i>For Gate With Barb Wire Arm, Add</i>	373.44	
			<i>For Vinyl Coated, Add</i>	1,018.48	
32 31 13	13-0584	EA	24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,370.91	1,163.40
			<i>For 1" Mesh Fabric, Add</i>	1,759.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,132.33	
			<i>For 1-3/4" Mesh Fabric, Add</i>	703.66	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-351.83	
			<i>For Gate With Barb Wire Arm, Add</i>	444.84	
			<i>For Vinyl Coated, Add</i>	1,213.21	
32 31 13	13-0585	EA	30' Long x 7' High Chain Link Galvanized Steel Sliding Gate	8,000.99	1,454.25
			<i>For 1" Mesh Fabric, Add</i>	2,215.19	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,425.87	
			<i>For 1-3/4" Mesh Fabric, Add</i>	886.08	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-443.04	
			<i>For Gate With Barb Wire Arm, Add</i>	560.16	
			<i>For Vinyl Coated, Add</i>	1,527.72	
32 31 13	13-0586	EA	40' Long x 7' High Chain Link Galvanized Steel Sliding Gate	10,667.98	1,939.04
			<i>For 1" Mesh Fabric, Add</i>	2,953.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,901.16	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,181.44	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-590.72	
			<i>For Gate With Barb Wire Arm, Add</i>	746.88	
			<i>For Vinyl Coated, Add</i>	2,036.96	
32 31 13	13-0587		8' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0546)</small>		
32 31 13	13-0588	EA	10' Long x 8' High Chain Link Galvanized Steel Sliding Gate	2,798.82	525.53
			<i>For 1" Mesh Fabric, Add</i>	760.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	489.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	304.11	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-152.06	
			<i>For Gate With Barb Wire Arm, Add</i>	192.25	
			<i>For Vinyl Coated, Add</i>	524.33	
32 31 13	13-0589	EA	12' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,355.56	629.16
			<i>For 1" Mesh Fabric, Add</i>	912.33	
			<i>For 1-1/4" Mesh Fabric, Add</i>	587.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	364.93	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-182.47	
			<i>For Gate With Barb Wire Arm, Add</i>	230.71	
			<i>For Vinyl Coated, Add</i>	629.20	
32 31 13	13-0590	EA	14' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,914.88	734.06
			<i>For 1" Mesh Fabric, Add</i>	1,064.38	
			<i>For 1-1/4" Mesh Fabric, Add</i>	685.12	
			<i>For 1-3/4" Mesh Fabric, Add</i>	425.75	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-212.88	
			<i>For Gate With Barb Wire Arm, Add</i>	269.15	
			<i>For Vinyl Coated, Add</i>	734.06	
32 31 13	13-0591	EA	16' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,474.40	838.96
			<i>For 1" Mesh Fabric, Add</i>	1,216.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	782.99	
			<i>For 1-3/4" Mesh Fabric, Add</i>	486.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-243.29	
			<i>For Gate With Barb Wire Arm, Add</i>	307.61	
			<i>For Vinyl Coated, Add</i>	838.92	
32 31 13	13-0592	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,032.77	943.42
			<i>For 1" Mesh Fabric, Add</i>	1,368.50	
			<i>For 1-1/4" Mesh Fabric, Add</i>	880.87	
			<i>For 1-3/4" Mesh Fabric, Add</i>	547.40	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-273.70	
			<i>For Gate With Barb Wire Arm, Add</i>	346.06	
			<i>For Vinyl Coated, Add</i>	943.79	
32 31 13	13-0593	EA	20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,592.38	1,048.42
			<i>For 1" Mesh Fabric, Add</i>	1,520.55	
			<i>For 1-1/4" Mesh Fabric, Add</i>	978.75	
			<i>For 1-3/4" Mesh Fabric, Add</i>	608.22	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-304.11	
			<i>For Gate With Barb Wire Arm, Add</i>	384.51	
			<i>For Vinyl Coated, Add</i>	1,048.66	
32 31 13	13-0594	EA	24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,680.34	1,258.22
			<i>For 1" Mesh Fabric, Add</i>	1,811.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,165.88	
			<i>For 1-3/4" Mesh Fabric, Add</i>	724.51	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-362.26	
			<i>For Gate With Barb Wire Arm, Add</i>	458.02	
			<i>For Vinyl Coated, Add</i>	1,249.16	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0595 EA 30' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	8,389.36	1,573.00
For 1" Mesh Fabric, Add	2,280.83	
For 1-1/4" Mesh Fabric, Add	1,468.12	
For 1-3/4" Mesh Fabric, Add	912.33	
For 2-1/8" Mesh Fabric, Deduct	-456.17	
For Gate With Barb Wire Arm, Add	576.76	
For Vinyl Coated, Add	1,572.99	
32 31 13 13-0596 EA 40' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	11,182.66	2,095.81
For 1" Mesh Fabric, Add	3,041.10	
For 1-1/4" Mesh Fabric, Add	1,957.49	
For 1-3/4" Mesh Fabric, Add	1,216.44	
For 2-1/8" Mesh Fabric, Deduct	-608.22	
For Gate With Barb Wire Arm, Add	769.01	
For Vinyl Coated, Add	2,097.31	
32 31 13 13-0597 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0598 EA 10' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	2,953.81	573.30
For 1" Mesh Fabric, Add	786.13	
For 1-1/4" Mesh Fabric, Add	506.02	
For 1-3/4" Mesh Fabric, Add	314.45	
For 2-1/8" Mesh Fabric, Deduct	-157.23	
For Gate With Barb Wire Arm, Add	198.79	
For Vinyl Coated, Add	542.16	
32 31 13 13-0599 EA 12' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	3,540.30	685.86
For 1" Mesh Fabric, Add	943.36	
For 1-1/4" Mesh Fabric, Add	607.22	
For 1-3/4" Mesh Fabric, Add	377.34	
For 2-1/8" Mesh Fabric, Deduct	-188.67	
For Gate With Barb Wire Arm, Add	238.55	
For Vinyl Coated, Add	650.59	
32 31 13 13-0600 EA 14' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	4,130.10	800.00
For 1" Mesh Fabric, Add	1,100.59	
For 1-1/4" Mesh Fabric, Add	708.43	
For 1-3/4" Mesh Fabric, Add	440.24	
For 2-1/8" Mesh Fabric, Deduct	-220.12	
For Gate With Barb Wire Arm, Add	278.31	
For Vinyl Coated, Add	759.03	
32 31 13 13-0601 EA 16' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	4,720.79	914.66
For 1" Mesh Fabric, Add	1,257.81	
For 1-1/4" Mesh Fabric, Add	809.63	
For 1-3/4" Mesh Fabric, Add	503.12	
For 2-1/8" Mesh Fabric, Deduct	-251.56	
For Gate With Barb Wire Arm, Add	318.07	
For Vinyl Coated, Add	867.46	
32 31 13 13-0602 EA 18' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	5,310.78	1,028.89
For 1" Mesh Fabric, Add	1,415.04	
For 1-1/4" Mesh Fabric, Add	910.83	
For 1-3/4" Mesh Fabric, Add	566.02	
For 2-1/8" Mesh Fabric, Deduct	-283.01	
For Gate With Barb Wire Arm, Add	357.83	
For Vinyl Coated, Add	975.89	
32 31 13 13-0603 EA 20' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	5,900.75	1,143.13
For 1" Mesh Fabric, Add	1,572.27	
For 1-1/4" Mesh Fabric, Add	1,012.03	
For 1-3/4" Mesh Fabric, Add	628.91	
For 2-1/8" Mesh Fabric, Deduct	-314.45	
For Gate With Barb Wire Arm, Add	397.59	
For Vinyl Coated, Add	1,084.32	
32 31 13 13-0604 EA 24' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	7,048.77	1,371.62
For 1" Mesh Fabric, Add	1,872.88	
For 1-1/4" Mesh Fabric, Add	1,205.53	
For 1-3/4" Mesh Fabric, Add	749.15	
For 2-1/8" Mesh Fabric, Deduct	-374.58	
For Gate With Barb Wire Arm, Add	473.60	
For Vinyl Coated, Add	1,291.64	
32 31 13 13-0605 EA 30' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	8,850.18	1,714.34
For 1" Mesh Fabric, Add	2,358.40	
For 1-1/4" Mesh Fabric, Add	1,518.05	
For 1-3/4" Mesh Fabric, Add	943.36	
For 2-1/8" Mesh Fabric, Deduct	-471.68	
For Gate With Barb Wire Arm, Add	596.38	
For Vinyl Coated, Add	1,626.48	
32 31 13 13-0606 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	11,803.99	2,287.64
For 1" Mesh Fabric, Add	3,144.53	
For 1-1/4" Mesh Fabric, Add	2,024.07	
For 1-3/4" Mesh Fabric, Add	1,257.81	
For 2-1/8" Mesh Fabric, Deduct	-628.91	
For Gate With Barb Wire Arm, Add	795.17	
For Vinyl Coated, Add	2,168.64	
32 31 13 13-0607 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0608	EA	10' Long x 10' High Chain Link Galvanized Steel Sliding Gate	3,146.19	630.63
			<i>For 1" Mesh Fabric, Add</i>	819.94	
			<i>For 1-1/4" Mesh Fabric, Add</i>	527.78	
			<i>For 1-3/4" Mesh Fabric, Add</i>	327.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-163.99	
			<i>For Gate With Barb Wire Arm, Add</i>	207.34	
			<i>For Vinyl Coated, Add</i>	565.48	
32 31	13 13-0609	EA	12' Long x 10' High Chain Link Galvanized Steel Sliding Gate	3,775.43	756.74
			<i>For 1" Mesh Fabric, Add</i>	983.94	
			<i>For 1-1/4" Mesh Fabric, Add</i>	633.34	
			<i>For 1-3/4" Mesh Fabric, Add</i>	393.57	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-196.79	
			<i>For Gate With Barb Wire Arm, Add</i>	248.81	
			<i>For Vinyl Coated, Add</i>	678.58	
32 31	13 13-0610	EA	14' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,405.10	883.05
			<i>For 1" Mesh Fabric, Add</i>	1,147.93	
			<i>For 1-1/4" Mesh Fabric, Add</i>	738.89	
			<i>For 1-3/4" Mesh Fabric, Add</i>	459.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-229.59	
			<i>For Gate With Barb Wire Arm, Add</i>	290.28	
			<i>For Vinyl Coated, Add</i>	791.67	
32 31	13 13-0611	EA	16' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,034.16	1,009.16
			<i>For 1" Mesh Fabric, Add</i>	1,311.91	
			<i>For 1-1/4" Mesh Fabric, Add</i>	844.45	
			<i>For 1-3/4" Mesh Fabric, Add</i>	524.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-262.38	
			<i>For Gate With Barb Wire Arm, Add</i>	331.75	
			<i>For Vinyl Coated, Add</i>	904.77	
32 31	13 13-0612	EA	18' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,663.14	1,135.16
			<i>For 1" Mesh Fabric, Add</i>	1,475.90	
			<i>For 1-1/4" Mesh Fabric, Add</i>	950.00	
			<i>For 1-3/4" Mesh Fabric, Add</i>	590.36	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-295.18	
			<i>For Gate With Barb Wire Arm, Add</i>	373.22	
			<i>For Vinyl Coated, Add</i>	1,017.86	
32 31	13 13-0613	EA	20' Long x 10' High Chain Link Galvanized Steel Sliding Gate	6,292.39	1,261.26
			<i>For 1" Mesh Fabric, Add</i>	1,639.89	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,055.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	655.96	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-327.98	
			<i>For Gate With Barb Wire Arm, Add</i>	414.68	
			<i>For Vinyl Coated, Add</i>	1,130.96	
32 31	13 13-0614	EA	24' Long x 10' High Chain Link Galvanized Steel Sliding Gate	7,518.78	1,514.11
			<i>For 1" Mesh Fabric, Add</i>	1,953.43	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,257.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	781.37	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-390.69	
			<i>For Gate With Barb Wire Arm, Add</i>	493.97	
			<i>For Vinyl Coated, Add</i>	1,347.20	
32 31	13 13-0615	EA	30' Long x 10' High Chain Link Galvanized Steel Sliding Gate	9,438.59	1,891.90
			<i>For 1" Mesh Fabric, Add</i>	2,459.83	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,583.34	
			<i>For 1-3/4" Mesh Fabric, Add</i>	983.93	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-491.97	
			<i>For Gate With Barb Wire Arm, Add</i>	622.03	
			<i>For Vinyl Coated, Add</i>	1,696.44	
32 31	13 13-0616	EA	40' Long x 10' High Chain Link Galvanized Steel Sliding Gate	12,581.76	2,521.06
			<i>For 1" Mesh Fabric, Add</i>	3,279.78	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,111.12	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,311.91	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-655.96	
			<i>For Gate With Barb Wire Arm, Add</i>	829.37	
			<i>For Vinyl Coated, Add</i>	2,261.92	
32 31	13 13-0617		Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller ⁽³²⁾		
			^{31 13 13-0263} Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.		
32 31	13 13-0618	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate	4,829.67	420.00
			<i>For 1" Mesh Fabric, Add</i>	1,735.51	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,117.11	
			<i>For 1-3/4" Mesh Fabric, Add</i>	694.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-347.10	
			<i>For Gate With Single Barb Wire Arm, Add</i>	438.86	
			<i>For Gate With Double Barb Wire Arm, Add</i>	638.35	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,915.04	
			<i>For Powder Coated Gate And Post, Add</i>	837.83	
			<i>For Vinyl Coated, Add</i>	1,196.90	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0619 EA 5' High x 12' Wide Galvanized Cantilever Sliding Gate.....	5,311.26	525.00
For 1" Mesh Fabric, Add	1,853.65	
For 1-1/4" Mesh Fabric, Add	1,193.15	
For 1-3/4" Mesh Fabric, Add	741.46	
For 2-1/8" Mesh Fabric, Deduct	-370.73	
For Gate With Single Barb Wire Arm, Add	468.74	
For Gate With Double Barb Wire Arm, Add	681.80	
For Aluminized Steel Gate And Post, Add	2,045.40	
For Powder Coated Gate And Post, Add	894.86	
For Vinyl Coated, Add	1,278.38	
32 31 13 13-0620 EA 5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	5,796.59	630.00
For 1" Mesh Fabric, Add	1,973.41	
For 1-1/4" Mesh Fabric, Add	1,270.24	
For 1-3/4" Mesh Fabric, Add	789.36	
For 2-1/8" Mesh Fabric, Deduct	-394.68	
For Gate With Single Barb Wire Arm, Add	499.02	
For Gate With Double Barb Wire Arm, Add	725.85	
For Aluminized Steel Gate And Post, Add	2,177.56	
For Powder Coated Gate And Post, Add	952.68	
For Vinyl Coated, Add	1,360.97	
32 31 13 13-0621 EA 5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	6,821.47	840.00
For 1" Mesh Fabric, Add	2,236.54	
For 1-1/4" Mesh Fabric, Add	1,439.61	
For 1-3/4" Mesh Fabric, Add	894.61	
For 2-1/8" Mesh Fabric, Deduct	-447.31	
For Gate With Single Barb Wire Arm, Add	565.56	
For Gate With Double Barb Wire Arm, Add	822.63	
For Aluminized Steel Gate And Post, Add	2,467.90	
For Powder Coated Gate And Post, Add	1,079.71	
For Vinyl Coated, Add	1,542.44	
32 31 13 13-0622 EA 6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,352.15	840.00
For 1" Mesh Fabric, Add	2,032.38	
For 1-1/4" Mesh Fabric, Add	1,308.20	
For 1-3/4" Mesh Fabric, Add	812.95	
For 2-1/8" Mesh Fabric, Deduct	-406.48	
For Gate With Single Barb Wire Arm, Add	513.94	
For Gate With Double Barb Wire Arm, Add	747.54	
For Aluminized Steel Gate And Post, Add	2,242.63	
For Powder Coated Gate And Post, Add	981.15	
For Vinyl Coated, Add	1,401.64	
32 31 13 13-0623 EA 6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,466.78	1,102.50
For 1" Mesh Fabric, Add	2,288.87	
For 1-1/4" Mesh Fabric, Add	1,473.30	
For 1-3/4" Mesh Fabric, Add	915.55	
For 2-1/8" Mesh Fabric, Deduct	-457.77	
For Gate With Single Barb Wire Arm, Add	578.79	
For Gate With Double Barb Wire Arm, Add	841.88	
For Aluminized Steel Gate And Post, Add	2,525.65	
For Powder Coated Gate And Post, Add	1,104.97	
For Vinyl Coated, Add	1,578.53	
32 31 13 13-0624 EA 6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	9,881.50	1,365.01
For 1" Mesh Fabric, Add	3,110.90	
For 1-1/4" Mesh Fabric, Add	2,002.42	
For 1-3/4" Mesh Fabric, Add	1,244.36	
For 2-1/8" Mesh Fabric, Deduct	-622.18	
For Gate With Single Barb Wire Arm, Add	786.66	
For Gate With Double Barb Wire Arm, Add	1,144.24	
For Aluminized Steel Gate And Post, Add	3,432.72	
For Powder Coated Gate And Post, Add	1,501.81	
For Vinyl Coated, Add	2,145.45	
32 31 13 13-0625 EA 6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	11,147.56	1,627.51
For 1" Mesh Fabric, Add	3,433.26	
For 1-1/4" Mesh Fabric, Add	2,209.92	
For 1-3/4" Mesh Fabric, Add	1,373.31	
For 2-1/8" Mesh Fabric, Deduct	-686.65	
For Gate With Single Barb Wire Arm, Add	868.18	
For Gate With Double Barb Wire Arm, Add	1,262.81	
For Aluminized Steel Gate And Post, Add	3,788.43	
For Powder Coated Gate And Post, Add	1,657.44	
For Vinyl Coated, Add	2,367.77	
32 31 13 13-0626 EA 8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,445.44	1,050.00
For 1" Mesh Fabric, Add	2,325.26	
For 1-1/4" Mesh Fabric, Add	1,496.72	
For 1-3/4" Mesh Fabric, Add	930.10	
For 2-1/8" Mesh Fabric, Deduct	-465.05	
For Gate With Single Barb Wire Arm, Add	588.00	
For Gate With Double Barb Wire Arm, Add	855.27	
For Aluminized Steel Gate And Post, Add	2,565.81	
For Powder Coated Gate And Post, Add	1,122.54	
For Vinyl Coated, Add	1,603.63	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0627	EA		8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	8,854.03	1,417.51
			<i>For 1" Mesh Fabric, Add</i>	2,618.27	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,685.33	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,047.31	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-523.65	
			<i>For Gate With Single Barb Wire Arm, Add</i>	662.09	
			<i>For Gate With Double Barb Wire Arm, Add</i>	963.04	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,889.13	
			<i>For Powder Coated Gate And Post, Add</i>	1,263.99	
			<i>For Vinyl Coated, Add</i>	1,805.71	
32 31 13 13-0628	EA		8' High x 25' Wide Galvanized Cantilever Sliding Gate.....	11,750.68	1,785.01
			<i>For 1" Mesh Fabric, Add</i>	3,558.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,290.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,423.44	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-711.72	
			<i>For Gate With Single Barb Wire Arm, Add</i>	899.87	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,308.91	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,926.72	
			<i>For Powder Coated Gate And Post, Add</i>	1,717.94	
			<i>For Vinyl Coated, Add</i>	2,454.20	
32 31 13 13-0629	EA		8' High x 30' Wide Galvanized Cantilever Sliding Gate.....	13,227.36	2,100.01
			<i>For 1" Mesh Fabric, Add</i>	3,926.90	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,527.66	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,570.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-785.38	
			<i>For Gate With Single Barb Wire Arm, Add</i>	993.01	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,444.38	
			<i>For Aluminized Steel Gate And Post, Add</i>	4,333.13	
			<i>For Powder Coated Gate And Post, Add</i>	1,895.74	
			<i>For Vinyl Coated, Add</i>	2,708.21	
32 31 13 13-0630			Gate Accessories <small>(32 31 13 13-0630)</small>		
32 31 13 13-0631	EA		Gate Center Stop, Cast Steel, Ground.....	36.34	
32 31 13 13-0632	EA		Gate Latch, Malleable Galvanized Steel.....	37.93	
32 31 13 13-0633	EA		Gate Keeper, Full Length, Galvanized Steel.....	168.10	
32 31 13 13-0634	EA		Gate Keeper Hold-Open For Cantilever Gate.....	89.95	17.02
32 31 13 13-0635	EA		Heavy Duty Gate Latch, Malleable Galvanized Steel.....	50.73	
32 31 13 13-0636	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	786.19	
32 31 13 13-0637	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >5' To 8' High Gate.....	843.46	
32 31 13 13-0638	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >8' To 12' High Gate.....	900.73	
32 31 13 13-0639	LF		Aluminum V-Groove Gate Track.....	53.65	9.62
32 31 13 13-0640	LF		Galvanized Steel V-Groove Gate Track.....	42.14	9.62
32 31 13 13-0641			Vertical-Pivot Lift Gate <small>(32 31 13 13-0641)</small>		
			Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0642	EA		5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	18,488.39	787.50
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
32 31 13 13-0643	EA		5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	18,803.39	945.00
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
32 31 13 13-0644	EA		5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	19,118.39	1,102.50
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	287.50	
32 31 13 13-0645	EA		5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	19,645.47	1,260.00
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	
32 31 13 13-0646	EA		5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	20,161.94	1,417.51
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	
32 31 13 13-0647	EA		6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	19,374.45	1,023.75
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
32 31 13 13-0648	EA		6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	19,689.45	1,181.25
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
32 31 13 13-0649	EA		6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	20,004.44	1,338.75
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	287.50	
32 31 13 13-0650	EA		6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	20,436.08	1,496.25
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Rewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	



Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0651 EA 6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	21,047.99 239.00 245.00 317.50	1,653.75
32 31 13 13-0652 Accessories <small>(32 31 13 13)</small>		
32 31 13 13-0653 Barbed And Concertina Wire <small>(32 31 13 13-0652)</small>		
32 31 13 13-0654 Single Strand Barbed Wire <small>(32 31 13 13-0653)</small>		
32 31 13 13-0655 LF Galvanized Barbed Wire, Per Strand..... <i>Note: Includes clips. 4 points 12-1/2 Gauge, Class I.</i> <i>For >500 To 2,000, Deduct</i> <i>For >2,000, Deduct</i>	0.97 -0.09 -0.14	0.44
32 31 13 13-0656 LF Vinyl Coated Barbed Wire (Fused), Per Strand..... <i>Note: Includes clips.</i> <i>For >500 To 2,000, Deduct</i> <i>For >2,000, Deduct</i>	1.09 -0.10 -0.15	0.44
32 31 13 13-0657 EA Barbed Wire Extension Arms 3 Strands (Single Arm).....	10.36	7.16
32 31 13 13-0658 EA Barbed Wire Extension Arms 6 Strands (Double Arm).....	16.46	8.59
32 31 13 13-0659 EA Barbed Wire Eye Tops (For Single Strand).....	10.81	7.16
32 31 13 13-0660 Galvanized Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0653)</small>		
32 31 13 13-0661 LF 18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	3.61 -0.32 -0.63 -0.90 -0.45 2.71	0.63
32 31 13 13-0662 LF 18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	5.42 -0.47 -0.95 -1.35 -0.67 4.08	0.63
32 31 13 13-0663 LF 18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	7.19 -0.63 -1.26 -1.80 -0.90 5.40	0.63
32 31 13 13-0664 LF 24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	5.84 -0.49 -0.98 -1.37 -0.50 4.85	0.63
32 31 13 13-0665 LF 24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	8.82 -0.74 -1.47 -2.06 -0.75 7.33	0.63
32 31 13 13-0666 LF 24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	11.65 -0.97 -1.95 -2.73 -0.99 9.67	0.63
32 31 13 13-0667 LF 30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	17.33 -1.36 -2.71 -3.69 -0.56 16.21	0.63
32 31 13 13-0668 LF 30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	26.21 -2.05 -4.10 -5.58 -0.84 24.54	0.63

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0669	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	34.66	0.63
			<i>For >500 To 1,500, Deduct</i>	-2.71	
			<i>For >1,500 To 5,000, Deduct</i>	-5.42	
			<i>For >5,000, Deduct</i>	-7.38	
			<i>For Ground Installation, Deduct</i>	-1.12	
			<i>For Double Coil (Helix), Add</i>	32.42	
32 31	13 13-0670		Stainless Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0653)</small>		
32 31	13 13-0671	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	6.20	0.63
			<i>For >500 To 1,500, Deduct</i>	-0.51	
			<i>For >1,500 To 5,000, Deduct</i>	-1.02	
			<i>For >5,000, Deduct</i>	-1.42	
			<i>For Ground Installation, Deduct</i>	-0.45	
			<i>For Double Coil (Helix), Add</i>	5.30	
32 31	13 13-0672	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	9.34	0.63
			<i>For >500 To 1,500, Deduct</i>	-0.77	
			<i>For >1,500 To 5,000, Deduct</i>	-1.54	
			<i>For >5,000, Deduct</i>	-2.14	
			<i>For Ground Installation, Deduct</i>	-0.67	
			<i>For Double Coil (Helix), Add</i>	8.00	
32 31	13 13-0673	LF	18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	12.37	0.63
			<i>For >500 To 1,500, Deduct</i>	-1.02	
			<i>For >1,500 To 5,000, Deduct</i>	-2.03	
			<i>For >5,000, Deduct</i>	-2.83	
			<i>For Ground Installation, Deduct</i>	-0.90	
			<i>For Double Coil (Helix), Add</i>	10.58	
32 31	13 13-0674	LF	24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	8.03	0.63
			<i>For >500 To 1,500, Deduct</i>	-0.65	
			<i>For >1,500 To 5,000, Deduct</i>	-1.30	
			<i>For >5,000, Deduct</i>	-1.81	
			<i>For Ground Installation, Deduct</i>	-0.50	
			<i>For Double Coil (Helix), Add</i>	7.04	
32 31	13 13-0675	LF	24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	12.15	0.63
			<i>For >500 To 1,500, Deduct</i>	-0.99	
			<i>For >1,500 To 5,000, Deduct</i>	-1.97	
			<i>For >5,000, Deduct</i>	-2.73	
			<i>For Ground Installation, Deduct</i>	-0.75	
			<i>For Double Coil (Helix), Add</i>	10.66	
32 31	13 13-0676	LF	24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	16.05	0.63
			<i>For >500 To 1,500, Deduct</i>	-1.30	
			<i>For >1,500 To 5,000, Deduct</i>	-2.61	
			<i>For >5,000, Deduct</i>	-3.61	
			<i>For Ground Installation, Deduct</i>	-0.99	
			<i>For Double Coil (Helix), Add</i>	14.07	
32 31	13 13-0677	LF	30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	25.65	0.63
			<i>For >500 To 1,500, Deduct</i>	-1.98	
			<i>For >1,500 To 5,000, Deduct</i>	-3.96	
			<i>For >5,000, Deduct</i>	-5.35	
			<i>For Ground Installation, Deduct</i>	-0.56	
			<i>For Double Coil (Helix), Add</i>	24.53	
32 31	13 13-0678	LF	30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	38.82	0.63
			<i>For >500 To 1,500, Deduct</i>	-3.00	
			<i>For >1,500 To 5,000, Deduct</i>	-5.99	
			<i>For >5,000, Deduct</i>	-8.10	
			<i>For Ground Installation, Deduct</i>	-0.84	
			<i>For Double Coil (Helix), Add</i>	37.15	
32 31	13 13-0679	LF	30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	51.30	0.63
			<i>For >500 To 1,500, Deduct</i>	-3.96	
			<i>For >1,500 To 5,000, Deduct</i>	-7.92	
			<i>For >5,000, Deduct</i>	-10.71	
			<i>For Ground Installation, Deduct</i>	-1.12	
			<i>For Double Coil (Helix), Add</i>	49.06	
32 31	13 13-0680		Grounding For Gates <small>(32 31 13 13-0652)</small>		
			Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31	13 13-0681	OPN	Grounding For Gates (Per Opening)	453.24	
32 31	13 13-0682		Coiled Spring Reinforcing Wire <small>(32 31 13 13-0652)</small>		
32 31	13 13-0683		Galvanized Steel <small>(32 31 13 13-0682)</small>		
32 31	13 13-0684	LF	7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.07	0.44



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32 31 13 13-0685	Vinyl Coated Steel (32 31 13 13-0682)		
32 31 13 13-0686	LF 9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.07	0.44
32 31 13 13-0687	Bending Of Fabric Around Pipe Railings (32 31 13 13-0652)		
	Note: Only where specified.		
32 31 13 13-0688	LF Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.41	
32 31 13 13-0689	LF Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.23	
32 31 13 13-0690	Mounting Plate With Anchors Or Bolts (32 31 13 13-0652)		
	Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0691	EA Mounting Plate For 1-5/8" Diameter Post.....	38.70	
32 31 13 13-0692	EA Mounting Plate For 2" Diameter Post.....	39.33	
32 31 13 13-0693	EA Mounting Plate For 2-1/2" Diameter Post.....	40.46	
32 31 13 13-0694	EA Mounting Plate For 3" Diameter Post.....	48.67	
32 31 13 13-0695	EA Mounting Plate For 4" Diameter Post.....	55.92	
32 31 13 13-0696	EA Mounting Plate For 6-5/8" Diameter Post.....	64.73	
32 31 13 13-0697	EA Mounting Plate For 8-5/8" Diameter Post.....	76.27	
32 31 13 13-0698	Tension Bar (32 31 13 13-0652)		
32 31 13 13-0699	EA 3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	12.98	
32 31 13 13-0700	EA 3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	13.78	
32 31 13 13-0701	EA 4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	16.64	
32 31 13 13-0702	EA 5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	19.12	
32 31 13 13-0703	EA 6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	22.39	
32 31 13 13-0704	EA 7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	25.77	
32 31 13 13-0705	EA 8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	29.07	
32 31 13 13-0706	EA 9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	34.60	
32 31 13 13-0707	EA 10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	41.34	
32 31 13 13-0708	Truss Rods (32 31 13 13-0652)		
32 31 13 13-0709	LF 3/8" Diameter Truss Rods.....	1.87	0.50
32 31 13 13-0710	Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0711	Fence And Gate Parts Replacement (32 31 13 13-0710)		
32 31 13 13-0712	EA Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	109.37	
32 31 13 13-0713	EA Sliding Gate Roller Assembly Replacement.....	107.82	
32 31 13 13-0714	EA Rod And Lock Gate Keeper Replacement.....	108.53	
32 31 13 13-0715	EA Galvanized Gate Holdback Replacement.....	24.40	
32 31 13 13-0716	LF 3/8" Cross Bracing Rod Replacement.....	1.41	
32 31 13 13-0717	LF 1-5/8" Diagonal Pipe Bracing Replacement.....	2.18	
32 31 13 13-0718	EA 2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	21.33	
32 31 13 13-0719	EA 2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	24.54	
32 31 13 13-0720	EA 3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	27.77	
32 31 13 13-0721	EA 6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	40.88	
32 31 13 13-0722	EA 8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	93.66	
32 31 13 13-0723	EA 2-1/2" x 2" Off Set Gate Hinge Replacement.....	22.67	
32 31 13 13-0724	EA 3" x 2" Off Set Gate Hinge Replacement.....	23.67	
32 31 13 13-0725	EA 4" x 2" Off Set Gate Hinge Replacement.....	25.27	
32 31 13 13-0726	EA 6-5/8" x 2" Off Set Gate Hinge Replacement.....	40.88	
32 31 13 13-0727	EA 8-5/8" x 2" Off Set Gate Hinge Replacement.....	63.96	
32 31 13 13-0728	EA 1-5/8" Aluminum Die-Cast Post Cap Replacement.....	4.89	
32 31 13 13-0729	EA 2" Aluminum Die-Cast Post Cap Replacement.....	5.37	
32 31 13 13-0730	EA 2-1/2" Aluminum Die-Cast Post Cap Replacement.....	6.18	
32 31 13 13-0731	EA 3" Aluminum Die-Cast Post Cap Replacement.....	7.13	
32 31 13 13-0732	EA 2" Galvanized Post Cap Replacement.....	5.70	
32 31 13 13-0733	EA 2-1/2" Galvanized Post Cap Replacement.....	6.17	
32 31 13 13-0734	EA 3" Galvanized Post Cap Replacement.....	7.07	
32 31 13 13-0735	EA 4" Galvanized Post Cap Replacement.....	10.39	
32 31 13 13-0736	EA 6-5/8" Galvanized Post Cap Replacement.....	19.27	
32 31 13 13-0737	EA 8-5/8" Galvanized Post Cap Replacement.....	31.50	
32 31 13 13-0738	EA 1-5/8" Boulevard Clamp Replacement.....	9.55	
32 31 13 13-0739	EA 2" Boulevard Clamp Replacement.....	11.63	
32 31 13 13-0740	EA 2-1/2" Boulevard Clamp Replacement.....	13.65	
32 31 13 13-0741	EA 3" Boulevard Clamp Replacement.....	16.56	
32 31 13 13-0742	EA 1-5/8" Gate Brace Or End Rail Clamp Replacement.....	9.37	
32 31 13 13-0743	EA 2" Gate Brace Or End Rail Clamp Replacement.....	11.38	
32 31 13 13-0744	EA 2-1/2" Gate Brace Or End Rail Clamp Replacement.....	13.40	
32 31 13 13-0745	EA 3" Gate Brace Or End Rail Clamp Replacement.....	16.30	
32 31 13 13-0746	EA 1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.74	
32 31 13 13-0747	EA 1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.82	
32 31 13 13-0748	EA 2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.03	
32 31 13 13-0749	EA 2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.94	
32 31 13 13-0750	EA 3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.09	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0751 EA 3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.23	
32 31 13 13-0752 EA 4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.61	
32 31 13 13-0753 EA 6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	13.39	
32 31 13 13-0754 Removal And Reinstallation Of Chain Link Fences (32 31 13 13) Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.		
32 31 13 13-0755 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	17.91	
32 31 13 13-0756 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	26.87	
32 31 13 33 Chain Link Backstops (32 31 13)		
32 31 13 33-0001 Regulation Baseball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0002 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	10,857.18	1,784.77
32 31 13 33-0003 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized.....	15,659.22	2,379.70
32 31 13 33-0004 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	19,953.90	2,776.32
32 31 13 33-0005 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	15,231.48	1,784.77
32 31 13 33-0006 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	22,204.54	2,379.70
32 31 13 33-0007 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	28,591.48	2,776.32
32 31 13 33-0008 Regulation Softball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0009 14' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0010 EA 14' Softball Backstop, Galvanized Regulation.....	9,286.83	1,826.06
32 31 13 33-0011 EA 14' Softball Backstop, Vinyl Coated Regulation	12,424.15	1,826.06
32 31 13 33-0012 18' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0013 EA 18' Softball Backstop, Galvanized Regulation.....	10,836.51	2,030.07
32 31 13 33-0014 EA 18' Softball Backstop Vinyl Coated Regulation	14,631.64	2,030.07
32 31 13 33-0015 20' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0016 EA 20' Softball Backstop, Galvanized Regulation.....	12,262.46	2,140.43
32 31 13 33-0017 EA 20' Softball Backstop, Vinyl Coated Regulation	16,766.06	2,140.43
32 31 13 33-0018 22' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0019 EA 22' Softball Backstop, Galvanized Regulation.....	14,114.91	2,205.01
32 31 13 33-0020 EA 22' Softball Backstop, Vinyl Coated Regulation	19,529.30	2,205.01
32 31 13 33-0021 24' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0022 EA 24' Softball Backstop, Galvanized Regulation.....	16,787.03	2,520.01
32 31 13 33-0023 EA 24' Softball Backstop, Vinyl Coated Regulation	23,517.08	2,520.01
32 31 16 Welded Wire Fences and Gates (32 31)		
32 31 16 00-0001 Welded Wire Fence (32 31 16)		
32 31 16 00-0002 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003 LF 3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	8.71	1.59
32 31 16 00-0004 LF 5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	9.36	1.59
32 31 16 00-0005 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006 LF 3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	8.58	1.59
32 31 16 00-0007 LF 5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	9.15	1.59
32 31 19 Decorative Metal Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001 Wrought Iron Fence (32 31 19) Note: Factory primed.		



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0002 Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center <small>(32 31 19 00-0001)</small>		
Note: Factory primed.		
32 31 19 00-0003 LF 3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	49.27	9.85
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0004 LF 4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	63.38	12.54
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0005 LF 5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	75.75	13.07
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0006 LF 6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	91.75	15.77
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0007 LF 7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	108.11	16.69
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0008 LF 8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	124.47	17.55
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0009 LF 10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	151.97	19.71
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0010 LF 12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	179.94	22.39
For Verticals Up To 2" On Center, Add		
For Verticals >2" To 2-1/2" On Center, Add		
For Verticals >3" To 4" On Center, Deduct		
For Verticals >4" To 6" On Center, Deduct		
32 31 19 00-0011 Wrought Iron Gates <small>(32 31 19 00-0001)</small>		
Note: Factory primed.		
32 31 19 00-0012 Single Wrought Iron Gates <small>(32 31 19 00-0011)</small>		
Note: Factory primed.		
32 31 19 00-0013 LF 3' Single Wrought Iron Gate, Hardware And Associated Trim	60.84	12.00
32 31 19 00-0014 LF 4' Single Wrought Iron Gate, Hardware And Associated Trim	79.86	14.87
32 31 19 00-0015 LF 5' Single Wrought Iron Gate, Hardware And Associated Trim	97.80	17.91
32 31 19 00-0016 LF 6' Single Wrought Iron Gate, Hardware And Associated Trim	118.94	21.49
32 31 19 00-0017 LF 8' Single Wrought Iron Gate, Hardware And Associated Trim	161.06	23.82
32 31 19 00-0018 LF 10' Single Wrought Iron Gate, Hardware And Associated Trim	195.75	26.34
32 31 19 00-0019 LF 12' Single Wrought Iron Gate, Hardware And Associated Trim	229.78	29.92
32 31 19 00-0020 Double Wrought Iron Gates <small>(32 31 19 00-0011)</small>		
Note: Factory primed.		
32 31 19 00-0021 LF 3' Double Wrought Iron Gate, Hardware And Associated Trim	74.52	10.75
32 31 19 00-0022 LF 4' Double Wrought Iron Gate, Hardware And Associated Trim	97.94	13.44
32 31 19 00-0023 LF 5' Double Wrought Iron Gate, Hardware And Associated Trim	119.48	16.12
32 31 19 00-0024 LF 6' Double Wrought Iron Gate, Hardware And Associated Trim	144.96	19.35
32 31 19 00-0025 LF 8' Double Wrought Iron Gate, Hardware And Associated Trim	197.17	21.49
32 31 19 00-0026 LF 10' Double Wrought Iron Gate, Hardware And Associated Trim	240.03	23.64
32 31 19 00-0027 LF 12' Double Wrought Iron Gate, Hardware And Associated Trim	282.22	26.87
32 31 19 00-0028 Repair Or Replace Wrought Iron Fence <small>(32 31 19 00-0001)</small>		
32 31 19 00-0029 LF Removal And Replacement Of Wrought Iron Picket	18.20	
32 31 19 00-0030 LF Removal And Replacement Of Wrought Iron Post	27.44	
32 31 19 00-0031 EA Straighten Wrought Iron Post	71.65	
32 31 19 00-0032 Steel Tube Fence, Powder Coated <small>(32 31 19)</small>		
Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033 Steel Tube Fence, 2 Rail <small>(32 31 19 00-0032)</small>		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0034 LF 3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	64.06	9.85
For Verticals Up To 2" On Center, Add	8.95	
For Verticals >2" To 2-1/2" On Center, Add	4.48	
For Verticals >3" To 4" On Center, Deduct	-4.48	
For Verticals >4" To 6" On Center, Deduct	-8.95	
For Solid Pickets, Add	12.97	
For Aluminum With Satin Finish, Add	10.53	
For Third Rail, Add	3.36	
For 1" Square x 14 Gauge Pickets, Add	11.19	
For 3" Square Posts, Add	4.48	
32 31 19 00-0035 LF 3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	68.53	10.54
For Verticals Up To 2" On Center, Add	9.49	
For Verticals >2" To 2-1/2" On Center, Add	4.75	
For Verticals >3" To 4" On Center, Deduct	-4.75	
For Verticals >4" To 6" On Center, Deduct	-9.49	
For Solid Pickets, Add	13.84	
For Aluminum With Satin Finish, Add	11.08	
For Third Rail, Add	3.56	
For 1" Square x 14 Gauge Pickets, Add	11.87	
For 3" Square Posts, Add	4.75	
32 31 19 00-0036 LF 4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	72.52	11.64
For Verticals Up To 2" On Center, Add	9.94	
For Verticals >2" To 2-1/2" On Center, Add	4.97	
For Verticals >3" To 4" On Center, Deduct	-4.97	
For Verticals >4" To 6" On Center, Deduct	-9.94	
For Solid Pickets, Add	14.61	
For Aluminum With Satin Finish, Add	11.49	
For Third Rail, Add	3.73	
For 1" Square x 14 Gauge Pickets, Add	12.43	
For 3" Square Posts, Add	4.97	
32 31 19 00-0037 LF 5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	77.29	13.07
For Verticals Up To 2" On Center, Add	10.19	
For Verticals >2" To 2-1/2" On Center, Add	5.10	
For Verticals >3" To 4" On Center, Deduct	-5.10	
For Verticals >4" To 6" On Center, Deduct	-10.19	
For Solid Pickets, Add	15.41	
For Aluminum With Satin Finish, Add	11.33	
For Third Rail, Add	3.82	
For 1" Square x 14 Gauge Pickets, Add	12.74	
For 3" Square Posts, Add	5.10	
32 31 19 00-0038 LF 6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	89.60	14.78
For Verticals Up To 2" On Center, Add	12.01	
For Verticals >2" To 2-1/2" On Center, Add	6.01	
For Verticals >3" To 4" On Center, Deduct	-6.01	
For Verticals >4" To 6" On Center, Deduct	-12.01	
For Solid Pickets, Add	17.94	
For Aluminum With Satin Finish, Add	13.58	
For Third Rail, Add	4.50	
For 1" Square x 14 Gauge Pickets, Add	15.01	
For 3" Square Posts, Add	6.01	
32 31 19 00-0039 LF 7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	102.60	16.12
For Verticals Up To 2" On Center, Add	14.07	
For Verticals >2" To 2-1/2" On Center, Add	7.04	
For Verticals >3" To 4" On Center, Deduct	-7.04	
For Verticals >4" To 6" On Center, Deduct	-14.07	
For Solid Pickets, Add	20.67	
For Aluminum With Satin Finish, Add	16.27	
For Third Rail, Add	5.28	
For 1" Square x 14 Gauge Pickets, Add	17.59	
For 4" Square Posts, Add	24.62	
32 31 19 00-0040 LF 8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	115.76	17.55
For Verticals Up To 2" On Center, Add	16.13	
For Verticals >2" To 2-1/2" On Center, Add	8.07	
For Verticals >3" To 4" On Center, Deduct	-8.07	
For Verticals >4" To 6" On Center, Deduct	-16.13	
For Solid Pickets, Add	23.41	
For Aluminum With Satin Finish, Add	18.93	
For Third Rail, Add	6.05	
For 1" Square x 14 Gauge Pickets, Add	20.16	
For 4" Square Posts, Add	28.23	
32 31 19 00-0041 LF 9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	134.60	18.81
For Verticals Up To 2" On Center, Add	19.40	
For Verticals >2" To 2-1/2" On Center, Add	9.70	
For Verticals >3" To 4" On Center, Deduct	-9.70	
For Verticals >4" To 6" On Center, Deduct	-19.40	
For Solid Pickets, Add	27.46	
For Aluminum With Satin Finish, Add	23.45	
For Third Rail, Add	7.27	
For 1" Square x 14 Gauge Pickets, Add	24.25	
For 4" Square Posts, Add	33.94	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0042	LF	10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 6" Square Posts, Add</i>	153.62 22.66 11.33 -11.33 -22.66 31.54 27.95 8.50 28.33 39.66	20.15
32 31	19 00-0043	LF	12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 6" Square Posts, Add</i>	180.94 27.23 13.62 -13.62 -27.23 37.35 34.13 10.21 34.04 47.66	22.39
32 31	19 00-0044	LF	14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 6" Square Posts, Add</i>	193.82 29.09 14.55 -14.55 -29.09 39.98 36.38 10.91 36.37 50.91	24.19
32 31 19 00-0045 Steel Tube Swing Gates (32 31 19 00-0032)					
32 31 19 00-0046 3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)					
32 31	19 00-0047	EA	3' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	709.79 155.40 187.14 48.94 65.25	19.07
32 31	19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	790.28 173.31 210.08 54.77 73.03	19.97
32 31	19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	875.20 192.15 233.94 60.87 81.16	21.14
32 31	19 00-0050	EA	5' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	920.34 201.97 245.47 63.92 85.23	22.66
32 31	19 00-0051	EA	6' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,027.50 225.07 271.57 70.95 94.60	27.14
32 31	19 00-0052	EA	7' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,092.20 238.62 284.94 74.79 99.73	31.62
32 31	19 00-0053	EA	8' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,191.41 259.87 308.25 81.16 108.21	36.36
32 31	19 00-0054	EA	9' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,277.33 278.20 327.98 86.60 115.46	40.84

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0055	EA		10' Wide x 3' High Steel Tube Single Swing Gate.....	1,352.66	45.32
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	294.14	
			<i>For Aluminum With Satin Finish, Add</i>	344.54	
			<i>For Third Rail, Add</i>	91.24	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	121.65	
32 31 19 00-0056	EA		6' Wide x 3' High Steel Tube Double Swing Gate.....	1,484.82	38.16
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	325.49	
			<i>For Aluminum With Satin Finish, Add</i>	393.86	
			<i>For Third Rail, Add</i>	102.76	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	137.02	
32 31 19 00-0057	EA		7' Wide x 3' High Steel Tube Double Swing Gate.....	1,582.32	39.94
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	347.02	
			<i>For Aluminum With Satin Finish, Add</i>	420.69	
			<i>For Third Rail, Add</i>	109.67	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	146.23	
32 31 19 00-0058	EA		8' Wide x 3' High Steel Tube Double Swing Gate.....	1,750.39	42.36
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	384.30	
			<i>For Aluminum With Satin Finish, Add</i>	467.89	
			<i>For Third Rail, Add</i>	121.74	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	162.32	
32 31 19 00-0059	EA		9' Wide x 3' High Steel Tube Double Swing Gate.....	1,834.44	43.89
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	402.87	
			<i>For Aluminum With Satin Finish, Add</i>	491.09	
			<i>For Third Rail, Add</i>	127.71	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	170.28	
32 31 19 00-0060	EA		10' Wide x 3' High Steel Tube Double Swing Gate.....	1,902.57	45.32
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	417.87	
			<i>For Aluminum With Satin Finish, Add</i>	509.51	
			<i>For Third Rail, Add</i>	132.48	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	176.64	
32 31 19 00-0061	EA		12' Wide x 3' High Steel Tube Double Swing Gate.....	2,139.86	54.28
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	469.24	
			<i>For Aluminum With Satin Finish, Add</i>	568.60	
			<i>For Third Rail, Add</i>	148.26	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	197.69	
32 31 19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate.....	2,343.55	63.23
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	513.06	
			<i>For Aluminum With Satin Finish, Add</i>	617.62	
			<i>For Third Rail, Add</i>	161.53	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	215.37	
32 31 19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate.....	2,513.66	72.81
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	549.18	
			<i>For Aluminum With Satin Finish, Add</i>	655.76	
			<i>For Third Rail, Add</i>	172.13	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	229.51	
32 31 19 00-0064	EA		18' Wide x 3' High Steel Tube Double Swing Gate.....	2,655.47	81.68
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	579.08	
			<i>For Aluminum With Satin Finish, Add</i>	686.21	
			<i>For Third Rail, Add</i>	180.75	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	241.01	
32 31 19 00-0065	EA		20' Wide x 3' High Steel Tube Double Swing Gate.....	2,770.75	90.64
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	603.00	
			<i>For Aluminum With Satin Finish, Add</i>	708.70	
			<i>For Third Rail, Add</i>	187.39	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	249.85	
32 31 19 00-0066			4' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0067	EA		3' Wide x 4' High Steel Tube Single Swing Gate.....	820.79	17.91
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	180.14	
			<i>For Aluminum With Satin Finish, Add</i>	219.03	
			<i>For Third Rail, Add</i>	57.02	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	76.03	
32 31 19 00-0068	EA		3'-6" Wide x 4' High Steel Tube Single Swing Gate.....	888.45	20.87
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	195.20	
			<i>For Aluminum With Satin Finish, Add</i>	238.32	
			<i>For Third Rail, Add</i>	61.93	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	82.58	



		Exterior Improvements	32
		Site Improvements	32 30
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0069 EA 4' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	958.35	22.39
For Solid Pickets, Add	210.59	
For Aluminum With Satin Finish, Add	257.27	
For Third Rail, Add	66.84	
For 1" Square x 14 Gauge Pickets, Add	89.12	
32 31 19 00-0070 EA 5' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,015.87	23.82
For Solid Pickets, Add	223.20	
For Aluminum With Satin Finish, Add	272.52	
For Third Rail, Add	70.82	
For 1" Square x 14 Gauge Pickets, Add	94.42	
32 31 19 00-0071 EA 6' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,093.86	28.67
For Solid Pickets, Add	239.67	
For Aluminum With Satin Finish, Add	289.46	
For Third Rail, Add	75.59	
For 1" Square x 14 Gauge Pickets, Add	100.79	
32 31 19 00-0072 EA 7' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,200.13	33.41
For Solid Pickets, Add	262.51	
For Aluminum With Satin Finish, Add	314.90	
For Third Rail, Add	82.49	
For 1" Square x 14 Gauge Pickets, Add	109.98	
32 31 19 00-0073 EA 8' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,347.08	38.16
For Solid Pickets, Add	294.50	
For Aluminum With Satin Finish, Add	352.54	
For Third Rail, Add	92.43	
For 1" Square x 14 Gauge Pickets, Add	123.24	
32 31 19 00-0074 EA 9' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,490.49	42.99
For Solid Pickets, Add	325.69	
For Aluminum With Satin Finish, Add	389.11	
For Third Rail, Add	102.11	
For 1" Square x 14 Gauge Pickets, Add	136.15	
32 31 19 00-0075 EA 10' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,626.83	47.74
For Solid Pickets, Add	355.29	
For Aluminum With Satin Finish, Add	423.56	
For Third Rail, Add	111.26	
For 1" Square x 14 Gauge Pickets, Add	148.35	
32 31 19 00-0076 EA 6' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,641.57	40.31
For Solid Pickets, Add	360.28	
For Aluminum With Satin Finish, Add	438.06	
For Third Rail, Add	114.05	
For 1" Square x 14 Gauge Pickets, Add	152.07	
32 31 19 00-0077 EA 7' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,776.89	41.74
For Solid Pickets, Add	390.40	
For Aluminum With Satin Finish, Add	476.64	
For Third Rail, Add	123.86	
For 1" Square x 14 Gauge Pickets, Add	165.15	
32 31 19 00-0078 EA 8' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,916.70	44.78
For Solid Pickets, Add	421.18	
For Aluminum With Satin Finish, Add	514.55	
For Third Rail, Add	133.68	
For 1" Square x 14 Gauge Pickets, Add	178.24	
32 31 19 00-0079 EA 9' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,027.27	46.22
For Solid Pickets, Add	445.72	
For Aluminum With Satin Finish, Add	545.71	
For Third Rail, Add	141.63	
For 1" Square x 14 Gauge Pickets, Add	188.84	
32 31 19 00-0080 EA 10' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,120.16	47.74
For Solid Pickets, Add	466.29	
For Aluminum With Satin Finish, Add	571.56	
For Third Rail, Add	148.26	
For 1" Square x 14 Gauge Pickets, Add	197.69	
32 31 19 00-0081 EA 12' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,405.20	57.23
For Solid Pickets, Add	528.27	
For Aluminum With Satin Finish, Add	644.18	
For Third Rail, Add	167.49	
For 1" Square x 14 Gauge Pickets, Add	223.32	
32 31 19 00-0082 EA 14' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,654.89	66.81
For Solid Pickets, Add	582.30	
For Aluminum With Satin Finish, Add	706.18	
For Third Rail, Add	184.07	
For 1" Square x 14 Gauge Pickets, Add	245.43	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0083	EA	16' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,870.98	76.31
			<i>For Solid Pickets, Add</i>	628.77	
			<i>For Aluminum With Satin Finish, Add</i>	758.11	
			<i>For Third Rail, Add</i>	198.13	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	264.17	
32 31	19 00-0084	EA	18' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,057.01	85.90
			<i>For Solid Pickets, Add</i>	668.48	
			<i>For Aluminum With Satin Finish, Add</i>	801.03	
			<i>For Third Rail, Add</i>	209.93	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	279.91	
32 31	19 00-0085	EA	20' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,214.76	95.48
			<i>For Solid Pickets, Add</i>	701.82	
			<i>For Aluminum With Satin Finish, Add</i>	835.45	
			<i>For Third Rail, Add</i>	219.61	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	292.81	
32 31	19 00-0086		5' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31	19 00-0087	EA	3' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	893.75	20.87
			<i>For Solid Pickets, Add</i>	196.39	
			<i>For Aluminum With Satin Finish, Add</i>	239.91	
			<i>For Third Rail, Add</i>	62.33	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	83.11	
32 31	19 00-0088	EA	3'-6" Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	942.44	22.39
			<i>For Solid Pickets, Add</i>	207.01	
			<i>For Aluminum With Satin Finish, Add</i>	252.50	
			<i>For Third Rail, Add</i>	65.64	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	87.53	
32 31	19 00-0089	EA	4' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	989.35	23.82
			<i>For Solid Pickets, Add</i>	217.23	
			<i>For Aluminum With Satin Finish, Add</i>	264.56	
			<i>For Third Rail, Add</i>	68.83	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	91.77	
32 31	19 00-0090	EA	5' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,057.48	25.35
			<i>For Solid Pickets, Add</i>	232.22	
			<i>For Aluminum With Satin Finish, Add</i>	282.99	
			<i>For Third Rail, Add</i>	73.60	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	98.14	
32 31	19 00-0091	EA	6' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,148.73	30.45
			<i>For Solid Pickets, Add</i>	251.61	
			<i>For Aluminum With Satin Finish, Add</i>	303.51	
			<i>For Third Rail, Add</i>	79.30	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	105.74	
32 31	19 00-0092	EA	7' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,270.06	35.46
			<i>For Solid Pickets, Add</i>	277.77	
			<i>For Aluminum With Satin Finish, Add</i>	333.06	
			<i>For Third Rail, Add</i>	87.26	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	116.35	
32 31	19 00-0093	EA	8' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,440.02	40.84
			<i>For Solid Pickets, Add</i>	314.80	
			<i>For Aluminum With Satin Finish, Add</i>	376.79	
			<i>For Third Rail, Add</i>	98.80	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	131.73	
32 31	19 00-0094	EA	9' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,605.54	45.94
			<i>For Solid Pickets, Add</i>	350.90	
			<i>For Aluminum With Satin Finish, Add</i>	419.59	
			<i>For Third Rail, Add</i>	110.07	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	146.76	
32 31	19 00-0095	EA	10' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,767.52	50.97
			<i>For Solid Pickets, Add</i>	386.21	
			<i>For Aluminum With Satin Finish, Add</i>	461.34	
			<i>For Third Rail, Add</i>	121.08	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	161.44	
32 31	19 00-0096	EA	6' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,762.60	35.20
			<i>For Solid Pickets, Add</i>	389.05	
			<i>For Aluminum With Satin Finish, Add</i>	483.56	
			<i>For Third Rail, Add</i>	124.66	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	166.21	



Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0097 EA 7' Wide x 5' High Steel Tube Double Swing Gate.....	1,865.99	41.02
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	411.05	
<i>For Aluminum With Satin Finish, Add</i>	507.04	
<i>For Third Rail, Add</i>	131.16	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	174.88	
32 31 19 00-0098 EA 8' Wide x 5' High Steel Tube Double Swing Gate.....	1,970.37	47.20
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	433.21	
<i>For Aluminum With Satin Finish, Add</i>	530.37	
<i>For Third Rail, Add</i>	137.65	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	183.54	
32 31 19 00-0099 EA 9' Wide x 5' High Steel Tube Double Swing Gate.....	2,114.42	53.12
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	464.37	
<i>For Aluminum With Satin Finish, Add</i>	566.05	
<i>For Third Rail, Add</i>	147.20	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	196.27	
32 31 19 00-0100 EA 10' Wide x 5' High Steel Tube Double Swing Gate.....	2,240.80	58.94
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	491.54	
<i>For Aluminum With Satin Finish, Add</i>	596.43	
<i>For Third Rail, Add</i>	155.42	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	207.23	
32 31 19 00-0101 EA 12' Wide x 5' High Steel Tube Double Swing Gate.....	2,551.27	65.56
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	560.00	
<i>For Aluminum With Satin Finish, Add</i>	681.15	
<i>For Third Rail, Add</i>	177.31	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	236.41	
32 31 19 00-0102 EA 14' Wide x 5' High Steel Tube Double Swing Gate.....	2,830.12	72.72
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	621.19	
<i>For Aluminum With Satin Finish, Add</i>	755.49	
<i>For Third Rail, Add</i>	196.67	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	262.22	
32 31 19 00-0103 EA 16' Wide x 5' High Steel Tube Double Swing Gate.....	3,079.12	80.70
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	675.51	
<i>For Aluminum With Satin Finish, Add</i>	819.99	
<i>For Third Rail, Add</i>	213.64	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	284.86	
32 31 19 00-0104 EA 18' Wide x 5' High Steel Tube Double Swing Gate.....	3,302.77	89.66
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	723.91	
<i>For Aluminum With Satin Finish, Add</i>	875.56	
<i>For Third Rail, Add</i>	228.50	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	304.66	
32 31 19 00-0105 EA 20' Wide x 5' High Steel Tube Double Swing Gate.....	3,501.09	99.68
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	766.39	
<i>For Aluminum With Satin Finish, Add</i>	922.20	
<i>For Third Rail, Add</i>	241.23	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	321.64	
32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0107 EA 3' Wide x 6' High Steel Tube Single Swing Gate.....	930.07	22.93
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	204.09	
<i>For Aluminum With Satin Finish, Add</i>	247.99	
<i>For Third Rail, Add</i>	64.58	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	86.11	
32 31 19 00-0108 EA 3'-6" Wide x 6' High Steel Tube Single Swing Gate.....	977.87	24.19
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	214.58	
<i>For Aluminum With Satin Finish, Add</i>	260.71	
<i>For Third Rail, Add</i>	67.90	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	90.53	
32 31 19 00-0109 EA 4' Wide x 6' High Steel Tube Single Swing Gate.....	1,026.29	25.53
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	225.16	
<i>For Aluminum With Satin Finish, Add</i>	273.34	
<i>For Third Rail, Add</i>	71.21	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	94.95	
32 31 19 00-0110 EA 5' Wide x 6' High Steel Tube Single Swing Gate.....	1,085.85	27.14
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	238.20	
<i>For Aluminum With Satin Finish, Add</i>	289.08	
<i>For Third Rail, Add</i>	75.33	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	100.43	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,217.79	32.78
			<i>For Solid Pickets, Add</i>	266.61	
			<i>For Aluminum With Satin Finish, Add</i>	321.00	
			<i>For Third Rail, Add</i>	83.95	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	111.93	
32 31	19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,358.57	38.51
			<i>For Solid Pickets, Add</i>	297.01	
			<i>For Aluminum With Satin Finish, Add</i>	355.58	
			<i>For Third Rail, Add</i>	93.23	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	124.30	
32 31	19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,516.16	43.89
			<i>For Solid Pickets, Add</i>	331.26	
			<i>For Aluminum With Satin Finish, Add</i>	395.60	
			<i>For Third Rail, Add</i>	103.84	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	138.45	
32 31	19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,667.56	49.53
			<i>For Solid Pickets, Add</i>	364.05	
			<i>For Aluminum With Satin Finish, Add</i>	433.36	
			<i>For Third Rail, Add</i>	113.92	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	151.89	
32 31	19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,852.55	55.17
			<i>For Solid Pickets, Add</i>	404.40	
			<i>For Aluminum With Satin Finish, Add</i>	481.20	
			<i>For Third Rail, Add</i>	126.51	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	168.69	
32 31	19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,830.61	37.98
			<i>For Solid Pickets, Add</i>	403.76	
			<i>For Aluminum With Satin Finish, Add</i>	500.41	
			<i>For Third Rail, Add</i>	129.17	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	172.22	
32 31	19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,937.74	44.51
			<i>For Solid Pickets, Add</i>	426.46	
			<i>For Aluminum With Satin Finish, Add</i>	524.13	
			<i>For Third Rail, Add</i>	135.80	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	181.06	
32 31	19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,043.88	50.69
			<i>For Solid Pickets, Add</i>	449.01	
			<i>For Aluminum With Satin Finish, Add</i>	547.99	
			<i>For Third Rail, Add</i>	142.43	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	189.91	
32 31	19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,172.23	57.23
			<i>For Solid Pickets, Add</i>	476.49	
			<i>For Aluminum With Satin Finish, Add</i>	578.07	
			<i>For Third Rail, Add</i>	150.65	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	200.87	
32 31	19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,374.84	63.77
			<i>For Solid Pickets, Add</i>	520.67	
			<i>For Aluminum With Satin Finish, Add</i>	630.43	
			<i>For Third Rail, Add</i>	164.44	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	219.26	
32 31	19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,786.30	71.03
			<i>For Solid Pickets, Add</i>	611.70	
			<i>For Aluminum With Satin Finish, Add</i>	744.56	
			<i>For Third Rail, Add</i>	193.75	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	258.33	
32 31	19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,916.03	79.36
			<i>For Solid Pickets, Add</i>	639.11	
			<i>For Aluminum With Satin Finish, Add</i>	772.84	
			<i>For Third Rail, Add</i>	201.71	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	268.94	
32 31	19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,201.58	88.32
			<i>For Solid Pickets, Add</i>	701.44	
			<i>For Aluminum With Satin Finish, Add</i>	846.98	
			<i>For Third Rail, Add</i>	221.20	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	294.94	
32 31	19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,463.55	98.25
			<i>For Solid Pickets, Add</i>	758.24	
			<i>For Aluminum With Satin Finish, Add</i>	912.71	
			<i>For Third Rail, Add</i>	238.71	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	318.28	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,706.49 810.46 970.96 254.49 339.32	109.63
32 31 19 00-0126 7' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>					
32 31	19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	985.23 216.08 261.99 68.30 91.06	24.81
32 31	19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,035.15 227.02 275.20 71.75 95.66	26.15
32 31	19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,085.25 237.98 288.37 75.19 100.26	27.50
32 31	19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,135.41 248.95 301.53 78.64 104.85	28.93
32 31	19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,313.37 287.58 346.45 90.58 120.77	35.20
32 31	19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,476.27 322.89 387.26 101.45 135.27	41.20
32 31	19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,594.10 347.99 414.15 108.88 145.17	47.38
32 31	19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,728.71 376.94 446.47 117.63 156.84	53.38
32 31	19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,894.29 412.78 487.67 128.64 171.52	59.65
32 31	19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,937.51 427.22 528.94 136.59 182.13	40.66
32 31	19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,049.16 450.86 553.56 143.49 191.32	47.56
32 31	19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,161.79 474.65 578.04 150.39 200.51	54.81

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,275.20	61.71
			<i>For Solid Pickets, Add</i>	498.69	
			<i>For Aluminum With Satin Finish, Add</i>	603.20	
			<i>For Third Rail, Add</i>	157.41	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	209.89	
32 31	19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,562.90	68.96
			<i>For Solid Pickets, Add</i>	561.87	
			<i>For Aluminum With Satin Finish, Add</i>	680.20	
			<i>For Third Rail, Add</i>	177.44	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	236.59	
32 31	19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,100.10	76.94
			<i>For Solid Pickets, Add</i>	681.05	
			<i>For Aluminum With Satin Finish, Add</i>	831.17	
			<i>For Third Rail, Add</i>	216.03	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	288.04	
32 31	19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,063.05	86.25
			<i>For Solid Pickets, Add</i>	670.71	
			<i>For Aluminum With Satin Finish, Add</i>	808.08	
			<i>For Third Rail, Add</i>	211.26	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	281.67	
32 31	19 00-0143	EA	16' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,317.95	96.19
			<i>For Solid Pickets, Add</i>	725.92	
			<i>For Aluminum With Satin Finish, Add</i>	871.69	
			<i>For Third Rail, Add</i>	228.23	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	304.31	
32 31	19 00-0144	EA	18' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,622.77	107.57
			<i>For Solid Pickets, Add</i>	792.07	
			<i>For Aluminum With Satin Finish, Add</i>	948.51	
			<i>For Third Rail, Add</i>	248.65	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	331.54	
32 31	19 00-0145	EA	20' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,822.68	120.02
			<i>For Solid Pickets, Add</i>	834.39	
			<i>For Aluminum With Satin Finish, Add</i>	992.52	
			<i>For Third Rail, Add</i>	260.99	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	347.98	
32 31	19 00-0146		8' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31	19 00-0147	EA	3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,070.80	26.87
			<i>For Solid Pickets, Add</i>	234.88	
			<i>For Aluminum With Satin Finish, Add</i>	284.97	
			<i>For Third Rail, Add</i>	74.26	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	99.02	
32 31	19 00-0148	EA	3'-6" Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,123.02	28.30
			<i>For Solid Pickets, Add</i>	246.30	
			<i>For Aluminum With Satin Finish, Add</i>	298.62	
			<i>For Third Rail, Add</i>	77.84	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	103.79	
32 31	19 00-0149	EA	4' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,178.78	29.83
			<i>For Solid Pickets, Add</i>	258.51	
			<i>For Aluminum With Satin Finish, Add</i>	313.33	
			<i>For Third Rail, Add</i>	81.69	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	108.92	
32 31	19 00-0150	EA	5' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,227.98	33.22
			<i>For Solid Pickets, Add</i>	268.81	
			<i>For Aluminum With Satin Finish, Add</i>	323.45	
			<i>For Third Rail, Add</i>	84.61	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	112.81	
32 31	19 00-0151	EA	6' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,453.15	37.62
			<i>For Solid Pickets, Add</i>	318.50	
			<i>For Aluminum With Satin Finish, Add</i>	385.16	
			<i>For Third Rail, Add</i>	100.52	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	134.03	
32 31	19 00-0152	EA	7' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,616.12	45.32
			<i>For Solid Pickets, Add</i>	353.42	
			<i>For Aluminum With Satin Finish, Add</i>	423.57	
			<i>For Third Rail, Add</i>	111.00	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	148.00	



Exterior Improvements	32
Site Improvements	32 30
Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0153	EA	8' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,686.25 367.52 434.54 114.58 152.77	52.75
32 31	19 00-0154	EA	9' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,806.80 392.89 460.22 121.87 162.50	60.55
32 31	19 00-0155	EA	10' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,911.41 414.68 481.13 127.97 170.63	68.34
32 31	19 00-0156	EA	6' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,106.28 464.60 576.03 148.66 198.22	43.44
32 31	19 00-0157	EA	7' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,230.92 490.73 601.89 156.09 208.12	52.40
32 31	19 00-0158	EA	8' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,352.80 516.30 627.37 163.38 217.84	60.99
32 31	19 00-0159	EA	9' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,454.46 537.25 646.34 169.08 225.45	70.04
32 31	19 00-0160	EA	10' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,853.16 625.04 754.42 197.07 262.76	79.00
32 31	19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,558.96 781.70 953.30 247.86 330.48	88.94
32 31	19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,248.44 709.40 845.52 222.13 296.17	100.31
32 31	19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,476.84 757.98 897.19 236.45 315.27	113.48
32 31	19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,831.19 834.60 984.87 259.93 346.57	127.90
32 31	19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,905.79 847.92 986.41 262.05 349.40	144.12

32 31 19 00-0166 Replace Steel Tube Fence Pickets (32 31 19 00-0032)

32 31 19 00-0167	LF	Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket	25.55
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	0.76

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0168 Removal And Reinstallation Of Ornamental Fences <small>(32 31 19)</small> Note: Including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169 LF Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	40.31	
32 31 19 00-0170 LF Removal And Reinstallation Of Ornamental Fence, 6' Height.....	44.34	
32 31 19 00-0171 LF Removal And Reinstallation Of Ornamental Fence, 7' Height.....	48.36	
32 31 19 00-0172 LF Removal And Reinstallation Of Ornamental Fence, 8' Height.....	52.40	
32 31 19 00-0173 LF Removal And Reinstallation Of Ornamental Fence, 9' Height.....	56.42	
32 31 19 00-0174 LF Removal And Reinstallation Of Ornamental Fence, 10' Height.....	60.46	
32 31 19 00-0175 LF Removal And Reinstallation Of Ornamental Fence 12' Height.....	67.18	
 32 31 23 Plastic Fences and Gates <small>(32 31)</small>		
32 31 23 00-0001 Vinyl Fence <small>(32 31 23)</small>		
32 31 23 00-0002 Privacy Tongue And Groove Vinyl Fence <small>(32 31 23 00-0001)</small> Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.		
32 31 23 00-0003 LF 3' High Privacy Tongue And Groove Vinyl Fence	48.37	5.86
32 31 23 00-0004 LF 4' High Privacy Tongue And Groove Vinyl Fence	54.34	7.03
32 31 23 00-0005 LF 5' High Privacy Tongue And Groove Vinyl Fence	60.80	8.19
32 31 23 00-0006 LF 6' High Privacy Tongue And Groove Vinyl Fence	67.12	9.37
 32 31 23 00-0007 Semi-Privacy 6" Picket Vinyl Fence <small>(32 31 23 00-0001)</small> Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0008 LF 5' High Semi-Privacy 6" Picket Vinyl Fence	64.92	8.19
32 31 23 00-0009 LF 6' High Semi-Privacy 6" Picket Vinyl Fence	71.29	9.37
 32 31 23 00-0010 Picket Straight Top Vinyl Fence <small>(32 31 23 00-0001)</small> Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0011 LF 3' High Picket Straight Top Vinyl Fence	44.73	5.86
32 31 23 00-0012 LF 4' High Picket Straight Top Vinyl Fence	50.89	7.03
32 31 23 00-0013 LF 5' High Picket Straight Top Vinyl Fence	58.38	8.19
32 31 23 00-0014 LF 6' High Picket Straight Top Vinyl Fence	64.75	9.37
 32 31 23 00-0015 Picket Scalloped Top Vinyl Fence <small>(32 31 23 00-0001)</small> Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0016 LF 3' High Picket Scalloped Top Vinyl Fence.....	49.41	5.86
32 31 23 00-0017 LF 4' High Picket Scalloped Top Vinyl Fence.....	55.72	7.03
32 31 23 00-0018 LF 5' High Picket Scalloped Top Vinyl Fence.....	62.89	8.19
32 31 23 00-0019 LF 6' High Picket Scalloped Top Vinyl Fence.....	69.41	9.37
 32 31 23 00-0020 Post And Rail Vinyl Fence, Ranch Style <small>(32 31 23 00-0001)</small> Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.		
32 31 23 00-0021 LF 5' High, 2 Rail, Post And Rail Vinyl Fence	19.13	5.86
32 31 23 00-0022 LF 6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	24.40	7.03
32 31 23 00-0023 LF 7' High, 4 Rail, Post And Rail Vinyl Fence	27.97	7.61
 32 31 23 00-0024 Post, Rails And Pickets (Traditional Style) Vinyl Fence <small>(32 31 23 00-0001)</small> Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.		
32 31 23 00-0025 LF 3' High Rail And Picket Vinyl Fence, 72" On Center Posts	57.73	6.44
32 31 23 00-0026 LF 4' High Rail And Picket Vinyl Fence, 72" On Center Posts	63.24	7.61
32 31 23 00-0027 LF 3' High Rail And Picket Vinyl Fence, 96" On Center Posts	54.40	5.86
32 31 23 00-0028 LF 4' High Rail And Picket Vinyl Fence, 96" On Center Posts	59.36	7.03
 32 31 23 00-0029 Vinyl Gates <small>(32 31 23)</small>		
32 31 23 00-0030 Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0029)</small> Note: Includes hinges.		
32 31 23 00-0031 3' High Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0030)</small>		
32 31 23 00-0032 EA 3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	533.33	58.56
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033 EA 3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	565.73	61.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034 EA 3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	619.84	64.41
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035 EA 3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	693.25	67.34
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0036 4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037 EA 4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	565.73	61.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038 EA 4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	586.07	64.41
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039 EA 4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	649.82	67.34
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040 EA 4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	759.42	70.27
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041 5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042 EA 5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	586.07	64.41
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043 EA 5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	611.22	67.34
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044 EA 5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	699.10	70.27
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045 EA 5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	813.54	73.20
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0047 EA 6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	617.07	70.27
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048 EA 6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	642.23	73.20
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049 EA 6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	771.14	76.13
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050 EA 6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	849.39	76.13
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0051 Gates For Picket Fences (32 31 23 00-0029)		
Note: Includes hinges.		
32 31 23 00-0052 3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053 EA 3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	511.61	58.56
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054 EA 3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	531.95	61.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055 EA 3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	595.72	64.41
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	705.32	67.34
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0057 4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	517.47	61.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	537.81	64.41
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0060 EA 4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	601.57	67.34
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0061 EA 4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	711.17	70.27
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0062 5' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0063 EA 5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	537.81	64.41
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0064	EA		5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	562.96 14.50 38.50	67.34
32 31 23 00-0065	EA		5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	650.85 14.50 38.50	70.27
32 31 23 00-0066	EA		5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	765.28 14.50 38.50	73.20
32 31 23 00-0067			6' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0068	EA		6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	568.81 14.50 38.50	70.27
32 31 23 00-0069	EA		6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	593.97 14.50 38.50	73.20
32 31 23 00-0070	EA		6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	722.89 14.50 38.50	76.13
32 31 23 00-0071	EA		6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	801.13 14.50 38.50	79.06
32 31 23 00-0072			Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073	EA		Gate Stop/Drop Rod	116.13	
32 31 23 00-0074	EA		Latch Set.....	81.15	
32 31 23 00-0075	EA		Stainless Steel Latch Set.....	116.13	
32 31 26			Wire Fences and Gates (32 31)		
32 31 26 13			Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001			Chicken Wire (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002	LF		4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	7.41	1.59
32 31 26 13-0003	LF		6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.10	1.59
32 31 26 13-0004			Wire And Screen (32 31 26 13)		
32 31 26 13-0005			Wire And Screen For Partitions And Fences (32 31 26 13-0004) Note: Excludes framing and post.		
32 31 26 13-0006			Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF		Screen Wire, 48" Wide Rolls.....	12.64	1.18
32 31 26 13-0008			Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009	SF		4" x 4" Hog Wire For Fencing.....	2.31	0.94
32 31 26 13-0010	SF		6" x 6" Hog Wire For Fencing.....	2.42	1.07
32 31 26 13-0011			Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012	LF		4' Non-Climb Woven, 12.5 Gauge, Horse Fence	10.52	3.78
32 31 26 13-0013	LF		5' Non-Climb Woven, 12.5 Gauge, Horse Fence	13.45	4.72
32 31 26 13-0014	LF		6' Non-Climb Woven, 12.5 Gauge, Horse Fence	16.79	5.66
32 31 26 13-0015			Screen For Partitions And Ceilings (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF		1" Mesh Chicken Wire.....	1.97	
32 31 26 13-0017			Wicket Fence (32 31 26 13)		
32 31 26 13-0018	LF		Steel Wicket Fence, Painted.....	55.65	5.06
32 31 29			Wood Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001			Basket Weave (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF		6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post	37.92	3.17
			<i>For Fastening With Screws Instead Of Nails, Add</i>	2.23	
32 31 29 00-0003	LF		6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post	25.13	3.17
			<i>For Fastening With Screws Instead Of Nails, Add</i>	1.61	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0004			Board Fence <small>(32 31 29)</small>		
			Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF		Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence	25.31	3.17
			For 1" x 6" Boards, Deduct	-2.62	
			For 1" x 3" Boards (Stockade Top), Add	3.24	
			For Fastening With Screws Instead Of Nails, Add	1.63	
32 31 29 00-0006	LF		Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence	28.20	3.17
			For 1" x 6" Boards, Deduct	-2.86	
			For 1" x 3" Boards (Stockade Top), Add	3.52	
			For Fastening With Screws Instead Of Nails, Add	1.80	
32 31 29 00-0007	LF		Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	31.56	3.17
			For 1" x 6" Boards, Deduct	-3.06	
			For 1" x 3" Boards (Stockade Top), Add	3.72	
			For Fastening With Screws Instead Of Nails, Add	1.99	
32 31 29 00-0008	LF		Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	33.74	3.17
			For 1" x 6" Boards, Deduct	-3.22	
			For 1" x 3" Boards (Stockade Top), Add	3.90	
			For Fastening With Screws Instead Of Nails, Add	2.11	
32 31 29 00-0009	LF		Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	36.09	3.17
			For 1" x 6" Boards, Deduct	-3.38	
			For 1" x 3" Boards (Stockade Top), Add	4.08	
			For Fastening With Screws Instead Of Nails, Add	2.24	
32 31 29 00-0010	LF		Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	27.12	3.17
			For 1" x 6" Boards, Deduct	-2.69	
			For 1" x 3" Boards (Stockade Top), Add	3.30	
			For Fastening With Screws Instead Of Nails, Add	1.72	
32 31 29 00-0011	LF		Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	29.59	3.17
			For 1" x 6" Boards, Deduct	-2.91	
			For 1" x 3" Boards (Stockade Top), Add	3.56	
			For Fastening With Screws Instead Of Nails, Add	1.87	
32 31 29 00-0012	LF		Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence	31.56	3.17
			For 1" x 6" Boards, Deduct	-3.06	
			For 1" x 3" Boards (Stockade Top), Add	3.72	
			For Fastening With Screws Instead Of Nails, Add	1.99	
32 31 29 00-0013	LF		Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence	33.74	3.17
			For 1" x 6" Boards, Deduct	-3.22	
			For 1" x 3" Boards (Stockade Top), Add	3.90	
			For Fastening With Screws Instead Of Nails, Add	2.11	
32 31 29 00-0014	LF		Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence	36.09	3.17
			For 1" x 6" Boards, Deduct	-3.38	
			For 1" x 3" Boards (Stockade Top), Add	4.08	
			For Fastening With Screws Instead Of Nails, Add	2.24	
32 31 29 00-0015	LF		Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	27.12	3.17
			For 1" x 6" Boards, Deduct	-2.69	
			For 1" x 3" Boards (Stockade Top), Add	3.30	
			For Fastening With Screws Instead Of Nails, Add	1.72	
32 31 29 00-0016	LF		Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	35.75	3.17
			For 1" x 6" Boards, Deduct	-3.16	
			For 1" x 3" Boards (Stockade Top), Add	3.74	
			For Fastening With Screws Instead Of Nails, Add	2.18	
32 31 29 00-0017	LF		Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence	37.47	3.17
			For 1" x 6" Boards, Deduct	-3.29	
			For 1" x 3" Boards (Stockade Top), Add	3.90	
			For Fastening With Screws Instead Of Nails, Add	2.28	
32 31 29 00-0018	LF		Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence	40.34	3.17
			For 1" x 6" Boards, Deduct	-3.48	
			For 1" x 3" Boards (Stockade Top), Add	4.09	
			For Fastening With Screws Instead Of Nails, Add	2.44	
32 31 29 00-0019	LF		Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence	43.45	3.17
			For 1" x 6" Boards, Deduct	-3.68	
			For 1" x 3" Boards (Stockade Top), Add	4.30	
			For Fastening With Screws Instead Of Nails, Add	2.61	
32 31 29 00-0020			Shadow Box <small>(32 31 29)</small>		
			Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF		Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	51.15	3.17
			For Fastening With Screws Instead Of Nails, Add	2.89	
32 31 29 00-0022	LF		Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	64.23	3.17
			For Fastening With Screws Instead Of Nails, Add	3.60	
32 31 29 00-0023	LF		Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	69.94	3.17
			For Fastening With Screws Instead Of Nails, Add	3.90	
32 31 29 00-0024	LF		Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	75.15	3.17
			For Fastening With Screws Instead Of Nails, Add	4.19	
32 31 29 00-0025			Open Rail Fence <small>(32 31 29)</small>		
32 31 29 00-0026			Post And Rail Fence, Ranch Style <small>(32 31 29 00-0025)</small>		
32 31 29 00-0027	LF		Post And Rail Fence, 2 Rails, 3' High #1 Cedar	25.04	3.17
32 31 29 00-0028	LF		Post And Rail Fence, 2 Rails, 3' High #2 Cedar	19.49	3.17
32 31 29 00-0029	LF		Post And Rail Fence, 3 Rails, 4' High #1 Cedar	29.71	3.17
32 31 29 00-0030	LF		Post And Rail Fence, 3 Rails, 4' High #2 Cedar	21.05	3.17

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0031 Split Rail Fence <small>(32 31 29 00-0025)</small>			
32 31 29 00-0032	LF Split Rail Fence, 2 Rails, 3' High #1 Cedar	23.61	3.17
32 31 29 00-0033	LF Split Rail Fence, 2 Rails, 3' High #2 Cedar	19.42	3.17
32 31 29 00-0034	LF Split Rail Fence, 3 Rail, 4' High #1 Cedar	26.98	3.17
32 31 29 00-0035	LF Split Rail Fence, 3 Rail, 4' High #2 Cedar	21.86	3.17
32 31 29 00-0036 Picket Fence <small>(32 31 29)</small>			
32 31 29 00-0037	LF Picket Fence, 2 Rail, 3' High, Pressure Treated	25.38	3.17
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.65	
32 31 29 00-0038	LF Picket Fence, 2 Rail, 3' High #1 Cedar	23.93	3.17
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.58	
32 31 29 00-0039 Wood Fence Post Accessories <small>(32 31 29)</small>			
32 31 29 00-0040	EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap	38.55	
32 31 29 00-0041	EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap	43.08	
32 31 29 00-0042	EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap	46.96	
32 31 29 00-0043	EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap	68.97	
32 31 29 00-0044 Wood Gate <small>(32 31 29)</small>			
32 31 29 00-0045 Board Fence Gates, Pressure Treated Wood <small>(32 31 29 00-0044)</small>			
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).			
32 31 29 00-0046	EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	420.13	131.91
32 31 29 00-0047	EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	464.10	139.82
32 31 29 00-0048	EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	518.61	153.02
32 31 29 00-0049	EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	587.59	160.93
32 31 29 00-0050	EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	656.56	168.84
32 31 29 00-0051	EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	535.81	174.12
32 31 29 00-0052	EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	582.90	182.03
32 31 29 00-0053	EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	630.00	189.95
32 31 29 00-0054	EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	708.35	197.86
32 31 29 00-0055	EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	771.07	205.78
32 31 29 00-0056 Board Fence Gates, Grade 2 Cedar <small>(32 31 29 00-0044)</small>			
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)			
32 31 29 00-0057	EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	620.35	99.15
32 31 29 00-0058	EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	641.63	105.11
32 31 29 00-0059	EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	673.96	115.01
32 31 29 00-0060	EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	710.87	120.97
32 31 29 00-0061	EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	757.15	126.92
32 31 29 00-0062	EA >5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	730.70	130.88
32 31 29 00-0063	EA >5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	758.23	136.83
32 31 29 00-0064	EA >5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	801.38	142.78
32 31 29 00-0065	EA >5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	844.54	148.73
32 31 29 00-0066	EA >5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	887.71	154.68
32 31 29 00-0067 Board Fence Gates, Grade 1 Cedar <small>(32 31 29 00-0044)</small>			
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)			
32 31 29 00-0068	EA 3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	667.24	99.15
32 31 29 00-0069	EA 3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	694.77	105.11
32 31 29 00-0070	EA 3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	730.23	115.01
32 31 29 00-0071	EA 3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	773.39	120.97
32 31 29 00-0072	EA 3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	816.55	126.92
32 31 29 00-0073	EA >5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	793.22	130.88
32 31 29 00-0074	EA >5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	820.75	136.83
32 31 29 00-0075	EA >5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	863.91	142.78
32 31 29 00-0076	EA >5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	907.07	148.73
32 31 29 00-0077	EA >5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	965.86	154.68
32 31 29 00-0078 Pressure Treated Wood Fence Posts <small>(32 31 29)</small>			
See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0653 for barbed wire, 32 31 56 00-0017 for barbed wire.			
32 31 29 00-0079	EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	40.05	13.19
32 31 29 00-0080	EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	44.99	13.19
32 31 29 00-0081	EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	70.67	25.33
32 31 29 00-0082	EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	76.29	25.33
32 31 29 00-0083 Wood Utility Pole Fence <small>(32 31 29)</small>			
Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.			

**Exterior Improvements 32****Site Improvements 32 30****Fences and Gates 32 31****32**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence..... Note: Includes notching post, drilling and pinned with #5 rebar.	49.03	3.17
32 31 29 00-0085 Wood Rail Fence (32 31 29) Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086 LF 4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	23.89	3.17
32 31 34 Tubular Barrier Gates (32 31)		
32 31 34 00-0001 Tube Gate (32 31 34) See CSI section 32 31 13 13-0001 for augering post holes and concrete fill, 32 31 13 13-0630 for gate accessories.		
32 31 34 00-0002 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering, concrete, bollard and chain.		
32 31 34 00-0003 EA 4' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	171.22	24.19
For 13 Gauge Tubing, Add	27.08	
For Galvanized Finish, Add	14.94	
32 31 34 00-0004 EA 6' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	222.66	31.35
For 13 Gauge Tubing, Add	35.13	
For Galvanized Finish, Add	19.29	
32 31 34 00-0005 EA 8' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	299.72	40.31
For 13 Gauge Tubing, Add	47.85	
For Galvanized Finish, Add	26.82	
32 31 34 00-0006 EA 10' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	347.20	50.16
For 13 Gauge Tubing, Add	54.21	
For Galvanized Finish, Add	29.24	
32 31 34 00-0007 EA 12' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	411.71	59.65
For 13 Gauge Tubing, Add	64.43	
For Galvanized Finish, Add	34.89	
32 31 34 00-0008 EA 14' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	450.23	67.18
For 13 Gauge Tubing, Add	69.89	
For Galvanized Finish, Add	37.31	
32 31 34 00-0009 EA 16' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	528.18	77.47
For 13 Gauge Tubing, Add	82.35	
For Galvanized Finish, Add	44.30	
32 31 34 00-0010 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.		
32 31 34 00-0011 EA 4' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	221.27	24.19
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	59.85	
32 31 34 00-0012 EA 6' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	265.75	31.35
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	68.68	
32 31 34 00-0013 EA 8' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	318.59	40.31
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	79.07	
32 31 34 00-0014 EA 10' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	368.68	50.16
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	86.56	
32 31 34 00-0015 EA 12' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	418.91	59.65
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	95.91	
32 31 34 00-0016 EA 14' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	464.44	67.18
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	105.16	
32 31 34 00-0017 EA 16' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	519.73	77.47
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	114.74	
32 31 34 00-0018 EA 18' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	596.75	87.19
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	133.01	
32 31 34 00-0019 EA 20' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	661.75	97.54
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	157.22	
32 31 34 00-0020 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.		
32 31 34 00-0021 EA 4' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	238.79	24.19
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	66.86	
32 31 34 00-0022 EA 6' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	282.99	31.35
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	75.58	
32 31 34 00-0023 EA 8' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	330.27	40.31
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	83.74	
32 31 34 00-0024 EA 10' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	385.72	50.16
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	93.38	
32 31 34 00-0025 EA 12' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	431.23	59.65
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	100.84	
32 31 34 00-0026 EA 14' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	493.20	67.18
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	116.67	
32 31 34 00-0027 EA 16' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	550.95	77.47
For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	127.23	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 34 00-0028 EA 18' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	644.40 152.07	87.19
32 31 34 00-0029 EA 20' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	704.59 174.36	97.54
32 31 34 00-0030 Tubular Steel Barrier Gate (Triangular Shape) (32 31 34 00-0001) Note: Includes posts, caps, welded hinges and lock keeper. Excludes augering, concrete, and bollards.		
32 31 34 00-0031 EA 4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	1,744.45 555.75	50.16
32 31 34 00-0032 EA 4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	1,894.74 595.58	59.65
32 31 34 00-0033 EA 4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,242.48 716.76	67.18
32 31 34 00-0034 EA 4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	1,802.09 578.52	50.16
32 31 34 00-0035 EA 4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	1,960.61 621.59	59.65
32 31 34 00-0036 EA 4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,308.35 742.77	67.18
32 31 34 00-0037 Four Rail Tube Gate, 1-1/2" Diameter Welded Galvanized Steel Tubing (32 31 34 00-0001) Note: Excludes augering holes and concrete.		
32 31 34 00-0038 EA 4' Four Rail Metal Frame Tube Gate, 1-1/2" Diameter Welded Galvanized Steel With Posts <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	403.57 32.45	24.19
32 31 34 00-0039 Tubular Horse Gate (32 31 34 00-0001) Note: Includes posts, caps and hardware. Treated with Natina (or Equal) galvanized surface stain "rustic brown finish". Excludes augering holes and concrete.		
32 31 34 00-0040 EA 5-1/2' Above Ground, 5' Wide Tubular Galvanized Steel Horse Gate With 3" Diameter Posts <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	3,068.22 886.94	24.19
32 31 34 00-0041 Pipe Gate (32 31 34) Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.		
32 31 34 00-0042 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	3,309.77	
32 31 34 00-0043 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	4,137.78	
32 31 34 00-0044 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	4,929.61	
32 31 41 Precast Concrete Fences (32 31)		
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. (32 31 41) Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.	60.59	3.17
32 31 56 Wild Life Deterrent Fence (32 31)		
32 31 56 00-0001 Barbed Wire Fences (32 31 56) Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002 Fence Posts (32 31 56 00-0001)		
32 31 56 00-0003 Fence Post Soil, Set In Concrete (32 31 56 00-0002)		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	86.24 138.94	7.16
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	115.57 187.93	7.16
32 31 56 00-0006 Post In Rock (32 31 56 00-0002)		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	84.66 136.57	7.16
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	113.99 185.56	7.16
32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish (32 31 56 00-0001) Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth	22.86	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth	23.41	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth	24.46	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth	25.50	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth	26.88	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth	30.24	



			Exterior Improvements	32
			Site Improvements	32 30
			Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 31 56 00-0016	EA	10' Studded Steel T-Post, Driven Into Earth	36.69	
32 31 56 00-0017		Barbed Wire <small>(32 31 56 00-0001)</small>		
		Note: Per strand.		
32 31 56 00-0018	LF	Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.79	0.36
32 31 56 00-0019	LF	Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand.....	0.91	0.36
32 31 56 00-0020		Barbed Wire Fence, Farm Style, With Wood Posts <small>(32 31 56 00-0001)</small>		
		Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021	LF	4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts.....	9.53	2.33
		Note: Posts at 10' maximum.		

32 32 Retaining Walls (32 30)

32 32 13 Cast-In-Place Concrete Retaining Wall (32 32)

Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001	LF	4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	379.34	124.16
		For >3:1 Sloped Soil At Top, Add	11.14	
32 32 13 00-0002	LF	6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	474.93	152.79
		For >3:1 Sloped Soil At Top, Add	14.39	
32 32 13 00-0003	LF	8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	518.78	164.80
		For >3:1 Sloped Soil At Top, Add	16.08	
32 32 13 00-0004	LF	10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	666.19	203.77
		For >3:1 Sloped Soil At Top, Add	21.99	
32 32 13 00-0005	LF	12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	768.38	234.06
		For >3:1 Sloped Soil At Top, Add	25.51	
32 32 13 00-0006	LF	16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,107.56	343.38
		For >3:1 Sloped Soil At Top, Add	35.78	
32 32 13 00-0007	LF	20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,518.06	474.05
		For >3:1 Sloped Soil At Top, Add	48.44	
32 32 13 00-0008	LF	4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	417.55	135.60
		For >3:1 Sloped Soil At Top, Add	12.44	
32 32 13 00-0009	LF	6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	513.38	163.39
		For >3:1 Sloped Soil At Top, Add	15.87	
32 32 13 00-0010	LF	8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	545.73	170.48
		For >3:1 Sloped Soil At Top, Add	17.41	
32 32 13 00-0011	LF	10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	755.95	228.47
		For >3:1 Sloped Soil At Top, Add	25.41	
32 32 13 00-0012	LF	12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	955.28	293.48
		For >3:1 Sloped Soil At Top, Add	31.31	
32 32 13 00-0013	LF	16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,428.34	444.84
		For >3:1 Sloped Soil At Top, Add	45.79	
32 32 13 00-0014	LF	20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,015.67	627.92
		For >3:1 Sloped Soil At Top, Add	64.59	

32 32 16 Precast Concrete Retaining Walls (32 32)

32 32 16 00-0001 Precast Retaining Walls (32 32 16)

Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.

32 32 16 00-0002	SF	10-15' High, Tied-back, Precast Concrete Retaining Walls	86.79	12.60
32 32 16 00-0003	SF	16-20' High, Tied-back, Precast Concrete Retaining Walls	89.13	10.12
32 32 16 00-0004	SF	21-25' High, Tied-back, Precast Concrete Retaining Walls	92.45	8.44
32 32 16 00-0005	SF	26-30' High, Tied-back, Precast Concrete Retaining Walls	99.96	8.44
32 32 16 00-0006	SF	>30' High, Tied-back, Precast Concrete Retaining Walls	105.76	7.20

32 32 23 Segmental Retaining Walls (32 32)

32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls (32 32 23)

32 32 23 13-0001 Modular Retaining Wall Systems (32 32 23 13)

Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.

32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems <small>(32 32 23 13-0001)</small>				
32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System.....	95.92	8.52
		For >3:1 Sloped Soil At Top, Add	6.70	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	101.22	8.97
		For >3:1 Sloped Soil At Top, Add	7.08	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	104.89	9.87
		For >3:1 Sloped Soil At Top, Add	7.24	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	108.86	10.76
		For >3:1 Sloped Soil At Top, Add	7.42	

32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0008	SF		Up To 4' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	100.04 7.06	8.52
32 32 23 13-0009	SF		4 To 8' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	105.34 7.43	8.97
32 32 23 13-0010	SF		8 To 12' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	109.02 7.59	9.87
32 32 23 13-0011	SF		12 To 16' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	112.98 7.77	10.76
32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0013	SF		Up To 4' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	109.89 7.89	8.52
32 32 23 13-0014	SF		4 To 8' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	115.19 8.27	8.97
32 32 23 13-0015	SF		8 To 12' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	118.87 8.43	9.87
32 32 23 13-0016	SF		12 To 16' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	122.83 8.61	10.76
32 32 23 13-0017 "Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0018	SF		Up To 4' Height "Criblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	95.92 6.70 0.25	8.52
32 32 23 13-0019	SF		4 To 8' Height "Criblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	101.22 7.08 0.25	8.97
32 32 23 13-0020	SF		8 To 12' Height "Criblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	104.89 7.24 0.25	9.87
32 32 23 13-0021	SF		12 To 16' Height "Criblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	108.86 7.42 0.25	10.76
32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0023	SF		Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	83.41 5.64	8.52
32 32 23 13-0024	SF		4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	92.84 6.37	8.97
32 32 23 13-0025	SF		8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	96.58 6.53	9.87
32 32 23 13-0026	SF		12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	99.78 6.65	10.76
32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)					
32 32 23 13-0028	LF		Removal And Reinstall Retaining Wall Cap Block And Pins <i>For >3:1 Sloped Soil At Top, Add</i>	28.16 1.30	
32 32 26 Metal Crib Retaining Walls (32 32)					
32 32 26 00-0001 Bin Type Retaining Wall (32 32 26)					
32 32 26 00-0002 Vertical Bin Walls (32 32 26 00-0001)					
Note: Excludes excavation and backfill.					
32 32 26 00-0003	SF		5.5' Vertical Bin Retaining Wall, Wall Heights To 11'	63.09	
32 32 26 00-0004	SF		7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33'	74.31	
32 32 26 00-0005	SF		9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67'	86.53	
32 32 26 00-0006	SF		12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67'	93.26	
32 32 26 00-0007	SF		14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	104.31	
32 32 26 00-0008	SF		16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	111.04	
32 32 26 00-0009 Battered Bin Walls (32 32 26 00-0001)					
Note: Excludes excavation and backfill.					
32 32 26 00-0010	SF		5.5' Battered Bin Retain Wall, Wall Heights To 11'	56.65	
32 32 26 00-0011	SF		7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33'	61.14	
32 32 26 00-0012	SF		9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67'	68.78	
32 32 26 00-0013	SF		12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67'	76.64	
32 32 26 00-0014	SF		14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	89.74	
32 32 26 00-0015	SF		16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	91.98	
32 32 26 00-0016 Aluminized Steel Bin (32 32 26)					
Note: Excludes excavation and backfill.					
32 32 26 00-0017	SF		4' High, 5.5' Deep Aluminized Steel Bin <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	38.56 2.49 -2.92	4.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0018 SF 8' High, 5.5' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	43.08 2.86 -3.37	4.67
32 32 26 00-0019 SF 10' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	46.02 3.05 -3.59	5.11
32 32 26 00-0020 SF 12' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	52.42 3.48 -4.09	5.75
32 32 26 00-0021 SF 16' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	50.54 3.29 -3.87	5.98
32 32 26 00-0022 SF 16' High, 9.9' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	56.24 3.75 -4.42	6.08
32 32 26 00-0023 SF 20' High, 9.9' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	62.34 4.20 -4.94	6.41
32 32 26 00-0024 SF 20' High, 12.1' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	63.84 4.29 -5.05	6.74
32 32 26 00-0025 SF 24' High, 12.1' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	67.10 4.56 -5.36	6.74
32 32 26 00-0026 SF 24' High, 14.3' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	70.37 4.83 -5.68	6.85
32 32 26 00-0027 SF 28' High, 14.3' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	72.70 5.01 -5.89	6.95

32 32 29 Timber Retaining Walls (32 32)

32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)

Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002 LF 4" x 4", 1' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	85.93 2.40	28.92
32 32 29 00-0003 LF 4" x 4", 2' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	168.16 4.67	56.62
32 32 29 00-0004 LF 4" x 4", 1' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	82.33 2.09	28.92
32 32 29 00-0005 LF 4" x 4", 2' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	161.16 4.08	56.62
32 32 29 00-0006 LF 4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	77.35 2.27	25.27
32 32 29 00-0007 LF 4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	151.43 4.46	49.42
32 32 29 00-0008 LF 4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	68.66 2.02	22.43
32 32 29 00-0009 LF 4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	124.15 3.65	40.59
32 32 29 00-0010 LF 6" x 6", 2' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	229.14 7.82	68.60
32 32 29 00-0011 LF 6" x 6", 4' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	452.73 15.63	134.45
32 32 29 00-0012 LF 6" x 6", 2' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	225.14 7.48	68.60
32 32 29 00-0013 LF 6" x 6", 4' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	442.73 14.78	134.45
32 32 29 00-0014 LF 6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	196.68 7.24	55.71
32 32 29 00-0015 LF 6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	390.50 14.49	110.00
32 32 29 00-0016 LF 6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	158.15 5.86	44.55
32 32 29 00-0017 LF 6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	311.26 11.64	87.17
32 32 29 00-0018 LF 8" x 8", 4' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	571.27 23.28	148.66
32 32 29 00-0019 LF 8" x 8", 6' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,068.79 43.67	277.53
32 32 29 00-0020 LF 8" x 8", 4' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	551.28 21.58	148.66
32 32 29 00-0021 LF 8" x 8", 6' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	1,030.81 40.44	277.53
32 32 29 00-0022 LF 8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	545.16 17.18	171.50
32 32 29 00-0023 LF 8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	1,017.06 32.01	320.26
32 32 29 00-0024 LF 8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	442.15 14.02	138.61
32 32 29 00-0025 LF 8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	820.07 26.00	257.14

32 Exterior Improvements

32 30 Site Improvements

32 32 Retaining Walls



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0026 LF 4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	164.32 4.25	57.13
32 32 29 00-0027 LF 6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	245.49 6.29	85.74
32 32 29 00-0028 LF 8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	326.55 8.33	114.26
32 32 29 00-0029 LF 4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	113.59 4.16	32.27
32 32 29 00-0030 LF 6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	165.15 6.12	46.58
32 32 29 00-0031 LF 8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	223.72 8.33	62.92
32 32 29 00-0032 Post And Board Retaining Walls ^(32 32 29) Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0033 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	70.59 3.08	17.14
32 32 29 00-0034 LF 4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	107.57 4.16	29.32
32 32 29 00-0035 LF 6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	141.87 5.86	36.43
32 32 29 00-0036 LF 6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	198.16 8.07	51.65
32 32 29 00-0037 LF 6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	259.29 10.62	67.17
32 32 29 00-0038 LF 8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	533.74 22.77	132.93
32 32 29 00-0039 LF 8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	604.28 26.34	147.24
32 32 29 00-0040 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	71.53 3.04	17.86
32 32 29 00-0041 LF 4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	125.43 5.27	31.76
32 32 29 00-0042 LF 6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	123.30 5.18	31.16
32 32 29 00-0043 LF 6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	172.46 7.05	44.75
32 32 29 00-0044 LF 6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	267.88 10.62	71.44
32 32 29 00-0045 LF 6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar..... <i>For >3:1 Sloped Soil At Top, Add</i>	212.72 8.75	54.90
32 32 29 00-0046 LF 8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar..... <i>For >3:1 Sloped Soil At Top, Add</i>	552.25 23.62	137.20
32 32 29 00-0047 LF 4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	86.52 1.74	32.98
32 32 29 00-0048 LF 4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	125.46 2.69	46.89
32 32 29 00-0049 LF 4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat..... <i>For >3:1 Sloped Soil At Top, Add</i>	183.60 4.67	64.33
32 32 29 00-0050 LF 6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	324.16 9.09	108.58
32 32 29 00-0051 LF 6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	329.15 9.52	108.58
32 32 29 00-0052 LF 6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat..... <i>For >3:1 Sloped Soil At Top, Add</i>	308.64 8.50	104.31
32 32 29 00-0053 LF 8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	727.80 21.07	239.99
32 32 29 00-0054 LF 4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	86.52 1.74	32.98
32 32 29 00-0055 LF 4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	125.46 2.69	46.89
32 32 29 00-0056 LF 4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	183.60 4.67	64.33
32 32 29 00-0057 LF 6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	231.02 6.03	80.06
32 32 29 00-0058 LF 6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	324.16 9.09	108.58
32 32 29 00-0059 LF 6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	308.64 8.50	104.31
32 32 29 00-0060 LF 8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	727.80 21.07	239.99
32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4' ^(32 32 29) Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062 Redwood ^(32 32 29 00-0061)		
32 32 29 00-0063 LF 2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	118.29 4.08	35.11



	Exterior Improvements	32
	Site Improvements	32 30
	Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0064	LF	4'	High, 6" x 6" Wood Tie Wall Deadman At 6'	270.01	80.06
			For >3:1 Sloped Soil At Top, Add	9.35	
32 32 29 00-0065	LF	6'	High, 6" x 6" Wood Tie Wall Deadman At 6'	404.08	120.04
			For >3:1 Sloped Soil At Top, Add	13.93	
32 32 29 00-0066	LF	4'	High, 8" x 8" Wood Tie Wall Deadman At 6'	395.69	102.90
			For >3:1 Sloped Soil At Top, Add	16.14	
32 32 29 00-0067	LF	6'	High, 8" x 8" Wood Tie Wall Deadman At 6'	594.65	154.34
			For >3:1 Sloped Soil At Top, Add	24.30	
32 32 29 00-0068	LF	8'	High, 8" x 8" Wood Tie Wall Deadman At 6'	785.70	202.95
			For >3:1 Sloped Soil At Top, Add	32.29	
32 32 29 00-0069			Cedar (32 32 29 00-0061)		
32 32 29 00-0070	LF	2'	High, 6" x 6" Wood Tie Wall	116.29	35.11
			For >3:1 Sloped Soil At Top, Add	3.91	
32 32 29 00-0071	LF	4'	High, 6" x 6" Wood Tie Wall Deadman At 6'	264.01	80.06
			For >3:1 Sloped Soil At Top, Add	8.84	
32 32 29 00-0072	LF	6'	High, 6" x 6" Wood Tie Wall Deadman At 6'	396.09	120.04
			For >3:1 Sloped Soil At Top, Add	13.25	
32 32 29 00-0073	LF	4'	High, 8" x 8" Wood Tie Wall Deadman At 6'	381.70	102.90
			For >3:1 Sloped Soil At Top, Add	14.95	
32 32 29 00-0074	LF	6'	High, 8" x 8" Wood Tie Wall Deadman At 6'	574.66	154.34
			For >3:1 Sloped Soil At Top, Add	22.60	
32 32 29 00-0075	LF	8'	High, 8" x 8" Wood Tie Wall Deadman At 6'	757.71	202.95
			For >3:1 Sloped Soil At Top, Add	29.91	
32 32 29 00-0076			Cresosoted Wood (32 32 29 00-0061)		
32 32 29 00-0077	LF	2'	High, 6" x 8" Wood Tie Wall	127.27	46.58
			For >3:1 Sloped Soil At Top, Add	2.90	
32 32 29 00-0078	LF	4'	High, 6" x 8" Wood Tie Wall Deadman At 6'	291.36	107.15
			For >3:1 Sloped Soil At Top, Add	6.54	
32 32 29 00-0079	LF	6'	High, 6" x 8" Wood Tie Wall Deadman At 6'	432.19	158.61
			For >3:1 Sloped Soil At Top, Add	9.77	
32 32 29 00-0080	LF	4'	High, 7" x 9" Wood Tie Wall Deadman At 6'	585.49	215.73
			For >3:1 Sloped Soil At Top, Add	13.08	
32 32 29 00-0081	LF	6'	High, 7" x 9" Wood Tie Wall Deadman At 6'	852.43	314.27
			For >3:1 Sloped Soil At Top, Add	19.03	
32 32 29 00-0082	LF	8'	High, 7" x 9" Wood Tie Wall Deadman At 6'	1,131.24	416.66
			For >3:1 Sloped Soil At Top, Add	25.32	
32 32 29 00-0083			Pressure Treated Wood (32 32 29 00-0061)		
32 32 29 00-0084	LF	2'	High, 6" x 6" Wood Tie Wall	103.12	29.02
			For >3:1 Sloped Soil At Top, Add	3.83	
32 32 29 00-0085	LF	4'	High, 6" x 6" Wood Tie Wall Deadman At 6'	234.44	65.76
			For >3:1 Sloped Soil At Top, Add	8.75	
32 32 29 00-0086	LF	6'	High, 6" x 6" Wood Tie Wall Deadman At 6'	351.16	98.63
			For >3:1 Sloped Soil At Top, Add	13.08	
32 32 29 00-0087	LF	4'	High, 8" x 8" Wood Tie Wall Deadman At 6'	378.09	118.63
			For >3:1 Sloped Soil At Top, Add	11.98	
32 32 29 00-0088	LF	6'	High, 8" x 8" Wood Tie Wall Deadman At 6'	568.37	177.27
			For >3:1 Sloped Soil At Top, Add	18.18	
32 32 29 00-0089	LF	8'	High, 8" x 8" Wood Tie Wall Deadman At 6'	753.28	235.73
			For >3:1 Sloped Soil At Top, Add	23.96	
32 32 53			Stone Retaining Walls (32 32)		
32 32 53 00-0001			Stone Retaining Walls (32 32 53) Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$16.00/ton.		
32 32 53 00-0003	LF	\$16.00/ton 3'	High Stone Retaining Wall, Dry Set	444.72	201.93
			For >3:1 Sloped Soil At Top, Add	3.47	
32 32 53 00-0004	LF	\$16.00/ton 4'	High Stone Retaining Wall, Dry Set	525.10	240.24
			For >3:1 Sloped Soil At Top, Add	3.79	
32 32 53 00-0005	LF	\$16.00/ton 6'	High Stone Retaining Wall, Dry Set	690.49	319.18
			For >3:1 Sloped Soil At Top, Add	4.43	
32 32 53 00-0006	LF	\$16.00/ton 8'	High Stone Retaining Wall, Dry Set	1,065.48	499.04
			For >3:1 Sloped Soil At Top, Add	5.72	
32 32 53 00-0007	LF	\$16.00/ton 10'	High Stone Retaining Wall, Dry Set	1,385.32	652.80
			For >3:1 Sloped Soil At Top, Add	6.77	
32 32 53 00-0008	LF	\$16.00/ton 12'	High Stone Retaining Wall, Dry Set	1,719.81	812.93
			For >3:1 Sloped Soil At Top, Add	7.98	
32 32 53 00-0009	LF	\$16.00/ton 3'	High Stone Retaining Wall, Mortar Set	398.34	178.79
			For >3:1 Sloped Soil At Top, Add	3.47	
32 32 53 00-0010	LF	\$16.00/ton 4'	High Stone Retaining Wall, Mortar Set	467.69	211.53
			For >3:1 Sloped Soil At Top, Add	3.79	
32 32 53 00-0011	LF	\$16.00/ton 6'	High Stone Retaining Wall, Mortar Set	605.75	276.74
			For >3:1 Sloped Soil At Top, Add	4.43	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 32 53 00-0012	LF	\$16.00/ton 8' High Stone Retaining Wall, Mortar Set.....	929.08	430.86
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.72	
32 32 53 00-0013	LF	\$16.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,193.98	557.18
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.77	
32 32 53 00-0014	LF	\$16.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,483.79	694.96
		<i>For >3:1 Sloped Soil At Top, Add</i>	7.98	
32 32 53 00-0015		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$32.00/ton.		
32 32 53 00-0016	LF	\$32.00/ton 3' High Stone Retaining Wall, Dry Set.....	457.05	201.93
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.51	
32 32 53 00-0017	LF	\$32.00/ton 4' High Stone Retaining Wall, Dry Set.....	542.17	240.24
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.24	
32 32 53 00-0018	LF	\$32.00/ton 6' High Stone Retaining Wall, Dry Set.....	715.15	319.18
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.53	
32 32 53 00-0019	LF	\$32.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,101.52	499.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.79	
32 32 53 00-0020	LF	\$32.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,434.64	652.80
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.96	
32 32 53 00-0021	LF	\$32.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,782.41	812.93
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.30	
32 32 53 00-0022	LF	\$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	410.67	178.79
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.51	
32 32 53 00-0023	LF	\$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	484.76	211.53
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.24	
32 32 53 00-0024	LF	\$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	630.41	276.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.53	
32 32 53 00-0025	LF	\$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	965.12	430.86
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.79	
32 32 53 00-0026	LF	\$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,243.30	557.18
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.96	
32 32 53 00-0027	LF	\$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,546.39	694.96
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.30	
32 32 53 00-0028		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$48.00/ton.		
32 32 53 00-0029	LF	\$48.00/ton 3' High Stone Retaining Wall, Dry Set.....	470.33	201.93
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.64	
32 32 53 00-0030	LF	\$48.00/ton 4' High Stone Retaining Wall, Dry Set.....	559.05	240.24
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.68	
32 32 53 00-0031	LF	\$48.00/ton 6' High Stone Retaining Wall, Dry Set.....	738.86	319.18
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.55	
32 32 53 00-0032	LF	\$48.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,137.57	499.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	11.85	
32 32 53 00-0033	LF	\$48.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,483.96	652.80
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.16	
32 32 53 00-0034	LF	\$48.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,845.96	812.93
		<i>For >3:1 Sloped Soil At Top, Add</i>	18.70	
32 32 53 00-0035	LF	\$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	423.95	178.79
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.64	
32 32 53 00-0036	LF	\$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	501.83	211.53
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.69	
32 32 53 00-0037	LF	\$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	654.12	276.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.55	
32 32 53 00-0038	LF	\$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,001.17	430.86
		<i>For >3:1 Sloped Soil At Top, Add</i>	11.85	
32 32 53 00-0039	LF	\$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,292.62	557.18
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.16	
32 32 53 00-0040	LF	\$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,609.94	694.96
		<i>For >3:1 Sloped Soil At Top, Add</i>	18.70	
32 32 53 00-0041		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$64.00/ton.		
32 32 53 00-0042	LF	\$64.00/ton 3' High Stone Retaining Wall, Dry Set.....	483.61	201.93
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.77	
32 32 53 00-0043	LF	\$64.00/ton 4' High Stone Retaining Wall, Dry Set.....	557.35	240.24
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.53	
32 32 53 00-0044	LF	\$64.00/ton 6' High Stone Retaining Wall, Dry Set.....	764.47	319.18
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.72	
32 32 53 00-0045	LF	\$64.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,175.50	499.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.08	
32 32 53 00-0046	LF	\$64.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,535.18	652.80
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.51	
32 32 53 00-0047	LF	\$64.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,910.45	812.93
		<i>For >3:1 Sloped Soil At Top, Add</i>	24.19	
32 32 53 00-0048	LF	\$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	437.23	178.79
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.77	
32 32 53 00-0049	LF	\$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	518.91	211.53
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.14	
32 32 53 00-0050	LF	\$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	679.73	276.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.72	



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,039.10 15.08	430.86
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,343.84 19.51	557.18
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,674.43 24.19	694.96

32 33 Site Furnishings (32 30)

32 33 13 Site Bicycle Racks (32 33)

32 33 13 00-0001	Bicycle Organizer And Rack <small>(32 33 13)</small>
32 33 13 00-0002	Vertical Style Bike Racks Single/Double Sided, Galvanized <small>(32 33 13 00-0001)</small>
32 33 13 00-0003	Double Sided <small>(32 33 13 00-0002)</small>
32 33 13 00-0004 EA	5' Galvanized Steel Double Sided Bike Rack, 9 Bikes.....
32 33 13 00-0005 EA	10' Galvanized Steel Double Sided Bike Rack, 18 Bikes.....
32 33 13 00-0006 EA	20' Galvanized Steel Double Sided Bike Rack, 36 Bikes.....

32 33 13 00-0007	Single Sided <small>(32 33 13 00-0002)</small>
32 33 13 00-0008 EA	5' Galvanized Steel Single Sided Bike Rack, 5 Bikes.....
32 33 13 00-0009 EA	10' Galvanized Steel Single Sided Bike Rack, 9 Bikes.....
32 33 13 00-0010 EA	20' Galvanized Steel Single Sided Bike Rack, 18 Bikes.....

32 33 13 00-0011	Anchor Set For Vertical Style Bike Rack <small>(32 33 13 00-0002)</small>
32 33 13 00-0012 PR	Anchor Set For Vertical Style Bike Rack..... Note: Anchoring frame to ground.

32 33 13 00-0013	Bike Racks Ground Loop <small>(32 33 13 00-0001)</small>
32 33 13 00-0014 EA	83" Ground Loop Bike Rack, Surface Or Wall Mounted, 12 Bikes..... Note: In-ground mount.

32 33 13 00-0015	Serpentine Bike Racks <small>(32 33 13 00-0001)</small>
32 33 13 00-0016	Galvanized, 36" High, 2-3/8" OD Tubing <small>(32 33 13 00-0015)</small>
32 33 13 00-0017 EA	1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Galvanized.....
32 33 13 00-0018 EA	3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Galvanized.....
32 33 13 00-0019 EA	5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Galvanized.....
32 33 13 00-0020 EA	7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Galvanized.....
32 33 13 00-0021 EA	9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Galvanized.....
32 33 13 00-0022 EA	11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Galvanized.....

32 33 13 00-0023	Galvanized, 42" High, 2-3/8" OD Tubing <small>(32 33 13 00-0015)</small>
32 33 13 00-0024 EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Galvanized.....
32 33 13 00-0025 EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Galvanized.....
32 33 13 00-0026 EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Galvanized.....
32 33 13 00-0027 EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Galvanized.....
32 33 13 00-0028 EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Galvanized.....
32 33 13 00-0029 EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Galvanized.....

32 33 13 00-0030	Powder Coated, 36" High, 2-3/8" OD Tubing <small>(32 33 13 00-0015)</small>
32 33 13 00-0031 EA	1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Powder Coated.....
32 33 13 00-0032 EA	3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Powder Coated.....
32 33 13 00-0033 EA	5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Powder Coated.....
32 33 13 00-0034 EA	7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Powder Coated.....
32 33 13 00-0035 EA	9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Powder Coated.....
32 33 13 00-0036 EA	11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Powder Coated.....

32 33 13 00-0037	Powder Coated, 42" High, 2-3/8" OD Tubing <small>(32 33 13 00-0015)</small>
32 33 13 00-0038 EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Powder Coated.....
32 33 13 00-0039 EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Powder Coated.....
32 33 13 00-0040 EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Powder Coated.....
32 33 13 00-0041 EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Powder Coated.....
32 33 13 00-0042 EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Powder Coated.....
32 33 13 00-0043 EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Powder Coated.....

32 33 13 00-0044	Stainless Steel, 36" High, 2-3/8" OD Tubing <small>(32 33 13 00-0015)</small>
32 33 13 00-0045 EA	1' x 36" High Serpentine Bike Rack, 3 Bikes, Stainless Steel.....
32 33 13 00-0046 EA	3' x 36" High Serpentine Bike Rack, 5 Bikes, Stainless Steel.....
32 33 13 00-0047 EA	5' x 36" High Serpentine Bike Rack, 7 Bikes, Stainless Steel.....

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 13 00-0048	EA		7' x 36" High Serpentine Bike Rack, 9 Bikes, Stainless Steel.....	2,327.79	148.77
32 33 13 00-0049	EA		9' x 36" High Serpentine Bike Rack, 11 Bikes, Stainless Steel.....	2,841.30	158.69
32 33 13 00-0050	EA		11' x 36" High Serpentine Bike Rack, 13 Bikes, Stainless Steel.....	3,107.98	168.61
32 33 13 00-0051			Stainless Steel, 42" High, 2-3/8" OD Tubing (32 33 13 00-0015)		
32 33 13 00-0052	EA		1' x 42" High Serpentine Bike Rack, 3 Bikes, Stainless Steel.....	711.96	119.02
32 33 13 00-0053	EA		3' x 42" High Serpentine Bike Rack, 5 Bikes, Stainless Steel.....	1,581.11	128.93
32 33 13 00-0054	EA		5' x 42" High Serpentine Bike Rack, 7 Bikes, Stainless Steel.....	2,076.57	138.86
32 33 13 00-0055	EA		7' x 42" High Serpentine Bike Rack, 9 Bikes, Stainless Steel.....	2,538.05	148.77
32 33 13 00-0056	EA		9' x 42" High Serpentine Bike Rack, 11 Bikes, Stainless Steel.....	3,016.52	158.69
32 33 13 00-0057	EA		11' x 42" High Serpentine Bike Rack, 13 Bikes, Stainless Steel.....	3,511.98	168.61
32 33 13 00-0058			Bike Racks Bollards/Bicycle Posts (32 33 13 00-0001)		
			Note: In-ground mount.		
32 33 13 00-0059	EA		43" Overall Height, 4-1/2" Outside Diameter Bollard/Bicycle Post, 2 Loop Galvanized Steel Bollard (Belson BOLA450-2R-IG-G).....	524.09	89.27
32 33 23			Site Trash and Litter Receptacles (32 33)		
32 33 23 00-0001			Steel Trash Containment (32 33 23)		
32 33 23 00-0002			Steel Frame Surrounded With Kiln-Dried Wood (32 33 23 00-0001)		
32 33 23 00-0003	EA		13" x 13" x 30" Ash Receptacle Steel Frame, Kiln Dried Wood.....	445.83	47.35
32 33 23 00-0004	EA		24" x 24" x 30" High Open Top Trash Container Steel Frame, Kiln Dried Wood.....	425.79	47.35
32 33 23 00-0005	EA		21" x 21" x 31" High Flat Top Trash Container Steel Frame, Kiln Dried Wood.....	425.79	47.35
32 33 23 00-0006	EA		24" x 24" x 31" High, Flat Top Trash Container Steel Frame, Kiln Dried Wood.....	403.25	47.35
32 33 23 00-0007	EA		18" x 18" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood.....	445.83	47.35
32 33 23 00-0008	EA		23" x 23" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood.....	403.25	47.35
32 33 23 00-0009	EA		24" x 24" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood.....	551.02	47.35
32 33 23 00-0010			Square Steel Frames Surrounded With Flat Steel (32 33 23 00-0001)		
32 33 23 00-0011	EA		26" Diameter x 34" High Open Top Trash Square Container Steel Frame, Flat Steel Surround.....	803.05	47.35
32 33 23 00-0012	EA		26" Diameter x 34" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround.....	866.70	47.35
32 33 23 00-0013	EA		26" Diameter x 39" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround.....	866.70	47.35
32 33 23 00-0014			Round Steel Pipe And Flat Steel Frames (32 33 23 00-0001)		
			Note: Surrounded with kiln-dried wood.		
32 33 23 00-0015	EA		21" Diameter x 32" High Open Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,184.93	47.35
32 33 23 00-0016	EA		21" Diameter x 32" High Flat Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,275.85	47.35
32 33 23 00-0017	EA		21" Diameter x 39" High Dome Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,469.06	47.35
32 33 23 00-0018	EA		21" Diameter x 40" High HPR Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,332.68	47.35
32 33 23 00-0019			Round Steel Pipe Surrounded With Perforated (32 33 23 00-0001)		
32 33 23 00-0020	EA		21" Diameter x 32" High Open Top Trash Container Perforated Round Steel Pipe.....	1,059.91	47.35
32 33 23 00-0021	EA		21" Diameter x 32" High Flat Top Trash Container Perforated Round Steel Pipe.....	1,150.83	47.35
32 33 23 00-0022	EA		21" Diameter x 39" High Dome Top Trash Container Perforated Round Steel Pipe.....	1,344.04	47.35
32 33 23 00-0023	EA		21" Diameter x 40" High HPR Top Trash Container Perforated Round Steel Pipe.....	1,219.03	47.35
32 33 23 00-0024			Round Steel Pipe Frames Surrounded With Welded Wire (32 33 23 00-0001)		
32 33 23 00-0025	EA		21" Diameter x 32" High Flat Top Trash Container Steel Pipe Frame, Welded Wire Surround.....	843.97	47.35
32 33 23 00-0026	EA		21" Diameter x 32" High Open Top Trash Steel Container Pipe Frame, Welded Wire Surround.....	934.89	47.35
32 33 23 00-0027	EA		21" Diameter x 39" High Dome Top Trash Steel Container Pipe Frame, Welded Wire Surround.....	1,128.10	47.35
32 33 23 00-0028	EA		21" Diameter x 40" High HPR Top Trash Container Steel Pipe Frame, Welded Wire Surround.....	1,003.08	47.35
32 33 23 00-0029			Litter Baskets (32 33 23)		
32 33 23 00-0030			Round Wire Litter Baskets (32 33 23 00-0029)		
32 33 23 00-0031	EA		1.33' Diameter x 1.83' High Round Wire Litter Basket.....	148.34	4.81
32 33 23 00-0032	EA		1.5' Diameter x 1.83' High Round Wire Litter Basket.....	187.24	4.81
32 33 23 00-0033	EA		1.75' Diameter x 2.33' High Round Wire Litter Basket.....	253.23	4.81
32 33 23 00-0034	EA		1.83' Diameter x 2.83' High Round Wire Litter Basket.....	290.47	4.81
32 33 23 00-0035			Trash Can/Wire Basket Holder (32 33 23 00-0029)		
32 33 23 00-0036	EA		Steel Post, Single Holder.....	213.72	38.66
32 33 23 00-0037	EA		Steel Post, Double Holder.....	288.16	38.66
32 33 23 00-0038	EA		Redwood Post, Single Holder.....	135.90	38.66
32 33 23 00-0039	EA		Redwood Post, Double Holder.....	159.84	38.66



Exterior Improvements	32	
Site Improvements	32 30	32
Site Furnishings	32 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0040 Litter Receptacles, Freestanding (32 33 23 00-0029) Note: Includes 1-1/2" outside diameter steel leg supports. Wall mounted, includes 3/8" x 3" steel wall plates. Surface mounted, includes 2-1/2" outside diameter steel tube with floor flange, embedded to include 2-1/2" outside diameter steel tube.		
32 33 23 00-0041 EA 16" Diameter x 28" High Litter Receptacle, Freestanding Or Embedded.....	1,191.51	19.73
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0042 EA 16" Diameter x 32" High Litter Receptacle, Freestanding Or Embedded.....	1,254.13	19.73
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0043 EA 20" Diameter x 36" High Litter Receptacle, Freestanding Or Embedded.....	1,461.69	29.58
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0044 EA 20" Diameter x 40" High Litter Receptacle, Freestanding Embedded.....	1,524.30	29.58
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0045 EA 16" Diameter x 28" High Litter Receptacle, Pole Mount With Pole	1,586.92	29.58
For Powder Coated Sand Pan, Add	50.00	
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0046 EA 16" Diameter x 32" High Litter Receptacle, Pole Mount With Pole	1,649.53	29.58
For Powder Coated Sand Pan, Add	50.00	
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0047 EA 16" Diameter x 28" High Litter Receptacle, Wall Mount.....	1,316.06	25.64
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
For 1-1/2" x 6" Diameter Metal Cover Plate, Add	20.00	
32 33 23 00-0048 EA 16" Diameter x 32" High Litter Receptacle, Wall Mount.....	1,378.67	25.64
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
For 1-1/2" x 6" Diameter Metal Cover Plate, Add	20.00	
32 33 23 00-0049 Ash Receptacles (32 33 23)		
32 33 23 00-0050 EA 12" Diameter x 21" High Ash Receptacle, Freestanding Or Embedded	784.78	19.73
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Sand Pan, Add	110.00	
For Bowl And Funnel, Add	120.00	
32 33 23 00-0051 EA 18" Square Concrete Exposed Aggregate x 36" High Ash Receptacles With 3-1/2" ID iron Pipe With Cap Square Concrete With Steel Liner.....	322.73	19.73
32 33 23 00-0052 Trash Receptacles (32 33 23)		
32 33 23 00-0053 EA Outdoor Covered Steel Receptacle With Liner	978.63	19.73
32 33 23 00-0054 EA Driftwood And Sable Receptacle, 35 Gallon With Liner And Frame	464.67	19.73
32 33 23 00-0055 EA 24" x 24" Square Trash Containment With Exposed Aggregate Finish	848.21	19.73
32 33 23 00-0056 EA 30" x 30" Square Trash Containment With Exposed Aggregate Finish	883.88	21.69
32 33 23 00-0057 EA 36" x 36" Square Trash Containment With Exposed Aggregate Finish	951.25	23.67
32 33 23 00-0058 EA 32 Gallon, Open Round Trash Receptacle, Recycled Plastic Lumber	397.82	15.78
32 33 23 00-0059 EA 32 Gallon, Round Trash Receptacle With Liner And Lid, Recycled Plastic Lumber	474.13	15.78
32 33 23 00-0060 EA 24" x 24" Square 18" High Trash Receptacle, Fiberglass.....	336.49	19.73
32 33 23 00-0061 Trash Containers (Dumpsters) (32 33 23)		
32 33 23 00-0062 EA 1 CY Straight Side Trash Dumpster.....	242.25	
32 33 23 00-0063 EA 1.5 CY Straight Side Trash Dumpster.....	363.37	
32 33 23 00-0064 EA 2 CY Straight Side Trash Dumpster.....	484.50	
32 33 23 00-0065 EA 2 CY Sloped Side Trash Dumpster.....	484.50	
32 33 23 00-0066 EA 3 CY Sloped Side Trash Dumpster.....	726.75	
32 33 23 00-0067 EA 4 CY Sloped Side Trash Dumpster.....	968.99	
32 33 23 00-0068 EA 6 CY Sloped Side Trash Dumpster.....	1,453.49	
32 33 23 00-0069 EA 8 CY Sloped Side Trash Dumpster.....	1,937.99	
32 33 33 Site Manufactured Planters (32 33)		
32 33 33 00-0001 Precast Concrete Planters (32 33 33)		
32 33 33 00-0002 Circular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0003 EA 24" Diameter, 17" Height, Circular Precast Concrete Planter	658.87	23.91
32 33 33 00-0004 EA 24" Diameter, 24" Height, Circular Precast Concrete Planter	737.92	28.69
32 33 33 00-0005 EA 24" Diameter, 33" Height, Circular Precast Concrete Planter	807.41	28.69
32 33 33 00-0006 EA 30" Diameter, 17" Height, Circular Precast Concrete Planter	876.22	33.47
32 33 33 00-0007 EA 30" Diameter, 30" Height, Circular Precast Concrete Planter	1,060.89	43.03

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 33 33 00-0008	EA	36" Diameter, 24" Height, Circular Precast Concrete Planter	1,154.90	43.03
	32 33 33 00-0009	EA	36" Diameter, 30" Height, Circular Precast Concrete Planter	1,301.39	47.81
	32 33 33 00-0010	EA	48" Diameter, 17" Height, Circular Precast Concrete Planter	1,374.96	47.81
	32 33 33 00-0011	EA	48" Diameter, 24" Height, Circular Precast Concrete Planter	1,531.71	59.76
	32 33 33 00-0012	EA	48" Diameter, 30" Height, Circular Precast Concrete Planter	1,629.28	63.58
	32 33 33 00-0013	EA	48" Diameter, 36" Height, Circular Precast Concrete Planter	1,697.29	66.92
	32 33 33 00-0014	EA	60" Diameter, 17" Height, Circular Precast Concrete Planter	1,541.22	59.76
	32 33 33 00-0015	EA	60" Diameter, 24" Height, Circular Precast Concrete Planter	1,695.24	66.92
	32 33 33 00-0016	EA	60" Diameter, 36" Height, Circular Precast Concrete Planter	2,172.81	71.71
	32 33 33 00-0017	EA	72" Diameter, 36" Height, Circular Precast Concrete Planter	2,820.07	90.83
	32 33 33 00-0018	EA	84" Diameter, 36" Height, Circular Precast Concrete Planter	3,277.20	95.61
	32 33 33 00-0019		Square Precast Concrete Planters (32 33 33 00-0001)		
	32 33 33 00-0020	EA	36" Square, 30" Height, Square Precast Concrete Planter	1,327.41	62.14
	32 33 33 00-0021	EA	42" Square, 30" Height, Square Precast Concrete Planter	1,520.02	66.92
	32 33 33 00-0022	EA	60" Square, 36" Height, Square Precast Concrete Planter	2,403.09	76.49
	32 33 33 00-0023	EA	72" Square, 36" Height, Square Precast Concrete Planter	2,563.89	81.27
	32 33 33 00-0024		Rectangular Precast Concrete Planters (32 33 33 00-0001)		
	32 33 33 00-0025	EA	33" x 18", 20" Height, Rectangular Precast Concrete Planter	768.58	28.69
	32 33 33 00-0026	EA	48" x 18", 20" Height, Rectangular Precast Concrete Planter	901.48	43.03
	32 33 33 00-0027	EA	60" x 18", 20" Height, Rectangular Precast Concrete Planter	1,045.93	47.81
	32 33 33 00-0028	EA	72" x 18", 20" Height, Rectangular Precast Concrete Planter	1,190.42	59.76
	32 33 33 00-0029		Fiberglass Planters (32 33 33)		
	32 33 33 00-0030		Circular Fiberglass Planters (32 33 33 00-0029)		
	32 33 33 00-0031	EA	36" Diameter, 27" High, Circular Fiberglass Planter	1,624.28	23.91
	32 33 33 00-0032	EA	60" Diameter, 39" High, Circular Fiberglass Planter	2,710.75	23.91
	32 33 33 00-0033	EA	36" Diameter, 24" High, Circular Fiberglass Planter	1,079.10	23.91
	32 33 33 00-0034	EA	60" Diameter, 24" High, Circular Fiberglass Planter	2,138.00	23.91
	32 33 33 00-0035		Tapered Circular Fiberglass Planters (32 33 33 00-0029)		
	32 33 33 00-0036	EA	24" Diameter, 20" High, Tapered Circular Fiberglass Planter	624.99	23.91
	32 33 33 00-0037	EA	30" Diameter, 25" High, Tapered Circular Fiberglass Planter	921.63	23.91
	32 33 33 00-0038	EA	36" Diameter, 30" High, Tapered Circular Fiberglass Planter	1,651.85	23.91
	32 33 33 00-0039	EA	40" Diameter, 36" High, Tapered Circular Fiberglass Planter	2,311.21	23.91
	32 33 33 00-0040		Square Fiberglass Planters (32 33 33 00-0029)		
	32 33 33 00-0041	EA	24" Square, 21" High, Square Fiberglass Planter	824.31	23.91
	32 33 33 00-0042	EA	24" Square, 24" High, Square Fiberglass Planter	842.90	23.91
	32 33 33 00-0043	EA	30" Square, 12" High, Square Fiberglass Planter	852.73	23.91
	32 33 33 00-0044	EA	30" Square, 21" High, Square Fiberglass Planter	968.88	23.91
	32 33 33 00-0045	EA	30" Square, 24" High, Square Fiberglass Planter	1,053.49	23.91
	32 33 33 00-0046		Rectangular Fiberglass Planters (32 33 33 00-0029)		
	32 33 33 00-0047	EA	48" x 12", 12" High, Rectangular Fiberglass Planter	950.48	23.91
	32 33 33 00-0048	EA	48" x 12", 21" High, Rectangular Fiberglass Planter	1,019.88	23.91
	32 33 33 00-0049	EA	48" x 24", 12" High, Rectangular Fiberglass Planter	1,332.37	23.91
	32 33 33 00-0050	EA	48" x 24", 21" High, Rectangular Fiberglass Planter	1,471.16	23.91
	32 33 33 00-0051		Timber Planters (32 33 33)		
	32 33 33 00-0052		Square Timber Planters (32 33 33 00-0051)		
	32 33 33 00-0053	EA	14" Square, 30" High, Square Timber Planter	544.61	47.35
	32 33 33 00-0054	EA	21" Square, 30" High, Square Timber Planter	544.61	47.35
	32 33 33 00-0055	EA	27" Square, 30" High, Square Timber Planter	1,047.77	47.35
	32 33 33 00-0056	EA	34" Square, 30" High, Square Timber Planter	906.03	47.35
	32 33 33 00-0057	EA	41" Square, 36" High, Square Timber Planter	1,083.21	47.35
	32 33 33 00-0058	EA	54" Square, 36" High, Square Timber Planter	2,812.40	47.35
	32 33 33 00-0059	EA	81" Square, 36" High, Square Timber Planter	4,236.86	47.35
	32 33 33 00-0060		Rectangular Timber Planters (32 33 33 00-0051)		
	32 33 33 00-0061	EA	21" x 14", 30" High, Rectangular Timber Planter	537.52	47.35
	32 33 33 00-0062	EA	27" x 14", 30" High, Rectangular Timber Planter	601.30	47.35
	32 33 33 00-0063	EA	27" x 21", 30" High, Rectangular Timber Planter	792.65	47.35
	32 33 33 00-0064	EA	34" x 21", 30" High, Rectangular Timber Planter	877.69	47.35
	32 33 33 00-0065	EA	41" x 21", 30" High, Rectangular Timber Planter	1,132.81	47.35
	32 33 33 00-0066	EA	34" x 27", 30" High, Rectangular Timber Planter	1,317.07	47.35
	32 33 33 00-0067	EA	41" x 27", 30" High, Rectangular Timber Planter	1,472.98	47.35
	32 33 33 00-0068	EA	54" x 27", 30" High, Rectangular Timber Planter	1,919.46	47.35
	32 33 33 00-0069	EA	54" x 34", 30" High, Rectangular Timber Planter	2,167.50	47.35



Exterior Improvements			32
Site Improvements			32 30
Site Furnishings			32 33

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0070 EA 68" x 34", 36" High, Rectangular Timber Planter	2,472.23	47.35
32 33 33 00-0071 EA 54" x 41", 36" High, Rectangular Timber Planter	2,351.75	47.35
32 33 33 00-0072 EA 68" x 41", 36" High, Rectangular Timber Planter	2,663.57	47.35
32 33 33 00-0073 EA 81" x 41", 36" High, Rectangular Timber Planter	2,982.48	47.35
32 33 43 Site Seating and Tables (32 33)		
32 33 43 53 Site Tables (32 33 43)		
32 33 43 53-0001 Picnic Tables (32 33 43 53)		
32 33 43 53-0002 Wooden Picnic Tables (32 33 43 53-0001)		
32 33 43 53-0003 EA 6' Permanent Rectangular Redwood Table	977.27	59.19
32 33 43 53-0004 Portable Picnic Tables (32 33 43 53-0001)		
32 33 43 53-0005 EA 6' Wood Table With Aluminum Frame	877.01	39.46
32 33 43 53-0006 EA 6' Aluminum Table And Frame	1,262.70	39.46
32 33 43 53-0007 EA 8' Aluminum Table And Frame	1,507.92	49.32
32 33 43 53-0008 EA 6' Steel Table And Frame	1,031.97	39.46
32 33 43 53-0009 EA 8' Steel Table And Frame	1,181.99	49.32
32 33 43 53-0010 Concrete Picnic Tables (32 33 43 53-0001)		
32 33 43 53-0011 EA 72" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quikcrete QLBT72PT)	2,051.10	157.83
32 33 43 53-0012 EA 96" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quick Crete QLBT96PT Or QLMR96PT)	2,432.36	
32 33 43 53-0013 EA 102" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches And Handicap Access On Two Ends (Quick Crete QLMR102PTADA)	2,439.91	
32 33 43 53-0014 EA 42" Diameter, Precast Concrete, Round Food Court Table Set With Four Benches (Quick Crete QR42FC)	2,594.13	
Note: Includes table top, four benches and mounting hardware.		
32 33 43 53-0015 Plastic Picnic Tables (32 33 43 53-0001)		
Note: Manufactured from recycled plastic.		
32 33 43 53-0016 Pedestal Tables - 4' Square, 2 Seats (32 33 43 53-0015)		
32 33 43 53-0017 EA 3" x 4" Slats, Pedestal Table, 4' Square, 2 Seats	1,162.29	59.19
32 33 43 53-0018 EA 4" x 4" Slats, Pedestal Table, 4' Square, 2 Seats	1,273.17	59.19
32 33 43 53-0019 Pedestal Tables - 4' Square, 4 Seats (32 33 43 53-0015)		
32 33 43 53-0020 EA 3" x 4" Slats, Pedestal Table, 4' Square, 4 Seats	1,521.88	59.19
32 33 43 53-0021 EA 4" x 4" Slats, Pedestal Table, 4' Square, 4 Seats	1,670.78	59.19
32 33 43 53-0022 Recycled Plastic Tables (32 33 43 53-0015)		
32 33 43 53-0023 EA 6' Standard "Step-Over" Table, Recycled Plastic Lumber	1,991.81	59.19
32 33 43 53-0024 EA 6' " Walk-Through" Table, Recycled Plastic Lumber	1,659.74	59.19
32 33 43 53-0025 EA 7' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends	1,812.34	59.19
32 33 43 53-0026 EA 8' " Walk-Through" Table, Recycled Plastic Lumber, ADA Ends	1,695.14	59.19
32 33 43 53-0027 EA 8' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends	2,131.91	59.19
32 33 43 53-0028 EA 4' Youth Table, Recycled Plastic Lumber	850.12	47.35
32 33 53 Site Grills (32 33)		
32 33 53 00-0001 Picnic Grills (32 33 53)		
32 33 53 00-0002 EA 20" Wide x 14" Deep x 8-1/2" High Adjustable Grill	346.30	
Note: 11 gauge with galvanized steel post.		
32 33 53 00-0003 EA 20" Wide x 14" Deep x 8-1/2" High Adjustable Grill	370.43	
Note: 7 gauge with galvanized steel post.		
32 33 63 Skate Board Deterrent (32 33)		
32 33 63 00-0001 Skate Stoppers (32 33 63)		
32 33 63 00-0002 EA Aluminum Architectural Series Pieces, Skate Stopper	52.48	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct		
	-5.57	
For >99 To 249, Deduct		
	-7.05	
For >249, Deduct		
	-8.52	
32 33 63 00-0003 EA Aluminum Fixed Angle Series Pieces, Skate Stopper	55.60	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct		
	-6.01	
For >99 To 249, Deduct		
	-7.58	
For >249, Deduct		
	-9.15	

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 63 00-0004	EA		Aluminum Fixed Radius Series Pieces, Skate Stopper.....	39.55	
			Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-3.76	
			For >99 To 249, Deduct	-4.85	
			For >249, Deduct	-5.94	
32 33 63 00-0005	EA		Aluminum Bench Clips, Skate Stopper	31.87	
			Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-2.69	
			For >99 To 249, Deduct	-3.54	
			For >249, Deduct	-4.40	
32 33 63 00-0006	EA		Aluminum Curve Clips, Skate Stopper.....	34.76	
			Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-3.09	
			For >99 To 249, Deduct	-4.03	
			For >249, Deduct	-4.98	
32 33 63 00-0007	EA		Aluminum Hand Rail, Skate Stopper.....	33.28	
			Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-2.88	
			For >99 To 249, Deduct	-3.78	
			For >249, Deduct	-4.68	
32 33 63 00-0008	EA		Aluminum 2" x 3" x 0.25" Flat Cap, Skate Stopper.....	31.40	
			Note: Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-2.62	
			For >99 To 249, Deduct	-3.46	
			For >249, Deduct	-4.31	
32 33 63 00-0009	EA		Aluminum 6" Diameter x 0.25" Rumble Disc, Skate Stopper	43.07	
			Note: Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-4.25	
			For >99 To 249, Deduct	-5.45	
			For >249, Deduct	-6.64	
32 33 63 00-0010	EA		Aluminum 4" x 17" x 0.25" Flat Strap, Skate Stopper.....	78.07	
			Note: Includes drilling and anchoring into suitable surface material.		
			For >59 To 99, Deduct	-9.15	
			For >99 To 249, Deduct	-11.40	
			For >249, Deduct	-13.64	

32 39 Manufactured Site Specialties (32-30)

Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0025 for concrete core drilling, 02 41 19 13-0163 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards (32 39)**32 39 13 00-0001 Metal Pipe Bollards** (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated (32 39 13 00-0001)

32 39 13 00-0003	LF		4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	56.97	12.12
			For Galvanized Steel, Add	5.57	
			For 304 Stainless Steel, Add	44.20	
			For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	120.92	
			For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	86.38	
			For Schedule 80, Add	7.33	
			For Concrete Fill, Add Per LF Of Pipe Bollard	10.48	
32 39 13 00-0004	LF		6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	75.88	12.12
			For Galvanized Steel, Add	8.78	
			For 304 Stainless Steel, Add	69.73	
			For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	120.92	
			For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	86.38	
			For Schedule 80, Add	10.17	
			For Concrete Fill, Add Per LF Of Pipe Bollard	14.96	
32 39 13 00-0005	LF		8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	106.89	15.16
			For Galvanized Steel, Add	13.02	
			For 304 Stainless Steel, Add	103.41	
			For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	159.16	
			For Each Sleeve For Removable, Lockable Bollard, Add	128.74	
			For Schedule 80, Add	14.52	
			For Concrete Fill, Add Per LF Of Pipe Bollard	19.97	
32 39 13 00-0006	LF		10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	141.16	18.18
			For Galvanized Steel, Add	17.82	
			For 304 Stainless Steel, Add	141.49	
			For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	183.40	
			For Each Sleeve For Removable, Lockable Bollard, Add	140.86	
			For Schedule 80, Add	19.36	
			For Concrete Fill, Add Per LF Of Pipe Bollard	24.52	
32 39 13 00-0007	LF		12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	178.53	24.23
			For Galvanized Steel, Add	22.11	
			For 304 Stainless Steel, Add	175.58	
			For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	252.88	
			For Each Sleeve For Removable, Lockable Bollard, Add	193.81	
			For Schedule 80, Add	24.36	
			For Concrete Fill, Add Per LF Of Pipe Bollard	28.77	



		Exterior Improvements	32
		Site Improvements	32 30
		Manufactured Site Specialties	32 39

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 39 23 Manufactured Concrete Bollards (32 39)

32 39 23 00-0001	Concrete Bollards (32 39 23) <small>Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.</small>		
32 39 23 00-0002	Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003 EA	12" x 12" x 30" High Concrete Bollard, Light Sandblast.....	742.57	96.93
	<small>Note: Surface mounted with anchor bolts embedded into grout pockets.</small>		
32 39 23 00-0004 EA	12" Diameter x 30" High Concrete Bollard, Light Sandblast.....	742.57	96.93
	<small>Note: Surface mounted with anchor bolts embedded into grout pockets.</small>		

32 39 25 Manufactured Wood Bollards (32 39)

32 39 25 00-0001	Wood Bollards (32 39 25) <small>Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.</small>		
32 39 25 00-0002	Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003 LF	4" x 4", Pressure Treated Wood Bollard.....	21.87	9.69
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	85.80	
32 39 25 00-0004 LF	6" x 6", Pressure Treated Wood Bollard.....	24.48	9.69
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	85.80	
32 39 25 00-0005 LF	8" x 8", Pressure Treated Wood Bollard.....	30.86	10.90
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	128.82	
32 39 25 00-0006 LF	10" x 10", Pressure Treated Wood Bollard.....	43.19	14.54
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	143.36	
32 39 25 00-0007 LF	12" x 12", Pressure Treated Wood Bollard.....	59.09	19.39
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	198.65	

32 39 27 Manufactured Plastic Bollards (32 39)

32 39 27 00-0001	Plastic Bollards (32 39 27) <small>See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.</small>		
32 39 27 00-0002	Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003 EA	6" x 6" x 33" Surface Mounted Recycled Plastic Bollard.....	294.78	48.47
	<small>Note: Includes anchor bolts.</small>		
32 39 27 00-0004 EA	6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard.....	470.91	48.47

32 39 27 00-0005 Plastic Bollard Covers (32 39 27 00-0001)

32 39 27 00-0006 EA	4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	72.77	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0007 EA	6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	78.71	11.23
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0008 EA	3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe.....	98.95	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0009 EA	3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe.....	98.95	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0010 EA	3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe.....	111.17	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0011 EA	4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	98.95	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0012 EA	4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	100.70	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0013 EA	5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	98.95	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0014 EA	5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	100.70	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0015 EA	5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	140.84	10.21
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0016 EA	6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	100.99	11.23
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0017 EA	6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	128.92	11.23
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0018 EA	6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	146.78	11.23
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0019 EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	123.98	12.26
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0020 EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe.....	134.45	12.26
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0021 EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe.....	134.45	12.26
	<i>For Reflective Tape, Add</i>	8.31	
32 39 27 00-0022 EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe.....	181.59	12.26
	<i>For Reflective Tape, Add</i>	8.31	

32 39 29 Manufactured Stone Bollards (32 39)

32 39 29 00-0001	Stone Bollards (32 39 29) <small>See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.</small>		
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32 Exterior Improvements

32 30 Site Improvements

32 39 Manufactured Site Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 29 00-0002			Granite Bollards (32 39 29 00-0001)		
32 39 29 00-0003	EA		16" x 16" x 30" Granite Bollard, Smooth Matt Finish..... Note: Surface mounted with anchors embedded into grout pockets.	1,155.21	121.17
32 39 29 00-0004	EA		16" x 16" x 54" Granite Bollard, Smooth Matt Finish..... Note: Surface mounted with anchors embedded into grout pockets.	1,467.92	169.64
32 39 29 00-0005	EA		12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top Note: Surface mounted with anchors embedded into grout pockets.	730.31	121.17
32 39 29 00-0006	EA		12" Diameter x 18" Granite Bollard, Smooth Matt Finish Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,056.96	96.93
32 39 29 00-0007	EA		24" x 24" x 20" Granite Bollard, Octagonal Cross Section Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,563.18	96.93
32 80			Irrigation (32)		
32 84			Planting Irrigation (32 80)		
32 84 13			Drip Irrigation (32 84)		
32 84 13 00-0001			Drip Emitter Irrigation Devices (32 84 13)		
32 84 13 00-0002			Drip Emitter Irrigation Valves (32 84 13 00-0001)		
32 84 13 00-0003	EA		1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	54.55	14.09
32 84 13 00-0004	EA		1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100)	77.51	14.09
32 84 13 00-0005	EA		3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075)	75.91	14.09
32 84 13 00-0006	EA		3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS).....	97.49	14.09
32 84 13 00-0007			Drip Emitter Irrigation Filters (32 84 13 00-0001)		
32 84 13 00-0008	EA		3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	143.07	14.09
32 84 13 00-0009	EA		1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	144.26	14.09
32 84 13 00-0010	EA		3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	64.58	14.09
32 84 13 00-0011	EA		1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	65.53	14.09
32 84 13 00-0012	EA		1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100).....	154.12	14.09
32 84 13 00-0013	EA		3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY).....	78.86	14.09
32 84 13 00-0014	EA		1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY).....	86.30	14.09
32 84 13 00-0015			Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)		
32 84 13 00-0016	EA		3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)	63.62	14.09
32 84 13 00-0017	EA		M30X-075).....	63.62	14.09
32 84 13 00-0018	EA		3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	63.62	14.09
32 84 13 00-0019	EA		1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	71.44	14.09
32 84 13 00-0020			Drip Emitter Irrigation Tubing (32 84 13 00-0001)		
			Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF		1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	4.89	1.97
32 84 13 00-0022	LF		1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	4.76	2.25
32 84 13 00-0023	LF		1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	4.13	1.97
			<i>For Shallow Trenching And Backfill By Hand, Add</i>	8.10	
32 84 13 00-0024	LF		1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	4.75	2.25
			<i>For Shallow Trenching And Backfill By Hand, Add</i>	8.76	
32 84 13 00-0025			Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA		1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN).....	3.66	
32 84 13 00-0027	EA		1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	3.69	
32 84 13 00-0028	EA		1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	3.73	
32 84 13 00-0029	EA		1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	3.87	
32 84 13 00-0030	EA		1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	3.64	
32 84 13 00-0031	EA		17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	3.80	
			<i>For Compression Fitting, Add</i>	0.28	
32 84 13 00-0032	EA		17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW).....	3.88	
			<i>For Compression Fitting, Add</i>	0.36	
32 84 13 00-0033	EA		17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	3.93	
			<i>For Compression Fitting, Add</i>	0.41	
32 84 13 00-0034	EA		17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	3.95	
			<i>For Compression Fitting, Add</i>	0.43	
32 84 13 00-0035	EA		17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	4.12	
			<i>For Compression Fitting, Add</i>	0.60	
32 84 13 00-0036	EA		1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	4.31	
32 84 13 00-0037	EA		12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	2.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0038 Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039 EA 0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	7.48	
32 84 13 00-0040 EA 5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	8.24	
32 84 13 00-0041 EA 0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	15.93	
32 84 13 00-0042 Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043 EA Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	29.34	12.67
32 84 13 00-0044 EA Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	29.39	12.67
32 84 13 00-0045 EA 12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	31.48	12.67
32 84 13 00-0046 EA 24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	31.70	12.67
32 84 13 00-0047 EA 4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	44.78	16.62
Note: Includes nozzle.		
32 84 13 00-0048 EA 6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	47.48	16.62
Note: Includes nozzle.		
32 84 13 00-0049 EA 12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	45.29	16.62
Note: Includes nozzle.		
32 84 13 00-0050 Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001)		
Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051 LF 0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	5.42	2.46
32 84 23 Underground Sprinklers (32 84)		
32 84 23 00-0001 Sprinkler Heads (32 84 23)		
32 84 23 00-0002 Spray Sprinkler Heads (32 84 23 00-0001)		
Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003 EA 2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P).....	39.96	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0004 EA 4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P).....	38.43	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0005 EA 6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P).....	44.11	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0006 EA 12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P).....	48.87	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0007 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	40.57	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0008 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	48.57	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0009 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	52.42	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0010 EA 4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS).....	42.85	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0011 EA 6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS).....	50.14	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0012 EA 12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS).....	53.74	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0013 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS).....	43.76	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0014 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS).....	54.95	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0015 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	58.50	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0016 EA Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	35.45	15.56
For Rotary Nozzle, Add	3.25	
32 84 23 00-0017 EA Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	39.00	15.56
32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001)		
Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	51.20	15.56
For Non-Potable Cover, Add	2.00	
32 84 23 00-0021 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	52.47	15.56
For Non-Potable Cover, Add	2.00	
32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		

32 Exterior Improvements

32 80 Irrigation

32 84 Planting Irrigation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0023 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC).....	48.17	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0024 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC).....	61.84	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0025 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS).....	50.70	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0026 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS).....	63.86	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0027 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR).....	51.71	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0028 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR).....	53.74	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0029 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR).....	66.90	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0030 EA 12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR).....	75.00	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0031 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS).....	53.48	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0032 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR).....	61.58	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0033 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads <small>(32 84 23 00-0018)</small>		
Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034 EA 4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC).....	80.83	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
<i>For Stainless Steel Riser And High Speed Rotor, Add</i>	37.27	
32 84 23 00-0035 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads <small>(32 84 23 00-0018)</small>		
Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036 EA 5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005).....	110.20	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0037 Impact-Drive Sprinkler Heads <small>(32 84 23 00-0001)</small>		
Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038 EA 1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	66.65	15.56
<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0039 EA 1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	54.50	15.56
32 84 23 00-0040 EA 3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB).....	94.99	15.56
32 84 23 00-0041 Electric Remote Control Irrigation Valves <small>(32 84 23)</small>		
32 84 23 00-0042 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) <small>(32 84 23 00-0041)</small>		
Note: 15 to 150 PSI.		
32 84 23 00-0043 EA 3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	168.40	64.84
32 84 23 00-0044 EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV).....	168.40	64.84
32 84 23 00-0045 EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	186.93	73.91
32 84 23 00-0046 EA 1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	169.41	64.84
32 84 23 00-0047 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) <small>(32 84 23 00-0041)</small>		
Note: 15 to 150 PSI.		
32 84 23 00-0048 EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	169.41	64.84
32 84 23 00-0049 EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS).....	188.45	73.91
32 84 23 00-0050 EA 1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	189.46	73.91



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0051	0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA 1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	250.43	64.84
32 84 23 00-0053	EA 1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	285.88	64.84
32 84 23 00-0054	EA 2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	331.45	64.84
32 84 23 00-0055	5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	344.40	72.88
32 84 23 00-0057	EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	379.85	72.88
32 84 23 00-0058	EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	425.42	72.88
32 84 23 00-0059	20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D)	395.04	72.88
32 84 23 00-0061	EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	430.48	72.88
32 84 23 00-0062	EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D)	476.06	72.88
32 84 23 00-0063	0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	351.25	64.84
32 84 23 00-0065	EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	514.21	64.84
32 84 23 00-0066	EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	528.94	64.84
32 84 23 00-0067	EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,198.08	87.53
32 84 23 00-0068	5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	333.41	72.88
32 84 23 00-0070	EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	381.87	72.88
32 84 23 00-0071	EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	434.48	72.88
32 84 23 00-0072	EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	503.76	72.88
32 84 23 00-0073	0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS)	424.50	72.88
32 84 23 00-0075	EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS)	617.85	72.88
32 84 23 00-0076	EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS)	634.42	72.88
32 84 23 00-0077	EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS)	1,266.02	72.88
32 84 23 00-0078	0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ)	424.90	64.84
32 84 23 00-0080	EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ)	587.87	64.84
32 84 23 00-0081	EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ)	602.60	64.84
32 84 23 00-0082	EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ)	1,271.74	87.53

32	32 Exterior Improvements
	32 80 Irrigation
	32 84 Planting Irrigation



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 84 23 00-0083		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) <small>(32 84 23 00-0041)</small> Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	409.37	72.88
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	457.83	72.88
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	510.44	72.88
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	579.72	72.88
32 84 23 00-0088		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) <small>(32 84 23 00-0041)</small> Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	498.16	72.88
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	691.50	72.88
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	708.08	72.88
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,339.68	72.88
32 84 23 00-0093		Other Electric Remote Control Valves/Accessories <small>(32 84 23 00-0041)</small>		
32 84 23 00-0094	EA	Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	127.83	
32 84 23 00-0095		Remote Control Valve Assemblies <small>(32 84 23 00-0041)</small> Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096	EA	1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	553.23	162.10
32 84 23 00-0097	EA	1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	588.67	162.10
32 84 23 00-0098	EA	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	634.25	162.10
32 84 23 00-0099	EA	1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESSB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	603.87	162.10
32 84 23 00-0100	EA	1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESSB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	639.31	162.10
32 84 23 00-0101	EA	2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESSB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	684.89	162.10
32 84 23 00-0102	EA	1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	618.20	162.10
32 84 23 00-0103	EA	1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	719.27	162.10
32 84 23 00-0104	EA	2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	788.54	162.10
32 84 23 00-0105		Irrigation Valve Boxes <small>(32 84 23)</small> Note: Includes lid.		
32 84 23 00-0106	EA	6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	107.70	46.68
32 84 23 00-0107	EA	7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	119.66	46.68
32 84 23 00-0108	EA	10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	157.11	61.47
32 84 23 00-0109	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	259.28	89.74
32 84 23 00-0110	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	263.42	89.74
32 84 23 00-0111	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	293.13	89.74
32 84 23 00-0112	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	296.67	89.74
32 84 23 00-0113	EA	33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	466.43	89.74
32 84 23 00-0114	EA	40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	686.31	89.74
32 84 23 00-0115	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	388.60	118.27
		<i>For 12" Extension, Add</i>	82.66	
32 84 23 00-0116	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid.....	604.62	118.27
		<i>For 12" Extension, Add</i>	82.66	
32 84 23 00-0117	EA	12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	211.67	77.81
32 84 23 00-0118	EA	15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	295.00	89.74
32 84 23 00-0119	EA	10" Round Irrigation Valve Box With Lid (Carson 910-10).....	166.77	61.47



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0120	Irrigation Controllers <small>(32 84 23)</small> See CSI section 27 15 13 00-0531 for low voltage wiring.	
32 84 23 00-0121	Irrigation Controllers <small>(32 84 23 00-0120)</small>	
32 84 23 00-0122	Irrigation Controllers (Rain Bird®) <small>(32 84 23 00-0121)</small>	
32 84 23 00-0123	Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) <small>(32 84 23 00-0122)</small>	
32 84 23 00-0124	Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) <small>(32 84 23 00-0123)</small>	
32 84 23 00-0125	Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) <small>(32 84 23 00-0124)</small>	
32 84 23 00-0126	EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	279.16 31.57
32 84 23 00-0127	EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	390.78 31.57
32 84 23 00-0128	EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	502.41 31.57
32 84 23 00-0129	EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	614.03 31.57
32 84 23 00-0130	EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	694.09 31.57
32 84 23 00-0131	EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	809.67 31.57
32 84 23 00-0132	EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	925.25 31.57
32 84 23 00-0133	Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) <small>(32 84 23 00-0124)</small>	
32 84 23 00-0134	EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	319.54 31.57
32 84 23 00-0135	EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	431.17 31.57
32 84 23 00-0136	EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	542.80 31.57
32 84 23 00-0137	EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	654.41 31.57
32 84 23 00-0138	EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	734.48 31.57
32 84 23 00-0139	EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	850.06 31.57
32 84 23 00-0140	EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	965.63 31.57
32 84 23 00-0141	Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) <small>(32 84 23 00-0123)</small>	
32 84 23 00-0142	Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) <small>(32 84 23 00-0141)</small>	
32 84 23 00-0143	EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	419.45 31.57
32 84 23 00-0144	EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	531.07 31.57
32 84 23 00-0145	EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	642.70 31.57
32 84 23 00-0146	EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	754.32 31.57
32 84 23 00-0147	EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	834.38 31.57
32 84 23 00-0148	EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	949.96 31.57
32 84 23 00-0149	EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,065.54 31.57
32 84 23 00-0150	EA CALTRAN 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	531.07 31.57
32 84 23 00-0151	Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) <small>(32 84 23 00-0141)</small>	
32 84 23 00-0152	EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	449.71 31.57
32 84 23 00-0153	EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	561.33 31.57
32 84 23 00-0154	EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	672.96 31.57
32 84 23 00-0155	EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	784.58 31.57
32 84 23 00-0156	EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	864.64 31.57
32 84 23 00-0157	EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	980.23 31.57
32 84 23 00-0158	EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	1,095.80 31.57
32 84 23 00-0159	Accessories For ESP-ME/MEI Irrigation Controllers <small>(32 84 23 00-0123)</small>	
32 84 23 00-0160	EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	115.57
	Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	
32 84 23 00-0161	EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	222.72
	Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	
32 84 23 00-0162	EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	280.00
32 84 23 00-0163	Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) <small>(32 84 23 00-0122)</small>	
32 84 23 00-0164	Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) <small>(32 84 23 00-0163)</small>	
32 84 23 00-0165	EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	643.45 31.57
32 84 23 00-0166	EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	783.01 31.57
32 84 23 00-0167	EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	924.56 31.57
32 84 23 00-0168	EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,064.13 31.57
32 84 23 00-0169	EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,205.66 31.57

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0170 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,345.25	31.57
32 84 23 00-0171 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,486.78	31.57
32 84 23 00-0172 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,626.35	31.57
32 84 23 00-0173 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,767.88	31.57
32 84 23 00-0174 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,907.46	31.57
32 84 23 00-0175 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0163)		
32 84 23 00-0176 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	621.40	31.57
32 84 23 00-0177 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	760.97	31.57
32 84 23 00-0178 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	902.49	31.57
32 84 23 00-0179 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,042.08	31.57
32 84 23 00-0180 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,183.61	31.57
32 84 23 00-0181 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,323.18	31.57
32 84 23 00-0182 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,464.72	31.57
32 84 23 00-0183 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,604.30	31.57
32 84 23 00-0184 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,745.83	31.57
32 84 23 00-0185 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,885.40	31.57
32 84 23 00-0186 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,026.94	31.57
32 84 23 00-0187 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0163)		
32 84 23 00-0188 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	436.37	
32 84 23 00-0189 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMPED + LXMM).....	1,004.95	
Note: Excludes concrete foundation.		
32 84 23 00-0190 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	930.93	
32 84 23 00-0191 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	2,062.64	
Note: Excludes concrete foundation.		
32 84 23 00-0192 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	139.57	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	281.12	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	434.15	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0195 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	156.17	
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0197 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0196)		
32 84 23 00-0198 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	300.36	31.57
32 84 23 00-0199 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	366.20	31.57
32 84 23 00-0200 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	464.58	31.57
32 84 23 00-0201 Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0196)		
32 84 23 00-0202 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....	342.77	
32 84 23 00-0203 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....	80.59	23.67
32 84 23 00-0204 Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0205 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....	127.02	23.67
32 84 23 00-0206 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....	248.91	23.67
32 84 23 00-0207 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	260.66	23.67
32 84 23 00-0208 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	362.51	23.67
32 84 23 00-0209 Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0210 Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0211 Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0210)		
Note: Includes water resistant cabinet.		
32 84 23 00-0212 EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	1,746.33	31.57
32 84 23 00-0213 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	2,602.31	31.57
32 84 23 00-0214 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	3,458.30	31.57
32 84 23 00-0215 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0210)		
32 84 23 00-0216 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	222.06	31.57
32 84 23 00-0217 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF).....	280.94	31.57
32 84 23 00-0218 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....	415.71	31.57



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84
			32

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0219	EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	498.73	31.57
32 84 23 00-0220	EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF).....	810.17	31.57
32 84 23 00-0221	Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0210)		
32 84 23 00-0222	EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....	1,317.04	
32 84 23 00-0223	EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75).....	855.98	
32 84 23 00-0224	EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF).....	168.90	27.62
32 84 23 00-0225	EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF).....	700.79	31.57
32 84 23 00-0226	Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0227	Irrigation Controllers (32 84 23 00-0226)		
32 84 23 00-0228	EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	2,259.25	78.91
32 84 23 00-0229	EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	2,914.29	88.77
32 84 23 00-0230	EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	3,999.40	98.64
32 84 23 00-0231	EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	4,400.13	98.64
32 84 23 00-0232	EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	5,201.78	108.50
32 84 23 00-0233	EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	6,276.92	108.50
32 84 23 00-0234	EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	7,107.90	118.37
32 84 23 00-0235	EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	7,958.24	118.37
32 84 23 00-0236	EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE).....	2,300.29	39.46
32 84 23 00-0237	EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE).....	967.46	39.46
32 84 23 00-0238	Irrigation Controller Accessories (32 84 23 00-0226)		
32 84 23 00-0239	EA Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....	93.83	
32 84 23 00-0240	EA Spare Lock For Enclosures (Calsense PAD).....	101.65	
32 84 23 00-0241	EA Hardware And Software For Up To 4 Additional Light Circuits (Calsense L).....	121.38	9.86
32 84 23 00-0242	EA Transformer For Irrigation Controllers (Calsense TR-1).....	176.65	39.46
32 84 23 00-0243	EA AC Line Protection For Irrigation Controllers (Calsense TP-110).....	479.65	39.46
32 84 23 00-0244	EA Transient Protection Board For Irrigation Controller Stations (Calsense TP-1).....	636.03	39.46
	<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	348.10	
32 84 23 00-0245	Sensors For Irrigation Controllers (32 84 23 00-0226)		
32 84 23 00-0246	Flow Sensors (32 84 23 00-0245)		
32 84 23 00-0247	EA 1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5).....	1,115.32	59.19
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-741.40	
32 84 23 00-0248	EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2).....	1,154.42	59.19
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-780.50	
32 84 23 00-0249	EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3).....	1,193.52	59.19
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-819.60	
32 84 23 00-0250	EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B).....	1,320.94	78.91
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-946.71	
32 84 23 00-0251	EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B).....	1,418.68	78.91
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,044.45	
32 84 23 00-0252	EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B).....	1,457.78	78.91
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,083.55	
32 84 23 00-0253	EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B).....	1,711.90	78.91
	<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,209.49	
32 84 23 00-0254	EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX).....	1,329.99	39.46
	Note: For 4" and larger pipe. Excludes pipe saddle. <i>For Flow Meter Replacement Insert Only, Deduct</i>	-827.58	
32 84 23 00-0255	Moisture Sensors (32 84 23 00-0245)		
32 84 23 00-0256	EA Soil Moisture Sensor (Calsense 1000-S).....	469.70	29.59
32 84 23 00-0257	Weather Sensors (32 84 23 00-0245)		
32 84 23 00-0258	EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1).....	1,281.85	78.91
32 84 23 00-0259	EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,478.76	157.83
32 84 23 00-0260	EA ET Gage, Irrigation Weather Sensor (Calsense ETG).....	2,924.60	118.37
32 84 23 00-0261	Weather Sensor Accessories (32 84 23 00-0245)		
32 84 23 00-0262	EA Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	860.83	
32 84 23 00-0263	EA Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB).....	1,623.21	
32 84 23 00-0264	EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	860.83	39.46
32 84 23 00-0265	EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	1,984.50	39.46
32 84 23 00-0266	Antennas For Irrigation Controllers (32 84 23 00-0226)		
	Note: Excludes antenna cable.		
32 84 23 00-0267	EA Local Radio Dome Antenna (Calsense LR-DOME).....	450.32	39.46
32 84 23 00-0268	EA Local Radio Stick Antenna (Calsense LR-STICK).....	655.58	39.46

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0269 EA Local Radio Yagi Antenna (Calsense LR-YAGI).....	734.50	78.91
32 84 23 00-0270 EA Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR).....	450.32	39.46
32 84 23 00-0271 EA Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE).....	450.32	39.46
32 84 23 00-0272 EA GPRS Stubby Antenna (Calsense GR-STUBBY).....	450.32	39.46
32 84 23 00-0273 EA GPRS Stick Antenna (Calsense GR-STICK).....	655.58	39.46
32 84 23 00-0274 EA Spread Spectrum Dome Antenna (Calsense SR-DOME).....	450.32	39.46
32 84 23 00-0275 EA Spread Spectrum Stick Antenna (Calsense SR-STICK).....	655.58	39.46
32 84 23 00-0276 EA Spread Spectrum Yagi Antenna (Calsense SR-YAGI).....	734.50	78.91
32 84 23 00-0277 EA Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR).....	450.32	39.46
32 84 23 00-0278 EA Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE).....	450.32	39.46
32 84 23 00-0279 EA Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	450.32	39.46
32 84 23 00-0280 EA WiFi Stubby Antenna (Calsense WEN-STUBBY).....	450.32	39.46
32 84 23 00-0281 LF Antenna Cable With End Connectors (Calsense LMR-400-DB).....	12.28	0.47
32 84 23 00-0282 EA Surge Protection Device For Antenna (Calsense ANT-PROT).....	449.97	19.73
32 84 23 00-0283 EA 5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5).....	733.77	39.46
32 84 23 00-0284 EA 3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM).....	635.31	
32 84 23 00-0285 EA Local Radio Frequency Filter (Calsense LR-FILTER).....	899.21	
32 84 23 00-0286 EA Spread Spectrum Frequency Filter (Calsense SR-FILTER).....	664.64	
32 84 23 00-0287 Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0226)		
32 84 23 00-0288 EA 15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	411.59	59.19
32 84 23 00-0289 EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX).....	996.99	98.64
32 84 23 00-0290 EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)..... Note: Includes GFI and receptacle.	1,105.19	39.46
32 84 23 00-0291 EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)..... Note: Includes factory installed transient protection board and AC line protection.	1,320.04	29.59
32 84 23 00-0292 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)..... Note: Includes factory installed transient protection board and AC line protection.	4,136.30	29.59
32 84 23 00-0293 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)..... Note: Includes factory installed transient protection board, AC line protection and dome antenna.	4,672.54	29.59
32 84 23 00-0294 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)..... Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.	6,779.83	59.19
32 84 23 00-0295 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)..... Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.	7,106.37	59.19
32 84 23 00-0296 EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM).....	232.98	
32 84 23 00-0297 EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED).....	753.15	
32 84 23 00-0298 Central Computer For Irrigation Control Systems (32 84 23 00-0226)		
32 84 23 00-0299 EA Central Computer For Irrigation Control Systems (Calsense COMP-2)..... Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.	5,214.73	
32 84 23 00-0300 EA Command Center Water Management Software For Central Computer (Calsense COMM-1).....	9,230.97	
32 84 23 00-0301 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5)..... Note: Package price for up to 5 users. Includes remote communication through internet connection.	1,772.13	
32 84 23 00-0302 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10)..... Note: Package price for 6 to 10 users. Includes remote communication through internet connection.	3,489.01	
32 84 23 00-0303 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2).....	5,617.59	
32 84 23 00-0304 EA GPRS Radio For Use At Central Computer (Calsense DTR-G).....	3,358.72	
32 84 23 00-0305 Data Access Service (32 84 23 00-0226)		
32 84 23 00-0306 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN)..... Note: For communication between GPRS unit and up to 2 controllers.	28.43	
32 84 23 00-0307 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR)..... Note: For communication between GPRS unit and up to 2 controllers.	310.99	
32 84 23 00-0308 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR)..... Note: For communication between GPRS unit and up to 2 controllers.	1,332.82	
32 84 23 00-0309 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M)..... Note: For communication between GPRS unit and multiple controllers.	115.51	
32 84 23 00-0310 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M)..... Note: For communication between GPRS unit and multiple controllers.	1,243.97	
32 84 23 00-0311 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M)..... Note: For communication between GPRS unit and multiple controllers.	5,331.30	
32 84 23 00-0312 Communication Options For Irrigation Controllers (32 84 23 00-0226)		
32 84 23 00-0313 EA FCC License Fee (Calsense).....	190.51	
32 84 23 00-0314 EA P.C.I.A. And/Or A.P.C.O. Fee (Calsense)..... Note: Per frequency or frequency pair.	368.22	
32 84 23 00-0315 EA Hardware Communication Option For Irrigation Controllers (Calsense M)..... Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.	1,030.72	
32 84 23 00-0316 EA Phone Line Communication Option For Irrigation Controllers (Calsense R).....	1,084.03	
32 84 23 00-0317 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN).....	1,084.03	
32 84 23 00-0318 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN).....	2,221.38	
32 84 23 00-0319 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR).....	2,825.59	
32 84 23 00-0320 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR).....	2,825.59	
32 84 23 00-0321 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR).....	2,825.59	
32 84 23 00-0322 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM).....	9,063.21	



Exterior Improvements		32
Irrigation		32 80
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0323 EA Communication Hub For Irrigation Controllers (Calsense HUB)..... Note: Accepts up to two communication options. Excludes communication options.	3,491.48	
32 84 23 00-0324 Retrofit Options For Irrigation Controllers (32 84 23 00-0226)		
32 84 23 00-0325 Weather Retrofits For Irrigation Controllers (32 84 23 00-0324)		
32 84 23 00-0326 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO)	1,385.08	
32 84 23 00-0327 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO)	1,385.08	
32 84 23 00-0328 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO)	1,385.08	
32 84 23 00-0329 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO)	1,385.08	
32 84 23 00-0330 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0324)		
32 84 23 00-0331 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO)	1,456.16	
32 84 23 00-0332 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO)	1,722.73	
32 84 23 00-0333 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO)	2,762.33	
32 84 23 00-0334 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0324)		
32 84 23 00-0335 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO)	1,633.87	
32 84 23 00-0336 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO)	3,446.51	
32 84 23 00-0337 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO)	4,477.23	
32 84 23 00-0338 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0324)		
32 84 23 00-0339 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro)	1,633.87	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR- RETRO)	3,446.51	
32 84 23 00-0341 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO)	4,477.23	
32 84 23 00-0342 Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0324)		
32 84 23 00-0343 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro)	1,633.87	
32 84 23 00-0344 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO)	1,722.73	
32 84 23 00-0345 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	2,762.33	
32 84 23 00-0346 GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0324)		
32 84 23 00-0347 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO)	1,633.87	
32 84 23 00-0348 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO)	3,446.51	
32 84 23 00-0349 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO)	4,477.23	
32 84 23 00-0350 Radio Remote Units For Irrigation Controllers (32 84 23 00-0226)		
32 84 23 00-0351 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRE-TRAN)	1,642.76	
32 84 23 00-0352 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe)	351.87	
Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0353 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	151.05	
32 84 23 00-0354 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	268.52	
32 84 23 00-0355 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)	170.78	9.86
Note: Excludes antenna cable.		
32 84 23 00-0356 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRE-WHIP)	330.72	9.86
Note: Excludes antenna cable.		
32 84 23 00-0357 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	357.38	9.86
Note: Excludes antenna cable.		
32 84 23 00-0358 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0359 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	3,858.00	177.56
32 84 23 00-0360 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	4,068.60	187.42
32 84 23 00-0361 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	5,649.44	197.29
32 84 23 00-0362 LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0363 LEIT X Series Irrigation Controller (32 84 23 00-0362)		
32 84 23 00-0364 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,623.86	31.57

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0365 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,975.98	31.57
32 84 23 00-0366 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,551.51	31.57
32 84 23 00-0367 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,127.05	31.57
32 84 23 00-0368 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,534.42	31.57
32 84 23 00-0369 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,941.78	31.57
32 84 23 00-0370 LEIT X Series Irrigation Controller Assembly <small>(32 84 23 00-0362)</small> Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0371 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,123.02	165.34
32 84 23 00-0372 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,475.15	165.34
32 84 23 00-0373 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,050.68	165.34
32 84 23 00-0374 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,626.23	165.34
32 84 23 00-0375 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	6,033.59	165.34
32 84 23 00-0376 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	6,440.95	165.34
32 84 23 00-0377 Enclosure For LEIT Controller Assembly <small>(32 84 23 00-0362)</small> Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0378 EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch	2,781.45	220.50
32 84 23 00-0379 Hunter Controllers <small>(32 84 23 00-0120)</small>		
32 84 23 00-0380 Hunter XC Hybrid Controller <small>(32 84 23 00-0379)</small> Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0381 EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	603.41	78.91
32 84 23 00-0382 EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	767.67	98.64
32 84 23 00-0383 DC Latching Solenoid <small>(32 84 23 00-0120)</small>		
32 84 23 00-0384 EA DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers	34.21	
32 84 23 00-0385 EA DC Solenoid For LEIT Controllers (DIG S-305DC)	53.15	
32 84 23 00-0386 Irrigation Controller Enclosure Cabinet <small>(32 84 23 00-0120)</small> Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0387 EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,697.60	433.65
32 84 23 00-0388 EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,912.34	473.08
32 84 23 00-0389 EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	3,220.68	512.49
32 84 23 00-0390 EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet	2,697.62	433.65
32 84 23 00-0391 EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	2,912.34	473.08
32 84 23 00-0392 EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	3,220.68	512.49
32 84 23 00-0393 EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,341.34	433.65
32 84 23 00-0394 EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,636.52	473.08
32 84 23 00-0395 EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,944.87	512.49
32 84 23 00-0396 Irrigation Valves <small>(32 84 23)</small>		
32 84 23 00-0397 Reduced Pressure Zone Valves With QT Shut-Offs <small>(32 84 23 00-0396)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0398 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	698.18	53.52
32 84 23 00-0399 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	829.90	65.35
32 84 23 00-0400 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,235.71	76.06
32 84 23 00-0401 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,311.65	87.32
32 84 23 00-0402 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,580.77	112.67
32 84 23 00-0403 Brass Quick-Coupling Irrigation Valves <small>(32 84 23 00-0396)</small>		
32 84 23 00-0404 EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC)	168.56	46.68
For Valve Key, Add	37.22	
32 84 23 00-0405 EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC)	172.86	46.68
For Locking Cover, Add	25.00	
For Valve Key, Add	37.22	
32 84 23 00-0406 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC)	220.21	46.68
For Valve Key, Add	95.20	
32 84 23 00-0407 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC)	237.43	46.68
For Valve Key, Add	95.20	
32 84 23 00-0408 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP)	229.32	46.68
32 84 23 00-0409 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP)	237.43	46.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0410 Anti-Siphon Pressure Type Vacuum Breaker <small>(32 84 23 00-0396)</small>		
<i>Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.</i>		
32 84 23 00-0411 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	266.92	39.43
32 84 23 00-0412 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	375.48	45.07
32 84 23 00-0413 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	664.13	52.11
32 84 23 00-0414 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	807.41	57.74
32 84 23 00-0415 EA 2" Anti-Siphon Pressure Type Vacuum Breaker	820.85	70.43
32 84 23 00-0416 Aluminum Cam And Groove Adapter <small>(32 84 23 00-0396)</small>		
32 84 23 00-0417 EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	47.35	
32 84 23 00-0418 EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	49.94	
32 84 23 00-0419 EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	48.36	
32 84 23 00-0420 EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread	51.84	
32 84 23 00-0421 Irrigation Piping <small>(32 84 23)</small>		
32 84 23 00-0422 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0421)</small>		
<i>Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.</i>		
32 84 23 00-0423 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0422)</small>		
32 84 23 00-0424 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.71	1.30
For >1,000, Deduct	-0.19	
32 84 23 00-0425 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.56	1.62
For >1,000, Deduct	-0.23	
32 84 23 00-0426 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.55	1.94
For >1,000, Deduct	-0.28	
32 84 23 00-0427 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.42	2.46
For >1,000, Deduct	-0.37	
32 84 23 00-0428 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	9.34	3.09
For >1,000, Deduct	-0.47	
32 84 23 00-0429 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	12.00	3.60
For >1,000, Deduct	-0.60	
32 84 23 00-0430 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	16.49	5.19
For >1,000, Deduct	-0.82	
32 84 23 00-0431 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	21.62	6.48
For >1,000, Deduct	-1.08	
32 84 23 00-0432 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	31.02	8.11
For >1,000, Deduct	-1.55	
32 84 23 00-0433 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0422)</small>		
32 84 23 00-0434 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.28	1.62
For >1,000, Deduct	-0.21	
32 84 23 00-0435 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	5.08	1.94
For >1,000, Deduct	-0.25	
32 84 23 00-0436 LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.09	2.46
For >1,000, Deduct	-0.35	
32 84 23 00-0437 LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	9.07	3.09
For >1,000, Deduct	-0.45	
32 84 23 00-0438 LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	11.59	3.60
For >1,000, Deduct	-0.58	
32 84 23 00-0439 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	16.33	5.19
For >1,000, Deduct	-0.82	
32 84 23 00-0440 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	22.48	6.48
For >1,000, Deduct	-1.12	
32 84 23 00-0441 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	36.50	8.11
For >1,000, Deduct	-1.83	
32 84 23 00-0442 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0422)</small>		
32 84 23 00-0443 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.51	1.62
For >1,000, Deduct	-0.23	
32 84 23 00-0444 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.40	1.94
For >1,000, Deduct	-0.27	
32 84 23 00-0445 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.69	2.46
For >1,000, Deduct	-0.38	
32 84 23 00-0446 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	10.08	3.09
For >1,000, Deduct	-0.50	
32 84 23 00-0447 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	13.19	3.60
For >1,000, Deduct	-0.66	
32 84 23 00-0448 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	16.49	5.19
For >1,000, Deduct	-0.82	
32 84 23 00-0449 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	21.62	6.48
For >1,000, Deduct	-1.08	
32 84 23 00-0450 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	31.56	8.11
For >1,000, Deduct	-1.58	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0451	Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted <small>(32 84 23 00-0421)</small> Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0452	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0453	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.50 -0.33	1.62
32 84 23 00-0454	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.49 -0.37	1.94
32 84 23 00-0455	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.35 -0.47	2.46
32 84 23 00-0456	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.27 -0.56	3.09
32 84 23 00-0457	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	13.95 -0.70	3.60
32 84 23 00-0458	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.43 -0.92	5.19
32 84 23 00-0459	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	23.56 -1.18	6.48
32 84 23 00-0460	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	32.96 -1.65	8.11
32 84 23 00-0461	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0462	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.74 -0.34	1.62
32 84 23 00-0463	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.72 -0.39	1.94
32 84 23 00-0464	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.59 -0.48	2.46
32 84 23 00-0465	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.50 -0.58	3.09
32 84 23 00-0466	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.17 -0.71	3.60
32 84 23 00-0467	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.66 -0.93	5.19
32 84 23 00-0468	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	23.78 -1.19	6.48
32 84 23 00-0469	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	33.18 -1.66	8.11
32 84 23 00-0470	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0471	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.96 -0.35	1.62
32 84 23 00-0472	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.95 -0.40	1.94
32 84 23 00-0473	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.82 -0.49	2.46
32 84 23 00-0474	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.74 -0.59	3.09
32 84 23 00-0475	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.40 -0.72	3.60
32 84 23 00-0476	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.89 -0.94	5.19
32 84 23 00-0477	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.02 -1.20	6.48
32 84 23 00-0478	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	33.42 -1.67	8.11
32 84 23 00-0479	Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0480	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.35 -0.32	1.62
32 84 23 00-0481	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.25 -0.36	1.94
32 84 23 00-0482	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.37 -0.47	2.46
32 84 23 00-0483	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.76 -0.59	3.09
32 84 23 00-0484	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.74 -0.74	3.60
32 84 23 00-0485	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.27 -0.91	5.19



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0486 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.42 -1.22	6.48
32 84 23 00-0487 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.44 -1.92	8.11
32 84 23 00-0488 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0489 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.59 -0.33	1.62
32 84 23 00-0490 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.48 -0.37	1.94
32 84 23 00-0491 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.61 -0.48	2.46
32 84 23 00-0492 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.99 -0.60	3.09
32 84 23 00-0493 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.96 -0.75	3.60
32 84 23 00-0494 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.50 -0.93	5.19
32 84 23 00-0495 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.64 -1.23	6.48
32 84 23 00-0496 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.66 -1.93	8.11
32 84 23 00-0497 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0498 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.81 -0.34	1.62
32 84 23 00-0499 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.71 -0.39	1.94
32 84 23 00-0500 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.84 -0.49	2.46
32 84 23 00-0501 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	12.23 -0.61	3.09
32 84 23 00-0502 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.19 -0.76	3.60
32 84 23 00-0503 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.73 -0.94	5.19
32 84 23 00-0504 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.88 -1.24	6.48
32 84 23 00-0505 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.90 -1.95	8.11
32 84 23 00-0506 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0507 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.45 -0.32	1.62
32 84 23 00-0508 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.34 -0.37	1.94
32 84 23 00-0509 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.62 -0.48	2.46
32 84 23 00-0510 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	12.01 -0.60	3.09
32 84 23 00-0511 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.14 -0.76	3.60
32 84 23 00-0512 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.43 -0.92	5.19
32 84 23 00-0513 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	23.56 -1.18	6.48
32 84 23 00-0514 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	33.50 -1.68	8.11
32 84 23 00-0515 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0516 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.69 -0.33	1.62

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0517 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	7.57	1.94
<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0518 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	9.86	2.46
<i>For >1,000, Deduct</i>	-0.49	
32 84 23 00-0519 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	12.24	3.09
<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0520 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	15.36	3.60
<i>For >1,000, Deduct</i>	-0.77	
32 84 23 00-0521 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	18.66	5.19
<i>For >1,000, Deduct</i>	-0.93	
32 84 23 00-0522 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	23.78	6.48
<i>For >1,000, Deduct</i>	-1.19	
32 84 23 00-0523 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	33.72	8.11
<i>For >1,000, Deduct</i>	-1.69	
32 84 23 00-0524 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0451)</small>		
32 84 23 00-0525 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.91	1.62
<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0526 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.80	1.94
<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0527 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	10.09	2.46
<i>For >1,000, Deduct</i>	-0.50	
32 84 23 00-0528 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	12.48	3.09
<i>For >1,000, Deduct</i>	-0.62	
32 84 23 00-0529 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	15.59	3.60
<i>For >1,000, Deduct</i>	-0.78	
32 84 23 00-0530 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	18.89	5.19
<i>For >1,000, Deduct</i>	-0.94	
32 84 23 00-0531 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	24.02	6.48
<i>For >1,000, Deduct</i>	-1.20	
32 84 23 00-0532 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	33.96	8.11
<i>For >1,000, Deduct</i>	-1.70	
32 84 23 00-0533 Irrigation Riser Piping With Fittings <small>(32 84 23 00-0421)</small>		
32 84 23 00-0534 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	17.99	3.89
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0535 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	19.72	4.86
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0536 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	19.57	4.54
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0537 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	21.69	5.67
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0538 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	38.28	6.81
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0539 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	41.28	8.51
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0540 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	45.26	8.75
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0541 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	49.13	10.95
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0542 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	52.26	10.69
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0543 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	56.99	13.38
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0544 Irrigation Crossover Piping With Fittings <small>(32 84 23 00-0421)</small>		
Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0588 for irrigation wiring.		
32 84 23 00-0545 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench <small>(32 84 23 00-0544)</small>		
32 84 23 00-0546 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	43.18	
<i>For >1,000, Deduct</i>	-2.16	
32 84 23 00-0547 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	60.93	
<i>For >1,000, Deduct</i>	-3.05	
32 84 23 00-0548 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	83.84	
<i>For >1,000, Deduct</i>	-4.19	
32 84 23 00-0549 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	110.65	
<i>For >1,000, Deduct</i>	-5.53	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0550 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench <small>(32 84 23 00-0544)</small>		
32 84 23 00-0551 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	43.88 -2.19	
32 84 23 00-0552 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	61.70 -3.09	
32 84 23 00-0553 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	84.69 -4.23	
32 84 23 00-0554 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	111.58 -5.58	
32 84 23 00-0555 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench <small>(32 84 23 00-0544)</small>		
32 84 23 00-0556 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation <i>For >1,000, Deduct</i>	44.57 -2.23	
32 84 23 00-0557 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	62.46 -3.12	
32 84 23 00-0558 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	85.54 -4.28	
32 84 23 00-0559 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	112.50 -5.63	
32 84 23 00-0560 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore <small>(32 84 23 00-0544)</small>		
32 84 23 00-0561 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	93.55 -4.68	
32 84 23 00-0562 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	121.49 -6.07	
32 84 23 00-0563 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	149.42 -7.47	
32 84 23 00-0564 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	181.25 -9.06	
32 84 23 00-0565 Below Ground Cam Adapter Assembly <small>(32 84 23 00-0421)</small> Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0566 EA Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	793.65	
32 84 23 00-0567 Above Ground Cam Adapter Assembly <small>(32 84 23 00-0421)</small> Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0568 EA Above Ground Cam Adapter Assembly Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	503.80	
32 84 23 00-0569 Thrust Block <small>(32 84 23 00-0421)</small>		
32 84 23 00-0570 EA Thrust Block For 1-1/2" Pipe Size And Smaller	37.64	
32 84 23 00-0571 EA Thrust Block For 2" Pipe	65.59	
32 84 23 00-0572 EA Thrust Block For 3" And 4" Pipe	93.54	
32 84 23 00-0573 EA Thrust Block For 6" Pipe	149.85	
32 84 23 00-0574 EA Thrust Block For 8" Pipe	215.57	
32 84 23 00-0575 Irrigation Swing Joints <small>(32 84 23)</small>		
32 84 23 00-0576 EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	64.03	25.81
32 84 23 00-0577 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	72.59	28.81
32 84 23 00-0578 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	92.85	28.81
32 84 23 00-0579 EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	53.58	33.64
32 84 23 00-0580 EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	71.56	44.87
32 84 23 00-0581 EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	89.52	55.02
32 84 23 00-0582 EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	76.47	34.16
32 84 23 00-0583 EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	101.09	45.32

32 Exterior Improvements

32 80 Irrigation

32 84 Planting Irrigation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0584	EA	1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	124.03	55.57
32 84 23 00-0585	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	43.20	20.92
32 84 23 00-0586	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	57.71	27.90
32 84 23 00-0587	EA	1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	68.19	34.59
32 84 23 00-0588		Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.		
32 84 23 00-0589		18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)		
32 84 23 00-0590	CLF	1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	55.36	19.45
32 84 23 00-0591	CLF	2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	70.98	22.70
32 84 23 00-0592	CLF	3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	81.58	25.94
32 84 23 00-0593	CLF	4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	93.09	29.18
32 84 23 00-0594	CLF	5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	105.51	32.42
32 84 23 00-0595	CLF	6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	124.34	35.66
32 84 23 00-0596	CLF	7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	142.48	38.90
32 84 23 00-0597	CLF	8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	154.74	42.14
32 84 23 00-0598	CLF	9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	169.40	45.38
32 84 23 00-0599	CLF	10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	185.96	48.63
32 84 23 00-0600	CLF	11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	193.33	51.87
32 84 23 00-0601	CLF	12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	201.64	55.11
32 84 23 00-0602	CLF	13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	212.87	58.35
32 84 23 00-0603		16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)		
32 84 23 00-0604	CLF	1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	57.79	19.45
32 84 23 00-0605		14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)		
32 84 23 00-0606	CLF	1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	57.79	19.45
32 84 23 00-0607		12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)		
32 84 23 00-0608	CLF	1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	73.87	19.45
32 84 23 00-0609		10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)		
32 84 23 00-0610	CLF	1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	94.24	19.45
32 84 23 00-0611		Root Watering Systems (32 84 23) Note: Includes swing assembly.		
32 84 23 00-0612	EA	0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	100.19	25.94
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0613	EA	0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401).....	106.89	25.94
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0614	EA	0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	100.19	25.94
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0615	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402).....	106.89	25.94
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0616	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404).....	106.89	25.94
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0617	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401).....	87.06	22.70
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0618	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	93.49	22.70
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0619	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402).....	87.06	22.70
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0620	EA	0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	93.49	22.70
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0621	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	61.07	19.45
		For Root Watering Sand Sock, Add	1.13	
32 84 23 00-0622	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401).....	67.20	19.45
		For Root Watering Sand Sock, Add	1.13	

32 90 Planting (32)

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.



Exterior Improvements			32
Planting			32 90
Planting Preparation			32 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 91 Planting Preparation (32 90)**32 91 13 Soil Preparation** (32 91)**32 91 13 16 Mulching** (32 91 13)**32 91 13 16-0001 Mulch** (32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pea Gravel Mulch	.....	95.12	
		<i>For >5 To 20, Deduct</i>		-7.96	
		<i>For >20 To 50, Deduct</i>		-11.95	
		<i>For >50, Deduct</i>		-16.70	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0003	CY	Stone/Gravel Mulch, Marble Chips	.....	281.64	
		<i>For >5 To 20, Deduct</i>		-17.29	
		<i>For >20 To 50, Deduct</i>		-25.94	
		<i>For >50, Deduct</i>		-40.02	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0004	CY	Stone Mulch, Decomposed Granite Chips	.....	154.19	
		<i>For >5 To 20, Deduct</i>		-10.92	
		<i>For >20 To 50, Deduct</i>		-16.38	
		<i>For >50, Deduct</i>		-24.09	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0005	CY	Pine Bark Nugget Mulch	.....	113.21	
		<i>For >5 To 20, Deduct</i>		-8.87	
		<i>For >20 To 50, Deduct</i>		-13.30	
		<i>For >50, Deduct</i>		-18.96	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0006	CY	Hardwood Bark Nugget Mulch	.....	111.25	
		<i>For >5 To 20, Deduct</i>		-8.77	
		<i>For >20 To 50, Deduct</i>		-13.16	
		<i>For >50, Deduct</i>		-18.72	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0007	CY	Pine Wood Chip Mulch	.....	107.32	
		<i>For >5 To 20, Deduct</i>		-8.57	
		<i>For >20 To 50, Deduct</i>		-12.86	
		<i>For >50, Deduct</i>		-18.23	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0008	CY	Hardwood Chip Mulch	.....	115.17	
		<i>For >5 To 20, Deduct</i>		-8.97	
		<i>For >20 To 50, Deduct</i>		-13.45	
		<i>For >50, Deduct</i>		-19.21	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0009	CY	Shredded Hardwood Mulch	.....	115.17	
		<i>For >5 To 20, Deduct</i>		-8.97	
		<i>For >20 To 50, Deduct</i>		-13.45	
		<i>For >50, Deduct</i>		-19.21	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0010	CY	Shredded Pine Mulch	.....	97.52	
		<i>For >5 To 20, Deduct</i>		-8.08	
		<i>For >20 To 50, Deduct</i>		-12.13	
		<i>For >50, Deduct</i>		-17.00	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0011	CY	Shredded Cedar Mulch	.....	135.76	
		<i>For >5 To 20, Deduct</i>		-10.00	
		<i>For >20 To 50, Deduct</i>		-14.99	
		<i>For >50, Deduct</i>		-21.78	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0012	CY	Shredded Cypress Mulch	.....	132.82	
		<i>For >5 To 20, Deduct</i>		-9.85	
		<i>For >20 To 50, Deduct</i>		-14.77	
		<i>For >50, Deduct</i>		-21.42	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0013	CY	Shredded Redwood Mulch	.....	140.67	
		<i>For >5 To 20, Deduct</i>		-10.24	
		<i>For >20 To 50, Deduct</i>		-15.36	
		<i>For >50, Deduct</i>		-22.40	
		<i>For Work On Slopes >2.5:1, Add</i>		12.83	
32 91 13 16-0014	CY	Chunk Recycled Tire Mulch	.....	219.06	
		<i>For >5 To 20, Deduct</i>		-15.04	
		<i>For >20 To 50, Deduct</i>		-22.56	
		<i>For >50, Deduct</i>		-33.51	
		<i>For Work On Slopes >2.5:1, Add</i>		16.35	
32 91 13 16-0015	CY	Chunk Colored Recycled Tire Mulch	.....	354.41	
		<i>For >5 To 20, Deduct</i>		-21.81	
		<i>For >20 To 50, Deduct</i>		-32.71	
		<i>For >50, Deduct</i>		-50.43	
		<i>For Work On Slopes >2.5:1, Add</i>		16.35	
32 91 13 16-0016	CY	Shredded Recycled Tire Mulch	.....	356.37	
		<i>For >5 To 20, Deduct</i>		-21.91	
		<i>For >20 To 50, Deduct</i>		-32.86	
		<i>For >50, Deduct</i>		-50.68	
		<i>For Work On Slopes >2.5:1, Add</i>		16.35	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0017	CY	Shredded Colored Recycled Tire Mulch	627.06	
		<i>For >5 To 20, Deduct</i>	-35.44	
		<i>For >20 To 50, Deduct</i>	-53.16	
		<i>For >50, Deduct</i>	-84.51	
		<i>For Work On Slopes >2.5:1, Add</i>	16.35	
32 91 13 16-0018	EA	Pine Straw Mulch Bale.....	10.43	
		Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
		<i>For >100 To 250, Deduct</i>	-0.70	
		<i>For >250 To 500, Deduct</i>	-0.88	
		<i>For >500, Deduct</i>	-1.22	
		<i>For Work On Slopes >2.5:1, Add</i>	0.72	
32 91 13 16-0019	EA	Wheat Straw Mulch Bale.....	10.74	
		Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
		<i>For >100 To 250, Deduct</i>	-0.67	
		<i>For >250 To 500, Deduct</i>	-0.81	
		<i>For >500, Deduct</i>	-1.21	
		<i>For Work On Slopes >2.5:1, Add</i>	0.54	
32 91 13 16-0020		Compost Soil Amendment (AgriService) <small>(32 91 13 16)</small>		
		Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 91 13 16-0021	CY	Humic Compost (OIM)	80.56	
		Note: (Agri Service or Equal)		
		<i>For Work On Slopes >2.5:1, Add</i>	12.83	
		<i>For >100 To 1,000, Deduct</i>	-13.65	
		<i>For >1,000, Deduct</i>	-20.89	
32 91 13 26		Planting Beds <small>(32 91 13)</small>		
		Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001		Plant Bed Preparation <small>(32 91 13 26)</small>		
		Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002	SF	Prepare And Mix Plant Bed, Up To 8" Deep By Machine.....	1.00	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.20	
32 91 13 26-0003	SF	Prepare And Mix Plant Bed, 9" To 13" Deep By Machine.....	1.16	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.23	
32 91 13 26-0004	SF	Prepare And Mix Plant Bed, 14" To 18" Deep By Machine.....	1.36	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.27	
32 91 13 26-0005	SF	Prepare And Mix Plant Bed By Hand, Up To 8" Deep.....	4.56	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.91	
32 91 13 26-0006	SF	Prepare And Mix Plant Bed By Hand, 9" To 13" Deep.....	5.24	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		<i>For Work On Slopes >2.5:1, Add</i>	1.05	
32 91 13 26-0007	SF	Prepare And Mix Plant Bed By Hand, 14" To 18" Deep.....	6.16	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		<i>For Work On Slopes >2.5:1, Add</i>	1.23	
32 91 13 26-0008		Plant Bed Preparation With Humic Compost <small>(32 91 13 26)</small>		
32 91 13 26-0009	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF).....	1.11	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.21	
		<i>For >1,000 To 5,000, Deduct</i>	-0.16	
		<i>For >5,000 To 10,000, Deduct</i>	-0.27	
		<i>For >10,000 To 20,000, Deduct</i>	-0.53	
		<i>For >20,000, Deduct</i>	-0.75	
32 91 13 26-0010	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF).....	1.38	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.26	
		<i>For >1,000 To 5,000, Deduct</i>	-0.19	
		<i>For >5,000 To 10,000, Deduct</i>	-0.32	
		<i>For >10,000 To 20,000, Deduct</i>	-0.65	
		<i>For >20,000, Deduct</i>	-0.91	
32 91 13 26-0011	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF).....	1.65	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		<i>For Work On Slopes >2.5:1, Add</i>	0.30	
		<i>For >1,000 To 5,000, Deduct</i>	-0.23	
		<i>For >5,000 To 10,000, Deduct</i>	-0.38	
		<i>For >10,000 To 20,000, Deduct</i>	-0.76	
		<i>For >20,000, Deduct</i>	-1.07	



Exterior Improvements	32
Planting	32 90
Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0012 Planting Pit Preparation <small>(32 91 13 26)</small>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013 CY Excavate Planting Pit By Hand, Sandy Soil	78.91	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>		
	15.78	
32 91 13 26-0014 CY Excavate Planting Pit By Hand, Heavy Soil	157.83	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>		
	31.57	
32 91 13 26-0015 CY Excavate Planting Pit By Machine, Sandy Soil	12.54	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>		
	2.51	
32 91 13 26-0016 CY Excavate Planting Pit By Machine, Heavy Soil	16.31	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>		
	3.26	
32 91 13 26-0017 CY Backfill Planting Pit By Hand With Topsoil From Stockpile	70.13	
<i>For Work On Slopes >2.5:1, Add</i>		
	14.03	
32 91 13 26-0018 CY Backfill Planting Pit By Hand With Contractor Furnished Planting Mix	136.99	
<i>For Work On Slopes >2.5:1, Add</i>		
	12.81	
32 91 13 26-0019 CY Backfill Planting Pit By Machine, With Topsoil From Stockpile	6.80	
<i>For Work On Slopes >2.5:1, Add</i>		
	1.36	
32 91 13 26-0020 CY Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix	90.02	
<i>For Work On Slopes >2.5:1, Add</i>		
	3.42	
32 91 13 26-0021 Weed Barrier <small>(32 91 13 26)</small>		
32 91 13 26-0022 SY Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier	1.97	
<i>For Work On Slopes >2.5:1, Add</i>		
	0.13	
32 91 13 26-0023 SY 4 Oz/SY Woven, Polypropylene Weed Barrier	2.65	
<i>For Work On Slopes >2.5:1, Add</i>		
	0.13	
32 91 13 26-0024 SY 5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier	2.96	
<i>For Work On Slopes >2.5:1, Add</i>		
	0.13	
32 91 13 33 Soil Conditioners <small>(32 91 13)</small>		
32 91 13 33-0001 Spread Soil Conditioners <small>(32 91 13 33)</small>		
32 91 13 33-0002 SY Aluminum Sulfate 1 LB/SY, Push Spreader	0.35	
32 91 13 33-0003 MSF Aluminum Sulfate 110 LB/MSF Tractor Spreader	32.38	
32 91 13 33-0004 MSF Fertilizer, 20 LB/MSF, Push Spreader	6.39	
32 91 13 33-0005 MSF Fertilizer, 20 LB/MSF, Tractor Spread	2.56	
32 91 13 33-0006 MSF Fertilizer, 20 LB/MSF, Truck Spread	4.80	
32 91 13 33-0007 SY Pelletized Lime, 1 LB/SY, Push Spreader	0.09	
32 91 13 33-0008 MSF Pelitized Lime, 110 LB/MSF, Tractor Spreader	6.27	
32 91 13 33-0009 SY Perlite, 1" Deep, Push Spreader	2.94	
32 91 13 33-0010 MSF Perlite, 1" Deep, Tractor Spreader	304.74	
32 91 13 33-0011 SY Vermiculite, Push Spreader	2.73	
32 91 13 33-0012 MSF Vermiculite, Tractor Spreader	297.68	
32 91 13 33-0013 SY Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader	0.19	
32 91 13 33-0014 MSF Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader	16.48	
32 91 13 36 Lawn Bed Preparation <small>(32 91 13)</small>		
32 91 13 36-0001 Lawn Bed Preparation <small>(32 91 13 36)</small>		
32 91 13 36-0002 MSF Rake Topsoil With Machine	78.21	
32 91 13 36-0003 MSF Rake Topsoil By Hand	63.12	
32 91 13 36-0004 MSF Screen Loam By Hand	42.08	
32 91 13 36-0005 SY Roll Topsoil With Machine	1.00	
32 91 13 36-0006 SY Roll Topsoil By Hand	2.82	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine	9.24	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand	28.69	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders	48.40	
<i>For >45 to 225, Deduct</i>		
	-33.88	
<i>For >225, Deduct</i>		
	-43.56	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders	80.67	
<i>For >45 to 225, Deduct</i>		
	-56.47	
<i>For >225, Deduct</i>		
	-72.60	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor	4.34	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor	8.80	
<i>For Work On Slopes >2.5:1, Add</i>		
	1.76	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller	0.68	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller	0.81	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller	1.01	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds	1.12	
32 91 13 36-0017 Sod Removal <small>(32 91 13 36)</small>		
32 91 13 36-0018 SY Removal Of Sod By Hand	5.32	
<i>For Work On Slopes >2.5:1, Add</i>		
	1.06	
32 91 13 36-0019 SY Removal Of Sod With Machine	0.58	
<i>For Work On Slopes >2.5:1, Add</i>		
	0.12	

32	32 Exterior Improvements
	32 90 Planting
	32 91 Planting Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 36-0020 SY Pile Sod By Hand..... <i>For Work On Slopes >2.5:1, Add</i>	3.15 0.63	
32 91 13 36-0021 SY Pile Sod With Machine..... <i>For Work On Slopes >2.5:1, Add</i>	1.09 0.22	
32 91 19 Landscape Grading (32 91)		
32 91 19 13 Topsoil Placement and Grading (32 91 19)		
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site	4.65	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site	4.61	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic).....	10.27	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material	6.84	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile	7.48	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile	60.23	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)		
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep..... <i>For Unscreened, Deduct</i>	4.78 -0.77	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep..... <i>For Unscreened, Deduct</i>	9.25 -1.53	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep..... <i>For Unscreened, Deduct</i>	13.53 -2.29	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep..... <i>For Unscreened, Deduct</i>	19.73 -3.44	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep..... <i>For Unscreened, Deduct</i>	25.94 -4.58	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep..... <i>For Unscreened, Deduct</i>	73.21 -13.75	
32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)		
Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine	58.66	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	41.05	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....	24.15	
32 92 Turf and Grasses (32 92)		
32 92 16 Plugging (32 92)		
32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)		
Note: Includes fine grade and soil preparation.		
32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center	206.63	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....	30.75	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center	23.59	
32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center	158.43	
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center.....	23.95	
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center	17.65	
32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0011 MSF Plugging By Hand, 12" On Center	132.92	
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center.....	16.10	
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center	11.25	
32 92 19 Seeding (32 92)		
32 92 19 13 Mechanical Seeding (32 92 19)		
Note: Includes fertilizing, liming, mixing, seeding and initial watering.		
32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)		
Note: Excludes straw.		



		Exterior Improvements	32
		Planting	32 90
		Turf and Grasses	32 92

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0002	MSF		Common Bluegrass, Tractor Spreader Note: 4 LB/MSF spread rate.	44.18	
32 92 19 13-0003	MSF		Tall Fescue, Tractor Spreader Note: 5.5 LB/MSF spread rate.	34.26	
32 92 19 13-0004	MSF		Rye, Tractor Spreader Note: 10 LB/MSF spread rate.	34.97	
32 92 19 13-0005	MSF		Shade Mix, Tractor Spreader Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	38.54	
32 92 19 13-0006	MSF		Turf Mix, Tractor Spreader Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	41.10	
32 92 19 13-0007	MSF		Slope Mix, Tractor Spreader Note: 6 LB/MSF spread rate.	37.68	
32 92 19 13-0008	MSF		Utility Mix, Tractor Spreader Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	33.42	
32 92 19 13-0009	MSF		Wild Flower Mix, Tractor Spreader Note: 0.10 LB/MSF spread rate.	25.37	
32 92 19 13-0010	MSF		Crown Vetch Mix, Tractor Spreader Note: 4 LB/MSF spread rate.	89.00	
32 92 19 13-0011	MSF		Athletic Mix, Tractor Spreader Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	51.37	
32 92 19 13-0012	MSF		White Clover Mix, Tractor Spreader Note: 7 LB/MSF spread rate.	25.28	
32 92 19 13-0013	MSF		Ladino Clover Mix, Tractor Spreader Note: 7 LB/MSF spread rate.	28.70	
32 92 19 13-0014			Hydro Or Air Mechanical Seeding (32 92 19 13)		
32 92 19 13-0015	MSF		Common Bluegrass, Hydro Or Air Seeding Note: 4 LB/MSF spread rate.	88.89	
			<i>For Spot Areas Up To 1, Add</i>	90.06	
			<i>For >1 To 4, Add</i>	57.42	
			<i>For >4 To 7.5, Add</i>	38.62	
			<i>For >7.5 To 10, Add</i>	19.31	
			<i>For >45, Deduct</i>	-6.92	
			<i>For Tackifier, Add</i>	1.15	
32 92 19 13-0016	MSF		Tall Fescue, Hydro Or Air Seeding Note: 5.5 LB/MSF spread rate.	94.88	
			<i>For Spot Areas Up To 1, Add</i>	92.46	
			<i>For >1 To 4, Add</i>	58.62	
			<i>For >4 To 7.5, Add</i>	39.22	
			<i>For >7.5 To 10, Add</i>	19.61	
			<i>For >45, Deduct</i>	-7.22	
			<i>For Tackifier, Add</i>	1.15	
32 92 19 13-0017	MSF		Rye, Hydro Or Air Spread Note: 10 LB/MSF spread rate.	89.14	
			<i>For Spot Areas Up To 1, Add</i>	90.16	
			<i>For >1 To 4, Add</i>	57.47	
			<i>For >4 To 7.5, Add</i>	38.64	
			<i>For >7.5 To 10, Add</i>	19.32	
			<i>For >45, Deduct</i>	-6.93	
			<i>For Tackifier, Add</i>	1.15	
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	88.89	
			<i>For Spot Areas Up To 1, Add</i>	90.06	
			<i>For >1 To 4, Add</i>	57.42	
			<i>For >4 To 7.5, Add</i>	38.62	
			<i>For >7.5 To 10, Add</i>	19.31	
			<i>For >45, Deduct</i>	-6.92	
			<i>For Tackifier, Add</i>	1.15	
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	94.88	
			<i>For Spot Areas Up To 1, Add</i>	92.46	
			<i>For >1 To 4, Add</i>	58.62	
			<i>For >4 To 7.5, Add</i>	39.22	
			<i>For >7.5 To 10, Add</i>	19.61	
			<i>For >45, Deduct</i>	-7.22	
			<i>For Tackifier, Add</i>	1.15	
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding Note: 6 LB/MSF spread rate.	92.31	
			<i>For Spot Areas Up To 1, Add</i>	91.43	
			<i>For >1 To 4, Add</i>	58.10	
			<i>For >4 To 7.5, Add</i>	38.96	
			<i>For >7.5 To 10, Add</i>	19.48	
			<i>For >45, Deduct</i>	-7.09	
			<i>For Tackifier, Add</i>	1.15	
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	90.24	
			<i>For Spot Areas Up To 1, Add</i>	90.60	
			<i>For >1 To 4, Add</i>	57.69	
			<i>For >4 To 7.5, Add</i>	38.75	
			<i>For >7.5 To 10, Add</i>	19.38	
			<i>For >45, Deduct</i>	-6.99	
			<i>For Tackifier, Add</i>	1.15	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0022 MSF Wild Flower Mix, Hydro Or Air Seeding.....	83.58	
Note: 0.10 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	87.94	
For >1 To 4, Add	56.36	
For >4 To 7.5, Add	38.09	
For >7.5 To 10, Add	19.04	
For >45, Deduct	-6.66	
For Tackifier, Add	1.15	
32 92 19 13-0023 MSF Crown Vetch Mix, Hydro Or Air Seeding.....	143.62	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	111.95	
For >1 To 4, Add	68.36	
For >4 To 7.5, Add	44.09	
For >7.5 To 10, Add	22.05	
For >45, Deduct	-9.66	
For Tackifier, Add	1.15	
32 92 19 13-0024 MSF Athletic Mix, Hydro Or Air Seeding.....	124.82	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For Spot Areas Up To 1, Add	104.43	
For >1 To 4, Add	64.60	
For >4 To 7.5, Add	42.21	
For >7.5 To 10, Add	21.11	
For >45, Deduct	-8.72	
For Tackifier, Add	1.15	
32 92 19 13-0025 MSF White Clover Mix, Hydro Or Air Seeding.....	75.46	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	84.69	
For >1 To 4, Add	54.73	
For >4 To 7.5, Add	37.28	
For >7.5 To 10, Add	18.64	
For >45, Deduct	-6.25	
For Tackifier, Add	1.15	
32 92 19 13-0026 MSF Ladino Clover Mix, Hydro Or Air Seeding	85.47	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	88.69	
For >1 To 4, Add	56.73	
For >4 To 7.5, Add	38.28	
For >7.5 To 10, Add	19.14	
For >45, Deduct	-6.75	
For Tackifier, Add	1.15	
32 92 19 13-0027 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	90.60	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	90.75	
For >1 To 4, Add	57.76	
For >4 To 7.5, Add	38.79	
For >7.5 To 10, Add	19.40	
For >45, Deduct	-7.01	
For Tackifier, Add	1.15	
32 92 19 13-0028 MSF 2,500 LB/Acre, High Performance - Flexible Growth Medium.....	104.92	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-6.49	
32 92 19 13-0029 MSF 3,000 LB/Acre, High Performance - Flexible Growth Medium.....	122.18	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-7.41	
32 92 19 13-0030 MSF 3,500 LB/Acre, High Performance - Flexible Growth Medium.....	139.52	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-8.34	
32 92 19 13-0031 MSF 4,000 LB/Acre, High Performance - Flexible Growth Medium.....	156.89	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-9.28	
32 92 19 13-0032 MSF 4,500 LB/Acre, High Performance - Flexible Growth Medium.....	174.36	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-10.22	
32 92 19 19 Seeding by Hand <small>(32 92 19)</small>		
Note: Includes fertilizing, liming, mixing, seeding and initial watering.		
32 92 19 19-0001 Push Spreader Or Hand Seeding <small>(32 92 19 19)</small>		
Note: Excludes straw.		
32 92 19 19-0002 MSF Common Bluegrass, Push Spreader Or Hand.....	102.50	
Note: 4 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.10	
For >20 To 45, Deduct	-13.61	
For >45, Deduct	-22.09	
32 92 19 19-0003 MSF Tall Fescue, Push Spreader Or Hand.....	92.58	
Note: 5.5 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.60	
For >20 To 45, Deduct	-12.86	
For >45, Deduct	-21.09	
32 92 19 19-0004 MSF Rye, Push Spreader Or Hand.....	93.29	
Note: 10 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.64	
For >20 To 45, Deduct	-12.91	
For >45, Deduct	-21.16	



Exterior Improvements	32
Planting	32 90
Turf and Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0005 MSF Shade Mix, Push Spreader Or Hand Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	96.86 -6.82 -13.18 -21.52	
32 92 19 19-0006 MSF Turf Mix, Push Spreader Or Hand Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	99.42 -6.94 -13.37 -21.78	
32 92 19 19-0007 MSF Slope Mix, Push Spreader Or Hand Note: 6 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	96.00 -6.77 -13.12 -21.44	
32 92 19 19-0008 MSF Utility Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	91.74 -6.56 -12.80 -21.01	
32 92 19 19-0009 MSF Wild Flower Mix, Push Spreader Or Hand Note: 0.10 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	83.69 -6.16 -12.19 -20.20	
32 92 19 19-0010 MSF Crown Vetch Mix, Push Spreader Or Hand Note: 4 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	147.32 -9.34 -16.97 -26.57	
32 92 19 19-0011 MSF Athletic Mix, Push Spreader Or Hand Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	109.69 -7.46 -14.14 -22.80	
32 92 19 19-0012 MSF White Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	83.60 -6.15 -12.19 -20.20	
32 92 19 19-0013 MSF Ladino Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	87.02 -6.32 -12.44 -20.54	
32 92 19 19-0014 MSF 100% Kentucky Bluegrass, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	104.13 -7.18 -13.73 -22.25	
32 92 19 19-0015 MSF 70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	99.42 -6.94 -13.37 -21.78	
32 92 19 19-0016 MSF 50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	96.00 -6.77 -13.12 -21.44	
32 92 19 19-0017 MSF 50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand Note: 4.4 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	102.85 -7.12 -13.63 -22.12	
32 92 19 19-0018 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	97.71 -6.86 -13.25 -21.61	
32 92 19 19-0019 MSF 40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. <i>For >5 To 20, Deduct</i> <i>For >20 To 45, Deduct</i> <i>For >45, Deduct</i>	99.42 -6.94 -13.37 -21.78	

32 92 23 Sodding (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001 Tall Fescue Sod (32 92 23)

32 92 23 00-0002 MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground <i>For Hybrid Fescue "Marathon", Add</i>	2,180.18 152.92
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32 Exterior Improvements

32 90 Planting

32 92 Turf and Grasses



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0003	MSF		>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,761.58	
			For Hybrid Fescue "Marathon", Add	115.12	
32 92 23 00-0004	MSF		>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,488.59	
			For Hybrid Fescue "Marathon", Add	96.22	
32 92 23 00-0005	MSF		>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,265.18	
			For Hybrid Fescue "Marathon", Add	77.32	
32 92 23 00-0006	MSF		Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,488.74	
			For Hybrid Fescue "Marathon", Add	152.92	
32 92 23 00-0007	MSF		>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,024.56	
			For Hybrid Fescue "Marathon", Add	115.12	
32 92 23 00-0008	MSF		>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,670.02	
			For Hybrid Fescue "Marathon", Add	96.22	
32 92 23 00-0009	MSF		>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,419.46	
			For Hybrid Fescue "Marathon", Add	77.32	
32 92 23 00-0010 Kentucky Blue Grass Sod (32 92 23)					
32 92 23 00-0011	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,836.51	
32 92 23 00-0012	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,503.83	
32 92 23 00-0013	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,273.79	
32 92 23 00-0014	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,093.34	
32 92 23 00-0015	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,145.07	
32 92 23 00-0016	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,766.81	
32 92 23 00-0017	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,455.22	
32 92 23 00-0018	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,247.62	

32 93 Plants (32 90)

32 93 13 Ground Covers (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

32 93 13 00-0001 Ornamental Grasses (32 93 13)

32 93 13 00-0002	EA	1	Gallon, Cortaderia selloana - Pampas Grass.....	29.65
32 93 13 00-0003	EA	2	Gallon, Cortaderia selloana - Pampas Grass.....	54.80
32 93 13 00-0004	EA	3	Gallon, Cortaderia selloana - Pampas Grass.....	99.60
32 93 13 00-0005	EA	5	Gallon, Cortaderia selloana - Pampas Grass.....	181.27
32 93 13 00-0006	EA	1	Quart, Imperata cylindrica - Japanese Blood Grass.....	22.69
32 93 13 00-0007	EA	1	Gallon, Imperata cylindrica - Japanese Blood Grass	30.18
32 93 13 00-0008	EA	2	Gallon, Imperata cylindrica - Japanese Blood Grass.....	32.30
32 93 13 00-0009	EA	1	Quart, Koeleria glauca - Blue Hair Grass.....	22.63
32 93 13 00-0010	EA	1	Gallon, Koeleria glauca - Blue Hair Grass	30.18
32 93 13 00-0011	EA	3	Gallon, Koeleria glauca - Blue Hair Grass	73.01
32 93 13 00-0012	EA	1	Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	28.65
32 93 13 00-0013	EA	3	Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	37.13
32 93 13 00-0014	EA	5	Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	70.98
32 93 13 00-0015	EA	1	Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	26.59
32 93 13 00-0016	EA	3	Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	41.80
32 93 13 00-0017	EA	5	Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	71.54
32 93 13 00-0018	EA	1	Quart, Pennisetum setaceum - Fountain Grass.....	24.75
32 93 13 00-0019	EA	1	Gallon, Pennisetum setaceum - Fountain Grass.....	62.97
32 93 13 00-0020	EA	3	Gallon, Pennisetum setaceum - Fountain Grass.....	83.01
32 93 13 00-0021	EA	1	Gallon, Saccharum ravennae - Ravenna Grass.....	78.37
32 93 13 00-0022	EA	3	Gallon, Saccharum ravennae - Ravenna Grass.....	88.03
32 93 13 00-0023	EA	7	Gallon, Saccharum ravennae - Ravenna Grass.....	145.23
32 93 13 00-0024	EA	1	Gallon, Spartina pectinata - Variegated Cord Grass.....	42.55
32 93 13 00-0025	EA	2	Gallon, Spartina pectinata - Variegated Cord Grass	63.69
32 93 13 00-0026	EA	1	Quart, Stipa gigantea - Giant Feather Grass	32.48
32 93 13 00-0027	EA	1	Gallon, Stipa gigantea - Giant Feather Grass	45.26

32 93 13 00-0028 Ground Covers (32 93 13)

32 93 13 00-0029	EA	1	Gallon Acorus gramineus - Japanese Sweet Flag.....	22.03
32 93 13 00-0030	EA	3"	Pot Ajuga reptans - Carpet Bugle.....	5.29
32 93 13 00-0031	EA	1	Quart Ajuga reptans - Carpet Bugle.....	8.81
32 93 13 00-0032	EA	1	Gallon Ajuga reptans - Carpet Bugle.....	21.15
32 93 13 00-0033	EA	24	Plant Flat Ajuga reptans - Carpet Bugle.....	91.05
32 93 13 00-0034	EA	2	Gallon Aristolochia macrophylla - Dutchman's Pipe.....	73.43
32 93 13 00-0035	EA	5	Gallon Aristolochia macrophylla - Dutchman's Pipe.....	134.52
32 93 13 00-0036	EA	1	Quart Arundo donax - Giant Reed	28.20
32 93 13 00-0037	EA	1	Gallon Arundo donax - Giant Reed.....	40.53
32 93 13 00-0038	EA	1	Quart Baccharis Pilularis - Dwarf Coyote Bush.....	8.81
32 93 13 00-0039	EA	1	Gallon Baccharis Pilularis - Dwarf Coyote Bush	15.27
32 93 13 00-0040	EA	3	Gallon Bougainvillea spectabilis - Bougainvillea.....	30.81
32 93 13 00-0041	EA	1	Gallon Campsis radicans - Trumpet Creeper.....	32.31
32 93 13 00-0042	EA	2	Gallon Campsis radicans - Trumpet Creeper.....	48.75
32 93 13 00-0043	EA	5	Gallon Campsis radicans - Trumpet Creeper.....	117.48
32 93 13 00-0044	EA	1	Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	31.13
32 93 13 00-0045	EA	1	Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge	40.53
32 93 13 00-0046	EA	1	Quart Carex hachijoensis - Variegated Japanese Sedge	15.86
32 93 13 00-0047	EA	1	Gallon Carex hachijoensis - Variegated Japanese Sedge	22.03
32 93 13 00-0048	EA	2	Gallon Carex hachijoensis - Variegated Japanese Sedge.....	34.37



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0049	EA 1 Gallon Cissus antarctica - Kangaroo Vine	17.04	
32 93 13 00-0050	EA 5 Gallon Cissus antarctica - Kangaroo Vine	53.45	
32 93 13 00-0051	EA 1 Gallon Cistaceae - Winkleleaf Rock Rose	17.04	
32 93 13 00-0052	EA 5 Gallon Cistaceae - Winkleleaf Rock Rose	58.15	
32 93 13 00-0053	EA 1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	17.04	
32 93 13 00-0054	EA 5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	61.09	
32 93 13 00-0055	EA 1 Gallon Coprosma kirkii - Prostrate Coprosma.....	14.69	
32 93 13 00-0056	EA 5 Gallon Coprosma kirkii - Prostrate Coprosma.....	53.45	
32 93 13 00-0057	EA 1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	28.78	
32 93 13 00-0058	EA 2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	54.63	
32 93 13 00-0059	EA 5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	96.33	
32 93 13 00-0060	EA 1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	18.21	
32 93 13 00-0061	EA 5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	64.03	
32 93 13 00-0062	EA 1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	20.97	
32 93 13 00-0063	EA 1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	54.35	
32 93 13 00-0064	EA 24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	91.05	
32 93 13 00-0065	EA 1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	22.91	
32 93 13 00-0066	EA 2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	45.82	
32 93 13 00-0067	EA 1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	22.34	
32 93 13 00-0068	EA 1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	12.03	
32 93 13 00-0069	EA 2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	34.37	
32 93 13 00-0070	EA 1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	18.21	
32 93 13 00-0071	EA 5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	59.91	
32 93 13 00-0072	EA 1 Gallon Gelsemium sempervirens - Carolina Jessamine	25.38	
32 93 13 00-0073	EA 5 Gallon Gelsemium sempervirens - Carolina Jessamine	91.64	
32 93 13 00-0074	EA 1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	31.13	
32 93 13 00-0075	EA 1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	46.99	
32 93 13 00-0076	EA 1 Gallon Hardenbergia violacea - Happy Wanderer	21.15	
32 93 13 00-0077	EA 5 Gallon Hardenbergia violacea - Happy Wanderer	70.49	
32 93 13 00-0078	EA 2" To 3" Pot Hedera helix - English Ivy	5.29	
32 93 13 00-0079	EA 12" To 15" Runners Hedera helix - English Ivy	8.81	
32 93 13 00-0080	EA 1 Gallon Hedera helix - English Ivy	21.15	
32 93 13 00-0081	EA 50 Plant Flat Hedera helix - English Ivy	122.18	
32 93 13 00-0082	EA 3 Gallon Hibiscus, Assorted Colors	27.54	
32 93 13 00-0083	EA 1 Gallon Hydrangea petiolaris - Climbing Hydrangea	38.18	
32 93 13 00-0084	EA 2 Gallon Hydrangea petiolaris - Climbing Hydrangea	71.66	
32 93 13 00-0085	EA 5 Gallon Hydrangea petiolaris - Climbing Hydrangea	117.48	
32 93 13 00-0086	EA 1 Gallon Hymenocallis latifolia - Spider Lily	13.67	
32 93 13 00-0087	EA 3 Gallon Hymenocallis latifolia - Spider Lily	36.47	
32 93 13 00-0088	EA 1 Quart Hypericum perforatum - St. John's Wort	8.81	
32 93 13 00-0089	EA 1 Gallon Hypericum perforatum - St. John's Wort	21.15	
32 93 13 00-0090	EA 5 Gallon Hypericum perforatum - St. John's Wort	54.63	
32 93 13 00-0091	EA 1 Quart Iberis sempervirens - Candytuft	8.81	
32 93 13 00-0092	EA 1 Gallon Iberis sempervirens - Candytuft	21.15	
32 93 13 00-0093	EA 1 Gallon Ilex cornuta - Dwarf Holly	15.95	
32 93 13 00-0094	EA 3 Gallon Ilex cornuta - Dwarf Holly	34.19	
32 93 13 00-0095	EA 1 Gallon Jasminum polyanthum - Winter Jasmine	21.15	
32 93 13 00-0096	EA 2 Gallon Jasminum polyanthum - Winter Jasmine	42.29	
32 93 13 00-0097	EA 5 Gallon Jasminum polyanthum - Winter Jasmine	73.43	
32 93 13 00-0098	EA 1 Gallon Jasminum volubile - Wax Jasmine	11.10	
32 93 13 00-0099	EA 1 Gallon Jasminum volubile - Wax Jasmine	27.54	
32 93 13 00-0100	EA 1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	13.84	
32 93 13 00-0101	EA 3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	30.81	
32 93 13 00-0102	EA 2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper	51.30	
32 93 13 00-0103	EA 1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper	23.90	
32 93 13 00-0104	EA 1 Gallon Juniperus Horizontalis - Prostrate Juniper	24.08	
32 93 13 00-0105	EA 3 Gallon Juniperus Horizontalis - Prostrate Juniper	51.69	
32 93 13 00-0106	EA 5 Gallon Juniperus Horizontalis - Prostrate Juniper	76.36	
32 93 13 00-0107	EA 1 Gallon Lantana spp. Various Colors	12.47	
32 93 13 00-0108	EA 4" Pot Lantana camera - Common Lantana.....	5.29	
32 93 13 00-0109	EA 1 Gallon Lantana camera - Common Lantana.....	15.27	
32 93 13 00-0110	EA 1 Gallon Lantana sellowiana - Trailing Lantana.....	8.20	
32 93 13 00-0111	EA 4" Pot Lavandula angustifolia - English Lavender.....	7.64	
32 93 13 00-0112	EA 1 Quart Lavandula angustifolia - English Lavender	14.69	
32 93 13 00-0113	EA 1 Gallon Lavandula angustifolia - English Lavender	24.08	
32 93 13 00-0114	EA 1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	12.47	
32 93 13 00-0115	EA 1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	15.73	
32 93 13 00-0116	EA 3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	25.15	
32 93 13 00-0117	EA 1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope	9.86	
32 93 13 00-0118	EA 1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	24.08	
32 93 13 00-0119	EA 2 Quart Liriope spicata - Creeping Lilyturf	15.27	
32 93 13 00-0120	EA 1 Gallon Liriope spicata - Creeping Lilyturf	27.61	
32 93 13 00-0121	EA 5 Gallon Liriope spicata - Creeping Lilyturf	58.15	
32 93 13 00-0122	EA Bare Root Liriope spicata - Creeping Liriope	3.85	
32 93 13 00-0123	EA 1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	24.08	
32 93 13 00-0124	EA 2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	45.82	
32 93 13 00-0125	EA 3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	5.29	
32 93 13 00-0126	EA 1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	24.08	
32 93 13 00-0127	EA 2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	45.82	
32 93 13 00-0128	EA 2 Quart Lysimachia nummularia - Creeping Jenny	8.81	
32 93 13 00-0129	EA 1 Gallon Lysimachia nummularia - Creeping Jenny	17.04	

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0130	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine	21.15	
32 93 13 00-0131	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine	91.64	
32 93 13 00-0132	EA	1 Quart Moss Phlox, Creeping Phlox	8.81	
32 93 13 00-0133	EA	1 Gallon Moss Phlox, Creeping Phlox	21.15	
32 93 13 00-0134	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern	11.10	
32 93 13 00-0135	EA	1 Quart Nepeta mussinii - Persian Catmint	8.81	
32 93 13 00-0136	EA	1 Gallon Nepeta mussinii - Persian Catmint	18.21	
32 93 13 00-0137	EA	4" Pot Ophiopogon Japonicus - Mondo grass	5.29	
32 93 13 00-0138	EA	1 Gallon Ophiopogon Japonicus - Mondo grass	21.15	
32 93 13 00-0139	EA	5 Gallon Ophiopogon Japonicus - Mondo grass	48.75	
32 93 13 00-0140	EA	2' To 3' High Oregon Holly-Grape	24.41	
32 93 13 00-0141	EA	1 Gallon Pachysandra terminalis - Pachysandra	31.80	
32 93 13 00-0142	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy	11.75	
32 93 13 00-0143	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy	26.79	
32 93 13 00-0144	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy	73.31	
32 93 13 00-0145	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper	5.29	
32 93 13 00-0146	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper	27.61	
32 93 13 00-0147	EA	1 Gallon Ranunculaceae - Clematis Varieties	30.35	
32 93 13 00-0148	EA	2 Gallon Ranunculaceae - Clematis Varieties	56.13	
32 93 13 00-0149	EA	3 Gallon Rhabdiopsis umbellata 'Minor' - Dwarf Indian Hawthorn	34.19	
32 93 13 00-0150	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	5.29	
32 93 13 00-0151	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	21.15	
32 93 13 00-0152	EA	2-1/4" Pot Securigera varia - Crown Vetch	3.52	
32 93 13 00-0153	EA	50 Plant Flat Securigera varia - Crown Vetch	119.24	
32 93 13 00-0154	EA	1 Quart Senecio cineraria - Dusty Miller	8.81	
32 93 13 00-0155	EA	1 Gallon Senecio cineraria - Dusty Miller	21.15	
32 93 13 00-0156	EA	1 Quart Stachys byzantina - Lamb's Ear	8.81	
32 93 13 00-0157	EA	1 Quart Stachys byzantina - Lamb's Ear	21.15	
32 93 13 00-0158	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	11.40	
32 93 13 00-0159	EA	1 Gallon Tradescantia spathacea - Rhoecol Discolor "Dwarf"	11.10	
32 93 13 00-0160	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum	74.34	
32 93 13 00-0161	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena	11.16	
32 93 13 00-0162	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	17.04	
32 93 13 00-0163	EA	2-1/4" Pot Vinca minor - Periwinkle	2.94	
32 93 13 00-0164	EA	4" Pot Vinca minor - Periwinkle	8.81	
32 93 13 00-0165	EA	Bare Root Vinca minor - Periwinkle	2.94	
32 93 13 00-0166	EA	48 Plant Flat Vinca minor - Lesser Periwinkle	104.70	
32 93 13 00-0167	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle	2.94	
32 93 13 00-0168	EA	4" Pot Vinca major - Variegated Greater Periwinkle	8.81	
32 93 13 00-0169	EA	Bare Root Vinca major - Variegated Greater Periwinkle	2.94	
32 93 13 00-0170	EA	1 Quart Waldsteinia ternata - Barren Strawberry	8.81	
32 93 13 00-0171	EA	1 Gallon Waldsteinia ternata - Barren Strawberry	21.15	
32 93 13 00-0172	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine	27.61	
32 93 13 00-0173	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine	61.09	
32 93 13 00-0174	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine	91.63	
32 93 13 00-0175	EA	Flat Hedera canariensis - Algerian Ivy	20.12	
32 93 13 00-0176	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy	5.31	
32 93 13 00-0177	EA	Flat Gazania 'Copper King'	16.50	
32 93 13 00-0178	EA	1 Gallon Gazania 'Copper King'	5.63	
32 93 13 00-0179	EA	Flat Myoporum parvifolium - Myoporum	20.12	
32 93 13 00-0180	EA	1 Gallon Myoporum parvifolium - Myoporum	5.63	
32 93 13 00-0181	EA	5 Gallon Myoporum parvifolium - Myoporum	16.09	
32 93 13 00-0182	EA	1 Gallon Lantana montevidensis - Purple Lantana	5.63	
32 93 13 00-0183	EA	5 Gallon Lantana montevidensis - Purple Lantana	16.09	
32 93 13 00-0184	EA	Flat Carpobrotus - Ice Plant	15.29	
32 93 13 00-0185	EA	1 Gallon Carpobrotus - Ice Plant	6.44	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies	17.03	
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies	24.08	
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies	39.94	
32 93 23 00-0005	EA	1 Quart Azure Penstemon	8.81	
32 93 23 00-0006	EA	1 Gallon Azure Penstemon	22.03	
32 93 23 00-0007	EA	1 Quart Balloon Flower	8.81	
32 93 23 00-0008	EA	1 Gallon Balloon Flower	22.03	
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	8.81	
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan	22.03	
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	28.49	
32 93 23 00-0012	EA	1 Quart Blackberry Lily	8.81	
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	22.03	
32 93 23 00-0014	EA	1 Quart Blank Flower	8.81	
32 93 23 00-0015	EA	1 Gallon Blank Flower	20.27	
32 93 23 00-0016	EA	2 Gallon Blank Flower	28.49	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	8.81	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	22.03	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium	14.98	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	25.26	
32 93 23 00-0021	EA	1 Quart Blue Plumbago	8.81	



Exterior Improvements			32
Planting			32 90
Plants			32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0022 EA 1 Gallon Blue Plumbago	22.03	
32 93 23 00-0023 EA 1 Quart Blue Star	15.86	
32 93 23 00-0024 EA 1 Gallon Blue Star	25.26	
32 93 23 00-0025 EA 1 Quart Cardinal Flower	8.81	
32 93 23 00-0026 EA 1 Gallon Cardinal Flower	22.03	
32 93 23 00-0027 EA 4" Pot Columbine	5.29	
32 93 23 00-0028 EA 1 Quart Columbine	8.81	
32 93 23 00-0029 EA 1 Gallon Columbine	22.03	
32 93 23 00-0030 EA 1 Quart Common Globefflower	8.81	
32 93 23 00-0031 EA 1 Gallon Common Globefflower	22.03	
32 93 23 00-0032 EA 1 Quart Cottage Pink, Scotch Pink	8.81	
32 93 23 00-0033 EA 1 Quart Cottage Pink, Scotch Pink	22.03	
32 93 23 00-0034 EA 1 Gallon Astilbe 'Deutschland'	31.72	
32 93 23 00-0035 EA 1 Quart Diploid	11.16	
32 93 23 00-0036 EA 1 Gallon Diploid	25.26	
32 93 23 00-0037 EA 3 Gallon Diploid	43.47	
32 93 23 00-0038 EA 4" Pot Dune Sunflower	12.58	
32 93 23 00-0039 EA 1 Quart Evans Begonia	15.86	
32 93 23 00-0040 EA 1 Gallon Evans Begonia	28.49	
32 93 23 00-0041 EA 1 Quart False Dragonhead	8.81	
32 93 23 00-0042 EA 1 Gallon False Dragonhead	22.03	
32 93 23 00-0043 EA 1 Quart False Spirea	8.81	
32 93 23 00-0044 EA 1 Gallon False Spirea	28.49	
32 93 23 00-0045 EA 3 Gallon False Spirea	39.36	
32 93 23 00-0046 EA 2 Quart False Sunflower	14.10	
32 93 23 00-0047 EA 1 Gallon False Sunflower	22.03	
32 93 23 00-0048 EA 2 Gallon False Sunflower	28.49	
32 93 23 00-0049 EA 1 Gallon Foxglove	20.27	
32 93 23 00-0050 EA 2 Gallon Foxglove	28.49	
32 93 23 00-0051 EA 3 Gallon Foxglove	41.12	
32 93 23 00-0052 EA 1 Gallon Francee Hostas	35.67	
32 93 23 00-0053 EA 1 Quart Garden Phlox	8.81	
32 93 23 00-0054 EA 1 Gallon Garden Phlox	22.03	
32 93 23 00-0055 EA 2 Quart Golden Groundsel	18.80	
32 93 23 00-0056 EA 2 Gallon Golden Groundsel	37.89	
32 93 23 00-0057 EA 1 Quart Golden Star	8.81	
32 93 23 00-0058 EA 1 Gallon Golden Star	22.03	
32 93 23 00-0059 EA 1 Quart Goldenrod	8.81	
32 93 23 00-0060 EA 1 Gallon Goldenrod	22.03	
32 93 23 00-0061 EA 1 Gallon Happy Returns Daylillies	41.02	
32 93 23 00-0062 EA 4" Pot Hardy Aster, Michaelmas Daisy	5.29	
32 93 23 00-0063 EA 1 Quart Hardy Aster, Michaelmas Daisy	8.81	
32 93 23 00-0064 EA 1 Gallon Hardy Aster, Michaelmas Daisy	22.03	
32 93 23 00-0065 EA 1 Quart Hardy Chrysanthemum	7.64	
32 93 23 00-0066 EA 6" To 8" Pot Hardy Chrysanthemum	12.63	
32 93 23 00-0067 EA 1 Gallon Hardy Chrysanthemum	20.27	
32 93 23 00-0068 EA 1 Gallon Herbaceous Peony	31.43	
32 93 23 00-0069 EA 2 Gallon Herbaceous Peony	50.22	
32 93 23 00-0070 EA 3 Gallon Herbaceous Peony	66.09	
32 93 23 00-0071 EA 4" Pot Japanese Anemone	5.29	
32 93 23 00-0072 EA 1 Quart Japanese Anemone	15.86	
32 93 23 00-0073 EA 2 Gallon Japanese Anemone	28.49	
32 93 23 00-0074 EA 2" Pot Japanese Spurge	3.13	
32 93 23 00-0075 EA 6" Pot Japanese Spurge	4.70	
32 93 23 00-0076 EA 1 Gallon Japanese Spurge	20.24	
32 93 23 00-0077 EA 1 Quart Oriental Poppy	12.63	
32 93 23 00-0078 EA 1 Gallon Oriental Poppy	25.26	
32 93 23 00-0079 EA 48 Plant Flat Pachysandra terminalis	104.70	
32 93 23 00-0080 EA 1 Gallon Pacific Coast Iris	17.33	
32 93 23 00-0081 EA 3 Gallon Pacific Coast Iris	32.90	
32 93 23 00-0082 EA 1 Gallon Palace Purple Coral Bells	33.35	
32 93 23 00-0083 EA 4" Pot Perennial Salvia	5.29	
32 93 23 00-0084 EA 1 Quart Perennial Salvia	8.81	
32 93 23 00-0085 EA 1 Gallon Perennial Salvia	22.03	
32 93 23 00-0086 EA 1 Quart Pincushion Flower	8.81	
32 93 23 00-0087 EA 1 Gallon Pincushion Flower	22.03	
32 93 23 00-0088 EA 2 Quart Plantain Lily	17.03	
32 93 23 00-0089 EA 1 Gallon Plantain Lily	24.08	
32 93 23 00-0090 EA 2 Gallon Plantain Lily	39.94	
32 93 23 00-0091 EA 3 Gallon Plantain Lily	75.49	
32 93 23 00-0092 EA 2 Quart Purple Coneflower	15.86	
32 93 23 00-0093 EA 1 Gallon Purple Coneflower	22.03	
32 93 23 00-0094 EA 2 Gallon Purple Coneflower	28.49	
32 93 23 00-0095 EA 1 Quart Purple Loosestrife	8.81	
32 93 23 00-0096 EA 1 Gallon Purple Loosestrife	22.03	
32 93 23 00-0097 EA 1 Quart Rose Mallow	17.33	
32 93 23 00-0098 EA 2 Gallon Rose Mallow	31.43	
32 93 23 00-0099 EA 3 Gallon Rose Mallow	53.75	
32 93 23 00-0100 EA 1 Gallon Autumn Joy Sedum	33.58	
32 93 23 00-0101 EA 1 Quart Siberian Iris	14.98	
32 93 23 00-0102 EA 2 Gallon Siberian Iris	28.49	

32 Exterior Improvements
32 90 Planting
32 93 Plants


MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 93	23 00-0103	EA 3 Gallon Siberian Iris.....	39.36	
	32 93	23 00-0104	EA 1 Quart Speedwell.....	8.81	
	32 93	23 00-0105	EA 1 Gallon Speedwell.....	22.03	
	32 93	23 00-0106	EA 1 Quart Tetraploid.....	22.03	
	32 93	23 00-0107	EA 1 Gallon Tetraploid.....	41.12	
	32 93	23 00-0108	EA 3 Gallon Tetraploid.....	56.10	
	32 93	23 00-0109	EA 1 Quart Threadleaf Coreopsis.....	8.81	
	32 93	23 00-0110	EA 1 Gallon Threadleaf Coreopsis.....	22.03	
	32 93	23 00-0111	EA 1 Quart Torch Lily.....	8.81	
	32 93	23 00-0112	EA 1 Quart Bluebeard.....	15.86	
	32 93	23 00-0113	EA 1 Gallon Bluebeard.....	23.50	
	32 93	23 00-0114	EA 2 Gallon Bluebeard.....	34.36	
	32 93	23 00-0115	Annuals (32 93 23)		
		32 93 23 00-0116	EA 2-1/2" Pot Annual Flowers.....	4.09	
		32 93 23 00-0117	EA 3" Pot Annual Flowers.....	5.53	
		32 93 23 00-0118	EA 4" Pot Annual Flowers.....	11.82	
		32 93 23 00-0119	EA 5-1/2" Pot Annual Flowers.....	15.72	
		32 93 23 00-0120	EA 6" Pot Annual Flowers.....	31.13	
		32 93 23 00-0121	EA 8" Pot Annual Flowers.....	51.88	
		32 93 23 00-0122	EA 36 Plant Flat Annual Flowers.....	67.91	
		32 93 23 00-0123	EA 48 Plant Flat Annual Flowers.....	77.03	
	32 93	23 00-0124	Bulbs (32 93 23)		
		32 93 23 00-0125	EA Top Size Allium giganteum - Giant Ornamental Onion.....	14.22	
		32 93 23 00-0126	EA Top Size Allium sphaerocephalum - Drumstick Ornamental Onion.....	0.82	
		32 93 23 00-0127	EA Top Size Crocus Hybrid.....	0.93	
		32 93 23 00-0128	EA Top Size Eranthis hyemalis - Winter Aconite.....	1.20	
		32 93 23 00-0129	EA Top Size Galanthus nivalis - Snowdrops.....	1.53	
		32 93 23 00-0130	EA Top Size Iris reticulata cvs - Dutch Iris.....	0.60	
		32 93 23 00-0131	EA Top Size Muscari armeniacum - Grape Hyacinth.....	0.71	
		32 93 23 00-0132	EA Top Size Muscari latifolium - Grape Hyacinth.....	0.82	
		32 93 23 00-0133	EA Narcissus 'Carlton' - Carlton Daffodil DNI.....	4.92	
		32 93 23 00-0134	EA Narcissus 'Dutch Master' - Dutch Master Daffodil DNI.....	2.35	
		32 93 23 00-0135	EA Narcissus 'February Gold' - February Gold Daffodil DNI.....	2.46	
		32 93 23 00-0136	EA Narcissus 'Ice Follies' - Ice Follies Daffodil DNI.....	2.46	
		32 93 23 00-0137	EA Narcissus 'Mount Hood' - Mount Hood Daffodil DNI.....	2.57	
		32 93 23 00-0138	EA Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI.....	2.73	
		32 93 23 00-0139	EA Narcissus 'Pipit' - Pipit Daffodil DNI.....	2.57	
		32 93 23 00-0140	EA Narcissus 'Salome' - Salome Daffodil DNI.....	2.41	
		32 93 23 00-0141	EA Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI.....	2.57	
		32 93 23 00-0142	EA Narcissus 'Thalia' - Thalia Daffodil DNI.....	2.57	
		32 93 23 00-0143	EA Top Size Scilla siberica - Siberian Squill.....	0.77	
		32 93 23 00-0144	EA Top Size Tulip 'Angelique' - Angelique Tulip.....	2.19	
		32 93 23 00-0145	EA Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip.....	1.64	
		32 93 23 00-0146	EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip.....	2.19	
		32 93 23 00-0147	EA Top Size Tulip 'Big Smile' - Big Smile Tulip.....	1.91	
		32 93 23 00-0148	EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip.....	2.73	
		32 93 23 00-0149	EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip.....	2.08	
		32 93 23 00-0150	EA Top Size Tulip 'Cardinal' - Cardinal Tulip.....	1.80	
		32 93 23 00-0151	EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip.....	2.02	
		32 93 23 00-0152	EA Top Size Tulip clusiana - Species Tulip.....	2.02	
		32 93 23 00-0153	EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip.....	2.02	
		32 93 23 00-0154	EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip.....	1.64	
		32 93 23 00-0155	EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip.....	1.59	
		32 93 23 00-0156	EA Top Size Tulip 'Halcro' - Halcro Tulip.....	1.64	
		32 93 23 00-0157	EA Top Size Tulip 'Ivory Floradale' - Ivory Floradale Tulip.....	2.73	
		32 93 23 00-0158	EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip.....	1.64	
		32 93 23 00-0159	EA Top Size Tulip 'Passionale' - Passionale Tulip.....	2.19	
		32 93 23 00-0160	EA Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip.....	2.35	
		32 93 23 00-0161	EA Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip.....	2.46	
		32 93 23 00-0162	EA Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip.....	1.97	
		32 93 23 00-0163	EA Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip.....	1.86	
		32 93 23 00-0164	EA Top Size Tulip praeatens 'Fusilier' - Praetens Fusilier Tulip.....	2.02	
		32 93 23 00-0165	EA Top Size Tulip 'Princes' - Princes Tulip.....	2.02	
		32 93 23 00-0166	EA Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip.....	1.59	
		32 93 23 00-0167	EA Top Size Tulip saxatilis - Species Tulip.....	1.09	
		32 93 23 00-0168	EA Top Size Tulip 'Shirley' - Shirley Tulip.....	1.64	
		32 93 23 00-0169	EA Top Size Tulip 'Spring Green' - Spring Green Tulip.....	2.13	
		32 93 23 00-0170	EA Top Size Tulip 'White Emperor' - White Emperor Tulip.....	1.64	
	32 93	33	Shrubs (32 93)		
			Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.		
	32 93	33 00-0001	Shrubs (32 93 33)		
		32 93 33 00-0002	EA 1 Gallon Abelia x grandiflora - Abelia.....	12.07	
		32 93 33 00-0003	EA 3 Gallon Abelia x grandiflora - Abelia.....	24.57	
		32 93 33 00-0004	EA 5 Gallon Abelia x grandiflora - Abelia.....	47.17	



Exterior Improvements			32
Planting			32 90
Plants			32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0005 EA 1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	7.48	
32 93 33 00-0006 EA 5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	18.51	
32 93 33 00-0007 EA 15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	73.46	
32 93 33 00-0008 EA 3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	84.79	
32 93 33 00-0009 EA 18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	123.92	
32 93 33 00-0010 EA 24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	138.27	
32 93 33 00-0011 EA 30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	174.79	
32 93 33 00-0012 EA 36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	194.36	
32 93 33 00-0013 EA 18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	39.13	
32 93 33 00-0014 EA 24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	52.18	
32 93 33 00-0015 EA 30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	65.22	
32 93 33 00-0016 EA 1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	7.48	
32 93 33 00-0017 EA 5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	18.51	
32 93 33 00-0018 EA 36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	36.02	
32 93 33 00-0019 EA 42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	42.38	
32 93 33 00-0020 EA 48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	50.85	
32 93 33 00-0021 EA 60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	59.33	
32 93 33 00-0022 EA 72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	72.04	
32 93 33 00-0023 EA 36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	34.96	
32 93 33 00-0024 EA 42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	37.08	
32 93 33 00-0025 EA 48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	39.20	
32 93 33 00-0026 EA 60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	44.49	
32 93 33 00-0027 EA 36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	35.49	
32 93 33 00-0028 EA 42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	37.61	
32 93 33 00-0029 EA 48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	39.73	
32 93 33 00-0030 EA 60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	41.85	
32 93 33 00-0031 EA 1 Gallon Aspidistra elatior - Cast Iron Plant.....	7.28	
32 93 33 00-0032 EA 2 Gallon Aspidistra elatior - Cast Iron Plant.....	16.84	
32 93 33 00-0033 EA 1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	8.54	
32 93 33 00-0034 EA 3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	18.78	
32 93 33 00-0035 EA 5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	25.38	
32 93 33 00-0036 EA 1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	7.48	
32 93 33 00-0037 EA 5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	18.51	
32 93 33 00-0038 EA 1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	7.48	
32 93 33 00-0039 EA 5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	18.51	
32 93 33 00-0040 EA 1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	9.10	
32 93 33 00-0041 EA 2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	13.32	
32 93 33 00-0042 EA 15" To 18" Berberis - Northern Bayberry	38.01	
32 93 33 00-0043 EA 2' To 2-1/2' Berberis - Northern Bayberry	48.25	
32 93 33 00-0044 EA 2-1/2' To 3' Berberis - Northern Bayberry	67.60	
32 93 33 00-0045 EA 1 Gallon Berberis Buxifolia 'Nana' - Barberry.....	8.45	
32 93 33 00-0046 EA 5 Gallon Berberis Buxifolia 'Nana' - Barberry.....	20.36	
32 93 33 00-0047 EA 18" To 24" Berberis julianae - Dwarf Wintergreen Barberry.....	40.63	
32 93 33 00-0048 EA 2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry.....	52.01	
32 93 33 00-0049 EA 2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry.....	66.46	
32 93 33 00-0050 EA 1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	10.93	
32 93 33 00-0051 EA 2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	21.51	
32 93 33 00-0052 EA 3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	26.29	
32 93 33 00-0053 EA 1 Gallon Berberis x mentorensis - Mentor Barberry	10.36	
32 93 33 00-0054 EA 5 Gallon Berberis x mentorensis - Mentor Barberry.....	29.25	
32 93 33 00-0055 EA 2' To 3' Berberis x mentorensis - Mentor Barberry.....	40.63	
32 93 33 00-0056 EA 3' To 4' Berberis x mentorensis - Mentor Barberry.....	62.71	
32 93 33 00-0057 EA 1 Gallon Buxus microphylla japonica - Japanese Boxwood.....	11.84	
32 93 33 00-0058 EA 5 Gallon Buxus microphylla japonica - Japanese Boxwood.....	31.75	
32 93 33 00-0059 EA 12" To 15" Buxus microphylla japonica - Japanese Boxwood	33.80	
32 93 33 00-0060 EA 15" To 18" Buxus microphylla japonica - Japanese Boxwood	43.47	
32 93 33 00-0061 EA 18" To 24" Buxus microphylla japonica - Japanese Boxwood	57.93	
32 93 33 00-0062 EA 24" To 30" Buxus microphylla japonica - Japanese Boxwood	86.95	
32 93 33 00-0063 EA 30" To 36" Buxus microphylla japonica - Japanese Boxwood	120.75	
32 93 33 00-0064 EA 12" To 15" Buxus sempervirens - Common Boxwood	33.80	
32 93 33 00-0065 EA 15" To 18" Buxus sempervirens - Common Boxwood	43.47	
32 93 33 00-0066 EA 18" To 24" Buxus sempervirens - Common Boxwood	57.93	
32 93 33 00-0067 EA 24" To 30" Buxus sempervirens - Common Boxwood	86.95	
32 93 33 00-0068 EA 2 Gallon Buxus Hybrid - Boxwood Cultivars	22.25	
32 93 33 00-0069 EA 5 Gallon Buxus Hybrid - Boxwood Cultivars	37.08	
32 93 33 00-0070 EA 5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	97.46	
32 93 33 00-0071 EA 18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	52.97	
32 93 33 00-0072 EA 24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	72.04	
32 93 33 00-0073 EA 30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	97.46	
32 93 33 00-0074 EA 1 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	6.72	
32 93 33 00-0075 EA 5 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	20.67	
32 93 33 00-0076 EA 15 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	67.18	
32 93 33 00-0077 EA 5 Gallon Calycanthus floridus - Common Sweetshrub.....	34.96	
32 93 33 00-0078 EA 30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	31.78	
32 93 33 00-0079 EA 36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	42.38	
32 93 33 00-0080 EA 1 Gallon Camellia "Sasanqua" - Camellia.....	12.89	
32 93 33 00-0081 EA 3 Gallon Camellia "Sasanqua" - Camellia.....	27.50	
32 93 33 00-0082 EA 5 Gallon Camellia "Sasanqua" - Camellia.....	45.72	
32 93 33 00-0083 EA 7 Gallon Camellia "Sasanqua" - Camellia.....	68.08	
32 93 33 00-0084 EA 15 Gallon Camellia "Sasanqua" - Camellia.....	176.64	
32 93 33 00-0085 EA 1 Gallon Camellia japonica - Camellia.....	12.89	

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
				UNIT COST	UNIT COST
32 93 33 00-0086	EA	3	Gallon Camellia japonica - Camellia	27.50	
32 93 33 00-0087	EA	5	Gallon Camellia japonica - Camellia	45.72	
32 93 33 00-0088	EA	5	Gallon Ceanothus americanus - New Jersey Tea.....	34.96	
32 93 33 00-0089	EA	1	Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	8.45	
32 93 33 00-0090	EA	5	Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	21.97	
32 93 33 00-0091	EA	5	Gallon Celastrus scandens - Bittersweet	34.96	
32 93 33 00-0092	EA	36"	Balled and Burlapped, Celastrus scandens - Bittersweet	29.66	
32 93 33 00-0093	EA	5	Gallon Cephalanthus occidentalis - Buttonbush	34.96	
32 93 33 00-0094	EA	24"	Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	26.48	
32 93 33 00-0095	EA	30"	Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	29.66	
32 93 33 00-0096	EA	36"	Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	31.78	
32 93 33 00-0097	EA	18"	To 24" Chaenomeles speciosa - Flowering Quince	30.50	
32 93 33 00-0098	EA	2'	To 3' Chaenomeles speciosa - Flowering Quince	40.63	
32 93 33 00-0099	EA	3'	To 4' Chaenomeles speciosa - Flowering Quince	62.71	
32 93 33 00-0100	EA	1	Gallon Cistus Hybridus - White Rockrose	7.48	
32 93 33 00-0101	EA	5	Gallon Cistus Hybridus - White Rockrose	18.51	
32 93 33 00-0102	EA	3	Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	33.90	
32 93 33 00-0103	EA	18"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	36.55	
32 93 33 00-0104	EA	24"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	40.79	
32 93 33 00-0105	EA	30"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	42.91	
32 93 33 00-0106	EA	36"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	50.32	
32 93 33 00-0107	EA	1	Gallon Coleonema Pulchellum - Confetti Bush	7.48	
32 93 33 00-0108	EA	5	Gallon Coleonema Pulchellum - Confetti Bush	18.51	
32 93 33 00-0109	EA	15	Gallon Coleonema Pulchellum - Confetti Bush	86.66	
32 93 33 00-0110	EA	2'	To 3' Cornus mas - Cornelian Cherry	48.25	
32 93 33 00-0111	EA	3'	To 4' Cornus mas - Cornelian Cherry	60.32	
32 93 33 00-0112	EA	4'	To 5' Cornus mas - Cornelian Cherry	77.28	
32 93 33 00-0113	EA	5'	To 6' Cornus mas - Cornelian Cherry	106.18	
32 93 33 00-0114	EA	5	Gallon Cornus alba & cvs - Tartarian Dogwood.....	31.78	
32 93 33 00-0115	EA	36"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	22.25	
32 93 33 00-0116	EA	48"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	25.43	
32 93 33 00-0117	EA	60"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	31.78	
32 93 33 00-0118	EA	72"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	38.14	
32 93 33 00-0119	EA	36"	Balled and Burlapped, Cornus amomum - Silky Dogwood	31.78	
32 93 33 00-0120	EA	5	Gallon Cornus obliqua - Blue Fruited Dogwood.....	34.96	
32 93 33 00-0121	EA	5	Gallon Cornus racemosa - Gray Dogwood	34.96	
32 93 33 00-0122	EA	36"	Balled and Burlapped, Cornus racemosa - Gray Dogwood	31.78	
32 93 33 00-0123	EA	48"	Balled and Burlapped, Cornus racemosa - Gray Dogwood	37.08	
32 93 33 00-0124	EA	60"	Balled and Burlapped, Cornus racemosa - Gray Dogwood	40.26	
32 93 33 00-0125	EA	72"	Balled and Burlapped, Cornus racemosa - Gray Dogwood	48.73	
32 93 33 00-0126	EA	36"	Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	34.43	
32 93 33 00-0127	EA	48"	Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	38.67	
32 93 33 00-0128	EA	60"	Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	43.96	
32 93 33 00-0129	EA	24"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	27.54	
32 93 33 00-0130	EA	30"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	31.78	
32 93 33 00-0131	EA	36"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	33.90	
32 93 33 00-0132	EA	48"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	37.08	
32 93 33 00-0133	EA	60"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	41.32	
32 93 33 00-0134	EA	5	Gallon Corylus americana - American Filbert	32.84	
32 93 33 00-0135	EA	30"	Balled and Burlapped, Corylus americana - American Filbert	37.08	
32 93 33 00-0136	EA	36"	Balled and Burlapped, Corylus americana - American Filbert	39.73	
32 93 33 00-0137	EA	48"	Balled and Burlapped, Corylus americana - American Filbert	42.91	
32 93 33 00-0138	EA	24"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	105.94	
32 93 33 00-0139	EA	30"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	137.72	
32 93 33 00-0140	EA	36"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	148.31	
32 93 33 00-0141	EA	42"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	190.69	
32 93 33 00-0142	EA	48"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	233.07	
32 93 33 00-0143	EA	60"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	264.85	
32 93 33 00-0144	EA	5'	To 6' Cotinus coggygria - Smoke Tree	101.40	
32 93 33 00-0145	EA	6'	To 8' Cotinus coggygria - Smoke Tree	152.05	
32 93 33 00-0146	EA	8'	To 10' Cotinus coggygria - Smoke Tree	229.32	
32 93 33 00-0147	EA	5	Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	26.48	
32 93 33 00-0148	EA	18"	Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	26.48	
32 93 33 00-0149	EA	24"	Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	27.54	
32 93 33 00-0150	EA	12"	To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster.....	25.38	
32 93 33 00-0151	EA	3	Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	27.54	
32 93 33 00-0152	EA	18"	Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	26.48	
32 93 33 00-0153	EA	24"	Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	27.54	
32 93 33 00-0154	EA	1	Gallon Cotoneaster divaricatus - Spreading Cotoneaster	10.93	
32 93 33 00-0155	EA	2'	To 3' Cotoneaster divaricatus - Spreading Cotoneaster	33.80	
32 93 33 00-0156	EA	3'	To 4' Cotoneaster divaricatus - Spreading Cotoneaster	45.64	
32 93 33 00-0157	EA	4'	To 5' Cotoneaster divaricatus - Spreading Cotoneaster	77.28	
32 93 33 00-0158	EA	1	Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	7.48	
32 93 33 00-0159	EA	5	Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	18.51	
32 93 33 00-0160	EA	1	Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	10.93	
32 93 33 00-0161	EA	2	Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	21.51	
32 93 33 00-0162	EA	1	Gallon Cotoneaster lacteus - Red Clusterberry.....	7.48	
32 93 33 00-0163	EA	5	Gallon Cotoneaster lacteus - Red Clusterberry.....	18.51	
32 93 33 00-0164	EA	15	Gallon Cotoneaster lacteus - Red Clusterberry.....	73.46	
32 93 33 00-0165	EA	1	Gallon Dendromecon harfordii - Island Bush Poppy	17.23	
32 93 33 00-0166	EA	5	Gallon Dendromecon harfordii - Island Bush Poppy	43.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0167	EA		18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	27.01	
32 93 33 00-0168	EA		24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	29.66	
32 93 33 00-0169	EA		30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	38.14	
32 93 33 00-0170	EA		36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	44.49	
32 93 33 00-0171	EA		42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	50.85	
32 93 33 00-0172	EA		24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle.....	42.38	
32 93 33 00-0173	EA		30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle.....	50.85	
32 93 33 00-0174	EA		36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle.....	59.33	
32 93 33 00-0175	EA		2 Gallon Diervilla splendens - Splendens Bush Honeysuckle.....	15.89	
32 93 33 00-0176	EA		36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle.....	38.14	
32 93 33 00-0177	EA		48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle.....	50.85	
32 93 33 00-0178	EA		5 Gallon Elaeagnus angustifolia - Russian Olive.....	18.51	
32 93 33 00-0179	EA		1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	7.48	
32 93 33 00-0180	EA		5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	18.51	
32 93 33 00-0181	EA		15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	73.46	
32 93 33 00-0182	EA		1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	7.48	
32 93 33 00-0183	EA		5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	18.51	
32 93 33 00-0184	EA		15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	73.46	
32 93 33 00-0185	EA		3' To 4' Elaeagnus umbellata - Autumn Olive.....	31.64	
32 93 33 00-0186	EA		4' To 5' Elaeagnus umbellata - Autumn Olive.....	43.47	
32 93 33 00-0187	EA		5' To 6' Elaeagnus umbellata - Autumn Olive.....	52.01	
32 93 33 00-0188	EA		3' To 4' Elaeagnus angustifolia - Russian Olive.....	50.64	
32 93 33 00-0189	EA		1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	7.48	
32 93 33 00-0190	EA		5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	18.51	
32 93 33 00-0191	EA		15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	73.46	
32 93 33 00-0192	EA		1 Gallon Euonymus - Gold Spot.....	9.11	
32 93 33 00-0193	EA		2 Gallon Euonymus - Gold Spot.....	19.12	
32 93 33 00-0194	EA		5 Gallon Euonymus - Gold Spot.....	26.29	
32 93 33 00-0195	EA		1 Gallon Euonymus alatus - Winged Euonymus.....	7.77	
32 93 33 00-0196	EA		3 Gallon Euonymus alatus - Winged Euonymus.....	22.42	
32 93 33 00-0197	EA		24" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	30.21	
32 93 33 00-0198	EA		30" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	37.77	
32 93 33 00-0199	EA		36" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	51.90	
32 93 33 00-0200	EA		42" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	64.08	
32 93 33 00-0201	EA		48" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	75.53	
32 93 33 00-0202	EA		54" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	97.46	
32 93 33 00-0203	EA		5 Gallon Euonymus alatus - Winged Euonymus.....	28.02	
32 93 33 00-0204	EA		60" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	121.83	
32 93 33 00-0205	EA		30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	47.67	
32 93 33 00-0206	EA		36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	56.68	
32 93 33 00-0207	EA		42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	74.16	
32 93 33 00-0208	EA		48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	88.99	
32 93 33 00-0209	EA		60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	110.18	
32 93 33 00-0210	EA		18" To 24" Euonymus alatus - Winged Burning Bush.....	33.80	
32 93 33 00-0211	EA		2' To 2-1/2' Euonymus alatus - Winged Burning Bush.....	39.83	
32 93 33 00-0212	EA		2-1/2' To 3' Euonymus alatus - Winged Burning Bush.....	54.40	
32 93 33 00-0213	EA		3' To 3-1/2' Euonymus alatus - Winged Burning Bush.....	65.21	
32 93 33 00-0214	EA		3-1/2' To 4' Euonymus alatus - Winged Burning Bush.....	82.06	
32 93 33 00-0215	EA		4' To 5' Euonymus alatus - Winged Burning Bush.....	115.86	
32 93 33 00-0216	EA		5' To 6' Euonymus alatus - Winged Burning Bush.....	144.88	
32 93 33 00-0217	EA		6' To 8' Euonymus alatus - Winged Burning Bush.....	169.00	
32 93 33 00-0218	EA		15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	33.80	
32 93 33 00-0219	EA		18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	38.58	
32 93 33 00-0220	EA		2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	47.12	
32 93 33 00-0221	EA		2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	66.46	
32 93 33 00-0222	EA		3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	78.53	
32 93 33 00-0223	EA		3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	94.12	
32 93 33 00-0224	EA		4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	132.81	
32 93 33 00-0225	EA		5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	156.94	
32 93 33 00-0226	EA		36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo.....	28.60	
32 93 33 00-0227	EA		1 Gallon Euonymus fortunei - Wintercreeper.....	10.93	
32 93 33 00-0228	EA		2 Gallon Euonymus fortunei - Wintercreeper.....	21.51	
32 93 33 00-0229	EA		3 Gallon Euonymus fortunei - Wintercreeper.....	26.29	
32 93 33 00-0230	EA		5 Gallon Euonymus fortunei - Wintercreeper.....	31.18	
32 93 33 00-0231	EA		1 Gallon Euonymus japonicus - Evergreen Spindle.....	7.48	
32 93 33 00-0232	EA		5 Gallon Euonymus japonicus - Evergreen Spindle.....	18.51	
32 93 33 00-0233	EA		15 Gallon Euonymus japonicus - Evergreen Spindle.....	73.46	
32 93 33 00-0234	EA		2' To 3' Forsythia - Korean Forsythia.....	24.13	
32 93 33 00-0235	EA		3' To 4' Forsythia - Korean Forsythia.....	30.50	
32 93 33 00-0236	EA		4' To 5' Forsythia - Korean Forsythia.....	38.01	
32 93 33 00-0237	EA		30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	24.37	
32 93 33 00-0238	EA		36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	27.01	
32 93 33 00-0239	EA		48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	29.13	
32 93 33 00-0240	EA		18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	25.43	
32 93 33 00-0241	EA		24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	33.90	
32 93 33 00-0242	EA		30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	25.43	
32 93 33 00-0243	EA		36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	29.66	
32 93 33 00-0244	EA		42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	34.96	
32 93 33 00-0245	EA		48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	40.26	
32 93 33 00-0246	EA		54" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	46.61	
32 93 33 00-0247	EA		2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	36.02	

32 Exterior Improvements

32 90 Planting

32 93 Plants


 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	50.32
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	52.97
32 93 33 00-0250	EA	15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	55.09
32 93 33 00-0251	EA	18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	59.33
32 93 33 00-0252	EA	24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	72.04
32 93 33 00-0253	EA	24" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	93.23
32 93 33 00-0254	EA	30" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	105.94
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine.....	7.85
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine.....	20.60
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine.....	26.29
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	7.48
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	18.51
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	73.46
32 93 33 00-0261	EA	36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	74.16
32 93 33 00-0262	EA	48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	120.77
32 93 33 00-0263	EA	60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	152.55
32 93 33 00-0264	EA	72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	233.07
32 93 33 00-0265	EA	84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	264.85
32 93 33 00-0266	EA	1 Gallon Hedychium gardnerum - Variegated Ginger.....	4.51
32 93 33 00-0267	EA	3 Gallon Hedychium gardnerum - Variegated Ginger.....	15.84
32 93 33 00-0268	EA	5 Gallon Hedychium gardnerum - Variegated Ginger.....	30.46
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus.....	11.55
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus.....	19.49
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus.....	29.48
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon.....	30.50
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon.....	25.95
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon.....	35.05
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon.....	50.64
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon.....	69.99
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea.....	21.51
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea.....	30.27
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea.....	33.80
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea.....	38.58
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea.....	21.51
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea.....	37.08
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea.....	40.26
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea.....	46.61
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	48.73
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	38.14
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	50.85
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	22.25
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	26.48
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	22.78
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	24.37
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	27.54
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	31.78
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	42.38
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	30.72
32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	34.96
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	41.32
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort.....	21.51
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort.....	25.43
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort.....	27.54
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly.....	10.93
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly.....	21.51
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly.....	30.27
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly.....	29.02
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly.....	36.76
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly.....	47.69
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly.....	57.93
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly.....	21.68
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	10.93
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	21.51
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	31.18
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly.....	10.93
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly.....	23.90
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly.....	31.18
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly.....	23.90
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly.....	28.79
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly.....	57.93
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly.....	77.28
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly.....	77.28
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly.....	127.92
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly.....	164.11
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly.....	197.91
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly.....	277.58
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly.....	386.26
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly.....	555.15
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly.....	844.91
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly.....	1,025.86
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly.....	1,267.25

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0410 EA 5 Gallon Ligustrum lucidum - Glossy Privet	20.60	
32 93 33 00-0411 EA 15 Gallon Ligustrum lucidum - Glossy Privet	96.51	
32 93 33 00-0412 EA 1 Gallon Ligustrum sinense - Variegated Chinese Privet	6.72	
32 93 33 00-0413 EA 2 Gallon Ligustrum sinense - Variegated Chinese Privet	14.45	
32 93 33 00-0414 EA 3 Gallon Ligustrum sinense - Variegated Chinese Privet	18.78	
32 93 33 00-0415 EA 36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	31.78	
32 93 33 00-0416 EA 48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	46.61	
32 93 33 00-0417 EA 60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	59.33	
32 93 33 00-0418 EA 72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	67.80	
32 93 33 00-0419 EA 5 Gallon Linder benzoin - Spicebush	34.96	
32 93 33 00-0420 EA 36" Balled and Burlapped, Linder benzoin - Spicebush	29.66	
32 93 33 00-0421 EA 48" Balled and Burlapped, Linder benzoin - Spicebush	36.02	
32 93 33 00-0422 EA 2' To 3' Lonicera fragrantissima - Winter Honeysuckle	57.93	
32 93 33 00-0423 EA 3' To 4' Lonicera fragrantissima - Winter Honeysuckle	69.99	
32 93 33 00-0424 EA 30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	31.78	
32 93 33 00-0425 EA 36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	38.14	
32 93 33 00-0426 EA 42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	42.38	
32 93 33 00-0427 EA 48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	46.61	
32 93 33 00-0428 EA 1 Gallon Myrica cerifera - Wax Myrtle	6.09	
32 93 33 00-0429 EA 4 Gallon Myrica cerifera - Wax Myrtle	19.49	
32 93 33 00-0430 EA 7 Gallon Myrica cerifera - Wax Myrtle	42.64	
32 93 33 00-0431 EA 10 Gallon Myrica cerifera - Wax Myrtle	63.35	
32 93 33 00-0432 EA 15 Gallon Myrica cerifera - Wax Myrtle	97.46	
32 93 33 00-0433 EA 45 Gallon Myrica cerifera - Wax Myrtle	292.39	
32 93 33 00-0434 EA 1' - 2' Myrica cerifera - Wax Myrtle	8.53	
32 93 33 00-0435 EA 3' - 4' Myrica cerifera - Wax Myrtle	29.24	
32 93 33 00-0436 EA 5' - 6' Myrica cerifera - Wax Myrtle	53.61	
32 93 33 00-0437 EA 7' - 8' Myrica cerifera - Wax Myrtle	73.10	
32 93 33 00-0438 EA 9' - 10' Myrica cerifera - Wax Myrtle	97.46	
32 93 33 00-0439 EA 11' - 12' Myrica cerifera - Wax Myrtle	148.63	
32 93 33 00-0440 EA 3 Gallon Myrica pensylvanica - Northern Bayberry	31.78	
32 93 33 00-0441 EA 24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	51.91	
32 93 33 00-0442 EA 30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	76.28	
32 93 33 00-0443 EA 36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	91.11	
32 93 33 00-0444 EA 48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	95.35	
32 93 33 00-0445 EA 1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	7.48	
32 93 33 00-0446 EA 5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	18.51	
32 93 33 00-0447 EA 15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	73.46	
32 93 33 00-0448 EA 1 Gallon Nandina domestica - Heavenly Bamboo	10.93	
32 93 33 00-0449 EA 2 Gallon Nandina domestica - Heavenly Bamboo	23.90	
32 93 33 00-0450 EA 5 Gallon Nandina domestica - Heavenly Bamboo	36.19	
32 93 33 00-0451 EA 15 Gallon Nerium oleander - Oleander	80.38	
32 93 33 00-0452 EA 24" Box Nerium oleander - Oleander	288.87	
32 93 33 00-0453 EA 1 Gallon Osmanthus fragrans - Fragrant Tea Olive	6.72	
32 93 33 00-0454 EA 3 Gallon Osmanthus fragrans - Fragrant Tea Olive	18.21	
32 93 33 00-0455 EA 1 Gallon Philadelphus - Evergreen Mockorange	9.33	
32 93 33 00-0456 EA 5 Gallon Philadelphus - Evergreen Mockorange	30.27	
32 93 33 00-0457 EA 36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	31.78	
32 93 33 00-0458 EA 42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	37.08	
32 93 33 00-0459 EA 48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	42.38	
32 93 33 00-0460 EA 1 Gallon Photinia fraseri - Red-Tipped Photinia	7.48	
32 93 33 00-0461 EA 5 Gallon Photinia fraseri - Red-Tipped Photinia	18.51	
32 93 33 00-0462 EA 15 Gallon Photinia fraseri - Red-Tipped Photinia	73.46	
32 93 33 00-0463 EA 1 Gallon Phormium tenax - New Zealand Flax	7.89	
32 93 33 00-0464 EA 5 Gallon Phormium tenax - New Zealand Flax	18.91	
32 93 33 00-0465 EA 15 Gallon Phormium tenax - New Zealand Flax	80.38	
32 93 33 00-0466 EA 24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	31.78	
32 93 33 00-0467 EA 30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	37.08	
32 93 33 00-0468 EA 36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	42.38	
32 93 33 00-0469 EA 42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	52.97	
32 93 33 00-0470 EA 48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	63.56	
32 93 33 00-0471 EA 12" To 15" Spread Pieris - Mountain Andromeda	29.25	
32 93 33 00-0472 EA 15" To 18" Spread Pieris - Mountain Andromeda	62.71	
32 93 33 00-0473 EA 12" To 15" Pieris japonica - Japanese Andromeda	38.01	
32 93 33 00-0474 EA 15" To 18" Pieris japonica - Japanese Andromeda	43.47	
32 93 33 00-0475 EA 18" To 24" Pieris japonica - Japanese Andromeda	54.40	
32 93 33 00-0476 EA 2' To 2-1/2' Pieris japonica - Japanese Andromeda	77.28	
32 93 33 00-0477 EA 2-1/2' To 3' Pieris japonica - Japanese Andromeda	91.73	
32 93 33 00-0478 EA 24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	32.61	
32 93 33 00-0479 EA 30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	41.74	
32 93 33 00-0480 EA 36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	50.22	
32 93 33 00-0481 EA 48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	64.57	
32 93 33 00-0482 EA 60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	77.61	
32 93 33 00-0483 EA 72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	113.49	
32 93 33 00-0484 EA 30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	70.44	
32 93 33 00-0485 EA 36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	84.79	
32 93 33 00-0486 EA 48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	112.83	
32 93 33 00-0487 EA 1 Gallon Pittosporum - Pittosporum	4.02	
32 93 33 00-0488 EA 3 Gallon Pittosporum - Pittosporum	10.36	
32 93 33 00-0489 EA 1 Gallon Pittosporum - Varigated Pittosporum	4.02	
32 93 33 00-0490 EA 3 Gallon Pittosporum - Varigated Pittosporum	10.36	



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0491	EA	5 Gallon Pittosporum - Variegated Pittosporum.....	18.15	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood	8.59	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood	20.36	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum.....	7.48	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum.....	18.51	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum.....	73.46	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	18.01	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	25.43	
32 93 33 00-0499	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	19.07	
32 93 33 00-0500	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	21.19	
32 93 33 00-0501	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	30.72	
32 93 33 00-0502	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	35.49	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	4.48	
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	11.21	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	66.84	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel	17.10	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel	21.16	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel	27.54	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond.....	15.27	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond.....	19.55	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond.....	31.18	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond.....	62.43	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond.....	18.78	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond	21.09	
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond	24.52	
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	16.68	
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	20.46	
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	24.52	
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	28.10	
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate	7.17	
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate	21.17	
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate	43.47	
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	9.10	
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	30.27	
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	62.71	
32 93 33 00-0526	EA	1 Gallon Ralphiolepis indica - Indian Hawthorne	7.28	
32 93 33 00-0527	EA	2 Gallon Ralphiolepis indica - Indian Hawthorne	13.88	
32 93 33 00-0528	EA	5 Gallon Ralphiolepis indica - Indian Hawthorne	24.70	
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry	11.07	
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry	31.66	
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry	95.01	
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	55.54	
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	76.14	
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	99.01	
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge.....	181.07	
32 93 33 00-0536	EA	1 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	7.97	
32 93 33 00-0537	EA	5 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	18.91	
32 93 33 00-0538	EA	15 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	80.38	
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	11.84	
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	23.90	
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	31.18	
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	36.19	
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids.....	42.34	
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids.....	53.15	
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids.....	77.28	
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids.....	108.57	
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	13.32	
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	23.90	
32 93 33 00-0549	EA	15" To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	41.08	
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	53.15	
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	77.28	
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	113.47	
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	152.05	
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azara	30.27	
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azara	108.57	
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron	34.26	
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron	60.32	
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron	89.34	
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea.....	40.63	
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea.....	53.15	
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea.....	69.99	
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea.....	40.63	
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea.....	50.64	
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea.....	82.06	
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea.....	113.47	
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea.....	152.05	
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea.....	202.81	
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron.....	13.32	
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron.....	28.79	
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron.....	40.86	
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron.....	45.64	

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0572 EA 15" To 18" Rhododendron - Hybrid Rhododendron	38.58	
32 93 33 00-0573 EA 18" To 24" Rhododendron - Hybrid Rhododendron	53.15	
32 93 33 00-0574 EA 24" To 30" Rhododendron - Hybrid Rhododendron	72.38	
32 93 33 00-0575 EA 30" To 36" Rhododendron - Hybrid Rhododendron	84.45	
32 93 33 00-0576 EA 36" To 42" Rhododendron - Hybrid Rhododendron	120.75	
32 93 33 00-0577 EA 42" To 48" Rhododendron - Hybrid Rhododendron	149.66	
32 93 33 00-0578 EA 15" To 18" Rhododendron - Pjm Rhododendron	43.47	
32 93 33 00-0579 EA 18" To 24" Rhododendron - Pjm Rhododendron	53.15	
32 93 33 00-0580 EA 2' To 2-1/2' Rhododendron - Pjm Rhododendron	77.28	
32 93 33 00-0581 EA 2-1/2 To 3' Rhododendron - Pjm Rhododendron	99.01	
32 93 33 00-0582 EA 3' To 3-1/2' Rhododendron - Pjm Rhododendron	120.75	
32 93 33 00-0583 EA 12" To 15" Rhododendron - Torch Azalea	33.80	
32 93 33 00-0584 EA 15" To 18" Rhododendron - Torch Azalea	40.63	
32 93 33 00-0585 EA 18" To 24" Rhododendron - Torch Azalea	50.64	
32 93 33 00-0586 EA 2' To 3' Rhododendron - Torch Azalea	84.45	
32 93 33 00-0587 EA 3 Gallon Rhododendron cvs - Lepidote Rhododendron	38.14	
32 93 33 00-0588 EA 5 Gallon Rhododendron cvs - Lepidote Rhododendron	46.61	
32 93 33 00-0589 EA 18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	57.21	
32 93 33 00-0590 EA 24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	72.04	
32 93 33 00-0591 EA 30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	84.75	
32 93 33 00-0592 EA 36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	101.70	
32 93 33 00-0593 EA 1 Gallon Rhus glabra - Dwarf Smooth Sumac	10.93	
32 93 33 00-0594 EA 5 Gallon Rhus glabra - Dwarf Smooth Sumac	30.27	
32 93 33 00-0595 EA 2 Gallon Rhus aromatica & cvs - Fragrant Sumac	25.43	
32 93 33 00-0596 EA 5 Gallon Rhus aromatica & cvs - Fragrant Sumac	34.96	
32 93 33 00-0597 EA 18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac	40.26	
32 93 33 00-0598 EA 24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac	52.97	
32 93 33 00-0599 EA 36" Balled and Burlapped, Rhus glabra - Smooth Sumac	31.78	
32 93 33 00-0600 EA 48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac	52.97	
32 93 33 00-0601 EA 72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac	84.75	
32 93 33 00-0602 EA 15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	28.60	
32 93 33 00-0603 EA 18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	32.84	
32 93 33 00-0604 EA 24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	47.67	
32 93 33 00-0605 EA 30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	63.56	
32 93 33 00-0606 EA 1 Gallon Rosa hybrids & cvs - Shrub Rose	17.48	
32 93 33 00-0607 EA 2 Gallon Rosa hybrids & cvs - Shrub Rose	21.19	
32 93 33 00-0608 EA 3 Gallon Rosa hybrids & cvs - Shrub Rose	26.48	
32 93 33 00-0609 EA 2 Gallon Rosa rugosa & cvs - Rugosa Rose	19.07	
32 93 33 00-0610 EA 3 Gallon Rosa rugosa & cvs - Rugosa Rose	24.37	
32 93 33 00-0611 EA 5 Gallon Sambucus canadensis - American Elder	34.96	
32 93 33 00-0612 EA 1 Gallon Santolina chamaecyparissus - Lavender Cotton	7.48	
32 93 33 00-0613 EA 5 Gallon Santolina chamaecyparissus - Lavender Cotton	18.51	
32 93 33 00-0614 EA 1 Gallon Santolina rosmarinifolia - Green Lavender Cotton	7.48	
32 93 33 00-0615 EA 5 Gallon Santolina rosmarinifolia - Green Lavender Cotton	18.51	
32 93 33 00-0616 EA 2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	15.71	
32 93 33 00-0617 EA 3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	22.99	
32 93 33 00-0618 EA 1 Gallon Sarcococca humilis - Fragrant Sarcococca	8.54	
32 93 33 00-0619 EA 5 Gallon Sarcococca humilis - Fragrant Sarcococca	22.31	
32 93 33 00-0620 EA 5 Gallon Senna artemisioides - Feathery Cassia	20.67	
32 93 33 00-0621 EA 15 Gallon Senna artemisioides - Feathery Cassia	82.25	
32 93 33 00-0622 EA 24" Box Senna artemisioides - Feathery Cassia	258.39	
32 93 33 00-0623 EA 1 Gallon Skimmia japonica - Japanese Skimmia	10.93	
32 93 33 00-0624 EA 2 Gallon Skimmia japonica - Japanese Skimmia	21.74	
32 93 33 00-0625 EA 5 Gallon Skimmia japonica - Japanese Skimmia	35.05	
32 93 33 00-0626 EA 1 Gallon Sollya fusiformis - Bluebell Creeper	7.48	
32 93 33 00-0627 EA 5 Gallon Sollya fusiformis - Bluebell Creeper	18.51	
32 93 33 00-0628 EA 3' To 4' Spiraea - Garland Spirea	50.64	
32 93 33 00-0629 EA 4' To 5' Spiraea - Garland Spirea	77.28	
32 93 33 00-0630 EA 5 Gallon Spiraea - Snowmound Spirea	30.27	
32 93 33 00-0631 EA 18" To 24" Spiraea - Snowmound Spirea	24.81	
32 93 33 00-0632 EA 2' To 3' Spiraea - Snowmound Spirea	35.05	
32 93 33 00-0633 EA 3' To 4' Spiraea - Snowmound Spirea	40.63	
32 93 33 00-0634 EA 4' To 5' Spiraea - Snowmound Spirea	69.99	
32 93 33 00-0635 EA 1 Gallon Spiraea japonica & cvs - Japanese Spirea	10.93	
32 93 33 00-0636 EA 2 Gallon Spiraea japonica & cvs - Japanese Spirea	21.51	
32 93 33 00-0637 EA 3 Gallon Spiraea japonica & cvs - Japanese Spirea	24.90	
32 93 33 00-0638 EA 5 Gallon Spiraea japonica & cvs - Japanese Spirea	27.01	
32 93 33 00-0639 EA 18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	27.54	
32 93 33 00-0640 EA 24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	31.78	
32 93 33 00-0641 EA 30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	36.02	
32 93 33 00-0642 EA 36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	41.85	
32 93 33 00-0643 EA 2 Gallon Spiraea nipponica & cvs - Nippon Spirea	16.95	
32 93 33 00-0644 EA 5 Gallon Spiraea nipponica & cvs - Nippon Spirea	25.43	
32 93 33 00-0645 EA 18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea	23.31	
32 93 33 00-0646 EA 24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea	27.54	
32 93 33 00-0647 EA 30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea	31.78	
32 93 33 00-0648 EA 36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea	36.02	
32 93 33 00-0649 EA 48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea	46.61	
32 93 33 00-0650 EA 1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	10.93	
32 93 33 00-0651 EA 2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	19.60	
32 93 33 00-0652 EA 4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	25.43	



Exterior Improvements		32
Planting		32 90
Plants		32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0653	EA	18"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	22.25	
32 93 33 00-0654	EA	24"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	27.01	
32 93 33 00-0655	EA	30"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	31.78	
32 93 33 00-0656	EA	36"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	36.02	
32 93 33 00-0657	EA	5 Gallon	Spiraea x vanhouttei & cvs - Vanhoutte Spirea	25.43	
32 93 33 00-0658	EA	18"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	25.43	
32 93 33 00-0659	EA	24"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	29.66	
32 93 33 00-0660	EA	30"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	40.26	
32 93 33 00-0661	EA	36"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	46.61	
32 93 33 00-0662	EA	42"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	55.09	
32 93 33 00-0663	EA	5 Gallon	Staphylea trifolia - Bladdernut	35.77	
32 93 33 00-0664	EA	2 Gallon	Stephanandra incisa & cvs - Cutleaf Stephanandra	25.43	
32 93 33 00-0665	EA	5 Gallon	Stephanandra incisa & cvs - Cutleaf Stephanandra	27.54	
32 93 33 00-0666	EA	24"	Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra	31.78	
32 93 33 00-0667	EA	30"	Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra	38.14	
32 93 33 00-0668	EA	2 Gallon	Symphoricarpos albus - Common Snowberry	26.48	
32 93 33 00-0669	EA	5 Gallon	Symphoricarpos albus - Common Snowberry	28.07	
32 93 33 00-0670	EA	24"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	46.61	
32 93 33 00-0671	EA	30"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	58.27	
32 93 33 00-0672	EA	36"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	67.80	
32 93 33 00-0673	EA	42"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	78.39	
32 93 33 00-0674	EA	18"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	46.61	
32 93 33 00-0675	EA	24"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	50.85	
32 93 33 00-0676	EA	30"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	58.27	
32 93 33 00-0677	EA	36"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	67.80	
32 93 33 00-0678	EA	42"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	78.39	
32 93 33 00-0679	EA	60"	Balled and Burlapped, Syringa villosa & cvs - Late Lilac	37.08	
32 93 33 00-0680	EA	72"	Balled and Burlapped, Syringa villosa & cvs - Late Lilac	40.26	
32 93 33 00-0681	EA	36"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	31.78	
32 93 33 00-0682	EA	42"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	36.02	
32 93 33 00-0683	EA	48"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	40.26	
32 93 33 00-0684	EA	60"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	46.61	
32 93 33 00-0685	EA	72"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	57.21	
32 93 33 00-0686	EA	5 Gallon	Syringa x chinensis & cvs - Chinese Lilac	26.48	
32 93 33 00-0687	EA	36"	Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	30.72	
32 93 33 00-0688	EA	48"	Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	40.26	
32 93 33 00-0689	EA	48"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	168.44	
32 93 33 00-0690	EA	54"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	188.57	
32 93 33 00-0691	EA	60"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	207.64	
32 93 33 00-0692	EA	72"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	250.02	
32 93 33 00-0693	EA	18"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	44.49	
32 93 33 00-0694	EA	24"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	58.27	
32 93 33 00-0695	EA	30"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	67.80	
32 93 33 00-0696	EA	36"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	74.16	
32 93 33 00-0697	EA	15"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	44.49	
32 93 33 00-0698	EA	18"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	58.27	
32 93 33 00-0699	EA	24"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	68.86	
32 93 33 00-0700	EA	30"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	81.57	
32 93 33 00-0701	EA	36"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	122.89	
32 93 33 00-0702	EA	36"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	67.80	
32 93 33 00-0703	EA	48"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	91.11	
32 93 33 00-0704	EA	60"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	137.72	
32 93 33 00-0705	EA	72"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	201.28	
32 93 33 00-0706	EA	84"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	230.95	
32 93 33 00-0707	EA	96"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	268.03	
32 93 33 00-0708	EA	15"	Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	29.66	
32 93 33 00-0709	EA	18"	Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	41.32	
32 93 33 00-0710	EA	24"	Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	58.27	
32 93 33 00-0711	EA	3' To 4'	Viburnum dilatatum - Linden Viburnum	50.64	
32 93 33 00-0712	EA	4' To 5'	Viburnum dilatatum - Linden Viburnum	77.28	
32 93 33 00-0713	EA	5' To 6'	Viburnum dilatatum - Linden Viburnum	101.40	
32 93 33 00-0714	EA	1 Gallon	Viburnum japonicum - Japanese Viburnum	6.15	
32 93 33 00-0715	EA	3 Gallon	Viburnum japonicum - Japanese Viburnum	16.84	
32 93 33 00-0716	EA	5 Gallon	Viburnum plicatum - Japanese Snowball	30.27	
32 93 33 00-0717	EA	5' To 6'	Viburnum plicatum - Japanese Snowball	113.47	
32 93 33 00-0718	EA	2' To 3'	Viburnum rhytidophyllum - Leatherleaf Viburnum	53.15	
32 93 33 00-0719	EA	3' To 4'	Viburnum rhytidophyllum - Leatherleaf Viburnum	62.71	
32 93 33 00-0720	EA	4' To 5'	Viburnum rhytidophyllum - Leatherleaf Viburnum	88.20	
32 93 33 00-0721	EA	30"	Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	58.27	
32 93 33 00-0722	EA	36"	Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	69.92	
32 93 33 00-0723	EA	24"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	52.97	
32 93 33 00-0724	EA	30"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	63.56	
32 93 33 00-0725	EA	36"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	74.16	
32 93 33 00-0726	EA	42"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	84.75	
32 93 33 00-0727	EA	1 Gallon	Viburnum davidii - David Viburnum	7.48	
32 93 33 00-0728	EA	5 Gallon	Viburnum davidii - David Viburnum	18.51	
32 93 33 00-0729	EA	36"	Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	29.66	
32 93 33 00-0730	EA	42"	Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	31.78	
32 93 33 00-0731	EA	48"	Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	37.08	
32 93 33 00-0732	EA	60"	Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	42.38	
32 93 33 00-0733	EA	72"	Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	46.61	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0734 EA 30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	28.60	
32 93 33 00-0735 EA 36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	31.78	
32 93 33 00-0736 EA 42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	40.26	
32 93 33 00-0737 EA 48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	46.61	
32 93 33 00-0738 EA 60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	63.56	
32 93 33 00-0739 EA 72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	76.28	
32 93 33 00-0740 EA 36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	31.78	
32 93 33 00-0741 EA 48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	42.38	
32 93 33 00-0742 EA 5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	52.97	
32 93 33 00-0743 EA 6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	74.16	
32 93 33 00-0744 EA 7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	105.94	
32 93 33 00-0745 EA 8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	148.31	
32 93 33 00-0746 EA 9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	190.69	
32 93 33 00-0747 EA 30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	38.14	
32 93 33 00-0748 EA 36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	42.38	
32 93 33 00-0749 EA 36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	76.28	
32 93 33 00-0750 EA 48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	116.53	
32 93 33 00-0751 EA 60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	148.31	
32 93 33 00-0752 EA 72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	180.10	
32 93 33 00-0753 EA 84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	222.47	
32 93 33 00-0754 EA 96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	264.85	
32 93 33 00-0755 EA 108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	317.82	
32 93 33 00-0756 EA 120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	370.79	
32 93 33 00-0757 EA 30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	32.31	
32 93 33 00-0758 EA 36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	35.49	
32 93 33 00-0759 EA 48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	40.26	
32 93 33 00-0760 EA 60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	46.61	
32 93 33 00-0761 EA 72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	53.50	
32 93 33 00-0762 EA 18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	30.72	
32 93 33 00-0763 EA 24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	37.08	
32 93 33 00-0764 EA 30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	44.49	
32 93 33 00-0765 EA 36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	50.85	
32 93 33 00-0766 EA 42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	61.44	
32 93 33 00-0767 EA 48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	67.80	
32 93 33 00-0768 EA 30" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	52.97	
32 93 33 00-0769 EA 36" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	63.56	
32 93 33 00-0770 EA 42" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	74.16	
32 93 33 00-0771 EA 48" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	84.75	
32 93 33 00-0772 EA 60" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	95.35	
32 93 33 00-0773 EA 30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	67.80	
32 93 33 00-0774 EA 36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	76.28	
32 93 33 00-0775 EA 42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	86.87	
32 93 33 00-0776 EA 48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	99.58	
32 93 33 00-0777 EA 2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball.....	62.71	
32 93 33 00-0778 EA 3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball.....	77.28	
32 93 33 00-0779 EA 4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball.....	113.47	
32 93 33 00-0780 EA 5 Gallon Weigela florida & cvs - Old Fashioned Weigela.....	34.96	
32 93 33 00-0781 EA 24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	31.78	
32 93 33 00-0782 EA 30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	36.02	
32 93 33 00-0783 EA 36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	40.26	
32 93 33 00-0784 EA 42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	46.61	
32 93 33 00-0785 EA 48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	52.97	
32 93 33 00-0786 EA 1 Gallon Xylosma congestum - Shiny Xylosma.....	7.28	
32 93 33 00-0787 EA 5 Gallon Xylosma congestum - Shiny Xylosma.....	20.60	
32 93 33 00-0788 EA 15 Gallon Xylosma congestum - Shiny Xylosma.....	90.59	
32 93 33 00-0789 EA 1 Gallon Yucca aloifolia - Spanish Bayonet.....	6.15	
32 93 33 00-0790 EA 3 Gallon Yucca aloifolia - Spanish Bayonet.....	16.27	
32 93 33 00-0791 EA 1 Gallon Yucca filamentosa - Adams Needle.....	8.54	
32 93 33 00-0792 EA 3 Gallon Yucca filamentosa - Adams Needle.....	16.62	
32 93 33 00-0793 EA 5 Gallon Yucca filamentosa - Adams Needle.....	26.29	
32 93 33 00-0794 EA 5 Gallon Border Forsythia - Goldenbells.....	29.25	
32 93 33 00-0795 EA 2' To 3' Border Forsythia - Goldenbells.....	24.13	
32 93 33 00-0796 EA 3' To 4' Border Forsythia - Goldenbells.....	30.50	
32 93 33 00-0797 EA 4' To 5' Border Forsythia - Goldenbells.....	38.01	
32 93 33 00-0798 EA 5' To 6' Border Forsythia - Goldenbells.....	45.64	
32 93 33 00-0799 EA 6' To 8' Border Forsythia - Goldenbells.....	62.71	
32 93 33 00-0800 EA 3' Juniperus chinensis - Columnar Chinese Juniper.....	62.13	
32 93 33 00-0801 EA 4' Juniperus chinensis - Columnar Chinese Juniper.....	85.28	
32 93 33 00-0802 EA 5' Juniperus chinensis - Columnar Chinese Juniper.....	134.01	
32 93 33 00-0803 EA 6' Juniperus chinensis - Columnar Chinese Juniper.....	155.94	
32 93 33 00-0804 EA 7' Juniperus chinensis - Columnar Chinese Juniper.....	204.67	
32 93 33 00-0805 EA 2 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	12.18	
32 93 33 00-0806 EA 3 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	17.06	
32 93 33 00-0807 EA 5 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	41.30	
32 93 33 00-0808 EA 2 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	12.18	
32 93 33 00-0809 EA 3 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	17.06	

32 93 43 Trees (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.



Exterior Improvements		32
Planting	32 90	32
Plants	32 93	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0001

Deciduous Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA 6' Clump Form Acer ginnala & cvs - Amur Maple	340.08
32 93 43 00-0003	EA 7' Clump Form Acer ginnala & cvs - Amur Maple	415.66
32 93 43 00-0004	EA 8' Clump Form Acer ginnala & cvs - Amur Maple	472.34
32 93 43 00-0005	EA 10' Clump Form Acer ginnala & cvs - Amur Maple	547.91
32 93 43 00-0006	EA 12' Clump Form Acer ginnala & cvs - Amur Maple	623.48
32 93 43 00-0007	EA 14' Clump Form Acer ginnala & cvs - Amur Maple	736.85
32 93 43 00-0008	EA 1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	208.83
32 93 43 00-0009	EA 2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,209.18
32 93 43 00-0010	EA 2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,511.48
32 93 43 00-0011	EA 5' Clump Form Acer griseum - Paperbark Maple	302.30
32 93 43 00-0012	EA 1-1/2" Caliper Aesculus californica - California Buckeye	755.74
32 93 43 00-0013	EA 2" Caliper Aesculus californica - California Buckeye	982.46
32 93 43 00-0014	EA 2-1/2" Caliper Aesculus californica - California Buckeye	1,133.61
32 93 43 00-0015	EA 3" Caliper Aesculus californica - California Buckeye	1,284.76
32 93 43 00-0016	EA 3-1/2" Caliper Aesculus californica - California Buckeye	1,511.48
32 93 43 00-0017	EA 36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	84.75
32 93 43 00-0018	EA 48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	105.94
32 93 43 00-0019	EA 60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	131.36
32 93 43 00-0020	EA 60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	105.94
32 93 43 00-0021	EA 72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	127.13
32 93 43 00-0022	EA 7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	148.31
32 93 43 00-0023	EA 8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	169.50
32 93 43 00-0024	EA 5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	190.69
32 93 43 00-0025	EA 6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	211.88
32 93 43 00-0026	EA 7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	243.66
32 93 43 00-0027	EA 8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	275.44
32 93 43 00-0028	EA 9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	317.82
32 93 43 00-0029	EA 1-1/2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	377.87
32 93 43 00-0030	EA 2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	529.02
32 93 43 00-0031	EA 2-1/2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	566.80
32 93 43 00-0032	EA 3" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	661.27
32 93 43 00-0033	EA 6' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	472.34
32 93 43 00-0034	EA 7' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	566.80
32 93 43 00-0035	EA 8' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	661.27
32 93 43 00-0036	EA 10' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	755.74
32 93 43 00-0037	EA 12' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	850.21
32 93 43 00-0038	EA 14' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	944.67
32 93 43 00-0039	EA 7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	243.66
32 93 43 00-0040	EA 8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	286.04
32 93 43 00-0041	EA 9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	328.41
32 93 43 00-0042	EA 10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	360.19
32 93 43 00-0043	EA 30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	84.75
32 93 43 00-0044	EA 48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	180.10
32 93 43 00-0045	EA 60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	233.07
32 93 43 00-0046	EA 2' To 4' Amelemchier - Juneberry	25.80
32 93 43 00-0047	EA 4' To 5' Amelemchier - Juneberry	27.06
32 93 43 00-0048	EA 5' To 6' Amelemchier - Juneberry	32.22
32 93 43 00-0049	EA 6' To 8' Amelemchier - Juneberry	38.44
32 93 43 00-0050	EA 3' Clump Form Asimina triloba - Paw-Paw	264.51
32 93 43 00-0051	EA 4' Clump Form Asimina triloba - Paw-Paw	302.30
32 93 43 00-0052	EA 5' Clump Form Asimina triloba - Paw-Paw	415.66
32 93 43 00-0053	EA 1-1/2" Caliper Carpinus caroliniana - American Hornbeam Ironwood	566.80
32 93 43 00-0054	EA 2" Caliper Carpinus caroliniana - American Hornbeam Ironwood	661.27
32 93 43 00-0055	EA 2-1/2" Caliper Carpinus caroliniana - American Hornbeam Ironwood	850.21
32 93 43 00-0056	EA 5' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	340.08
32 93 43 00-0057	EA 6' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	415.66
32 93 43 00-0058	EA 7' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	566.80
32 93 43 00-0059	EA 8' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	661.27
32 93 43 00-0060	EA 10' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	793.53
32 93 43 00-0061	EA 12' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	963.57
32 93 43 00-0062	EA 14' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	1,095.82
32 93 43 00-0063	EA 6' Cercis occidentalis - Western Redbud	211.63
32 93 43 00-0064	EA 8' Cercis occidentalis - Western Redbud	291.15
32 93 43 00-0065	EA 2-1/2" Caliper Cercis occidentalis - Western Redbud	599.68
32 93 43 00-0066	EA 3" Caliper Cercis occidentalis - Western Redbud	730.04
32 93 43 00-0067	EA 15 Gallon Cercis canadensis & cvs - Eastern Redbud	184.71
32 93 43 00-0068	EA 20 Gallon Cercis canadensis & cvs - Eastern Redbud	230.89
32 93 43 00-0069	EA 6' Clump Form Cercis canadensis & cvs - Eastern Redbud	453.44
32 93 43 00-0070	EA 7' Clump Form Cercis canadensis & cvs - Eastern Redbud	623.48
32 93 43 00-0071	EA 8' Clump Form Cercis canadensis & cvs - Eastern Redbud	793.53
32 93 43 00-0072	EA 1-1/2" Caliper Cercis canadensis & cvs - Eastern Redbud	434.55
32 93 43 00-0073	EA 2" Caliper Cercis canadensis & cvs - Eastern Redbud	510.12
32 93 43 00-0074	EA 5' To 6' Chaenomeles - Orange Quince	119.35
32 93 43 00-0075	EA 6' To 8' Chaenomeles - Orange Quince	149.19
32 93 43 00-0076	EA 5' Clump Form Chionanthus virginicus - White Fringetree	377.87
32 93 43 00-0077	EA 6' Clump Form Chionanthus virginicus - White Fringetree	472.34
32 93 43 00-0078	EA 7' Clump Form Chionanthus virginicus - White Fringetree	604.59
32 93 43 00-0079	EA 4' To 5' Cornus - Pink Or Red Flowering Dogwood	136.40

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR					TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	
32 93 43 00-0080	EA	5' To 6' Cornus - Pink Or Red Flowering Dogwood.....		170.50		
32 93 43 00-0081	EA	6' To 7' Cornus - Pink Or Red Flowering Dogwood.....		238.70		
32 93 43 00-0082	EA	7' To 8' Cornus - Pink Or Red Flowering Dogwood.....		306.90		
32 93 43 00-0083	EA	4' To 5' Cornus - White Flowering Dogwood.....		90.93		
32 93 43 00-0084	EA	5' To 6' Cornus - White Flowering Dogwood.....		136.40		
32 93 43 00-0085	EA	6' To 7' Cornus - White Flowering Dogwood.....		190.96		
32 93 43 00-0086	EA	3' To 4' Cornus kousa - Japanese Dogwood.....		90.93		
32 93 43 00-0087	EA	4' To 5' Cornus kousa - Japanese Dogwood.....		104.57		
32 93 43 00-0088	EA	5' To 6' Cornus kousa - Japanese Dogwood.....		136.40		
32 93 43 00-0089	EA	6' To 8' Cornus kousa - Japanese Dogwood.....		200.06		
32 93 43 00-0090	EA	8' To 10' Cornus kousa - Japanese Dogwood.....		272.80		
32 93 43 00-0091	EA	1-1/2" Caliper Cornus alternifolia & cvs - Pagoda Dogwood.....		434.55		
32 93 43 00-0092	EA	2" Caliper Cornus alternifolia & cvs - Pagoda Dogwood.....		529.02		
32 93 43 00-0093	EA	4' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood.....		207.83		
32 93 43 00-0094	EA	5' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood.....		264.51		
32 93 43 00-0095	EA	6' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood.....		302.30		
32 93 43 00-0096	EA	7' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood.....		340.08		
32 93 43 00-0097	EA	8' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood.....		415.66		
32 93 43 00-0098	EA	4' Clump Form Cornus mas & cvs - Corneliancherry Dogwood.....		207.83		
32 93 43 00-0099	EA	5' Clump Form Cornus mas & cvs - Corneliancherry Dogwood.....		264.51		
32 93 43 00-0100	EA	6' Clump Form Cornus mas & cvs - Corneliancherry Dogwood.....		321.19		
32 93 43 00-0101	EA	7' Clump Form Cornus mas & cvs - Corneliancherry Dogwood.....		377.87		
32 93 43 00-0102	EA	8' Clump Form Cornus mas & cvs - Corneliancherry Dogwood.....		529.02		
32 93 43 00-0103	EA	1-1/2" Caliper Cornus mas & cvs - Corneliancherry Dogwood.....		472.34		
32 93 43 00-0104	EA	2" Caliper Cornus mas & cvs - Corneliancherry Dogwood.....		566.80		
32 93 43 00-0105	EA	2-1/2" Caliper Cornus mas & cvs - Corneliancherry Dogwood.....		661.27		
32 93 43 00-0106	EA	1-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		377.87		
32 93 43 00-0107	EA	2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		472.34		
32 93 43 00-0108	EA	2-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		585.70		
32 93 43 00-0109	EA	3" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		661.27		
32 93 43 00-0110	EA	3-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		755.74		
32 93 43 00-0111	EA	4" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		850.21		
32 93 43 00-0112	EA	6' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		377.87		
32 93 43 00-0113	EA	7' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		453.44		
32 93 43 00-0114	EA	8' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		529.02		
32 93 43 00-0115	EA	10' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		661.27		
32 93 43 00-0116	EA	12' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn.....		850.21		
32 93 43 00-0117	EA	1-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn.....		302.30		
32 93 43 00-0118	EA	2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn.....		340.08		
32 93 43 00-0119	EA	2-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn.....		377.87		
32 93 43 00-0120	EA	3" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn.....		434.55		
32 93 43 00-0121	EA	3-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn.....		566.80		
32 93 43 00-0122	EA	4" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn.....		642.38		
32 93 43 00-0123	EA	6' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		264.51		
32 93 43 00-0124	EA	7' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		321.19		
32 93 43 00-0125	EA	8' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		377.87		
32 93 43 00-0126	EA	10' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		472.34		
32 93 43 00-0127	EA	12' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		585.70		
32 93 43 00-0128	EA	14' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		699.06		
32 93 43 00-0129	EA	16' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn.....		812.42		
32 93 43 00-0130	EA	1-1/2" Caliper Crataegus viridis - Winter King Hawthorn.....		302.30		
32 93 43 00-0131	EA	2" Caliper Crataegus viridis - Winter King Hawthorn.....		340.08		
32 93 43 00-0132	EA	2-1/2" Caliper Crataegus viridis - Winter King Hawthorn.....		472.34		
32 93 43 00-0133	EA	3" Caliper Crataegus viridis - Winter King Hawthorn.....		623.48		
32 93 43 00-0134	EA	6' Clump Form Crataegus viridis - Winter King Hawthorn.....		283.40		
32 93 43 00-0135	EA	7' Clump Form Crataegus viridis - Winter King Hawthorn.....		377.87		
32 93 43 00-0136	EA	8' Clump Form Crataegus viridis - Winter King Hawthorn.....		472.34		
32 93 43 00-0137	EA	10' Clump Form Crataegus viridis - Winter King Hawthorn.....		566.80		
32 93 43 00-0138	EA	4' Clump Form Hamamelis virginiana - Common Witchhazel.....		188.94		
32 93 43 00-0139	EA	5' Clump Form Hamamelis virginiana - Common Witchhazel.....		245.62		
32 93 43 00-0140	EA	6' Clump Form Hamamelis virginiana - Common Witchhazel.....		302.30		
32 93 43 00-0141	EA	7' Clump Form Hamamelis virginiana - Common Witchhazel.....		415.66		
32 93 43 00-0142	EA	8' Clump Form Hamamelis virginiana - Common Witchhazel.....		566.80		
32 93 43 00-0143	EA	1 Gallon Ilex Cassine - Casine Holly (Dahoon).....		10.86		
32 93 43 00-0144	EA	5 Gallon Ilex Cassine - Casine Holly (Dahoon).....		34.76		
32 93 43 00-0145	EA	4' To 5' Ilex Cassine - Casine Holly (Dahoon).....		59.75		
32 93 43 00-0146	EA	6' To 7' Ilex Cassine - Casine Holly (Dahoon).....		114.07		
32 93 43 00-0147	EA	8' To 9' Ilex Cassine - Casine Holly (Dahoon).....		152.09		
32 93 43 00-0148	EA	10' To 12' Ilex Cassine - Casine Holly (Dahoon).....		195.55		
32 93 43 00-0149	EA	2' To 3' Magnolia Virginiana - Sweetbay Magnolia.....		71.61		
32 93 43 00-0150	EA	3' To 4' Magnolia Virginiana - Sweetbay Magnolia.....		107.42		
32 93 43 00-0151	EA	4' To 5' Magnolia Virginiana - Sweetbay Magnolia.....		134.27		
32 93 43 00-0152	EA	5' To 6' Magnolia Virginiana - Sweetbay Magnolia.....		167.24		
32 93 43 00-0153	EA	4' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia.....		283.40		
32 93 43 00-0154	EA	5' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia.....		377.87		
32 93 43 00-0155	EA	6' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia.....		491.23		
32 93 43 00-0156	EA	7' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia.....		547.91		
32 93 43 00-0157	EA	9' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia.....		736.85		
32 93 43 00-0158	EA	8' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia.....		661.27		
32 93 43 00-0159	EA	4' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia.....		283.40		
32 93 43 00-0160	EA	5' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia.....		377.87		



Exterior Improvements		32
Planting	32	90
Plants	32	93

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 43 00-0161	EA	6' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia		491.23	
32 93 43 00-0162	EA	7' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia		547.91	
32 93 43 00-0163	EA	8' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia		661.27	
32 93 43 00-0164	EA	9' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia		736.85	
32 93 43 00-0165	EA	4' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia		283.40	
32 93 43 00-0166	EA	5' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia		377.87	
32 93 43 00-0167	EA	6' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia		491.23	
32 93 43 00-0168	EA	7' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia		547.91	
32 93 43 00-0169	EA	8' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia		661.27	
32 93 43 00-0170	EA	9' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia		736.85	
32 93 43 00-0171	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia		283.40	
32 93 43 00-0172	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia		377.87	
32 93 43 00-0173	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia		491.23	
32 93 43 00-0174	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia		547.91	
32 93 43 00-0175	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia		661.27	
32 93 43 00-0176	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia		736.85	
32 93 43 00-0177	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia		283.40	
32 93 43 00-0178	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia		377.87	
32 93 43 00-0179	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia		491.23	
32 93 43 00-0180	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia		547.91	
32 93 43 00-0181	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia		661.27	
32 93 43 00-0182	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia		736.85	
32 93 43 00-0183	EA	5 Gallon Malus - Crabapple		76.73	
32 93 43 00-0184	EA	15 Gallon Malus - Crabapple		195.65	
32 93 43 00-0185	EA	20 Gallon Malus - Crabapple		230.18	
32 93 43 00-0186	EA	1-1/2" Caliper Malus cvs - Crabapple Varieties		226.72	
32 93 43 00-0187	EA	2" Caliper Malus cvs - Crabapple Varieties		302.30	
32 93 43 00-0188	EA	2-1/2" Caliper Malus cvs - Crabapple Varieties		377.87	
32 93 43 00-0189	EA	3" Caliper Malus cvs - Crabapple Varieties		453.44	
32 93 43 00-0190	EA	3-1/2" Caliper Malus cvs - Crabapple Varieties		529.02	
32 93 43 00-0191	EA	4" Caliper Malus cvs - Crabapple Varieties		604.59	
32 93 43 00-0192	EA	6" Clump Form Malus cvs - Crabapple Varieties		340.08	
32 93 43 00-0193	EA	7" Clump Form Malus cvs - Crabapple Varieties		377.87	
32 93 43 00-0194	EA	8" Clump Form Malus cvs - Crabapple Varieties		472.34	
32 93 43 00-0195	EA	10" Clump Form Malus cvs - Crabapple Varieties		529.02	
32 93 43 00-0196	EA	12" Clump Form Malus cvs - Crabapple Varieties		680.16	
32 93 43 00-0197	EA	1-1/2" Caliper Malus dwarf cvs - Dwarf Crabapple Cultivars		377.87	
32 93 43 00-0198	EA	2" Caliper Malus dwarf cvs - Dwarf Crabapple Cultivars		472.34	
32 93 43 00-0199	EA	4" Clump Form Malus dwarf cvs - Dwarf Crabapple		283.40	
32 93 43 00-0200	EA	5" Clump Form Malus dwarf cvs - Dwarf Crabapple		358.98	
32 93 43 00-0201	EA	6" Clump Form Malus dwarf cvs - Dwarf Crabapple		434.55	
32 93 43 00-0202	EA	7" Clump Form Malus dwarf cvs - Dwarf Crabapple		491.23	
32 93 43 00-0203	EA	8" Clump Form Malus dwarf cvs - Dwarf Crabapple		547.91	
32 93 43 00-0204	EA	9" Clump Form Malus dwarf cvs - Dwarf Crabapple		604.59	
32 93 43 00-0205	EA	4' To 5' Oxydendrum arboreum - Sourwood		173.34	
32 93 43 00-0206	EA	5' To 6' Oxydendrum arboreum - Sourwood		216.68	
32 93 43 00-0207	EA	6' To 7' Oxydendrum arboreum - Sourwood		260.02	
32 93 43 00-0208	EA	7' To 8' Oxydendrum arboreum - Sourwood		303.35	
32 93 43 00-0209	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore		4.99	
32 93 43 00-0210	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore		21.12	
32 93 43 00-0211	EA	20 Gallon Prunus subhirtella - Flowering Cherry		265.70	
32 93 43 00-0212	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry		274.65	
32 93 43 00-0213	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry		343.28	
32 93 43 00-0214	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry		716.39	
32 93 43 00-0215	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry		552.14	
32 93 43 00-0216	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry		1,074.59	
32 93 43 00-0217	EA	5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		68.63	
32 93 43 00-0218	EA	15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		187.98	
32 93 43 00-0219	EA	20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		244.81	
32 93 43 00-0220	EA	5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		77.58	
32 93 43 00-0221	EA	6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		149.19	
32 93 43 00-0222	EA	1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		274.65	
32 93 43 00-0223	EA	2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum		328.36	
32 93 43 00-0224	EA	1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry		214.98	
32 93 43 00-0225	EA	1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry		179.03	
32 93 43 00-0226	EA	1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry		262.57	
32 93 43 00-0227	EA	2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry		313.44	
32 93 43 00-0228	EA	2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry		402.95	
32 93 43 00-0229	EA	4' To 6' Prunus - Pigeon Plum		108.64	
32 93 43 00-0230	EA	8' To 10' Prunus - Pigeon Plum		369.37	
32 93 43 00-0231	EA	10' To 12' Prunus - Pigeon Plum		469.31	
32 93 43 00-0232	EA	14' To 16' Prunus - Pigeon Plum		738.74	
32 93 43 00-0233	EA	6' To 8' Prunus yedoensis - Yoshino Cherry		155.30	
32 93 43 00-0234	EA	1-1/2" To 2" Caliper Prunus yedoensis - Yoshino Cherry		238.85	
32 93 43 00-0235	EA	2" To 2-1/2" Caliper Prunus yedoensis - Yoshino Cherry		292.41	
32 93 43 00-0236	EA	2-1/2" To 3" Caliper Prunus yedoensis - Yoshino Cherry		373.11	
32 93 43 00-0237	EA	15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear		207.44	
32 93 43 00-0238	EA	20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear		259.31	
32 93 43 00-0239	EA	1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear		269.68	
32 93 43 00-0240	EA	2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear		321.54	
32 93 43 00-0241	EA	2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear		435.63	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0242	EA	3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	570.47	
32 93 43 00-0243	EA	3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	726.05	
32 93 43 00-0244	EA	15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	207.44	
32 93 43 00-0245	EA	20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	259.31	
32 93 43 00-0246	EA	1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	176.33	
32 93 43 00-0247	EA	2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	269.68	
32 93 43 00-0248	EA	2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	321.26	
32 93 43 00-0249	EA	3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	435.63	
32 93 43 00-0250	EA	3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	570.47	
32 93 43 00-0251	EA	1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	377.87	
32 93 43 00-0252	EA	2" Caliper Pyrus calleryana & cvs - Callery Pear.....	472.34	
32 93 43 00-0253	EA	2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	585.70	
32 93 43 00-0254	EA	3" Caliper Pyrus calleryana & cvs - Callery Pear.....	661.27	
32 93 43 00-0255	EA	3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	736.85	
32 93 43 00-0256	EA	4" Caliper Pyrus calleryana & cvs - Callery Pear.....	944.67	
32 93 43 00-0257	EA	1 Gallon Ribes aureum - Golden Currant.....	4.36	
32 93 43 00-0258	EA	5 Gallon Ribes aureum - Golden Currant.....	12.48	
32 93 43 00-0259	EA	1 Gallon Ribes sanguineum - Red Flowering Currant.....	4.36	
32 93 43 00-0260	EA	5 Gallon Ribes sanguineum - Red Flowering Currant.....	12.48	
32 93 43 00-0261	EA	1 Gallon Ribes viburnifolium - Evergreen Currant.....	4.36	
32 93 43 00-0262	EA	5 Gallon Ribes viburnifolium - Evergreen Currant.....	12.48	
32 93 43 00-0263	EA	1-3/4" Caliper Sophora japonica - Japanese Pagoda.....	505.19	
32 93 43 00-0264	EA	2" Caliper Sophora japonica - Japanese Pagoda.....	568.34	
32 93 43 00-0265	EA	2-1/2" Caliper Sophora japonica - Japanese Pagoda.....	663.06	
32 93 43 00-0266	EA	3" Caliper Sophora japonica - Japanese Pagoda.....	969.79	
32 93 43 00-0267	EA	3-1/2" Caliper Sophora japonica - Japanese Pagoda.....	1,465.95	
32 93 43 00-0268	EA	1-1/2" Caliper Sorbus alnifolia - Korean Mountainash.....	377.87	
32 93 43 00-0269	EA	2" Caliper Sorbus alnifolia - Korean Mountainash.....	472.34	
32 93 43 00-0270	EA	2-1/2" Caliper Sorbus alnifolia - Korean Mountainash.....	585.70	
32 93 43 00-0271	EA	3" Caliper Sorbus alnifolia - Korean Mountainash.....	717.95	
32 93 43 00-0272	EA	3-1/2" Caliper Sorbus alnifolia - Korean Mountainash.....	869.10	
32 93 43 00-0273	EA	4" Caliper Sorbus alnifolia - Korean Mountainash.....	1,039.14	
32 93 43 00-0274	EA	1-1/2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac.....	491.23	
32 93 43 00-0275	EA	2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac.....	529.02	
32 93 43 00-0276	EA	2-1/2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac.....	642.38	
32 93 43 00-0277	EA	4" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	302.30	
32 93 43 00-0278	EA	5" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	358.98	
32 93 43 00-0279	EA	6" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	415.66	
32 93 43 00-0280	EA	7" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	472.34	
32 93 43 00-0281	EA	8" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	547.91	
32 93 43 00-0282	EA	10" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	699.06	
32 93 43 00-0283	EA	12" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	793.53	
32 93 43 00-0284	EA	14" Clump Form Syringa reticulata & cvs - Japanese Tree Lilac.....	906.89	
32 93 43 00-0285	EA	6' Brachychiton acerifolius - Flame Tree.....	579.07	
32 93 43 00-0286	EA	8' Brachychiton acerifolius - Flame Tree.....	772.10	
32 93 43 00-0287	EA	5 Gallon Celtis Sinensis - Chinese Hackberry.....	35.40	
32 93 43 00-0288	EA	15 Gallon Celtis Sinensis - Chinese Hackberry.....	93.34	
32 93 43 00-0289	EA	24" Box Celtis Sinensis - Chinese Hackberry.....	305.77	
32 93 43 00-0290	EA	36" Box Celtis Sinensis - Chinese Hackberry.....	893.16	
32 93 43 00-0291	EA	5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	35.40	
32 93 43 00-0292	EA	15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	93.34	
32 93 43 00-0293	EA	24" Box Crataegus phaenopyrum - Washington Hawthorn.....	305.77	
32 93 43 00-0294	EA	36" Box Crataegus phaenopyrum - Washington Hawthorn.....	893.16	
32 93 43 00-0295	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	10.46	
32 93 43 00-0296	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	28.97	
32 93 43 00-0297	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	127.13	
32 93 43 00-0298	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	305.77	
32 93 43 00-0299	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	804.65	
32 93 43 00-0300	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	78.86	
32 93 43 00-0301	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	257.49	
32 93 43 00-0302	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	683.95	
32 93 43 00-0303	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,528.84	
32 93 43 00-0304	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	22.53	
32 93 43 00-0305	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	78.86	
32 93 43 00-0306	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	257.49	
32 93 43 00-0307	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	683.95	
32 93 43 00-0308	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	1,528.84	
32 93 43 00-0309	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	22.53	
32 93 43 00-0310	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	94.95	
32 93 43 00-0311	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	257.49	
32 93 43 00-0312	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	724.18	
32 93 43 00-0313	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	1,850.70	
32 93 43 00-0314	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	22.53	
32 93 43 00-0315	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	94.95	
32 93 43 00-0316	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	257.49	
32 93 43 00-0317	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	724.18	
32 93 43 00-0318	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	1,850.70	
32 93 43 00-0319	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	22.53	
32 93 43 00-0320	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	94.95	
32 93 43 00-0321	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	257.49	
32 93 43 00-0322	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	724.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0323 EA 48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	1,850.70	
32 93 43 00-0324 EA 1 Gallon Pittosporum undulatum - Victorian Box	9.46	
32 93 43 00-0325 EA 5 Gallon Pittosporum undulatum - Victorian Box	20.37	
32 93 43 00-0326 EA 15 Gallon Pittosporum undulatum - Victorian Box	114.96	
32 93 43 00-0327 EA 24" Box Pittosporum undulatum - Victorian Box	276.49	
32 93 43 00-0328 EA 36" Box Pittosporum undulatum - Victorian Box	800.36	
32 93 43 00-0329 EA 48" Box Pittosporum undulatum - Victorian Box	1,819.00	
32 93 43 00-0330 EA 15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	80.38	
32 93 43 00-0331 EA 24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	289.59	

32 93 43 00-0332

Deciduous Shade Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0333 EA 3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple.....	178.67
32 93 43 00-0334 EA 4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple.....	219.02
32 93 43 00-0335 EA 4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple.....	285.30
32 93 43 00-0336 EA 5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple.....	369.83
32 93 43 00-0337 EA 2" To 2-1/2" Acer palmatum - Japanese Maple.....	18.85
32 93 43 00-0338 EA 4" To 5" Acer palmatum - Japanese Maple.....	39.58
32 93 43 00-0339 EA 5" To 6" Acer palmatum - Japanese Maple.....	51.82
32 93 43 00-0340 EA 6" To 7" Acer palmatum - Japanese Maple.....	94.23
32 93 43 00-0341 EA 7" To 8" Acer palmatum - Japanese Maple.....	131.92
32 93 43 00-0342 EA 8" To 10" Acer palmatum - Japanese Maple.....	169.61
32 93 43 00-0343 EA 10" To 12" Acer palmatum - Japanese Maple.....	226.14
32 93 43 00-0344 EA 2" Caliper Acer platanoides & cvs - Norway Maple.....	96.06
32 93 43 00-0345 EA 2" Caliper Acer platanoides & cvs - Norway Maple.....	116.94
32 93 43 00-0346 EA 3" Caliper Acer platanoides & cvs - Norway Maple.....	150.35
32 93 43 00-0347 EA 3-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	175.41
32 93 43 00-0348 EA 4" Caliper Acer platanoides & cvs - Norway Maple.....	187.94
32 93 43 00-0349 EA 4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	204.65
32 93 43 00-0350 EA 5" Caliper Acer platanoides & cvs - Norway Maple.....	229.71
32 93 43 00-0351 EA 2" Caliper Acer rubrum & cvs - Red Maple.....	91.88
32 93 43 00-0352 EA 2-1/2" Caliper Acer rubrum & cvs - Red Maple.....	116.94
32 93 43 00-0353 EA 3" Caliper Acer rubrum & cvs - Red Maple.....	150.35
32 93 43 00-0354 EA 3-1/2" Caliper Acer rubrum & cvs - Red Maple.....	183.77
32 93 43 00-0355 EA 4" Caliper Acer rubrum & cvs - Red Maple.....	208.83
32 93 43 00-0356 EA 4-1/2" Caliper Acer rubrum & cvs - Red Maple.....	242.24
32 93 43 00-0357 EA 5" Caliper Acer rubrum & cvs - Red Maple.....	271.47
32 93 43 00-0358 EA 8" Clump Form Acer rubrum & cvs - Red Maple.....	112.77
32 93 43 00-0359 EA 10" Clump Form Acer rubrum & cvs - Red Maple.....	150.35
32 93 43 00-0360 EA 12" Clump Form Acer rubrum & cvs - Red Maple.....	175.41
32 93 43 00-0361 EA 14" Clump Form Acer rubrum & cvs - Red Maple.....	200.47
32 93 43 00-0362 EA 16" Clump Form Acer rubrum & cvs - Red Maple.....	225.53
32 93 43 00-0363 EA 18" Clump Form Acer rubrum & cvs - Red Maple.....	250.59
32 93 43 00-0364 EA 2" Caliper Acer saccharinum & cvs - Silver Maple.....	75.18
32 93 43 00-0365 EA 2-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	100.24
32 93 43 00-0366 EA 3" Caliper Acer saccharinum & cvs - Silver Maple.....	125.30
32 93 43 00-0367 EA 3-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	150.35
32 93 43 00-0368 EA 4" Caliper Acer saccharinum & cvs - Silver Maple.....	175.41
32 93 43 00-0369 EA 4-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	200.47
32 93 43 00-0370 EA 5" Caliper Acer saccharinum & cvs - Silver Maple.....	225.53
32 93 43 00-0371 EA 2" Caliper Acer saccharum & cvs - Sugar Maple.....	91.88
32 93 43 00-0372 EA 2-1/2" Caliper Acer saccharum & cvs - Sugar Maple.....	121.12
32 93 43 00-0373 EA 3" Caliper Acer saccharum & cvs - Sugar Maple.....	146.18
32 93 43 00-0374 EA 3-1/2" Caliper Acer saccharum & cvs - Sugar Maple.....	167.06
32 93 43 00-0375 EA 4" Caliper Acer saccharum & cvs - Sugar Maple.....	196.30
32 93 43 00-0376 EA 4-1/2" Caliper Acer saccharum & cvs - Sugar Maple.....	225.53
32 93 43 00-0377 EA 5" Caliper Acer saccharum & cvs - Sugar Maple.....	250.59
32 93 43 00-0378 EA 10" Clump Form Acer saccharum & cvs - Sugar Maple.....	167.06
32 93 43 00-0379 EA 12" Clump Form Acer saccharum & cvs - Sugar Maple.....	196.30
32 93 43 00-0380 EA 14" Clump Form Acer saccharum & cvs - Sugar Maple.....	229.71
32 93 43 00-0381 EA 16" Clump Form Acer saccharum & cvs - Sugar Maple.....	254.77
32 93 43 00-0382 EA 18" Clump Form Acer saccharum & cvs - Sugar Maple.....	309.06
32 93 43 00-0383 EA 20" Clump Form Acer saccharum & cvs - Sugar Maple.....	334.12
32 93 43 00-0384 EA 2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	104.41
32 93 43 00-0385 EA 2-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	129.47
32 93 43 00-0386 EA 3" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	158.71
32 93 43 00-0387 EA 3-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	183.77
32 93 43 00-0388 EA 4" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	200.47
32 93 43 00-0389 EA 4-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	221.36
32 93 43 00-0390 EA 5" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	246.41
32 93 43 00-0391 EA 10" Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	150.35
32 93 43 00-0392 EA 12" Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	198.80
32 93 43 00-0393 EA 14" Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	231.38
32 93 43 00-0394 EA 16" Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	254.77
32 93 43 00-0395 EA 18" Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	309.06
32 93 43 00-0396 EA 20" Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	334.12
32 93 43 00-0397 EA 2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	146.18
32 93 43 00-0398 EA 2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	162.88
32 93 43 00-0399 EA 3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	183.77

32	Exterior Improvements
32 90	Planting
32 93	Plants



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

32 93 43 00-0400	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	208.83
32 93 43 00-0401	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	250.59
32 93 43 00-0402	EA	2" Caliper Aesculus x carnea - Red Horsechestnut.....	146.18
32 93 43 00-0403	EA	2-1/2" Caliper Aesculus x carnea - Red Horsechestnut.....	162.88
32 93 43 00-0404	EA	3" Caliper Aesculus x carnea - Red Horsechestnut.....	183.77
32 93 43 00-0405	EA	3-1/2" Caliper Aesculus x carnea - Red Horsechestnut.....	208.83
32 93 43 00-0406	EA	4" Caliper Aesculus x carnea - Red Horsechestnut.....	250.59
32 93 43 00-0407	EA	2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	104.41
32 93 43 00-0408	EA	2-1/2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	121.12
32 93 43 00-0409	EA	3" Caliper Alnus glutinosa - Common Alder, Black Alder.....	137.83
32 93 43 00-0410	EA	3-1/2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	158.71
32 93 43 00-0411	EA	8' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	108.59
32 93 43 00-0412	EA	10' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	133.65
32 93 43 00-0413	EA	12' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	150.35
32 93 43 00-0414	EA	14' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	167.06
32 93 43 00-0415	EA	16' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	187.94
32 93 43 00-0416	EA	18' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	208.83
32 93 43 00-0417	EA	2" Caliper Betula nigra - River Birch.....	104.41
32 93 43 00-0418	EA	2-1/2" Caliper Betula nigra - River Birch.....	118.24
32 93 43 00-0419	EA	3" Caliper Betula nigra - River Birch.....	133.65
32 93 43 00-0420	EA	3-1/2" Caliper Betula nigra - River Birch.....	167.06
32 93 43 00-0421	EA	4" Caliper Betula nigra - River Birch.....	187.94
32 93 43 00-0422	EA	4-1/2" Caliper Betula nigra - River Birch.....	208.83
32 93 43 00-0423	EA	5" Caliper Betula nigra - River Birch.....	229.71
32 93 43 00-0424	EA	8' Clump Form Betula nigra - River Birch.....	96.06
32 93 43 00-0425	EA	10' Clump Form Betula nigra - River Birch.....	108.59
32 93 43 00-0426	EA	12' Clump Form Betula nigra - River Birch.....	125.30
32 93 43 00-0427	EA	14' Clump Form Betula nigra - River Birch.....	146.18
32 93 43 00-0428	EA	16' Clump Form Betula nigra - River Birch.....	167.06
32 93 43 00-0429	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	125.30
32 93 43 00-0430	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	150.35
32 93 43 00-0431	EA	16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	175.41
32 93 43 00-0432	EA	18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	208.83
32 93 43 00-0433	EA	20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	217.18
32 93 43 00-0434	EA	10' - 12' Bursera Simaruba - Gumbo Limbo.....	52.83
32 93 43 00-0435	EA	12' - 14' Bursera Simaruba - Gumbo Limbo.....	62.44
32 93 43 00-0436	EA	14' - 16' Bursera Simaruba - Gumbo Limbo.....	86.45
32 93 43 00-0437	EA	17' - 18' Bursera Simaruba - Gumbo Limbo.....	112.39
32 93 43 00-0438	EA	19' - 20' Bursera Simaruba - Gumbo Limbo.....	124.88
32 93 43 00-0439	EA	21' - 22' Bursera Simaruba - Gumbo Limbo.....	147.93
32 93 43 00-0440	EA	2" Caliper Carpinus betulus & cvs - European Hornbeam.....	167.06
32 93 43 00-0441	EA	2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	187.94
32 93 43 00-0442	EA	3" Caliper Carpinus betulus & cvs - European Hornbeam.....	217.18
32 93 43 00-0443	EA	3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	263.12
32 93 43 00-0444	EA	6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	75.18
32 93 43 00-0445	EA	7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	104.41
32 93 43 00-0446	EA	8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	129.47
32 93 43 00-0447	EA	2" Caliper Catalpa speciosa - Western Catalpa.....	91.88
32 93 43 00-0448	EA	2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	125.30
32 93 43 00-0449	EA	3" Caliper Catalpa speciosa - Western Catalpa.....	162.88
32 93 43 00-0450	EA	3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	196.30
32 93 43 00-0451	EA	4" Caliper Catalpa speciosa - Western Catalpa.....	225.53
32 93 43 00-0452	EA	2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	116.94
32 93 43 00-0453	EA	2-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	133.65
32 93 43 00-0454	EA	3" Caliper Celtis occidentalis & cvs - Common Hackberry.....	162.88
32 93 43 00-0455	EA	3-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	192.12
32 93 43 00-0456	EA	4" Caliper Celtis occidentalis & cvs - Common Hackberry.....	221.36
32 93 43 00-0457	EA	4-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	250.59
32 93 43 00-0458	EA	3" Caliper Cercidiphyllum japonicum - Katsuratree.....	146.18
32 93 43 00-0459	EA	3-1/2" Caliper Cercidiphyllum japonicum - Katsuratree.....	167.06
32 93 43 00-0460	EA	4" Caliper Cercidiphyllum japonicum - Katsuratree.....	196.30
32 93 43 00-0461	EA	5" Caliper Cercidiphyllum japonicum - Katsuratree.....	233.89
32 93 43 00-0462	EA	6' Clump Form Cercidiphyllum japonicum - Katsuratree.....	116.94
32 93 43 00-0463	EA	7' Clump Form Cercidiphyllum japonicum - Katsuratree.....	137.83
32 93 43 00-0464	EA	8' Clump Form Cercidiphyllum japonicum - Katsuratree.....	167.06
32 93 43 00-0465	EA	10' Clump Form Cercidiphyllum japonicum - Katsuratree.....	208.83
32 93 43 00-0466	EA	12' Clump Form Cercidiphyllum japonicum - Katsuratree.....	250.59
32 93 43 00-0467	EA	2" Caliper Cladrastus lutea - American Yellowwood.....	208.83
32 93 43 00-0468	EA	2-1/2" Caliper Cladrastus lutea - American Yellowwood.....	250.59
32 93 43 00-0469	EA	3" Caliper Cladrastus lutea - American Yellowwood.....	292.36
32 93 43 00-0470	EA	3-1/2" Caliper Cladrastus lutea - American Yellowwood.....	334.12
32 93 43 00-0471	EA	2" Caliper Corylus columna californica - Western Turkish Filbert.....	129.47
32 93 43 00-0472	EA	2-1/2" Caliper Corylus columna californica - Western Turkish Filbert.....	146.18
32 93 43 00-0473	EA	3" Caliper Corylus columna californica - Western Turkish Filbert.....	167.06
32 93 43 00-0474	EA	3-1/2" Caliper Corylus columna californica - Western Turkish Filbert.....	192.12
32 93 43 00-0475	EA	4" Caliper Corylus columna californica - Western Turkish Filbert.....	229.71
32 93 43 00-0476	EA	4-1/2" Caliper Corylus columna californica - Western Turkish Filbert.....	267.30
32 93 43 00-0477	EA	5" Caliper Corylus columna californica - Western Turkish Filbert.....	304.89
32 93 43 00-0478	EA	8' Clump Form Corylus cornuta californica - Western Filbert.....	116.94
32 93 43 00-0479	EA	10' Clump Form Corylus cornuta californica - Western Filbert.....	142.00
32 93 43 00-0480	EA	12' Clump Form Corylus cornuta californica - Western Filbert.....	167.06

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0481 EA 14' Clump Form Corylus colurna californica - Western Turkish Filbert.....	187.94	
32 93 43 00-0482 EA 16' Clump Form Corylus colurna californica - Western Turkish Filbert.....	208.83	
32 93 43 00-0483 EA 1-1/2" Caliper Diospyros - Persimmon.....	75.18	
32 93 43 00-0484 EA 2" Caliper Diospyros - Persimmon.....	91.88	
32 93 43 00-0485 EA 2-1/2" Caliper Diospyros - Persimmon.....	116.94	
32 93 43 00-0486 EA 3" Caliper Diospyros - Persimmon.....	146.18	
32 93 43 00-0487 EA 3-1/2" Caliper Diospyros - Persimmon.....	175.41	
32 93 43 00-0488 EA 1-1/2" Caliper Fagus grandifolia - American Beech.....	167.06	
32 93 43 00-0489 EA 2" Caliper Fagus grandifolia - American Beech.....	217.18	
32 93 43 00-0490 EA 2-1/2" Caliper Fagus grandifolia - American Beech.....	275.65	
32 93 43 00-0491 EA 3" Caliper Fagus grandifolia - American Beech.....	334.12	
32 93 43 00-0492 EA 3-1/2" Caliper Fagus grandifolia - American Beech.....	396.77	
32 93 43 00-0493 EA 2" Caliper Fagus sylvatica & cvs - European Beech.....	187.94	
32 93 43 00-0494 EA 2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	225.53	
32 93 43 00-0495 EA 3" Caliper Fagus sylvatica & cvs - European Beech.....	271.47	
32 93 43 00-0496 EA 3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	300.71	
32 93 43 00-0497 EA 4" Caliper Fagus sylvatica & cvs - European Beech.....	355.00	
32 93 43 00-0498 EA 4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	459.42	
32 93 43 00-0499 EA 5" Caliper Fagus sylvatica & cvs - European Beech.....	542.95	
32 93 43 00-0500 EA 2" Caliper Fraxinus americana & cvs - White Ash.....	104.41	
32 93 43 00-0501 EA 2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	125.30	
32 93 43 00-0502 EA 3" Caliper Fraxinus americana & cvs - White Ash.....	158.71	
32 93 43 00-0503 EA 3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	192.12	
32 93 43 00-0504 EA 4" Caliper Fraxinus americana & cvs - White Ash.....	225.53	
32 93 43 00-0505 EA 4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	250.59	
32 93 43 00-0506 EA 5" Caliper Fraxinus americana & cvs - White Ash.....	292.36	
32 93 43 00-0507 EA 2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	91.88	
32 93 43 00-0508 EA 2-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	108.59	
32 93 43 00-0509 EA 3" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	146.18	
32 93 43 00-0510 EA 3-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	175.41	
32 93 43 00-0511 EA 4" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	208.83	
32 93 43 00-0512 EA 4-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	225.53	
32 93 43 00-0513 EA 5" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	250.59	
32 93 43 00-0514 EA 1-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	125.30	
32 93 43 00-0515 EA 2" Caliper Fraxinus quadrangulata - Blue Ash.....	154.53	
32 93 43 00-0516 EA 2-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	187.94	
32 93 43 00-0517 EA 3" Caliper Fraxinus quadrangulata - Blue Ash.....	229.71	
32 93 43 00-0518 EA 3-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	271.47	
32 93 43 00-0519 EA 1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	146.18	
32 93 43 00-0520 EA 2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	162.88	
32 93 43 00-0521 EA 2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	183.77	
32 93 43 00-0522 EA 3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	204.65	
32 93 43 00-0523 EA 3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	229.71	
32 93 43 00-0524 EA 4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	250.59	
32 93 43 00-0525 EA 4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	375.89	
32 93 43 00-0526 EA 5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	417.65	
32 93 43 00-0527 EA 2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	100.24	
32 93 43 00-0528 EA 2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	125.30	
32 93 43 00-0529 EA 3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	150.35	
32 93 43 00-0530 EA 3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	175.41	
32 93 43 00-0531 EA 4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	200.47	
32 93 43 00-0532 EA 4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	225.53	
32 93 43 00-0533 EA 5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	267.30	
32 93 43 00-0534 EA 2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	129.47	
32 93 43 00-0535 EA 2-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	158.71	
32 93 43 00-0536 EA 3" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	187.94	
32 93 43 00-0537 EA 3-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	221.36	
32 93 43 00-0538 EA 4" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	250.59	
32 93 43 00-0539 EA 4-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	279.83	
32 93 43 00-0540 EA 5" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	313.24	
32 93 43 00-0541 EA 1-1/2" Caliper Juglans cinerea - Butternut.....	100.24	
32 93 43 00-0542 EA 2" Caliper Juglans cinerea - Butternut.....	116.94	
32 93 43 00-0543 EA 2-1/2" Caliper Juglans cinerea - Butternut.....	146.18	
32 93 43 00-0544 EA 3" Caliper Juglans cinerea - Butternut.....	183.77	
32 93 43 00-0545 EA 3-1/2" Caliper Juglans cinerea - Butternut.....	225.53	
32 93 43 00-0546 EA 1-1/2" Caliper Juglans californica - California Walnut.....	100.24	
32 93 43 00-0547 EA 2" Caliper Juglans californica - California Walnut.....	116.94	
32 93 43 00-0548 EA 2-1/2" Caliper Juglans californica - California Walnut.....	146.18	
32 93 43 00-0549 EA 3" Caliper Juglans californica - California Walnut.....	183.77	
32 93 43 00-0550 EA 3-1/2" Caliper Juglans californica - California Walnut.....	225.53	
32 93 43 00-0551 EA 4" Caliper Juglans californica - California Walnut.....	271.47	
32 93 43 00-0552 EA 4-1/2" Caliper Juglans californica - California Walnut.....	313.24	
32 93 43 00-0553 EA 5" Caliper Juglans californica - California Walnut.....	355.00	
32 93 43 00-0554 EA 5 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	11.31	
32 93 43 00-0555 EA 15 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	28.27	
32 93 43 00-0556 EA 20 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	56.54	
32 93 43 00-0557 EA 55 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	73.50	
32 93 43 00-0558 EA 1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	53.71	
32 93 43 00-0559 EA 2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	65.02	
32 93 43 00-0560 EA 2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	90.46	
32 93 43 00-0561 EA 1-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	133.65	



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 93 43 00-0643	EA 12' Clump Form Quercus bicolor - Swamp White Oak.....	250.59	
32 93 43 00-0644	EA 14' Clump Form Quercus bicolor - Swamp White Oak.....	292.36	
32 93 43 00-0645	EA 16' Clump Form Quercus bicolor - Swamp White Oak.....	334.12	
32 93 43 00-0646	EA 2" Caliper Quercus coccinea - Scarlet Oak.....	108.59	
32 93 43 00-0647	EA 2-1/2" Caliper Quercus coccinea - Scarlet Oak.....	137.83	
32 93 43 00-0648	EA 3" Caliper Quercus coccinea - Scarlet Oak.....	171.24	
32 93 43 00-0649	EA 3-1/2" Caliper Quercus coccinea - Scarlet Oak.....	208.83	
32 93 43 00-0650	EA 4" Caliper Quercus coccinea - Scarlet Oak.....	250.59	
32 93 43 00-0651	EA 4-1/2" Caliper Quercus coccinea - Scarlet Oak.....	296.53	
32 93 43 00-0652	EA 5" Caliper Quercus coccinea - Scarlet Oak.....	346.65	
32 93 43 00-0653	EA 1-1/2" Caliper Quercus imbricaria - Shingle Oak.....	108.59	
32 93 43 00-0654	EA 2" Caliper Quercus imbricaria - Shingle Oak.....	146.18	
32 93 43 00-0655	EA 2-1/2" Caliper Quercus imbricaria - Shingle Oak.....	196.30	
32 93 43 00-0656	EA 3" Caliper Quercus imbricaria - Shingle Oak.....	292.36	
32 93 43 00-0657	EA 3-1/2" Caliper Quercus imbricaria - Shingle Oak.....	396.77	
32 93 43 00-0658	EA 1-1/2" Caliper Quercus macrocarpa - Bur Oak.....	108.59	
32 93 43 00-0659	EA 2" Caliper Quercus macrocarpa - Bur Oak.....	129.47	
32 93 43 00-0660	EA 2-1/2" Caliper Quercus macrocarpa - Bur Oak.....	154.53	
32 93 43 00-0661	EA 3" Caliper Quercus macrocarpa - Bur Oak.....	187.94	
32 93 43 00-0662	EA 3-1/2" Caliper Quercus macrocarpa - Bur Oak.....	229.71	
32 93 43 00-0663	EA 4" Caliper Quercus macrocarpa - Bur Oak.....	271.47	
32 93 43 00-0664	EA 9' Clump Form Quercus macrocarpa - Bur Oak.....	250.59	
32 93 43 00-0665	EA 10' Clump Form Quercus macrocarpa - Bur Oak.....	292.36	
32 93 43 00-0666	EA 12' Clump Form Quercus macrocarpa - Bur Oak.....	334.12	
32 93 43 00-0667	EA 2" Caliper Quercus palustris - Pin Oak.....	91.88	
32 93 43 00-0668	EA 2-1/2" Caliper Quercus palustris - Pin Oak.....	125.30	
32 93 43 00-0669	EA 3" Caliper Quercus palustris - Pin Oak.....	162.88	
32 93 43 00-0670	EA 3-1/2" Caliper Quercus palustris - Pin Oak.....	187.94	
32 93 43 00-0671	EA 4" Caliper Quercus palustris - Pin Oak.....	217.18	
32 93 43 00-0672	EA 4-1/2" Caliper Quercus palustris - Pin Oak.....	246.41	
32 93 43 00-0673	EA 5" Caliper Quercus palustris - Pin Oak.....	271.47	
32 93 43 00-0674	EA 2" Caliper Quercus robur & cvs - English Oak.....	108.59	
32 93 43 00-0675	EA 2-1/2" Caliper Quercus robur & cvs - English Oak.....	133.65	
32 93 43 00-0676	EA 3" Caliper Quercus robur & cvs - English Oak.....	158.71	
32 93 43 00-0677	EA 3-1/2" Caliper Quercus robur & cvs - English Oak.....	187.94	
32 93 43 00-0678	EA 4" Caliper Quercus robur & cvs - English Oak.....	217.18	
32 93 43 00-0679	EA 4-1/2" Caliper Quercus robur & cvs - English Oak.....	250.59	
32 93 43 00-0680	EA 5" Caliper Quercus robur & cvs - English Oak.....	284.00	
32 93 43 00-0681	EA 2" Caliper Quercus rubra - Red Oak.....	125.30	
32 93 43 00-0682	EA 2-1/2" Caliper Quercus rubra - Red Oak.....	146.18	
32 93 43 00-0683	EA 3" Caliper Quercus rubra - Red Oak.....	175.41	
32 93 43 00-0684	EA 3-1/2" Caliper Quercus rubra - Red Oak.....	208.83	
32 93 43 00-0685	EA 4" Caliper Quercus rubra - Red Oak.....	250.59	
32 93 43 00-0686	EA 4-1/2" Caliper Quercus rubra - Red Oak.....	292.36	
32 93 43 00-0687	EA 5" Caliper Quercus rubra - Red Oak.....	334.12	
32 93 43 00-0688	EA 16' Clump Form Quercus rubra - Red Oak.....	271.47	
32 93 43 00-0689	EA 18' Clump Form Quercus rubra - Red Oak.....	325.77	
32 93 43 00-0690	EA 20' Clump Form Quercus rubra - Red Oak.....	363.36	
32 93 43 00-0691	EA 2" Caliper Quercus shumardii - Shumard Oak.....	142.00	
32 93 43 00-0692	EA 2-1/2" Caliper Quercus shumardii - Shumard Oak.....	179.59	
32 93 43 00-0693	EA 3" Caliper Quercus shumardii - Shumard Oak.....	208.83	
32 93 43 00-0694	EA 3-1/2" Caliper Quercus shumardii - Shumard Oak.....	250.59	
32 93 43 00-0695	EA 4" Caliper Quercus shumardii - Shumard Oak.....	292.36	
32 93 43 00-0696	EA 4-1/2" Caliper Quercus shumardii - Shumard Oak.....	334.12	
32 93 43 00-0697	EA 5" Caliper Quercus shumardii - Shumard Oak.....	375.89	
32 93 43 00-0698	EA 3" To 3-1/2" Caliper Quercus virginiana - Live Oak.....	248.76	
32 93 43 00-0699	EA 3-1/2" To 4" Caliper Quercus virginiana - Live Oak.....	335.25	
32 93 43 00-0700	EA 4" To 4-1/2" Caliper Quercus virginiana - Live Oak.....	453.40	
32 93 43 00-0701	EA 4-1/2" To 5" Caliper Quercus virginiana - Live Oak.....	605.18	
32 93 43 00-0702	EA 5" To 5-1/2" Caliper Quercus virginiana - Live Oak.....	730.06	
32 93 43 00-0703	EA 5-1/2" To 6" Caliper Quercus virginiana - Live Oak.....	806.90	
32 93 43 00-0704	EA 6" To 6-1/2" Caliper Quercus virginiana - Live Oak.....	1,085.48	
32 93 43 00-0705	EA 6-1/2" To 7" Caliper Quercus virginiana - Live Oak.....	1,364.05	
32 93 43 00-0706	EA 7" To 7-1/2" Caliper Quercus virginiana - Live Oak.....	1,642.63	
32 93 43 00-0707	EA 7-1/2" To 8" Caliper Quercus virginiana - Live Oak.....	1,993.24	
32 93 43 00-0708	EA 8" To 8-1/2" Caliper Quercus virginiana - Live Oak.....	2,343.86	
32 93 43 00-0709	EA 2" Caliper Quercus schuettii - Swamp Bur Oak.....	125.30	
32 93 43 00-0710	EA 2-1/2" Caliper Quercus schuettii - Swamp Bur Oak.....	150.35	
32 93 43 00-0711	EA 3" Caliper Quercus schuettii - Swamp Bur Oak.....	187.94	
32 93 43 00-0712	EA 3-1/2" Caliper Quercus schuettii - Swamp Bur Oak.....	229.71	
32 93 43 00-0713	EA 4" Caliper Quercus schuettii - Swamp Bur Oak.....	267.30	
32 93 43 00-0714	EA 4-1/2" Caliper Quercus schuettii - Swamp Bur Oak.....	300.71	
32 93 43 00-0715	EA 2" Caliper Salix alba & cvs - White Willow.....	66.82	
32 93 43 00-0716	EA 2-1/2" Caliper Salix alba & cvs - White Willow.....	79.35	
32 93 43 00-0717	EA 3" Caliper Salix alba & cvs - White Willow.....	104.41	
32 93 43 00-0718	EA 3-1/2" Caliper Salix alba & cvs - White Willow.....	125.30	
32 93 43 00-0719	EA 4" Caliper Salix alba & cvs - White Willow.....	150.35	
32 93 43 00-0720	EA 4-1/2" Caliper Salix alba & cvs - White Willow.....	175.41	
32 93 43 00-0721	EA 5" Caliper Salix alba & cvs - White Willow.....	200.47	
32 93 43 00-0722	EA 24" Box Salix babylonica - Weeping Willow.....	105.57	
32 93 43 00-0723	EA 36" Box Salix babylonica - Weeping Willow.....	263.93	

32 Exterior Improvements
32 90 Planting
32 93 Plants


MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0724 EA 1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	60.71	
32 93 43 00-0725 EA 2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	72.58	
32 93 43 00-0726 EA 2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	79.18	
32 93 43 00-0727 EA 5' Clump Form Sassafras albidum - Common Sassafras.....	79.35	
32 93 43 00-0728 EA 6' Clump Form Sassafras albidum - Common Sassafras.....	96.06	
32 93 43 00-0729 EA 7' Clump Form Sassafras albidum - Common Sassafras.....	121.12	
32 93 43 00-0730 EA 8' Clump Form Sassafras albidum - Common Sassafras.....	137.83	
32 93 43 00-0731 EA 10' Clump Form Sassafras albidum - Common Sassafras.....	154.53	
32 93 43 00-0732 EA 12' Clump Form Sassafras albidum - Common Sassafras.....	187.94	
32 93 43 00-0733 EA 14' Clump Form Sassafras albidum - Common Sassafras.....	229.71	
32 93 43 00-0734 EA 16' Clump Form Sassafras albidum - Common Sassafras.....	271.47	
32 93 43 00-0735 EA 1-3/4" Caliper Sophora japonica - Chinese Scholar.....	138.33	
32 93 43 00-0736 EA 2" Caliper Sophora japonica - Chinese Scholar.....	153.70	
32 93 43 00-0737 EA 2-1/2" Caliper Sophora japonica - Chinese Scholar.....	206.53	
32 93 43 00-0738 EA 3" Caliper Sophora japonica - Chinese Scholar.....	268.97	
32 93 43 00-0739 EA 3-1/2" Caliper Sophora japonica - Chinese Scholar.....	312.20	
32 93 43 00-0740 EA 10' To 12' Swietenia Mahagoni - Mahogany.....	73.97	
32 93 43 00-0741 EA 12' To 14' Swietenia Mahagoni - Mahogany.....	86.45	
32 93 43 00-0742 EA 14' To 16' Swietenia Mahagoni - Mahogany.....	115.27	
32 93 43 00-0743 EA 16' To 18' Swietenia Mahagoni - Mahogany.....	129.68	
32 93 43 00-0744 EA 2" Caliper Taxodium distichum - Common Bald Cypress.....	104.41	
32 93 43 00-0745 EA 2-1/2" Caliper Taxodium distichum - Common Bald Cypress.....	121.12	
32 93 43 00-0746 EA 3" Caliper Taxodium distichum - Common Bald Cypress.....	146.18	
32 93 43 00-0747 EA 3-1/2" Caliper Taxodium distichum - Common Bald Cypress.....	167.06	
32 93 43 00-0748 EA 4" Caliper Taxodium distichum - Common Bald Cypress.....	183.77	
32 93 43 00-0749 EA 6' Clump Form Taxodium distichum - Common Bald Cypress.....	91.88	
32 93 43 00-0750 EA 7' Clump Form Taxodium distichum - Common Bald Cypress.....	104.41	
32 93 43 00-0751 EA 8' Clump Form Taxodium distichum - Common Bald Cypress.....	150.35	
32 93 43 00-0752 EA 10' Clump Form Taxodium distichum - Common Bald Cypress.....	167.06	
32 93 43 00-0753 EA 12' Clump Form Taxodium distichum - Common Bald Cypress.....	187.94	
32 93 43 00-0754 EA 14' Clump Form Taxodium distichum - Common Bald Cypress.....	217.18	
32 93 43 00-0755 EA 16' Clump Form Taxodium distichum - Common Bald Cypress.....	250.59	
32 93 43 00-0756 EA 2' Thuja occidentalis - American Arborvitae.....	14.31	
32 93 43 00-0757 EA 2-1/2' Thuja occidentalis - American Arborvitae.....	15.47	
32 93 43 00-0758 EA 3' Thuja occidentalis - American Arborvitae.....	22.09	
32 93 43 00-0759 EA 4' Thuja occidentalis - American Arborvitae.....	30.36	
32 93 43 00-0760 EA 5' Thuja occidentalis - American Arborvitae.....	42.27	
32 93 43 00-0761 EA 6' Thuja occidentalis - American Arborvitae.....	58.60	
32 93 43 00-0762 EA 7' Thuja occidentalis - American Arborvitae.....	71.08	
32 93 43 00-0763 EA 8' Thuja occidentalis - American Arborvitae.....	99.90	
32 93 43 00-0764 EA 2" Caliper Tilia americana & cvs - American Linden Basswood.....	104.41	
32 93 43 00-0765 EA 2-1/2" Caliper Tilia americana & cvs - American Linden Basswood.....	121.12	
32 93 43 00-0766 EA 3" Caliper Tilia americana & cvs - American Linden Basswood.....	154.53	
32 93 43 00-0767 EA 3-1/2" Caliper Tilia americana & cvs - American Linden Basswood.....	179.59	
32 93 43 00-0768 EA 4" Caliper Tilia americana & cvs - American Linden; Basswood.....	204.65	
32 93 43 00-0769 EA 4-1/2" Caliper Tilia americana & cvs - American Linden Basswood.....	229.71	
32 93 43 00-0770 EA 5" Caliper Tilia americana & cvs - American Linden Basswood.....	250.59	
32 93 43 00-0771 EA 10' Clump Form Tilia americana & cvs - American Linden Basswood.....	133.65	
32 93 43 00-0772 EA 12' Clump Form Tilia americana & cvs - American Linden Basswood.....	146.18	
32 93 43 00-0773 EA 14' Clump Form Tilia americana & cvs - American Linden Basswood.....	167.06	
32 93 43 00-0774 EA 16' Clump Form Tilia americana & cvs - American Linden Basswood.....	192.12	
32 93 43 00-0775 EA 2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	105.04	
32 93 43 00-0776 EA 2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	126.88	
32 93 43 00-0777 EA 3" Caliper Tilia cordata & cvs - Littleleaf Linden.....	146.18	
32 93 43 00-0778 EA 3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	179.59	
32 93 43 00-0779 EA 4" Caliper Tilia cordata & cvs - Littleleaf Linden.....	204.65	
32 93 43 00-0780 EA 4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	229.71	
32 93 43 00-0781 EA 5" Caliper Tilia cordata & cvs - Littleleaf Linden.....	254.77	
32 93 43 00-0782 EA 2" Caliper Tilia tomentosa & cvs - Silver Linden.....	116.94	
32 93 43 00-0783 EA 2-1/2" Caliper Tilia tomentosa & cvs - Silver Linden.....	129.47	
32 93 43 00-0784 EA 3" Caliper Tilia tomentosa & cvs - Silver Linden.....	142.00	
32 93 43 00-0785 EA 3-1/2" Caliper Tilia tomentosa & cvs - Silver Linden.....	158.71	
32 93 43 00-0786 EA 4" Caliper Tilia tomentosa & cvs - Silver Linden.....	183.77	
32 93 43 00-0787 EA 4-1/2" Caliper Tilia tomentosa & cvs - Silver Linden.....	217.18	
32 93 43 00-0788 EA 5" Caliper Tilia tomentosa & cvs - Silver Linden.....	284.00	
32 93 43 00-0789 EA 2" Caliper Tilia x euchlora - Crimean Linden.....	116.94	
32 93 43 00-0790 EA 2-1/2" Caliper Tilia x euchlora - Crimean Linden.....	150.35	
32 93 43 00-0791 EA 3" Caliper Tilia x euchlora - Crimean Linden.....	183.77	
32 93 43 00-0792 EA 3-1/2" Caliper Tilia x euchlora - Crimean Linden.....	208.83	
32 93 43 00-0793 EA 4" Caliper Tilia x euchlora - Crimean Linden.....	233.89	
32 93 43 00-0794 EA 4-1/2" Caliper Tilia x euchlora - Crimean Linden.....	263.12	
32 93 43 00-0795 EA 5" Caliper Tilia x euchlora - Crimean Linden.....	284.00	
32 93 43 00-0796 EA 2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	116.94	
32 93 43 00-0797 EA 2-1/2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	133.65	
32 93 43 00-0798 EA 3" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	146.18	
32 93 43 00-0799 EA 3-1/2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	158.71	
32 93 43 00-0800 EA 4" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	175.41	
32 93 43 00-0801 EA 4-1/2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	208.83	
32 93 43 00-0802 EA 5" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm.....	246.41	
32 93 43 00-0803 EA 2" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm.....	133.65	
32 93 43 00-0804 EA 2-1/2" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm.....	146.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0805 EA 3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	158.71	
32 93 43 00-0806 EA 3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	175.41	
32 93 43 00-0807 EA 4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	208.83	
32 93 43 00-0808 EA 4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	246.41	
32 93 43 00-0809 EA 5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	284.00	
32 93 43 00-0810 EA 2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	133.65	
32 93 43 00-0811 EA 2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm.....	146.18	
32 93 43 00-0812 EA 3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	158.71	
32 93 43 00-0813 EA 3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	175.41	
32 93 43 00-0814 EA 4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	208.83	
32 93 43 00-0815 EA 4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	246.41	
32 93 43 00-0816 EA 5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	284.00	
32 93 43 00-0817 EA 1-1/2" To 2" Caliper Zelkova serrata - Japanese Keaki Tree.....	64.64	
32 93 43 00-0818 EA 2" To 2-1/2" Caliper Zelkova serrata - Japanese Keaki Tree.....	79.18	
32 93 43 00-0819 EA 2-1/2" To 3" Caliper Zelkova serrata - Japanese Keaki Tree.....	100.32	
32 93 43 00-0820 EA CALTRAN 204003 PLANT (GROUP C) (10' To 16' B&B).....	594.01	
32 93 43 00-0821 EA CALTRAN 204003 PLANT (GROUP C) (16' To 20' B&B).....	982.12	
32 93 43 00-0822 EA CALTRAN 204003 PLANT (GROUP C) (6' To 8' B&B).....	354.66	
32 93 43 00-0823 EA CALTRAN 204003 PLANT (GROUP C) (22' To 26' B&B).....	1,694.67	

32 93 43 00-0824

Evergreen Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0825 EA 6' Abies balsamea - Balsam Fir.....	94.41	
32 93 43 00-0826 EA 7' Abies balsamea - Balsam Fir.....	118.01	
32 93 43 00-0827 EA 8' Abies balsamea - Balsam Fir.....	141.61	
32 93 43 00-0828 EA 9' Abies balsamea - Balsam Fir.....	188.82	
32 93 43 00-0829 EA 10' Abies balsamea - Balsam Fir.....	236.02	
32 93 43 00-0830 EA 12' Abies balsamea - Balsam Fir.....	283.23	
32 93 43 00-0831 EA 6' Abies concolor - White Fir.....	136.89	
32 93 43 00-0832 EA 7' Abies concolor - White Fir.....	155.77	
32 93 43 00-0833 EA 8' Abies concolor - White Fir.....	184.10	
32 93 43 00-0834 EA 9' Abies concolor - White Fir.....	212.42	
32 93 43 00-0835 EA 10' Abies concolor - White Fir.....	250.18	
32 93 43 00-0836 EA 12' Abies concolor - White Fir.....	306.83	
32 93 43 00-0837 EA 14' Abies concolor - White Fir.....	377.63	
32 93 43 00-0838 EA 16' Abies concolor - White Fir.....	424.84	
32 93 43 00-0839 EA 6' Abies fraseri - Fraser Fir.....	94.41	
32 93 43 00-0840 EA 7' Abies fraseri - Fraser Fir.....	118.01	
32 93 43 00-0841 EA 8' Abies fraseri - Fraser Fir.....	141.61	
32 93 43 00-0842 EA 9' Abies fraseri - Fraser Fir.....	188.82	
32 93 43 00-0843 EA 10' Abies fraseri - Fraser Fir.....	236.02	
32 93 43 00-0844 EA 12' Abies fraseri - Fraser Fir.....	283.23	
32 93 43 00-0845 EA 2' To 3' Cedrus atlantica - Blue Atlas Cedar.....	17.00	
32 93 43 00-0846 EA 3' To 4' Cedrus atlantica - Blue Atlas Cedar.....	27.33	
32 93 43 00-0847 EA 4' To 5' Cedrus atlantica - Blue Atlas Cedar.....	40.61	
32 93 43 00-0848 EA 5' To 6' Cedrus atlantica - Blue Atlas Cedar.....	54.63	
32 93 43 00-0849 EA 7' To 8' Cedrus atlantica - Blue Atlas Cedar.....	77.57	
32 93 43 00-0850 EA 6' To 8' Cedrus deodara - Indian Cedar.....	70.18	
32 93 43 00-0851 EA 8' To 10' Cedrus deodara - Indian Cedar.....	81.26	
32 93 43 00-0852 EA 10' To 12' Cedrus deodara - Indian Cedar.....	110.79	
32 93 43 00-0853 EA 12' To 14' Cedrus deodara - Indian Cedar.....	144.02	
32 93 43 00-0854 EA 14' To 16' Cedrus deodara - Indian Cedar.....	184.67	
32 93 43 00-0855 EA 15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress.....	21.94	
32 93 43 00-0856 EA 18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress.....	32.91	
32 93 43 00-0857 EA 2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress.....	51.19	
32 93 43 00-0858 EA 3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress.....	87.75	
32 93 43 00-0859 EA 4' To 5' Chamaecyparis pisifera - Sawara Cypress.....	26.59	
32 93 43 00-0860 EA 5' To 6' Chamaecyparis pisifera - Sawara Cypress.....	41.39	
32 93 43 00-0861 EA 6' To 7' Chamaecyparis pisifera - Sawara Cypress.....	51.69	
32 93 43 00-0862 EA 7' To 8' Chamaecyparis pisifera - Sawara Cypress.....	73.87	
32 93 43 00-0863 EA 1 Gallon Cleyera japonica - Japanese Cleyera.....	2.99	
32 93 43 00-0864 EA 3 Gallon Cleyera japonica - Japanese Cleyera.....	7.51	
32 93 43 00-0865 EA 7 Gallon Cleyera japonica - Japanese Cleyera.....	21.50	
32 93 43 00-0866 EA 5 Gallon Cupressocyparis leylandii - Leyland Cypress.....	12.07	
32 93 43 00-0867 EA 15 Gallon Cupressocyparis leylandii - Leyland Cypress.....	48.28	
32 93 43 00-0868 EA 4' To 5' Cupressocyparis leylandii - Leyland Cypress.....	21.12	
32 93 43 00-0869 EA 5' To 6' Cupressocyparis leylandii - Leyland Cypress.....	27.16	
32 93 43 00-0870 EA 6' To 7' Cupressocyparis leylandii - Leyland Cypress.....	42.24	
32 93 43 00-0871 EA 24" Box Cupressocyparis leylandii - Leyland Cypress.....	102.59	
32 93 43 00-0872 EA 1 Gallon Cupressus macrocarpa - Monterey Cypress.....	2.20	
32 93 43 00-0873 EA 5 Gallon Cupressus macrocarpa - Monterey Cypress.....	9.90	
32 93 43 00-0874 EA 15 Gallon Cupressus macrocarpa - Monterey Cypress.....	33.01	
32 93 43 00-0875 EA 5 Gallon Cupressus sempervirens - Italian Cypress.....	11.36	
32 93 43 00-0876 EA 15 Gallon Cupressus sempervirens - Italian Cypress.....	31.24	
32 93 43 00-0877 EA 1 Gallon Illicium anisatum - Anise Tree.....	3.25	
32 93 43 00-0878 EA 3 Gallon Illicium anisatum - Anise Tree.....	7.51	
32 93 43 00-0879 EA 1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	3.34	
32 93 43 00-0880 EA 2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	6.53	
32 93 43 00-0881 EA 3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	8.09	

32 Exterior Improvements

32 90 Planting

32 93 Plants

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0882	EA	5	Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	9.51	
32 93 43 00-0883	EA	1	Gallon Juniperus - Blue Sargent Juniper	3.34	
32 93 43 00-0884	EA	2	Gallon Juniperus - Blue Sargent Juniper	6.53	
32 93 43 00-0885	EA	3	Gallon Juniperus - Blue Sargent Juniper	8.09	
32 93 43 00-0886	EA	5	Gallon Juniperus - Blue Sargent Juniper	9.51	
32 93 43 00-0887	EA	5	Gallon Juniperus - Compact Pfitzer Juniper	9.51	
32 93 43 00-0888	EA	15"	To 18" Juniperus - Compact Pfitzer Juniper	10.29	
32 93 43 00-0889	EA	18"	To 24" Juniperus - Compact Pfitzer Juniper	12.42	
32 93 43 00-0890	EA	2'	To 2 1/2' Juniperus - Compact Pfitzer Juniper	18.46	
32 93 43 00-0891	EA	2-1/2'	To 3' Juniperus - Compact Pfitzer Juniper	21.37	
32 93 43 00-0892	EA	5'	To 6' Juniperus - Fairview Juniper	31.83	
32 93 43 00-0893	EA	1	Gallon Juniperus - Hollywood Juniper	4.26	
32 93 43 00-0894	EA	5	Gallon Juniperus - Hollywood Juniper	11.86	
32 93 43 00-0895	EA	15	Gallon Juniperus - Hollywood Juniper	50.27	
32 93 43 00-0896	EA	4'	To 5' Juniperus - Hollywood Juniper	33.23	
32 93 43 00-0897	EA	5'	To 6' Juniperus - Hollywood Juniper	42.81	
32 93 43 00-0898	EA	1	Gallon Juniperus - Parson's Juniper	3.34	
32 93 43 00-0899	EA	2	Gallon Juniperus - Parson's Juniper	6.60	
32 93 43 00-0900	EA	3	Gallon Juniperus - Parson's Juniper	8.16	
32 93 43 00-0901	EA	5	Gallon Juniperus - Parson's Juniper	9.66	
32 93 43 00-0902	EA	5	Gallon Juniperus - Skyrocket Juniper	11.93	
32 93 43 00-0903	EA	15	Gallon Juniperus - Skyrocket Juniper	50.76	
32 93 43 00-0904	EA	2'	To 3' Juniperus - Skyrocket Juniper	17.89	
32 93 43 00-0905	EA	3'	To 4' Juniperus - Skyrocket Juniper	25.35	
32 93 43 00-0906	EA	4'	To 5' Juniperus - Skyrocket Juniper	33.58	
32 93 43 00-0907	EA	5'	To 6' Juniperus - Skyrocket Juniper	43.31	
32 93 43 00-0908	EA	6'	To 8' Juniperus - Skyrocket Juniper	55.95	
32 93 43 00-0909	EA	1	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	3.34	
32 93 43 00-0910	EA	2	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	6.57	
32 93 43 00-0911	EA	3	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	8.06	
32 93 43 00-0912	EA	5	Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.55	
32 93 43 00-0913	EA	1	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	3.34	
32 93 43 00-0914	EA	2	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	6.57	
32 93 43 00-0915	EA	3	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	8.06	
32 93 43 00-0916	EA	5	Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	9.55	
32 93 43 00-0917	EA	2'	To 3' Juniperus virginiana - Eastern Red Cedar	17.89	
32 93 43 00-0918	EA	3'	To 4' Juniperus virginiana - Eastern Red Cedar	25.35	
32 93 43 00-0919	EA	4'	To 5' Juniperus virginiana - Eastern Red Cedar	33.58	
32 93 43 00-0920	EA	5'	To 6' Juniperus virginiana - Eastern Red Cedar	43.31	
32 93 43 00-0921	EA	5'	Picea abies & cvs - Norway Spruce	103.85	
32 93 43 00-0922	EA	6'	Picea abies & cvs - Norway Spruce	118.01	
32 93 43 00-0923	EA	7'	Picea abies & cvs - Norway Spruce	141.61	
32 93 43 00-0924	EA	8'	Picea abies & cvs - Norway Spruce	165.22	
32 93 43 00-0925	EA	9'	Picea abies & cvs - Norway Spruce	221.86	
32 93 43 00-0926	EA	10'	Picea abies & cvs - Norway Spruce	269.06	
32 93 43 00-0927	EA	12'	Picea abies & cvs - Norway Spruce	330.43	
32 93 43 00-0928	EA	14'	Picea abies & cvs - Norway Spruce	401.24	
32 93 43 00-0929	EA	6'	Picea glauca - White Spruce	99.13	
32 93 43 00-0930	EA	7'	Picea glauca - White Spruce	141.61	
32 93 43 00-0931	EA	8'	Picea glauca - White Spruce	165.22	
32 93 43 00-0932	EA	9'	Picea glauca - White Spruce	198.26	
32 93 43 00-0933	EA	10'	Picea glauca - White Spruce	236.02	
32 93 43 00-0934	EA	12'	Picea glauca - White Spruce	283.23	
32 93 43 00-0935	EA	4'	Picea glauca densata - Black Hills Spruce	56.65	
32 93 43 00-0936	EA	5'	Picea glauca densata - Black Hills Spruce	84.97	
32 93 43 00-0937	EA	6'	Picea glauca densata - Black Hills Spruce	127.45	
32 93 43 00-0938	EA	7'	Picea glauca densata - Black Hills Spruce	151.05	
32 93 43 00-0939	EA	8'	Picea glauca densata - Black Hills Spruce	174.66	
32 93 43 00-0940	EA	9'	Picea glauca densata - Black Hills Spruce	193.54	
32 93 43 00-0941	EA	10'	Picea glauca densata - Black Hills Spruce	212.42	
32 93 43 00-0942	EA	6'	Picea omorika & cvs - Serbian Spruce	127.45	
32 93 43 00-0943	EA	7'	Picea omorika & cvs - Serbian Spruce	141.61	
32 93 43 00-0944	EA	8'	Picea omorika & cvs - Serbian Spruce	169.94	
32 93 43 00-0945	EA	9'	Picea omorika & cvs - Serbian Spruce	198.26	
32 93 43 00-0946	EA	10'	Picea omorika & cvs - Serbian Spruce	226.58	
32 93 43 00-0947	EA	5'	Picea pungens - Colorado Green Spruce	103.85	
32 93 43 00-0948	EA	6'	Picea pungens - Colorado Green Spruce	132.17	
32 93 43 00-0949	EA	7'	Picea pungens - Colorado Green Spruce	155.77	
32 93 43 00-0950	EA	8'	Picea pungens - Colorado Green Spruce	179.38	
32 93 43 00-0951	EA	9'	Picea pungens - Colorado Green Spruce	207.70	
32 93 43 00-0952	EA	10'	Picea pungens - Colorado Green Spruce	391.80	
32 93 43 00-0953	EA	12'	Picea pungens - Colorado Green Spruce	283.23	
32 93 43 00-0954	EA	14'	Picea pungens - Colorado Green Spruce	330.43	
32 93 43 00-0955	EA	16'	Picea pungens - Colorado Green Spruce	424.84	
32 93 43 00-0956	EA	5'	Picea pungens glauca & cvs - Colorado Blue Spruce	103.85	
32 93 43 00-0957	EA	6'	Picea pungens glauca & cvs - Colorado Blue Spruce	141.61	
32 93 43 00-0958	EA	7'	Picea pungens glauca & cvs - Colorado Blue Spruce	165.22	
32 93 43 00-0959	EA	8'	Picea pungens glauca & cvs - Colorado Blue Spruce	188.82	
32 93 43 00-0960	EA	9'	Picea pungens glauca & cvs - Colorado Blue Spruce	212.42	
32 93 43 00-0961	EA	10'	Picea pungens glauca & cvs - Colorado Blue Spruce	259.62	
32 93 43 00-0962	EA	12'	Picea pungens glauca & cvs - Colorado Blue Spruce	330.43	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0963 EA 16' Picea pungens glauca & cvs - Colorado Blue Spruce	495.65	
32 93 43 00-0964 EA 4' Pinus cembra - Swiss Stone Pine	80.25	
32 93 43 00-0965 EA 5' Pinus cembra - Swiss Stone Pine	99.13	
32 93 43 00-0966 EA 6' Pinus cembra - Swiss Stone Pine	122.73	
32 93 43 00-0967 EA 6' Pinus flexilis & cvs - Limber Pine	118.01	
32 93 43 00-0968 EA 7' Pinus flexilis & cvs - Limber Pine	136.89	
32 93 43 00-0969 EA 8' Pinus flexilis & cvs - Limber Pine	169.94	
32 93 43 00-0970 EA 9' Pinus flexilis & cvs - Limber Pine	207.70	
32 93 43 00-0971 EA 10' Pinus flexilis & cvs - Limber Pine	236.02	
32 93 43 00-0972 EA 2 Gallon Pinus mugo - Mugho Pine	9.30	
32 93 43 00-0973 EA 3 Gallon Pinus mugo - Mugho Pine	11.64	
32 93 43 00-0974 EA 5 Gallon Pinus mugo - Mugho Pine	14.77	
32 93 43 00-0975 EA 12" To 15" Spread Pinus mugo - Mugho Pine	11.43	
32 93 43 00-0976 EA 15" To 18" Spread Pinus mugo - Mugho Pine	13.63	
32 93 43 00-0977 EA 18" To 24" Spread Pinus mugo - Mugho Pine	18.46	
32 93 43 00-0978 EA 2' To 2-1/2' Spread Pinus mugo - Mugho Pine	25.84	
32 93 43 00-0979 EA 2-1/2' To 3' Spread Pinus mugo - Mugho Pine	33.23	
32 93 43 00-0980 EA 3' To 3-1/2' Spread Pinus mugo - Mugho Pine	41.39	
32 93 43 00-0981 EA 3-1/2' To 4' Spread Pinus mugo - Mugho Pine	50.27	
32 93 43 00-0982 EA 6' Pinus nigra - Austrian Pine.....	118.01	
32 93 43 00-0983 EA 7' Pinus nigra - Austrian Pine.....	141.61	
32 93 43 00-0984 EA 8' Pinus nigra - Austrian Pine.....	184.10	
32 93 43 00-0985 EA 9' Pinus nigra - Austrian Pine.....	212.42	
32 93 43 00-0986 EA 10' Pinus nigra - Austrian Pine.....	250.18	
32 93 43 00-0987 EA 12' Pinus nigra - Austrian Pine.....	283.23	
32 93 43 00-0988 EA 14' Pinus nigra - Austrian Pine.....	316.27	
32 93 43 00-0989 EA 16' Pinus nigra - Austrian Pine.....	358.75	
32 93 43 00-0990 EA 5' Pinus peuce - Macedonian Pine.....	146.33	
32 93 43 00-0991 EA 6' Pinus peuce - Macedonian Pine.....	184.10	
32 93 43 00-0992 EA 7' Pinus peuce - Macedonian Pine.....	212.42	
32 93 43 00-0993 EA 8' Pinus peuce - Macedonian Pine.....	240.74	
32 93 43 00-0994 EA 9' Pinus peuce - Macedonian Pine.....	278.51	
32 93 43 00-0995 EA 2' Pinus strobus - Pyramidal White Pine.....	13.07	
32 93 43 00-0996 EA 3' Pinus strobus - Pyramidal White Pine.....	17.47	
32 93 43 00-0997 EA 4' Pinus strobus - Pyramidal White Pine.....	19.27	
32 93 43 00-0998 EA 5' Pinus strobus - Pyramidal White Pine.....	21.07	
32 93 43 00-0999 EA 6' Pinus strobus - Pyramidal White Pine.....	26.26	
32 93 43 00-1000 EA 7' Pinus strobus - Pyramidal White Pine.....	34.94	
32 93 43 00-1001 EA 8' Pinus strobus - Pyramidal White Pine.....	48.01	
32 93 43 00-1002 EA 10' Pinus strobus - Pyramidal White Pine.....	95.79	
32 93 43 00-1003 EA 12' Pinus strobus - Pyramidal White Pine.....	227.65	
32 93 43 00-1004 EA 14' Pinus strobus - Pyramidal White Pine.....	305.41	
32 93 43 00-1005 EA 16' Pinus strobus - Pyramidal White Pine.....	367.39	
32 93 43 00-1006 EA 2' Pinus strobus - White Pine.....	20.09	
32 93 43 00-1007 EA 3' Pinus strobus - White Pine.....	28.66	
32 93 43 00-1008 EA 4' Pinus strobus - White Pine.....	45.71	
32 93 43 00-1009 EA 5' Pinus strobus - White Pine.....	65.14	
32 93 43 00-1010 EA 6' Pinus strobus - White Pine.....	95.54	
32 93 43 00-1011 EA 7' Pinus strobus - White Pine.....	114.00	
32 93 43 00-1012 EA 8' Pinus strobus - White Pine.....	154.17	
32 93 43 00-1013 EA 10' Pinus strobus - White Pine.....	207.37	
32 93 43 00-1014 EA 12' Pinus strobus - White Pine.....	274.68	
32 93 43 00-1015 EA 14' Pinus strobus - White Pine.....	336.57	
32 93 43 00-1016 EA 16' Pinus strobus - White Pine.....	409.31	
32 93 43 00-1017 EA 3' Pinus sylvestris - Scotch Pine.....	31.01	
32 93 43 00-1018 EA 4' Pinus sylvestris - Scotch Pine.....	43.05	
32 93 43 00-1019 EA 5' Pinus sylvestris - Scotch Pine.....	60.42	
32 93 43 00-1020 EA 6' Pinus sylvestris - Scotch Pine.....	83.83	
32 93 43 00-1021 EA 7' Pinus sylvestris - Scotch Pine.....	102.72	
32 93 43 00-1022 EA 8' Pinus sylvestris - Scotch Pine.....	145.01	
32 93 43 00-1023 EA 9' Pinus sylvestris - Scotch Pine.....	184.10	
32 93 43 00-1024 EA 10' Pinus sylvestris - Scotch Pine.....	212.42	
32 93 43 00-1025 EA 12' Pinus sylvestris - Scotch Pine.....	250.18	
32 93 43 00-1026 EA 14' Pinus sylvestris - Scotch Pine.....	283.23	
32 93 43 00-1027 EA 16' Pinus sylvestris - Scotch Pine.....	330.43	
32 93 43 00-1028 EA 5' To 6' Pinus taeda - Loblolly Pine.....	13.50	
32 93 43 00-1029 EA 1 Gallon Pinus thunbergiana - Japanese Black Pine.....	3.34	
32 93 43 00-1030 EA 5 Gallon Pinus thunbergiana - Japanese Black Pine.....	11.86	
32 93 43 00-1031 EA 15 Gallon Pinus thunbergiana - Japanese Black Pine.....	38.41	
32 93 43 00-1032 EA 2' To 3' Pinus thunbergiana - Japanese Black Pine.....	16.26	
32 93 43 00-1033 EA 3' To 4' Pinus thunbergiana - Japanese Black Pine.....	20.66	
32 93 43 00-1034 EA 4' To 5' Pinus thunbergiana - Japanese Black Pine.....	31.03	
32 93 43 00-1035 EA 5' To 6' Pinus thunbergiana - Japanese Black Pine.....	60.56	
32 93 43 00-1036 EA 6' To 7' Pinus Thunbergiana - Japanese Black Pine.....	67.95	
32 93 43 00-1037 EA 7' To 8' Pinus thunbergiana - Japanese Black Pine.....	84.91	
32 93 43 00-1038 EA 1 Gallon Pinus mugo - Mugho Pine.....	4.40	
32 93 43 00-1039 EA 1 Gallon Podocarpus - Chinese Podocarpus.....	2.20	
32 93 43 00-1040 EA 3 Gallon Podocarpus - Chinese Podocarpus.....	5.11	
32 93 43 00-1041 EA 7 Gallon Podocarpus - Chinese Podocarpus.....	14.77	
32 93 43 00-1042 EA 15 Gallon Podocarpus - Chinese Podocarpus.....	24.00	
32 93 43 00-1043 EA 4' To 5' Podocarpus - Chinese Podocarpus.....	36.92	

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 43 00-1044	EA	5' Pseudotsuga menziesii - Douglas Fir.....	94.41	
32 93 43 00-1045	EA	6' Pseudotsuga menziesii - Douglas Fir.....	113.29	
32 93 43 00-1046	EA	7' Pseudotsuga menziesii - Douglas Fir.....	141.61	
32 93 43 00-1047	EA	8' Pseudotsuga menziesii - Douglas Fir.....	169.94	
32 93 43 00-1048	EA	9' Pseudotsuga menziesii - Douglas Fir.....	212.42	
32 93 43 00-1049	EA	10' Pseudotsuga menziesii - Douglas Fir.....	250.18	
32 93 43 00-1050	EA	12' Pseudotsuga menziesii - Douglas Fir.....	283.23	
32 93 43 00-1051	EA	5' To 6' Sequoia sempervirens - Dawn Redwood.....	46.15	
32 93 43 00-1052	EA	6' To 8' Sequoia sempervirens - Dawn Redwood.....	62.30	
32 93 43 00-1053	EA	8' To 10' Sequoia sempervirens - Dawn Redwood.....	76.15	
32 93 43 00-1054	EA	5' To 6' Taxodium distichum & cvs - Bald Cypress.....	32.80	
32 93 43 00-1055	EA	6' To 7' Taxodium distichum & cvs - Bald Cypress.....	41.00	
32 93 43 00-1056	EA	7' To 8' Taxodium distichum & cvs - Bald Cypress.....	50.69	
32 93 43 00-1057	EA	8' To 10' Taxodium distichum & cvs - Bald Cypress.....	64.15	
32 93 43 00-1058	EA	6' Tsuga canadensis - Northern Hemlock.....	94.41	
32 93 43 00-1059	EA	7' Tsuga canadensis - Northern Hemlock.....	118.01	
32 93 43 00-1060	EA	8' Tsuga canadensis - Northern Hemlock.....	160.49	
32 93 43 00-1061	EA	9' Tsuga canadensis - Northern Hemlock.....	188.82	
32 93 43 00-1062	EA	10' Tsuga canadensis - Northern Hemlock.....	212.42	
32 93 43 00-1063	EA	12' Tsuga canadensis - Northern Hemlock.....	236.02	
32 93 43 00-1064	EA	3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae.....	8.90	
32 93 43 00-1065	EA	3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae.....	19.97	

32 93 43 00-1066 Palm And Subtropical Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-1067	EA	4' To 5' Acacia baileyana - Bailey Acacia.....	192.12	
32 93 43 00-1068	EA	6' Acacia baileyana - Bailey Acacia.....	230.54	
32 93 43 00-1069	EA	8' Acacia baileyana - Bailey Acacia.....	268.97	
32 93 43 00-1070	EA	10' Acacia baileyana - Bailey Acacia.....	336.21	
32 93 43 00-1071	EA	6' Agonis flexuosa - Peppermint Tree.....	115.27	
32 93 43 00-1072	EA	8' Agonis flexuosa - Peppermint Tree.....	144.09	
32 93 43 00-1073	EA	10' Agonis flexuosa - Peppermint Tree.....	172.91	
32 93 43 00-1074	EA	24" Box Agonis flexuosa - Peppermint Tree.....	143.61	
32 93 43 00-1075	EA	4' To 5' Archontophoenix cunninghamiana - King Palm.....	87.19	
32 93 43 00-1076	EA	6' To 8' Archontophoenix cunninghamiana - King Palm.....	135.64	
32 93 43 00-1077	EA	8' To 10' Archontophoenix cunninghamiana - King Palm.....	174.39	
32 93 43 00-1078	EA	10' To 12' Archontophoenix cunninghamiana - King Palm.....	232.52	
32 93 43 00-1079	EA	4' To 5' Arecastrum romanzoffianum - Queen Palm.....	66.06	
32 93 43 00-1080	EA	6' To 8' Arecastrum romanzoffianum - Queen Palm.....	92.48	
32 93 43 00-1081	EA	8' To 10' Arecastrum romanzoffianum - Queen Palm.....	118.90	
32 93 43 00-1082	EA	10' To 12' Arecastrum romanzoffianum - Queen Palm.....	145.32	
32 93 43 00-1083	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm.....	176.15	
32 93 43 00-1084	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm.....	220.19	
32 93 43 00-1085	EA	6' Bauhinia purpurea - Purple Orchid Tree.....	475.60	
32 93 43 00-1086	EA	8' Bauhinia purpurea - Purple Orchid Tree.....	634.14	
32 93 43 00-1087	EA	10' Bauhinia purpurea - Purple Orchid Tree.....	792.68	
32 93 43 00-1088	EA	24" Box Bauhinia purpurea - Purple Orchid Tree.....	206.10	
32 93 43 00-1089	EA	6' Bauhinia variegata candida - White Orchid Tree.....	528.45	
32 93 43 00-1090	EA	8' Bauhinia variegata candida - White Orchid Tree.....	704.60	
32 93 43 00-1091	EA	10' Bauhinia variegata candida - White Orchid Tree.....	880.75	
32 93 43 00-1092	EA	4' To 5' Bauhinia blakeana - Hong Kong Orchid.....	378.72	
32 93 43 00-1093	EA	6' Bauhinia blakeana - Hong Kong Orchid.....	449.18	
32 93 43 00-1094	EA	8' Bauhinia blakeana - Hong Kong Orchid.....	598.91	
32 93 43 00-1095	EA	10' Bauhinia blakeana - Hong Kong Orchid.....	748.64	
32 93 43 00-1096	EA	6' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	259.36	
32 93 43 00-1097	EA	8' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	345.82	
32 93 43 00-1098	EA	10' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	432.27	
32 93 43 00-1099	EA	6' Callistemon viminalis - Weeping Bottle Brush.....	259.36	
32 93 43 00-1100	EA	8' Callistemon viminalis - Weeping Bottle Brush.....	345.82	
32 93 43 00-1101	EA	10' Callistemon viminalis - Weeping Bottle Brush.....	432.27	
32 93 43 00-1102	EA	12' Callistemon viminalis - Weeping Bottle Brush.....	518.72	
32 93 43 00-1103	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm.....	184.96	
32 93 43 00-1104	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm.....	290.65	
32 93 43 00-1105	EA	3' To 4' Chamaerops humilis - European Fan Palm.....	158.54	
32 93 43 00-1106	EA	5' To 6' Chamaerops humilis - European Fan Palm.....	211.38	
32 93 43 00-1107	EA	7' To 8' Chamaerops humilis - European Fan Palm.....	493.22	
32 93 43 00-1108	EA	9' To 10' Chamaerops humilis - European Fan Palm.....	845.52	
32 93 43 00-1109	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	123.30	
32 93 43 00-1110	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	246.61	
32 93 43 00-1111	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	317.07	
32 93 43 00-1112	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	440.38	
32 93 43 00-1113	EA	12' To 16' Cocos nucifera - Coconut Palm.....	371.45	
32 93 43 00-1114	EA	6' Eriobotrya deflexa - Bronze Loquat.....	475.60	
32 93 43 00-1115	EA	8' Eriobotrya deflexa - Bronze Loquat.....	634.14	
32 93 43 00-1116	EA	10' Eriobotrya deflexa - Bronze Loquat.....	792.68	
32 93 43 00-1117	EA	6' Eucalyptus erythrocorys - Red Cap Gum.....	475.60	
32 93 43 00-1118	EA	8' Eucalyptus erythrocorys - Red Cap Gum.....	634.14	
32 93 43 00-1119	EA	10' Eucalyptus erythrocorys - Red Cap Gum.....	792.68	
32 93 43 00-1120	EA	6' Eucalyptus gunnii - Cider Gum.....	475.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1121	EA		8' Eucalyptus gunnii - Cider Gum.....	634.14	
32 93 43 00-1122	EA		10' Eucalyptus gunnii - Cider Gum.....	792.68	
32 93 43 00-1123	EA		6' Eucalyptus leucoxydon - White Ironbark.....	475.60	
32 93 43 00-1124	EA		8' Eucalyptus leucoxydon - White Ironbark.....	634.14	
32 93 43 00-1125	EA		10' Eucalyptus leucoxydon - White Ironbark.....	792.68	
32 93 43 00-1126	EA		12' Eucalyptus leucoxydon - White Ironbark.....	951.21	
32 93 43 00-1127	EA		6' Eucalyptus polyanthemos - Silver Dollar Gum.....	475.60	
32 93 43 00-1128	EA		8' Eucalyptus polyanthemos - Silver Dollar Gum.....	634.14	
32 93 43 00-1129	EA		10' Eucalyptus polyanthemos - Silver Dollar Gum.....	792.68	
32 93 43 00-1130	EA		6' Eucalyptus torquata - Coral Gum.....	475.60	
32 93 43 00-1131	EA		8' Eucalyptus torquata - Coral Gum.....	634.14	
32 93 43 00-1132	EA		10' Eucalyptus torquata - Coral Gum.....	792.68	
32 93 43 00-1133	EA		8' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	268.97	
32 93 43 00-1134	EA		10' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	365.03	
32 93 43 00-1135	EA		12' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	451.48	
32 93 43 00-1136	EA		6' Jacarandra acutifolia - Jacaranda.....	475.60	
32 93 43 00-1137	EA		8' Jacarandra acutifolia - Jacaranda.....	634.14	
32 93 43 00-1138	EA		10' Jacarandra acutifolia - Jacaranda.....	792.68	
32 93 43 00-1139	EA		24" Box Jacarandra acutifolia - Jacaranda.....	206.10	
32 93 43 00-1140	EA		6' Olea europaea - Olive "Fruitless".....	293.14	
32 93 43 00-1141	EA		8' Olea europaea - Olive "Fruitless".....	390.85	
32 93 43 00-1142	EA		10' Olea europaea - Olive "Fruitless".....	488.56	
32 93 43 00-1143	EA		12' Olea europaea - Olive "Fruitless".....	586.28	
32 93 43 00-1144	EA		24" Box Olea europaea - Olive "Fruitless".....	360.45	
32 93 43 00-1145	EA		5 Gallon Pistacia chinensis - Chinese Pistache.....	31.71	
32 93 43 00-1146	EA		15 Gallon Pistacia chinensis - Chinese Pistache.....	105.69	
32 93 43 00-1147	EA		24" Box Pistacia chinensis - Chinese Pistache.....	410.43	
32 93 43 00-1148	EA		36" Box Pistacia chinensis - Chinese Pistache.....	1,092.13	
32 93 43 00-1149	EA		48" Box Pistacia chinensis - Chinese Pistache.....	2,325.18	
32 93 43 00-1150	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	17.87	
32 93 43 00-1151	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	59.56	
32 93 43 00-1152	EA		24" Box Pyrus kawakamii - Evergreen Pear, Single.....	223.82	
32 93 43 00-1153	EA		30" Box Pyrus kawakamii - Evergreen Pear, Single.....	409.22	
32 93 43 00-1154	EA		36" Box Pyrus kawakamii - Evergreen Pear, Single.....	595.57	
32 93 43 00-1155	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	17.87	
32 93 43 00-1156	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	63.40	
32 93 43 00-1157	EA		24" Box Pyrus kawakamii - Evergreen Pear, Multi.....	230.54	
32 93 43 00-1158	EA		30" Box Pyrus kawakamii - Evergreen Pear, Multi.....	409.22	
32 93 43 00-1159	EA		36" Box Pyrus kawakamii - Evergreen Pear, Multi.....	595.57	
32 93 43 00-1160	EA		9' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	132.11	
32 93 43 00-1161	EA		11' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	220.19	
32 93 43 00-1162	EA		15' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	334.68	
32 93 43 00-1163	EA		17' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	378.72	
32 93 43 00-1164	EA		20' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	440.38	
32 93 43 00-1165	EA		4' To 5' Rhaps excelsa - Lady Palm.....	334.68	
32 93 43 00-1166	EA		6' To 7' Rhaps excelsa - Lady Palm.....	475.60	
32 93 43 00-1167	EA		8' To 9' Roystonea regia - Royal Palm.....	269.51	
32 93 43 00-1168	EA		10' To 11' Roystonea regia - Royal Palm.....	329.40	
32 93 43 00-1169	EA		12' To 13' Roystonea regia - Royal Palm.....	389.29	
32 93 43 00-1170	EA		14' To 15' Roystonea regia - Royal Palm.....	449.18	
32 93 43 00-1171	EA		16' To 17' Roystonea regia - Royal Palm.....	509.07	
32 93 43 00-1172	EA		18' To 19' Roystonea regia - Royal Palm.....	568.96	
32 93 43 00-1173	EA		20' To 21' Roystonea regia - Royal Palm.....	628.86	
32 93 43 00-1174	EA		10' To 16' Sabal palmetto - Cabbage Palm.....	136.20	
32 93 43 00-1175	EA		6' To 7' Thrinax morrisii - Key Thatch Palm.....	369.92	
32 93 43 00-1176	EA		8' To 9' Thrinax morrisii - Key Thatch Palm.....	475.60	
32 93 43 00-1177	EA		10' To 11' Thrinax morrisii - Key Thatch Palm.....	581.30	
32 93 43 00-1178	EA		1 Gallon Washingtonia robusta - Mexican Fan Palm.....	7.24	
32 93 43 00-1179	EA		5 Gallon Washingtonia robusta - Mexican Fan Palm.....	22.53	
32 93 43 00-1180	EA		15 Gallon Washingtonia robusta - Mexican Fan Palm.....	78.86	
32 93 43 00-1181	EA		24" Box Washingtonia robusta - Mexican Fan Palm.....	257.49	
32 93 43 00-1182	EA		36" Box Washingtonia robusta - Mexican Fan Palm.....	683.95	
32 93 43 00-1183	EA		6' Washingtonia robusta - Mexican Fan Palm.....	475.60	
32 93 43 00-1184	EA		8' Washingtonia robusta - Mexican Fan Palm.....	634.14	
32 93 43 00-1185	EA		10' Washingtonia robusta - Mexican Fan Palm.....	792.68	
32 93 43 00-1186	EA		12' Washingtonia robusta - Mexican Fan Palm.....	951.21	

32 93 83 Planting of Trees, Shrubs and Ground Cover ^(32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees ^(32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA		3" To 5" Bare Root Seedlings Tree Planting.....	1.23	
32 93 83 00-0003	EA		6" To 10" Bare Root Seedlings Tree Planting.....	1.97	
32 93 83 00-0004	EA		11" To 16" Bare Root Seedlings Tree Planting.....	2.47	
32 93 83 00-0005	EA		17" To 24" Bare Root Seedlings Tree Planting.....	3.95	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0006 EA 1 Gallon Container Tree Planting.....	19.73	
For >10 To 25, Deduct	-0.99	
For >25 To 50, Deduct	-2.47	
For >50 To 100, Deduct	-3.95	
For >100, Deduct	-5.92	
32 93 83 00-0007 EA 2 Gallon Container Tree Planting.....	27.62	
For >10 To 25, Deduct	-1.38	
For >25 To 50, Deduct	-3.45	
For >50 To 100, Deduct	-5.52	
For >100, Deduct	-8.29	
32 93 83 00-0008 EA 3 Gallon Container Tree Planting.....	35.51	
For >10 To 25, Deduct	-1.78	
For >25 To 50, Deduct	-4.44	
For >50 To 100, Deduct	-7.10	
For >100, Deduct	-10.65	
32 93 83 00-0009 EA 5 Gallon Container Tree Planting.....	59.19	
For >10 To 25, Deduct	-2.96	
For >25 To 50, Deduct	-7.40	
For >50 To 100, Deduct	-11.84	
For >100, Deduct	-17.76	
32 93 83 00-0010 EA 7 Gallon Container Tree Planting.....	78.91	
For >10 To 25, Deduct	-3.95	
For >25 To 50, Deduct	-9.86	
For >50 To 100, Deduct	-15.78	
For >100, Deduct	-23.67	
32 93 83 00-0011 EA 10 Gallon Container Tree Planting.....	102.59	
For >10 To 25, Deduct	-5.13	
For >25 To 50, Deduct	-12.82	
For >50 To 100, Deduct	-20.52	
For >100, Deduct	-30.78	
32 93 83 00-0012 EA 15 Gallon Container Tree Planting.....	145.99	
For >10 To 25, Deduct	-7.30	
For >25 To 50, Deduct	-18.25	
For >50 To 100, Deduct	-29.20	
For >100, Deduct	-43.80	
32 93 83 00-0013 EA 20 Gallon Container Tree Planting.....	240.69	
For >10 To 25, Deduct	-12.03	
For >25 To 50, Deduct	-30.09	
For >50 To 100, Deduct	-48.14	
For >100, Deduct	-72.21	
32 93 83 00-0014 EA 25 Gallon Container Tree Planting.....	311.70	
For >10 To 25, Deduct	-15.59	
For >25 To 50, Deduct	-38.96	
For >50 To 100, Deduct	-62.34	
For >100, Deduct	-93.51	
32 93 83 00-0015 EA 30 Gallon Container Tree Planting.....	374.83	
For >10 To 25, Deduct	-18.74	
For >25 To 50, Deduct	-46.85	
For >50 To 100, Deduct	-74.97	
For >100, Deduct	-112.45	
32 93 83 00-0016 EA 45 Gallon Container Tree Planting.....	465.59	
For >10 To 25, Deduct	-23.28	
For >25 To 50, Deduct	-58.20	
For >50 To 100, Deduct	-93.12	
For >100, Deduct	-139.68	
32 93 83 00-0017 EA 65 Gallon Container Tree Planting.....	552.39	
For >10 To 25, Deduct	-27.62	
For >25 To 50, Deduct	-69.05	
For >50 To 100, Deduct	-110.48	
For >100, Deduct	-165.72	
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting	197.29	
For >10 To 25, Deduct	-9.86	
For >25 To 50, Deduct	-24.66	
For >50 To 100, Deduct	-39.46	
For >100, Deduct	-59.19	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting	262.78	
For >10 To 25, Deduct	-13.14	
For >25 To 50, Deduct	-32.85	
For >50 To 100, Deduct	-52.56	
For >100, Deduct	-78.83	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting	295.92	
For >10 To 25, Deduct	-14.80	
For >25 To 50, Deduct	-36.99	
For >50 To 100, Deduct	-59.18	
For >100, Deduct	-88.78	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting	345.25	
For >10 To 25, Deduct	-17.26	
For >25 To 50, Deduct	-43.16	
For >50 To 100, Deduct	-69.05	
For >100, Deduct	-103.58	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting	461.64	
For >10 To 25, Deduct	-23.08	
For >25 To 50, Deduct	-57.71	
For >50 To 100, Deduct	-92.33	
For >100, Deduct	-138.49	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting	528.72	
For >10 To 25, Deduct	-26.44	
For >25 To 50, Deduct	-66.09	
For >50 To 100, Deduct	-105.74	
For >100, Deduct	-158.62	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting	641.17	
For >10 To 25, Deduct	-32.06	
For >25 To 50, Deduct	-80.15	
For >50 To 100, Deduct	-128.23	
For >100, Deduct	-192.35	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting	769.41	
For >10 To 25, Deduct	-38.47	
For >25 To 50, Deduct	-96.18	
For >50 To 100, Deduct	-153.88	
For >100, Deduct	-230.82	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting	887.78	
For >10 To 25, Deduct	-44.39	
For >25 To 50, Deduct	-110.97	
For >50 To 100, Deduct	-177.56	
For >100, Deduct	-266.33	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting	295.92	
For >10 To 25, Deduct	-14.80	
For >25 To 50, Deduct	-36.99	
For >50 To 100, Deduct	-59.18	
For >100, Deduct	-88.78	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	345.25	
For >10 To 25, Deduct	-17.26	
For >25 To 50, Deduct	-43.16	
For >50 To 100, Deduct	-69.05	
For >100, Deduct	-103.58	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	463.62	
For >10 To 25, Deduct	-23.18	
For >25 To 50, Deduct	-57.95	
For >50 To 100, Deduct	-92.72	
For >100, Deduct	-139.09	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	532.66	
For >10 To 25, Deduct	-26.63	
For >25 To 50, Deduct	-66.58	
For >50 To 100, Deduct	-106.53	
For >100, Deduct	-159.80	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	591.85	
For >10 To 25, Deduct	-29.59	
For >25 To 50, Deduct	-73.98	
For >50 To 100, Deduct	-118.37	
For >100, Deduct	-177.56	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	678.65	
For >10 To 25, Deduct	-33.93	
For >25 To 50, Deduct	-84.83	
For >50 To 100, Deduct	-135.73	
For >100, Deduct	-203.60	
32 93 83 00-0033 Planting Shrubs <small>(32 93 83)</small>		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting	16.78	
For >10 To 25, Deduct	-0.84	
For >25 To 50, Deduct	-2.10	
For >50 To 100, Deduct	-3.36	
For >100, Deduct	-5.03	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting	23.67	
For >10 To 25, Deduct	-1.18	
For >25 To 50, Deduct	-2.96	
For >50 To 100, Deduct	-4.73	
For >100, Deduct	-7.10	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting	29.59	
For >10 To 25, Deduct	-1.48	
For >25 To 50, Deduct	-3.70	
For >50 To 100, Deduct	-5.92	
For >100, Deduct	-8.88	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting	39.46	
For >10 To 25, Deduct	-1.97	
For >25 To 50, Deduct	-4.93	
For >50 To 100, Deduct	-7.89	
For >100, Deduct	-11.84	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting	49.32	
For >10 To 25, Deduct	-2.47	
For >25 To 50, Deduct	-6.17	
For >50 To 100, Deduct	-9.86	
For >100, Deduct	-14.80	
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting	67.08	
For >10 To 25, Deduct	-3.35	
For >25 To 50, Deduct	-8.39	
For >50 To 100, Deduct	-13.42	
For >100, Deduct	-20.12	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting.....	88.77	
For >10 To 25, Deduct	-4.44	
For >25 To 50, Deduct	-11.10	
For >50 To 100, Deduct	-17.75	
For >100, Deduct	-26.63	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting.....	122.32	
For >10 To 25, Deduct	-6.12	
For >25 To 50, Deduct	-15.29	
For >50 To 100, Deduct	-24.46	
For >100, Deduct	-36.70	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting.....	205.18	
For >10 To 25, Deduct	-10.26	
For >25 To 50, Deduct	-25.65	
For >50 To 100, Deduct	-41.04	
For >100, Deduct	-61.55	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting.....	262.78	
For >10 To 25, Deduct	-13.14	
For >25 To 50, Deduct	-32.85	
For >50 To 100, Deduct	-52.56	
For >100, Deduct	-78.83	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting.....	55.24	
For >10 To 25, Deduct	-2.76	
For >25 To 50, Deduct	-6.91	
For >50 To 100, Deduct	-11.05	
For >100, Deduct	-16.57	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting.....	57.21	
For >10 To 25, Deduct	-2.86	
For >25 To 50, Deduct	-7.15	
For >50 To 100, Deduct	-11.44	
For >100, Deduct	-17.16	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting.....	63.13	
For >10 To 25, Deduct	-3.16	
For >25 To 50, Deduct	-7.89	
For >50 To 100, Deduct	-12.63	
For >100, Deduct	-18.94	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting.....	63.13	
For >10 To 25, Deduct	-3.16	
For >25 To 50, Deduct	-7.89	
For >50 To 100, Deduct	-12.63	
For >100, Deduct	-18.94	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting.....	69.05	
For >10 To 25, Deduct	-3.45	
For >25 To 50, Deduct	-8.63	
For >50 To 100, Deduct	-13.81	
For >100, Deduct	-20.72	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting.....	72.99	
For >10 To 25, Deduct	-3.65	
For >25 To 50, Deduct	-9.12	
For >50 To 100, Deduct	-14.60	
For >100, Deduct	-21.90	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting.....	78.91	
For >10 To 25, Deduct	-3.95	
For >25 To 50, Deduct	-9.86	
For >50 To 100, Deduct	-15.78	
For >100, Deduct	-23.67	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting.....	118.37	
For >10 To 25, Deduct	-5.92	
For >25 To 50, Deduct	-14.80	
For >50 To 100, Deduct	-23.67	
For >100, Deduct	-35.51	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting.....	167.69	
For >10 To 25, Deduct	-8.38	
For >25 To 50, Deduct	-20.96	
For >50 To 100, Deduct	-33.54	
For >100, Deduct	-50.31	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting.....	222.93	
For >10 To 25, Deduct	-11.15	
For >25 To 50, Deduct	-27.87	
For >50 To 100, Deduct	-44.59	
For >100, Deduct	-66.88	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting.....	252.53	
For >10 To 25, Deduct	-12.63	
For >25 To 50, Deduct	-31.57	
For >50 To 100, Deduct	-50.51	
For >100, Deduct	-75.76	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting.....	272.26	
For >10 To 25, Deduct	-13.61	
For >25 To 50, Deduct	-34.03	
For >50 To 100, Deduct	-54.45	
For >100, Deduct	-81.68	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting.....	295.92	
For >10 To 25, Deduct	-14.80	
For >25 To 50, Deduct	-36.99	
For >50 To 100, Deduct	-59.18	
For >100, Deduct	-88.78	



Exterior Improvements	32
Planting	32 90
Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs <small>(32 93 83)</small> See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058 EA 2-1/4" Diameter Potted Groundcover And Flower Planting.....	1.65	
<i>For >10 To 25, Deduct</i>	-0.08	
<i>For >25 To 50, Deduct</i>	-0.21	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.50	
32 93 83 00-0059 EA 3" Diameter Potted Groundcover And Flower Planting.....	1.88	
<i>For >10 To 25, Deduct</i>	-0.09	
<i>For >25 To 50, Deduct</i>	-0.24	
<i>For >50 To 100, Deduct</i>	-0.38	
<i>For >100, Deduct</i>	-0.56	
32 93 83 00-0060 EA 4" Diameter Potted Groundcover And Flower Planting.....	2.19	
<i>For >10 To 25, Deduct</i>	-0.11	
<i>For >25 To 50, Deduct</i>	-0.27	
<i>For >50 To 100, Deduct</i>	-0.44	
<i>For >100, Deduct</i>	-0.66	
32 93 83 00-0061 EA 5-1/2" Diameter Potted Groundcover And Flower Planting.....	2.63	
<i>For >10 To 25, Deduct</i>	-0.13	
<i>For >25 To 50, Deduct</i>	-0.33	
<i>For >50 To 100, Deduct</i>	-0.53	
<i>For >100, Deduct</i>	-0.79	
32 93 83 00-0062 EA 6" Diameter Potted Groundcover And Flower Planting.....	3.28	
<i>For >10 To 25, Deduct</i>	-0.16	
<i>For >25 To 50, Deduct</i>	-0.41	
<i>For >50 To 100, Deduct</i>	-0.66	
<i>For >100, Deduct</i>	-0.98	
32 93 83 00-0063 EA 8" Diameter Potted Groundcover And Flower Planting.....	4.93	
<i>For >10 To 25, Deduct</i>	-0.25	
<i>For >25 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-0.99	
<i>For >100, Deduct</i>	-1.48	
32 93 83 00-0064 EA 1 Gallon Container Groundcover And Flower Planting.....	15.78	
<i>For >10 To 25, Deduct</i>	-0.79	
<i>For >25 To 50, Deduct</i>	-1.97	
<i>For >50 To 100, Deduct</i>	-3.16	
<i>For >100, Deduct</i>	-4.73	
32 93 83 00-0065 EA 2 Gallon Container Groundcover And Flower Planting.....	21.70	
<i>For >10 To 25, Deduct</i>	-1.09	
<i>For >25 To 50, Deduct</i>	-2.71	
<i>For >50 To 100, Deduct</i>	-4.34	
<i>For >100, Deduct</i>	-6.51	
32 93 83 00-0066 EA 3 Gallon Container Groundcover And Flower Planting.....	27.62	
<i>For >10 To 25, Deduct</i>	-1.38	
<i>For >25 To 50, Deduct</i>	-3.45	
<i>For >50 To 100, Deduct</i>	-5.52	
<i>For >100, Deduct</i>	-8.29	
32 93 83 00-0067 EA 4 Gallon Container Groundcover And Flower Planting.....	35.51	
<i>For >10 To 25, Deduct</i>	-1.78	
<i>For >25 To 50, Deduct</i>	-4.44	
<i>For >50 To 100, Deduct</i>	-7.10	
<i>For >100, Deduct</i>	-10.65	
32 93 83 00-0068 EA 5 Gallon Container Groundcover And Flower Planting.....	43.40	
<i>For >10 To 25, Deduct</i>	-2.17	
<i>For >25 To 50, Deduct</i>	-5.43	
<i>For >50 To 100, Deduct</i>	-8.68	
<i>For >100, Deduct</i>	-13.02	
32 93 83 00-0069 EA 7 Gallon Container Groundcover And Flower Planting.....	59.19	
<i>For >10 To 25, Deduct</i>	-2.96	
<i>For >25 To 50, Deduct</i>	-7.40	
<i>For >50 To 100, Deduct</i>	-11.84	
<i>For >100, Deduct</i>	-17.76	
32 93 83 00-0070 EA Bulb Planting.....	0.98	
<i>For >10 To 25, Deduct</i>	-0.05	
<i>For >25 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100, Deduct</i>	-0.29	
32 93 83 00-0071 EA Flats Of 24 Groundcover And Flower Planting.....	27.62	
<i>For >10 To 25, Deduct</i>	-1.38	
<i>For >25, Deduct</i>	-3.45	
32 93 83 00-0072 EA Flats Of 36 Groundcover And Flower Planting.....	39.18	
<i>For >10 To 25, Deduct</i>	-1.96	
<i>For >25, Deduct</i>	-4.90	
32 93 83 00-0073 EA Flats Of 48 Groundcover And Flower Planting.....	52.15	
<i>For >10 To 25, Deduct</i>	-2.61	
<i>For >25, Deduct</i>	-6.52	
32 93 83 00-0074 Tree Pits <small>(32 93 83)</small> Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch.		
32 93 83 00-0075 EA 2' x 1-1/4' Deep Tree Pit.....	124.98	
32 93 83 00-0076 EA 2' x 2-1/2' Deep Tree Pit.....	187.43	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0077	EA	2-1/2'	x 1-1/2' Deep Tree Pit	240.55	
32 93 83 00-0078	EA	2-1/2' x 3'	Deep Tree Pit	360.77	
32 93 83 00-0079	EA	3' x 1-3/4'	Deep Tree Pit	374.17	
32 93 83 00-0080	EA	3' x 3-1/2'	Deep Tree Pit	558.73	
32 93 83 00-0081	EA	3-1/2' x 1-3/4'	Deep Tree Pit	460.21	
32 93 83 00-0082	EA	3-1/2' x 3-1/2'	Deep Tree Pit	689.48	
32 93 83 00-0083	EA	4' x 2'	Deep Tree Pit.....	550.77	
32 93 83 00-0084	EA	4' x 4'	Deep Tree Pit.....	825.76	
32 93 83 00-0085	EA	4-1/2' x 2'	Deep Tree Pit	795.81	
32 93 83 00-0086	EA	4-1/2' x 4'	Deep Tree Pit	1,195.73	
32 93 83 00-0087	EA	5' x 2-1/4'	Deep Tree Pit	1,058.45	
32 93 83 00-0088	EA	5' x 4-1/2'	Deep Tree Pit	1,578.10	
32 93 83 00-0089	EA	6' x 2-1/2'	Deep Tree Pit	1,500.96	
32 93 83 00-0090	EA	6' x 5'	Deep Tree Pit.....	2,248.57	
32 93 83 00-0091	EA	7' x 3'	Deep Tree Pit.....	2,530.37	
32 93 83 00-0092	EA	7' x 6'	Deep Tree Pit.....	3,812.98	
32 93 83 00-0093	EA	8' x 3-1/4'	Deep Tree Pit	3,486.21	
32 93 83 00-0094	EA	8' x 6-1/2'	Deep Tree Pit	5,227.42	

32 94 Planting Accessories (32 90)**32 94 13 Landscape Edging (32 94)**

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	8.48	2.40
32 94 13 00-0003	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	9.24	2.40
32 94 13 00-0004	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	9.29	2.40
32 94 13 00-0005	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	10.64	2.47
32 94 13 00-0006	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	11.58	2.47
32 94 13 00-0007	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	11.57	2.47
32 94 13 00-0008	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	9.51	2.55
32 94 13 00-0009	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	10.56	2.55
32 94 13 00-0010	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging.....	10.67	2.55
32 94 13 00-0011	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	11.97	2.63
32 94 13 00-0012	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	13.02	2.63
32 94 13 00-0013	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging.....	13.11	2.63
32 94 13 00-0014	LF	3/16" x 4" Powder Coated Steel Landscape Edging	10.56	2.47
32 94 13 00-0015	LF	1/4" x 5" Powder Coated Steel Landscape Edging	14.70	2.47

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001	LF	6" x 8" Railroad Ties	14.48	4.77
32 94 16 00-0002	LF	7" x 9" Railroad Ties	17.45	5.98
32 94 16 00-0003	LF	1" x 4" Redwood	5.03	1.69
32 94 16 00-0004	LF	2" x 4" Redwood Edging	6.90	2.53
32 94 16 00-0005	LF	4" x 6" Pressure Treated Hardwood.....	9.37	3.38
32 94 16 00-0006	LF	6" x 6" Pressure Treated Hardwood.....	12.15	4.22
32 94 16 00-0007	LF	6" x 8" Pressure Treated Hardwood.....	14.18	4.96
32 94 16 00-0008	LF	1" x 4" Pressure Treated Pine.....	3.82	1.69
32 94 16 00-0009	LF	2" x 4" Pressure Treated Pine.....	5.77	2.53
32 94 16 00-0010	LF	4" x 6" Pressure Treated Pine.....	8.91	3.27
32 94 16 00-0011	LF	6" x 6" Pressure Treated Pine.....	12.06	4.22
32 94 16 00-0012	LF	6" x 8" Pressure Treated Pine.....	14.69	4.96

32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames (32 94 43)****32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)**

32 94 43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Gate With Frame	870.72	62.92
		For >3 To 9, Deduct	-55.86	
		For >9, Deduct	-115.45	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Gate With Frame	1,006.14	62.92
		For >3 To 9, Deduct	-66.02	
		For >9, Deduct	-136.44	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Gate With Frame	1,217.37	83.90
		For >3 To 9, Deduct	-78.72	
		For >9, Deduct	-162.68	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Gate With Frame	1,512.13	83.90
		For >3 To 9, Deduct	-100.82	
		For >9, Deduct	-208.37	
32 94 43 00-0007	EA	54" Diameter, 300 To 350 LB Cast Iron Tree Gate With Frame	1,938.46	104.88
		For >3 To 9, Deduct	-129.65	
		For >9, Deduct	-267.95	
32 94 43 00-0008	EA	60" Diameter, Up To 350 LB Cast Iron Tree Gate With Frame.....	2,036.16	125.85
		For >3 To 9, Deduct	-133.84	
		For >9, Deduct	-276.59	



Exterior Improvements		32
	Planting	32 90
	Planting Accessories	32 94

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 94 43 00-0009	EA 60" Diameter, >350 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,241.30 -149.22 -308.39	125.85
32 94 43 00-0010	EA 72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,985.48 -197.17 -407.48	178.29
32 94 43 00-0011	EA 72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,104.98 -206.13 -426.00	178.29
32 94 43 00-0012	EA 72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,204.56 -213.60 -441.44	178.29
32 94 43 00-0013	EA 72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,284.22 -219.57 -453.79	178.29
32 94 43 00-0014	EA 72" Diameter, >700 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,343.97 -224.06 -463.05	178.29
32 94 43 00-0015	EA 93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,669.79 -243.77 -503.79	209.75
32 94 43 00-0016	Square Cast Iron Tree Grates With Frames <small>(32 94 43 00-0001)</small>		
32 94 43 00-0017	EA 30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	802.99 -50.79 -104.96	62.92
32 94 43 00-0018	EA 36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	972.28 -63.48 -131.20	62.92
32 94 43 00-0019	EA 48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1,444.54 -92.61 -191.39	104.88
32 94 43 00-0020	EA 48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1,703.45 -112.03 -231.52	104.88
32 94 43 00-0021	EA 48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1,942.44 -129.95 -268.57	104.88
32 94 43 00-0022	EA 48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,161.52 -146.38 -302.52	104.88
32 94 43 00-0023	EA 48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,360.68 -161.32 -333.39	104.88
32 94 43 00-0024	EA 48" x 48", >400 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,539.92 -174.76 -361.18	104.88
32 94 43 00-0025	EA 60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,444.59 -161.32 -333.39	146.83
32 94 43 00-0026	EA 60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,623.83 -174.76 -361.18	146.83
32 94 43 00-0027	EA 60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,783.16 -186.71 -385.87	146.83
32 94 43 00-0028	EA 60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,922.57 -197.17 -407.48	146.83
32 94 43 00-0029	EA 60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,042.07 -206.13 -426.00	146.83
32 94 43 00-0030	EA 60" x 60", >600 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,141.65 -213.60 -441.44	146.83
32 94 43 00-0031	EA 72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,985.48 -197.17 -407.48	178.29
32 94 43 00-0032	EA 72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,104.98 -206.13 -426.00	178.29
32 94 43 00-0033	EA 72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,204.56 -213.60 -441.44	178.29
32 94 43 00-0034	EA 72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,284.22 -219.57 -453.79	178.29
32 94 43 00-0035	EA 72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,343.97 -224.06 -463.05	178.29
32 94 43 00-0036	EA 72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame..... <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3,383.80 -227.04 -469.22	178.29

32 Exterior Improvements

32 90 Planting

32 94 Planting Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0037 EA 72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	3,403.72 -228.54	178.29
32 94 43 00-0038 EA 72" x 72", >850 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	3,423.63 -230.03	178.29
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)		
32 94 43 00-0040 EA 36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame <i>For >9, Deduct</i>	1,512.13 -100.82 -208.37	83.90
32 94 43 00-0041 EA 36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	1,542.00 -103.07 -213.00	83.90
32 94 43 00-0042 EA 36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	1,884.69 -125.62 -259.62	104.88
32 94 43 00-0043 EA 48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	2,217.28 -150.56 -311.17	104.88
32 94 43 00-0044 EA 48" x 72", >350 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	2,360.68 -161.32 -333.39	104.88
32 94 43 00-0045 EA 60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame <i>For >3 To 9, Deduct</i>	3,164.73 -210.61 -435.26	178.29
32 94 49 Plant and Tree Accessories (32 94)		
32 94 49 00-0001 Tree Guying (32 94 49)		
32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001) Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.		
32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	22.58	
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap.....	39.50	
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap.....	67.94	
32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001) Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.		
32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	96.09	
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	129.76	
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	166.76	
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope.....	214.57	
32 94 49 00-0011 Tree Wrap (32 94 49)		
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	5.97	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	9.92	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	19.66	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	30.42	
32 94 49 00-0016 Tree Guards (32 94 49)		
32 94 49 00-0017 EA 3' Prefomed Plastic Tree Guard.....	11.25	
32 94 49 00-0018 EA 2' Prefomed Plastic Tree Guard.....	9.99	
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49) Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs	6.17	
32 94 49 00-0021 Root Barriers (32 94 49)		
32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	10.41	
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	14.74	
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	17.40	
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	32.59	
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	45.01	
32 96 Transplanting (32 90) See CSI section 32 94 49 00-0001 for guying.		
32 96 33 Shrub Transplanting (32 96) Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33) Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.		



Exterior Improvements		32
Planting		32 90
Transplanting		32 96

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site	67.45	
For >25 To 50, Deduct	-6.75	
For >50, Deduct	-10.12	
32 96 33 00-0003 EA >18" To 24" Root Ball, Move Shrubs On Site	91.25	
For >25 To 50, Deduct	-9.13	
For >50, Deduct	-13.69	
32 96 33 00-0004 EA >24" To 30" Root Ball, Move Shrubs On Site	154.72	
For >25 To 50, Deduct	-15.47	
For >50, Deduct	-23.21	
32 96 33 00-0005 EA >30" To 36" Root Ball, Move Shrubs On Site	238.04	
For >25 To 50, Deduct	-23.80	
For >50, Deduct	-35.71	

32 96 43 Tree Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0793 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 96 43 00-0002 EA Up To 24" Root Ball, Move Trees On Site	258.96	
For >5 To 10, Deduct	-12.95	
For >10 To 20, Deduct	-25.90	
For >20, Deduct	-38.84	
32 96 43 00-0003 EA >24" To 30" Root Ball, Move Trees On Site.....	355.13	
For >5 To 10, Deduct	-17.76	
For >10 To 20, Deduct	-35.51	
For >20, Deduct	-53.27	
32 96 43 00-0004 EA >30" To 36" Root Ball, Move Trees On Site.....	575.45	
For >5 To 10, Deduct	-28.77	
For >10 To 20, Deduct	-57.55	
For >20, Deduct	-86.32	
32 96 43 00-0005 EA >36" To 48" Root Ball, Move Trees On Site.....	956.13	
For >5 To 10, Deduct	-47.81	
For >10 To 20, Deduct	-95.61	
For >20, Deduct	-143.42	
32 96 43 00-0006 EA >48" To 60" Root Ball, Move Trees On Site.....	1,553.70	
For >5 To 10, Deduct	-77.69	
For >10 To 20, Deduct	-155.37	
For >20, Deduct	-233.06	
32 96 43 00-0007 EA >60" To 72" Root Ball, Move Trees On Site.....	2,004.78	
For >5 To 10, Deduct	-100.24	
For >10 To 20, Deduct	-200.48	
For >20, Deduct	-300.72	
32 96 43 00-0008 EA >72" To 84" Root Ball, Move Trees On Site.....	2,589.52	
For >5 To 10, Deduct	-129.48	
For >10 To 20, Deduct	-258.95	
For >20, Deduct	-388.43	
32 96 43 00-0009 EA >84" To 96" Root Ball, Move Trees On Site.....	3,107.42	
For >5 To 10, Deduct	-155.37	
For >10 To 20, Deduct	-310.74	
For >20, Deduct	-466.11	
32 96 43 00-0010 EA >96" To 120" Root Ball, Move Trees On Site.....	3,531.15	
For >5 To 10, Deduct	-176.56	
For >10 To 20, Deduct	-353.12	
For >20, Deduct	-529.67	

END OF SECTION 32

32	32	Exterior Improvements
	32 90	Planting
	32 96	Transplanting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI	UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 **Cleaning of Water Utility Piping** ^(33 01 10)

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 **Disinfection of Water Utility Piping Systems** ^(33 01 10)

33 01 10 58-0001 **Water Main Disinfection/Sterilization** ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	909.76	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	454.88	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.34	
		For >250 To 500, Deduct	-0.02	
		For >500 To 1,000, Deduct	-0.03	
		For >1,000 To 2,000, Deduct	-0.05	
		For >2,000 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.09	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.52	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.05	
		For >1,000 To 2,000, Deduct	-0.08	
		For >2,000 To 5,000, Deduct	-0.10	
		For >5,000, Deduct	-0.13	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.69	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.07	
		For >1,000 To 2,000, Deduct	-0.10	
		For >2,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.17	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	0.80	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.08	
		For >1,000 To 2,000, Deduct	-0.12	
		For >2,000 To 5,000, Deduct	-0.16	
		For >5,000, Deduct	-0.20	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.05	
		For >250 To 500, Deduct	-0.05	
		For >500 To 1,000, Deduct	-0.11	
		For >1,000 To 2,000, Deduct	-0.16	
		For >2,000 To 5,000, Deduct	-0.21	
		For >5,000, Deduct	-0.26	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.19	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.12	
		For >1,000 To 2,000, Deduct	-0.18	
		For >2,000 To 5,000, Deduct	-0.24	
		For >5,000, Deduct	-0.30	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.36	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.14	
		For >1,000 To 2,000, Deduct	-0.20	
		For >2,000 To 5,000, Deduct	-0.27	
		For >5,000, Deduct	-0.34	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.61	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.16	
		For >1,000 To 2,000, Deduct	-0.24	
		For >2,000 To 5,000, Deduct	-0.32	
		For >5,000, Deduct	-0.40	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.07	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.21	
		For >1,000 To 2,000, Deduct	-0.31	
		For >2,000 To 5,000, Deduct	-0.41	
		For >5,000, Deduct	-0.52	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.04	
		For >250 To 500, Deduct	-0.15	
		For >500 To 1,000, Deduct	-0.30	
		For >1,000 To 2,000, Deduct	-0.46	
		For >2,000 To 5,000, Deduct	-0.61	
		For >5,000, Deduct	-0.76	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	4.20	
		For >250 To 500, Deduct	-0.21	
		For >500 To 1,000, Deduct	-0.42	
		For >1,000 To 2,000, Deduct	-0.63	
		For >2,000 To 5,000, Deduct	-0.84	
		For >5,000, Deduct	-1.05	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines	<small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines		5,042.84
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location.....		2,017.14
33 01 10 71-0005	Lining Pipe With Cement	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement.....		68.86
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement		61.27
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement		51.09
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement.....		38.31
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement.....		71.40
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement		63.51
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement		52.99
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement.....		40.03
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement.....		73.82
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement		65.76
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement		54.89
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement		41.76
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement.....		75.61
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement		67.43
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement		56.39
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement.....		43.50
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement.....		81.59
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement		72.88
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement		61.14
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement.....		47.21
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		87.12
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		78.09
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		65.86
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		52.50
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	91.03	
For 1/4" Thickness, Add	3.20	
For 5/16" Thickness, Add	6.39	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	81.71	
For 1/4" Thickness, Add	3.20	
For 5/16" Thickness, Add	6.39	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	69.07	
For 1/4" Thickness, Add	3.20	
For 5/16" Thickness, Add	6.39	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	56.40	
For 1/4" Thickness, Add	3.20	
For 5/16" Thickness, Add	6.39	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	96.00	
For 1/4" Thickness, Add	3.73	
For 5/16" Thickness, Add	7.47	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	86.38	
For 1/4" Thickness, Add	3.73	
For 5/16" Thickness, Add	7.47	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	73.12	
For 1/4" Thickness, Add	3.73	
For 5/16" Thickness, Add	7.47	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	61.27	
For 1/4" Thickness, Add	3.73	
For 5/16" Thickness, Add	7.47	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	101.09	
For 1/4" Thickness, Add	4.27	
For 5/16" Thickness, Add	8.53	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	91.06	
For 1/4" Thickness, Add	4.27	
For 5/16" Thickness, Add	8.53	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	77.39	
For 1/4" Thickness, Add	4.27	
For 5/16" Thickness, Add	8.53	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	66.35	
For 1/4" Thickness, Add	4.27	
For 5/16" Thickness, Add	8.53	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	107.65	
For 1/4" Thickness, Add	5.33	
For 5/16" Thickness, Add	10.67	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	97.05	
For 1/4" Thickness, Add	5.33	
For 5/16" Thickness, Add	10.67	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	82.56	
For 1/4" Thickness, Add	5.33	
For 5/16" Thickness, Add	10.67	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	71.42	
For 1/4" Thickness, Add	5.33	
For 5/16" Thickness, Add	10.67	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	114.10	
For 1/4" Thickness, Add	6.40	
For 5/16" Thickness, Add	12.80	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	103.03	
For 1/4" Thickness, Add	6.40	
For 5/16" Thickness, Add	12.80	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	87.74	
For 1/4" Thickness, Add	6.40	
For 5/16" Thickness, Add	12.80	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	76.47	
For 1/4" Thickness, Add	6.40	
For 5/16" Thickness, Add	12.80	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	137.34	
For 3/8" Thickness, Add	16.80	
For 7/16" Thickness, Add	25.20	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	125.26	
For 3/8" Thickness, Add	16.80	
For 7/16" Thickness, Add	25.20	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	108.64	
For 3/8" Thickness, Add	16.80	
For 7/16" Thickness, Add	25.20	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement	97.03	
For 3/8" Thickness, Add	16.80	
For 7/16" Thickness, Add	25.20	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	150.84	
For 3/8" Thickness, Add	19.20	
For 7/16" Thickness, Add	28.79	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	137.93	
For 3/8" Thickness, Add	19.20	
For 7/16" Thickness, Add	28.79	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	120.05	
For 3/8" Thickness, Add	19.20	
For 7/16" Thickness, Add	28.79	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement	108.21	
For 3/8" Thickness, Add	19.20	
For 7/16" Thickness, Add	28.79	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 10 Operation and Maintenance of Water Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement..... <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	157.73 21.60 32.39	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	144.54 21.60 32.39	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	126.25 21.60 32.39	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	114.87 21.60 32.39	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement..... <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	164.63 24.00 36.00	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	151.21 24.00 36.00	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	132.57 24.00 36.00	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	121.53 24.00 36.00	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement..... <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	171.87 26.40 39.60	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	158.16 26.40 39.60	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	139.23 26.40 39.60	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	129.01 26.40 39.60	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement..... <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	179.58 28.80 43.20	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	165.64 28.80 43.20	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	146.23 28.80 43.20	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	136.60 28.80 43.20	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)

33 01 30 11 Television Inspection Of Pipelines (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)		
33 01 30 11-0002 Video Camera Set-up (33 01 30 11-0001)		
33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.	852.08	
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert..... Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).	1,704.14	
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,556.22	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert.....	426.03	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	852.08	
33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)		
33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	2.16 -0.22 -0.54 -0.76	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	2.88 -0.29 -0.72 -1.01	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	3.60 -0.36 -0.90 -1.26	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	4.80 -0.48 -1.20 -1.68	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	6.75 -0.68 -1.69 -2.36	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	9.00 -0.90 -2.25 -3.15	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	12.71 -1.27 -3.18 -4.45	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	18.00 -1.80 -4.50 -6.30	
33 01 30 11-0017		Video Camera Pre-Rehab For Pipe Interior And Culverts <small>(33 01 30 11-0001)</small>		
33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	3.19 -0.32 -0.80 -1.12	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	4.26 -0.43 -1.07 -1.49	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	5.33 -0.53 -1.33 -1.87	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	7.10 -0.71 -1.78 -2.49	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	9.99 -1.00 -2.50 -3.50	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	13.31 -1.33 -3.33 -4.66	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	18.80 -1.88 -4.70 -6.58	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	26.63 -2.66 -6.66 -9.32	
33 01 30 11-0026		Video Camera Post-Rehab For Pipe Interior And Culverts <small>(33 01 30 11-0001)</small>		
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	2.28 -0.23 -0.57 -0.80	
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	3.04 -0.30 -0.76 -1.06	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	3.81 -0.38 -0.95 -1.33	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.07	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.51	
For >1,000 To 5,000, Deduct	-1.27	
For >5,000, Deduct	-1.77	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.13	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 5,000, Deduct	-1.78	
For >5,000, Deduct	-2.50	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	9.51	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 5,000, Deduct	-2.38	
For >5,000, Deduct	-3.33	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	13.43	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.34	
For >1,000 To 5,000, Deduct	-3.36	
For >5,000, Deduct	-4.70	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	19.02	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.90	
For >1,000 To 5,000, Deduct	-4.76	
For >5,000, Deduct	-6.66	
33 01 30 23 Pipe Bursting (33 01 30)		
33 01 30 23-0001 Pipe Bursting (33 01 30 23)		
Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control. See CSI section 31 13 13 00-0001 for tree removal.		
33 01 30 23-0002 Manhole Chipping (33 01 30 23-0001)		
Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003 EA 6" To 15" Diameter, Manhole Chipping.....	379.04	
33 01 30 23-0004 EA >15" To 24" Diameter, Manhole Chipping.....	444.99	
33 01 30 23-0005 EA >24" To 36" Diameter, Manhole Chipping.....	556.21	
33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001)		
Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0047 for PE piping.		
33 01 30 23-0007 Pipe Bursting Equipment Set-up (33 01 30 23-0006)		
33 01 30 23-0008 EA Initial Set-up Pipe Bursting Equipment.....	7,329.89	
33 01 30 23-0009 EA Re-Set Up/Move Pipe Bursting Equipment.....	3,664.95	
33 01 30 23-0010 EA Set Up/Move Pipe Bursting Equipment For Laterals.....	1,832.47	
33 01 30 23-0011 Pneumatic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0012 LF 4" Diameter, Pneumatic Head Pipe Bursting.....	24.42	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.28	
For >150 To 200, Add	0.83	
For >100 To 150, Add	1.67	
For >75 To 100, Add	2.50	
For >50 To 75, Add	3.33	
For >25 To 50, Add	5.00	
For Up To 25, Add	7.49	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.67	
For Bursting Ductile Iron Pipe, Add	4.16	
33 01 30 23-0013 LF 6" Diameter, Pneumatic Head Pipe Bursting.....	28.42	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.59	
For >150 To 200, Add	1.03	
For >100 To 150, Add	2.07	
For >75 To 100, Add	3.10	
For >50 To 75, Add	4.13	
For >25 To 50, Add	6.20	
For Up To 25, Add	9.29	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.07	
For Bursting Ductile Iron Pipe, Add	5.16	
33 01 30 23-0014 LF 8" Diameter, Pneumatic Head Pipe Bursting.....	32.19	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.88	
For >150 To 200, Add	1.22	
For >100 To 150, Add	2.44	
For >75 To 100, Add	3.66	
For >50 To 75, Add	4.88	
For >25 To 50, Add	7.33	
For Up To 25, Add	10.99	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.44	
For Bursting Ductile Iron Pipe, Add	6.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0015 LF 10" Diameter, Pneumatic Head Pipe Bursting	37.03	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.25	
For >150 To 200, Add	1.46	
For >100 To 150, Add	2.93	
For >75 To 100, Add	4.39	
For >50 To 75, Add	5.85	
For >25 To 50, Add	8.78	
For Up To 25, Add	13.17	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.93	
For Bursting Ductile Iron Pipe, Add	7.32	
33 01 30 23-0016 LF 12" Diameter, Pneumatic Head Pipe Bursting	42.61	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.68	
For >150 To 200, Add	1.74	
For >100 To 150, Add	3.48	
For >75 To 100, Add	5.23	
For >50 To 75, Add	6.97	
For >25 To 50, Add	10.45	
For Up To 25, Add	15.68	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.48	
For Bursting Ductile Iron Pipe, Add	8.71	
33 01 30 23-0017 LF 15" Diameter, Pneumatic Head Pipe Bursting	46.71	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.77	
For >150 To 200, Add	1.80	
For >100 To 150, Add	3.60	
For >75 To 100, Add	5.40	
For >50 To 75, Add	7.19	
For >25 To 50, Add	10.79	
For Up To 25, Add	16.19	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.60	
For Bursting Ductile Iron Pipe, Add	8.99	
33 01 30 23-0018 LF 18" Diameter, Pneumatic Head Pipe Bursting	52.31	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.20	
For >150 To 200, Add	2.08	
For >100 To 150, Add	4.16	
For >75 To 100, Add	6.24	
For >50 To 75, Add	8.31	
For >25 To 50, Add	12.47	
For Up To 25, Add	18.71	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.16	
For Bursting Ductile Iron Pipe, Add	10.39	
33 01 30 23-0019 LF 21"/22" Diameter, Pneumatic Head Pipe Bursting	65.57	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.81	
For >150 To 200, Add	2.47	
For >100 To 150, Add	4.95	
For >75 To 100, Add	7.42	
For >50 To 75, Add	9.89	
For >25 To 50, Add	14.84	
For Up To 25, Add	22.25	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.95	
For Bursting Ductile Iron Pipe, Add	12.36	
33 01 30 23-0020 LF 24" Diameter, Pneumatic Head Pipe Bursting	81.46	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.03	
For >150 To 200, Add	3.27	
For >100 To 150, Add	6.53	
For >75 To 100, Add	9.80	
For >50 To 75, Add	13.07	
For >25 To 50, Add	19.60	
For Up To 25, Add	29.40	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.53	
For Bursting Ductile Iron Pipe, Add	16.34	
33 01 30 23-0021 LF 30" Diameter, Pneumatic Head Pipe Bursting	89.26	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.22	
For >150 To 200, Add	3.39	
For >100 To 150, Add	6.78	
For >75 To 100, Add	10.17	
For >50 To 75, Add	13.56	
For >25 To 50, Add	20.34	
For Up To 25, Add	30.51	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.78	
For Bursting Ductile Iron Pipe, Add	16.95	
33 01 30 23-0022 LF 36" Diameter, Pneumatic Head Pipe Bursting	115.81	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.26	
For >150 To 200, Add	4.72	
For >100 To 150, Add	9.43	
For >75 To 100, Add	14.15	
For >50 To 75, Add	18.87	
For >25 To 50, Add	28.30	
For Up To 25, Add	42.45	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.43	
For Bursting Ductile Iron Pipe, Add	23.59	

33 01 30 23-0023 Static Head Pipe Bursting (33 01 30 23-0006)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0024 LF 4" Diameter, Static Head Pipe Bursting	32.53	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.91	
For >150 To 200, Add	1.24	
For >100 To 150, Add	2.48	
For >75 To 100, Add	3.71	
For >50 To 75, Add	4.95	
For >25 To 50, Add	7.43	
For Up To 25, Add	11.14	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.48	
For Bursting Ductile Iron Pipe, Add	6.19	
33 01 30 23-0025 LF 6" Diameter, Static Head Pipe Bursting	36.56	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.22	
For >150 To 200, Add	1.44	
For >100 To 150, Add	2.88	
For >75 To 100, Add	4.32	
For >50 To 75, Add	5.76	
For >25 To 50, Add	8.64	
For Up To 25, Add	12.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.88	
For Bursting Ductile Iron Pipe, Add	7.20	
33 01 30 23-0026 LF 8" Diameter, Static Head Pipe Bursting	41.22	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.58	
For >150 To 200, Add	1.67	
For >100 To 150, Add	3.35	
For >75 To 100, Add	5.02	
For >50 To 75, Add	6.69	
For >25 To 50, Add	10.04	
For Up To 25, Add	15.05	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.35	
For Bursting Ductile Iron Pipe, Add	8.36	
33 01 30 23-0027 LF 10" Diameter, Static Head Pipe Bursting	47.26	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.04	
For >150 To 200, Add	1.97	
For >100 To 150, Add	3.95	
For >75 To 100, Add	5.92	
For >50 To 75, Add	7.90	
For >25 To 50, Add	11.85	
For Up To 25, Add	17.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.95	
For Bursting Ductile Iron Pipe, Add	9.87	
33 01 30 23-0028 LF 12" Diameter, Static Head Pipe Bursting	54.25	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.58	
For >150 To 200, Add	2.32	
For >100 To 150, Add	4.65	
For >75 To 100, Add	6.97	
For >50 To 75, Add	9.30	
For >25 To 50, Add	13.94	
For Up To 25, Add	20.92	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.65	
For Bursting Ductile Iron Pipe, Add	11.62	
33 01 30 23-0029 LF 15" Diameter, Static Head Pipe Bursting	61.72	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.93	
For >150 To 200, Add	2.55	
For >100 To 150, Add	5.10	
For >75 To 100, Add	7.65	
For >50 To 75, Add	10.20	
For >25 To 50, Add	15.29	
For Up To 25, Add	22.94	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.10	
For Bursting Ductile Iron Pipe, Add	12.75	
33 01 30 23-0030 LF 18" Diameter, Static Head Pipe Bursting	68.43	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.44	
For >150 To 200, Add	2.88	
For >100 To 150, Add	5.77	
For >75 To 100, Add	8.65	
For >50 To 75, Add	11.54	
For >25 To 50, Add	17.31	
For Up To 25, Add	25.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.77	
For Bursting Ductile Iron Pipe, Add	14.42	
33 01 30 23-0031 LF 21"/22" Diameter, Static Head Pipe Bursting	85.21	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.32	
For >150 To 200, Add	3.45	
For >100 To 150, Add	6.91	
For >75 To 100, Add	10.36	
For >50 To 75, Add	13.82	
For >25 To 50, Add	20.73	
For Up To 25, Add	31.09	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.91	
For Bursting Ductile Iron Pipe, Add	17.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0032 LF 24" Diameter, Static Head Pipe Bursting	110.57	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.27	
For >150 To 200, Add	4.72	
For >100 To 150, Add	9.45	
For >75 To 100, Add	14.17	
For >50 To 75, Add	18.89	
For >25 To 50, Add	28.34	
For Up To 25, Add	42.50	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.45	
For Bursting Ductile Iron Pipe, Add	23.61	
33 01 30 23-0033 LF 30" Diameter, Static Head Pipe Bursting	134.33	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.69	
For >150 To 200, Add	5.64	
For >100 To 150, Add	11.29	
For >75 To 100, Add	16.93	
For >50 To 75, Add	22.57	
For >25 To 50, Add	33.86	
For Up To 25, Add	50.79	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	11.29	
For Bursting Ductile Iron Pipe, Add	28.22	
33 01 30 23-0034 LF 36" Diameter, Static Head Pipe Bursting	162.95	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	10.89	
For >150 To 200, Add	7.07	
For >100 To 150, Add	14.15	
For >75 To 100, Add	21.22	
For >50 To 75, Add	28.30	
For >25 To 50, Add	42.44	
For Up To 25, Add	63.67	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	14.15	
For Bursting Ductile Iron Pipe, Add	35.37	
33 01 30 23-0035 Hydraulic Head Pipe Bursting <small>(33 01 30 23-0006)</small>	28.14	
33 01 30 23-0036 LF 4" Diameter, Hydraulic Head Pipe Bursting	28.14	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.57	
For >150 To 200, Add	1.02	
For >100 To 150, Add	2.04	
For >75 To 100, Add	3.06	
For >50 To 75, Add	4.07	
For >25 To 50, Add	6.11	
For Up To 25, Add	9.17	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.04	
For Bursting Ductile Iron Pipe, Add	5.09	
33 01 30 23-0037 LF 6" Diameter, Hydraulic Head Pipe Bursting	31.70	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.84	
For >150 To 200, Add	1.20	
For >100 To 150, Add	2.39	
For >75 To 100, Add	3.59	
For >50 To 75, Add	4.79	
For >25 To 50, Add	7.18	
For Up To 25, Add	10.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.39	
For Bursting Ductile Iron Pipe, Add	5.98	
33 01 30 23-0038 LF 8" Diameter, Hydraulic Head Pipe Bursting	35.80	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.16	
For >150 To 200, Add	1.40	
For >100 To 150, Add	2.80	
For >75 To 100, Add	4.20	
For >50 To 75, Add	5.61	
For >25 To 50, Add	8.41	
For Up To 25, Add	12.61	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.80	
For Bursting Ductile Iron Pipe, Add	7.01	
33 01 30 23-0039 LF 10" Diameter, Hydraulic Head Pipe Bursting	41.13	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.57	
For >150 To 200, Add	1.67	
For >100 To 150, Add	3.34	
For >75 To 100, Add	5.00	
For >50 To 75, Add	6.67	
For >25 To 50, Add	10.01	
For Up To 25, Add	15.01	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.34	
For Bursting Ductile Iron Pipe, Add	8.34	
33 01 30 23-0040 LF 12" Diameter, Hydraulic Head Pipe Bursting	47.26	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.04	
For >150 To 200, Add	1.97	
For >100 To 150, Add	3.95	
For >75 To 100, Add	5.92	
For >50 To 75, Add	7.90	
For >25 To 50, Add	11.85	
For Up To 25, Add	17.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.95	
For Bursting Ductile Iron Pipe, Add	9.87	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0041 LF 15" Diameter, Hydraulic Head Pipe Bursting	53.58	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.30	
For >150 To 200, Add	2.14	
For >100 To 150, Add	4.28	
For >75 To 100, Add	6.43	
For >50 To 75, Add	8.57	
For >25 To 50, Add	12.85	
For Up To 25, Add	19.28	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.28	
For Bursting Ductile Iron Pipe, Add	10.71	
33 01 30 23-0042 LF 18" Diameter, Hydraulic Head Pipe Bursting	60.17	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.81	
For >150 To 200, Add	2.47	
For >100 To 150, Add	4.94	
For >75 To 100, Add	7.41	
For >50 To 75, Add	9.89	
For >25 To 50, Add	14.83	
For Up To 25, Add	22.24	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.94	
For Bursting Ductile Iron Pipe, Add	12.36	
33 01 30 23-0043 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting	75.32	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.56	
For >150 To 200, Add	2.96	
For >100 To 150, Add	5.92	
For >75 To 100, Add	8.88	
For >50 To 75, Add	11.84	
For >25 To 50, Add	17.76	
For Up To 25, Add	26.64	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.92	
For Bursting Ductile Iron Pipe, Add	14.80	
33 01 30 23-0044 LF 24" Diameter, Hydraulic Head Pipe Bursting	98.64	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.35	
For >150 To 200, Add	4.13	
For >100 To 150, Add	8.25	
For >75 To 100, Add	12.38	
For >50 To 75, Add	16.50	
For >25 To 50, Add	24.76	
For Up To 25, Add	37.13	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.25	
For Bursting Ductile Iron Pipe, Add	20.63	
33 01 30 23-0045 LF 30" Diameter, Hydraulic Head Pipe Bursting	120.96	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.66	
For >150 To 200, Add	4.97	
For >100 To 150, Add	9.95	
For >75 To 100, Add	14.92	
For >50 To 75, Add	19.90	
For >25 To 50, Add	29.85	
For Up To 25, Add	44.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.95	
For Bursting Ductile Iron Pipe, Add	24.87	
33 01 30 23-0046 LF 36" Diameter, Hydraulic Head Pipe Bursting	148.17	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	9.76	
For >150 To 200, Add	6.34	
For >100 To 150, Add	12.67	
For >75 To 100, Add	19.01	
For >50 To 75, Add	25.34	
For >25 To 50, Add	38.01	
For Up To 25, Add	57.02	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	12.67	
For Bursting Ductile Iron Pipe, Add	31.68	
33 01 30 23-0047 Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0048 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0047)		
Note: Per each joint.		
33 01 30 23-0049 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	119.25	
33 01 30 23-0050 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	136.83	
33 01 30 23-0051 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	163.19	
33 01 30 23-0052 High Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0047)		
Note: Material only, to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0048 for pipe joint fusion.		
33 01 30 23-0053 LF 4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	3.98	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.45	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.22	
For White Interior Pipe, Add	0.82	
For Gray Interior Pipe, Add	0.62	
33 01 30 23-0054 LF 5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	5.31	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.68	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.85	
For White Interior Pipe, Add	1.25	
For Gray Interior Pipe, Add	0.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0055 LF 6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	7.63	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.09	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	2.96	
<i>For White Interior Pipe, Add</i>	2.00	
<i>For Gray Interior Pipe, Add</i>	1.52	
33 01 30 23-0056 LF 7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	8.61	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.26	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	3.42	
<i>For White Interior Pipe, Add</i>	2.31	
<i>For Gray Interior Pipe, Add</i>	1.75	
33 01 30 23-0057 LF 8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	11.88	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.84	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	5.00	
<i>For White Interior Pipe, Add</i>	3.38	
<i>For Gray Interior Pipe, Add</i>	2.56	
33 01 30 23-0058 LF 10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	17.60	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-2.86	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	7.78	
<i>For White Interior Pipe, Add</i>	5.25	
<i>For Gray Interior Pipe, Add</i>	3.98	
33 01 30 23-0059 LF 12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	24.11	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.03	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	10.94	
<i>For White Interior Pipe, Add</i>	7.38	
<i>For Gray Interior Pipe, Add</i>	5.59	
33 01 30 23-0060 LF 13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	26.40	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.43	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	12.03	
<i>For White Interior Pipe, Add</i>	8.12	
<i>For Gray Interior Pipe, Add</i>	6.15	
33 01 30 23-0061 LF 14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	28.83	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.86	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	13.19	
<i>For White Interior Pipe, Add</i>	8.90	
<i>For Gray Interior Pipe, Add</i>	6.75	
33 01 30 23-0062 LF 16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	37.19	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-6.34	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	17.23	
<i>For White Interior Pipe, Add</i>	11.63	
<i>For Gray Interior Pipe, Add</i>	8.81	
33 01 30 23-0063 LF 18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	46.70	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-8.03	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	21.81	
<i>For White Interior Pipe, Add</i>	14.72	
<i>For Gray Interior Pipe, Add</i>	11.15	
33 01 30 23-0064 LF 20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	57.30	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-9.91	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	26.92	
<i>For White Interior Pipe, Add</i>	18.17	
<i>For Gray Interior Pipe, Add</i>	13.77	
33 01 30 23-0065 LF 22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	69.04	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-11.99	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	32.58	
<i>For White Interior Pipe, Add</i>	21.98	
<i>For Gray Interior Pipe, Add</i>	16.66	
33 01 30 23-0066 LF 24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	81.92	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-14.28	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	38.78	
<i>For White Interior Pipe, Add</i>	26.17	
<i>For Gray Interior Pipe, Add</i>	19.83	
33 01 30 23-0067 LF 26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	95.86	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-16.74	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	45.48	
<i>For White Interior Pipe, Add</i>	30.69	
<i>For Gray Interior Pipe, Add</i>	23.25	
33 01 30 23-0068 LF 28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	111.03	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-19.42	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	52.76	
<i>For White Interior Pipe, Add</i>	35.61	
<i>For Gray Interior Pipe, Add</i>	26.98	
33 01 30 23-0069 LF 30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	127.35	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-22.30	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	60.57	
<i>For White Interior Pipe, Add</i>	40.88	
<i>For Gray Interior Pipe, Add</i>	30.97	
33 01 30 23-0070 LF 32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	144.83	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-25.36	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	68.90	
<i>For White Interior Pipe, Add</i>	46.50	
<i>For Gray Interior Pipe, Add</i>	35.23	
33 01 30 23-0071 LF 34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	178.35	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-31.30	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	85.02	
<i>For White Interior Pipe, Add</i>	57.38	
<i>For Gray Interior Pipe, Add</i>	43.47	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0072 LF 36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	183.58	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-32.10	
For DR 11 Polyethylene Pipe, 160 PSI, Add	87.21	
For White Interior Pipe, Add	58.86	
For Gray Interior Pipe, Add	44.59	
33 01 30 23-0073 Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)		
33 01 30 23-0074 Re-Connection Of Non-Renewed Laterals; Insert-A-Tee (33 01 30 23-0073)		
Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0039 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0075 EA Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....	1,185.87	
For No Excavation, Deduct	-774.38	
33 01 30 23-0076 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,331.38	
For No Excavation, Deduct	-871.16	
33 01 30 23-0077 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee	1,405.35	
For No Excavation, Deduct	-919.56	
33 01 30 23-0078 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee	1,479.31	
For No Excavation, Deduct	-967.96	
33 01 30 23-0079 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee	1,599.13	
For No Excavation, Deduct	-1,016.37	
33 01 30 23-0080 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee	1,496.20	
For No Excavation, Deduct	-967.96	
33 01 30 23-0081 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee	1,572.59	
For No Excavation, Deduct	-1,016.37	
33 01 30 23-0082 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee	1,682.75	
For No Excavation, Deduct	-1,064.76	
33 01 30 23-0083 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee	1,956.98	
For No Excavation, Deduct	-1,113.16	
33 01 30 23-0084 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee	2,059.89	
For No Excavation, Deduct	-1,161.56	
33 01 30 23-0085 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee	2,481.30	
For No Excavation, Deduct	-1,209.96	
33 01 30 23-0086 Re-Connection Of Non-Renewed Laterals; Saddle Style (33 01 30 23-0073)		
Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0039 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0087 EA Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,609.97	
For No Excavation, Deduct	-864.26	
For Strap-On Saddle Type Instead Of Fusion Weld	-213.48	
33 01 30 23-0088 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,880.30	
For No Excavation, Deduct	-898.83	
For Strap-On Saddle Type Instead Of Fusion Weld	-197.13	
33 01 30 23-0089 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,008.09	
For No Excavation, Deduct	-933.40	
For Strap-On Saddle Type Instead Of Fusion Weld	-52.16	
33 01 30 23-0090 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,215.50	
For No Excavation, Deduct	-1,037.10	
For Strap-On Saddle Type Instead Of Fusion Weld	-93.65	
33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,444.69	
For No Excavation, Deduct	-1,106.25	
For Strap-On Saddle Type Instead Of Fusion Weld	342.33	
33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	8,068.02	
For No Excavation, Deduct	-1,227.24	
For Strap-On Saddle Type Instead Of Fusion Weld	351.14	
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,848.27	
For No Excavation, Deduct	-1,348.24	
For Strap-On Saddle Type Instead Of Fusion Weld	683.48	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,334.90	
For No Excavation, Deduct	-1,521.09	
For Strap-On Saddle Type Instead Of Fusion Weld	485.48	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	12,553.75	
For No Excavation, Deduct	-1,797.65	
For Strap-On Saddle Type Instead Of Fusion Weld	624.71	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning.....	2,470.78	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning.....	617.70	
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.32	
<i>For >250 To 500, Deduct</i>	-0.17	
<i>For >500 To 1,000, Deduct</i>	-0.33	
<i>For >1,000 To 2,000, Deduct</i>	-0.50	
<i>For >2,000 To 5,000, Deduct</i>	-0.66	
<i>For >5,000, Deduct</i>	-0.83	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	2.49	
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.81	
<i>For >250 To 500, Deduct</i>	-0.19	
<i>For >500 To 1,000, Deduct</i>	-0.38	
<i>For >1,000 To 2,000, Deduct</i>	-0.57	
<i>For >2,000 To 5,000, Deduct</i>	-0.76	
<i>For >5,000, Deduct</i>	-0.95	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	2.86	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.48	
<i>For >250 To 500, Deduct</i>	-0.22	
<i>For >500 To 1,000, Deduct</i>	-0.45	
<i>For >1,000 To 2,000, Deduct</i>	-0.67	
<i>For >2,000 To 5,000, Deduct</i>	-0.90	
<i>For >5,000, Deduct</i>	-1.12	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	3.36	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.53	
<i>For >250 To 500, Deduct</i>	-0.28	
<i>For >500 To 1,000, Deduct</i>	-0.55	
<i>For >1,000 To 2,000, Deduct</i>	-0.83	
<i>For >2,000 To 5,000, Deduct</i>	-1.11	
<i>For >5,000, Deduct</i>	-1.38	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	4.15	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.28	
<i>For >250 To 500, Deduct</i>	-0.31	
<i>For >500 To 1,000, Deduct</i>	-0.63	
<i>For >1,000 To 2,000, Deduct</i>	-0.94	
<i>For >2,000 To 5,000, Deduct</i>	-1.26	
<i>For >5,000, Deduct</i>	-1.57	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	4.71	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.25	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500 To 1,000, Deduct</i>	-0.73	
<i>For >1,000 To 2,000, Deduct</i>	-1.09	
<i>For >2,000 To 5,000, Deduct</i>	-1.45	
<i>For >5,000, Deduct</i>	-1.81	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	5.44	
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	8.73	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500 To 1,000, Deduct</i>	-0.87	
<i>For >1,000 To 2,000, Deduct</i>	-1.31	
<i>For >2,000 To 5,000, Deduct</i>	-1.75	
<i>For >5,000, Deduct</i>	-2.18	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	6.55	
33 01 30 41-0014 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	9.89	
<i>For >250 To 500, Deduct</i>	-0.49	
<i>For >500 To 1,000, Deduct</i>	-0.99	
<i>For >1,000 To 2,000, Deduct</i>	-1.48	
<i>For >2,000 To 5,000, Deduct</i>	-1.98	
<i>For >5,000, Deduct</i>	-2.47	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	7.42	
33 01 30 41-0015 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	11.70	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500 To 1,000, Deduct</i>	-1.17	
<i>For >1,000 To 2,000, Deduct</i>	-1.76	
<i>For >2,000 To 5,000, Deduct</i>	-2.34	
<i>For >5,000, Deduct</i>	-2.93	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	8.78	
33 01 30 41-0016 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	14.71	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500 To 1,000, Deduct</i>	-1.47	
<i>For >1,000 To 2,000, Deduct</i>	-2.21	
<i>For >2,000 To 5,000, Deduct</i>	-2.94	
<i>For >5,000, Deduct</i>	-3.68	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	11.03	
33 01 30 41-0017 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	17.16	
<i>For >250 To 500, Deduct</i>	-0.86	
<i>For >500 To 1,000, Deduct</i>	-1.72	
<i>For >1,000 To 2,000, Deduct</i>	-2.57	
<i>For >2,000 To 5,000, Deduct</i>	-3.43	
<i>For >5,000, Deduct</i>	-4.29	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	12.87	
33 01 30 41-0018 Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019 LF 12" To 16" Diameter Pipe Line Flushing	1.28	
<i>For >250 To 500, Deduct</i>	-0.06	
<i>For >500 To 1,000, Deduct</i>	-0.13	
<i>For >1,000 To 2,000, Deduct</i>	-0.19	
<i>For >2,000 To 5,000, Deduct</i>	-0.26	
<i>For >5,000, Deduct</i>	-0.32	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing	1.47	
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.15	
For >1,000 To 2,000, Deduct	-0.22	
For >2,000 To 5,000, Deduct	-0.29	
For >5,000, Deduct	-0.37	
33 01 30 41-0021 LF >24" To 30" Diameter Pipe Line Flushing	1.72	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.17	
For >1,000 To 2,000, Deduct	-0.26	
For >2,000 To 5,000, Deduct	-0.34	
For >5,000, Deduct	-0.43	
33 01 30 41-0022 LF >30" To 42" Diameter Pipe Line Flushing	1.97	
For >250 To 500, Deduct	-0.10	
For >500 To 1,000, Deduct	-0.20	
For >1,000 To 2,000, Deduct	-0.30	
For >2,000 To 5,000, Deduct	-0.39	
For >5,000, Deduct	-0.49	
33 01 30 41-0023 LF >42" To 60" Diameter Pipe Line Flushing	2.63	
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.26	
For >1,000 To 2,000, Deduct	-0.39	
For >2,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-0.66	
33 01 30 41-0024 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0025 LF Jet Cleaning Of Culvert, 0-250 LF.....	15.36	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.54	
For >1,000 To 2,000, Deduct	-2.30	
For >2,000 To 5,000, Deduct	-3.07	
For >5,000, Deduct	-3.84	
33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	1,091.72	
33 01 30 41-0028 EA Move And Reset Up At Different Access/Location	363.91	
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	6.31	
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.61	
For >1,000 To 2,000, Deduct	-0.91	
For >2,000 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-1.52	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	8.28	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 2,000, Deduct	-1.17	
For >2,000 To 5,000, Deduct	-1.56	
For >5,000, Deduct	-1.95	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	9.69	
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.91	
For >1,000 To 2,000, Deduct	-1.36	
For >2,000 To 5,000, Deduct	-1.82	
For >5,000, Deduct	-2.27	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	11.22	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-1.58	
For >2,000 To 5,000, Deduct	-2.10	
For >5,000, Deduct	-2.63	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	12.22	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-1.71	
For >2,000 To 5,000, Deduct	-2.28	
For >5,000, Deduct	-2.85	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	14.08	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-1.95	
For >2,000 To 5,000, Deduct	-2.60	
For >5,000, Deduct	-3.25	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	17.74	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,000, Deduct	-2.41	
For >2,000 To 5,000, Deduct	-3.21	
For >5,000, Deduct	-4.01	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 41-0036 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method .....20.31		
<i>For >250 To 500, Deduct</i>	-0.90	
<i>For >500 To 1,000, Deduct</i>	-1.79	
<i>For >1,000 To 2,000, Deduct</i>	-2.69	
<i>For >2,000 To 5,000, Deduct</i>	-3.58	
<i>For >5,000, Deduct</i>	-4.48	
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method .....23.61		
<i>For >250 To 500, Deduct</i>	-1.03	
<i>For >500 To 1,000, Deduct</i>	-2.06	
<i>For >1,000 To 2,000, Deduct</i>	-3.09	
<i>For >2,000 To 5,000, Deduct</i>	-4.12	
<i>For >5,000, Deduct</i>	-5.15	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....30.91		
<i>For >250 To 500, Deduct</i>	-1.36	
<i>For >500 To 1,000, Deduct</i>	-2.73	
<i>For >1,000 To 2,000, Deduct</i>	-4.09	
<i>For >2,000 To 5,000, Deduct</i>	-5.46	
<i>For >5,000, Deduct</i>	-6.82	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....35.16		
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500 To 1,000, Deduct</i>	-3.03	
<i>For >1,000 To 2,000, Deduct</i>	-4.55	
<i>For >2,000 To 5,000, Deduct</i>	-6.07	
<i>For >5,000, Deduct</i>	-7.58	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring .....1,091.72		
33 01 30 41-0042 EA Move And Reset Up At Different Location .....363.91		
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....3.64		
<i>For >250 To 500, Deduct</i>	-0.18	
<i>For >500 To 1,000, Deduct</i>	-0.36	
<i>For >1,000 To 2,000, Deduct</i>	-0.55	
<i>For >2,000 To 5,000, Deduct</i>	-0.73	
<i>For >5,000, Deduct</i>	-0.91	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out .....4.71		
<i>For >250 To 500, Deduct</i>	-0.24	
<i>For >500 To 1,000, Deduct</i>	-0.47	
<i>For >1,000 To 2,000, Deduct</i>	-0.71	
<i>For >2,000 To 5,000, Deduct</i>	-0.94	
<i>For >5,000, Deduct</i>	-1.18	
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out .....5.46		
<i>For >250 To 500, Deduct</i>	-0.27	
<i>For >500 To 1,000, Deduct</i>	-0.55	
<i>For >1,000 To 2,000, Deduct</i>	-0.82	
<i>For >2,000 To 5,000, Deduct</i>	-1.09	
<i>For >5,000, Deduct</i>	-1.37	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out .....6.35		
<i>For >250 To 500, Deduct</i>	-0.32	
<i>For >500 To 1,000, Deduct</i>	-0.64	
<i>For >1,000 To 2,000, Deduct</i>	-0.95	
<i>For >2,000 To 5,000, Deduct</i>	-1.27	
<i>For >5,000, Deduct</i>	-1.59	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out .....6.82		
<i>For >250 To 500, Deduct</i>	-0.34	
<i>For >500 To 1,000, Deduct</i>	-0.68	
<i>For >1,000 To 2,000, Deduct</i>	-1.02	
<i>For >2,000 To 5,000, Deduct</i>	-1.36	
<i>For >5,000, Deduct</i>	-1.71	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....7.80		
<i>For >250 To 500, Deduct</i>	-0.39	
<i>For >500 To 1,000, Deduct</i>	-0.78	
<i>For >1,000 To 2,000, Deduct</i>	-1.17	
<i>For >2,000 To 5,000, Deduct</i>	-1.56	
<i>For >5,000, Deduct</i>	-1.95	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....9.57		
<i>For >250 To 500, Deduct</i>	-0.48	
<i>For >500 To 1,000, Deduct</i>	-0.96	
<i>For >1,000 To 2,000, Deduct</i>	-1.44	
<i>For >2,000 To 5,000, Deduct</i>	-1.91	
<i>For >5,000, Deduct</i>	-2.39	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....10.70		
<i>For >250 To 500, Deduct</i>	-0.54	
<i>For >500 To 1,000, Deduct</i>	-1.07	
<i>For >1,000 To 2,000, Deduct</i>	-1.61	
<i>For >2,000 To 5,000, Deduct</i>	-2.14	
<i>For >5,000, Deduct</i>	-2.68	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....12.41		
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500 To 1,000, Deduct</i>	-1.24	
<i>For >1,000 To 2,000, Deduct</i>	-1.86	
<i>For >2,000 To 5,000, Deduct</i>	-2.48	
<i>For >5,000, Deduct</i>	-3.10	

33	Utilities
33 01	Operation and Maintenance of Utilities
33 01 30	Operation and Maintenance of Sewer Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0052	LF		>42 To 60" Diameter Pipe Line Auguring/Rod Out	17.06	
			For >250 To 500, Deduct	-0.85	
			For >500 To 1,000, Deduct	-1.71	
			For >1,000 To 2,000, Deduct	-2.56	
			For >2,000 To 5,000, Deduct	-3.41	
			For >5,000, Deduct	-4.27	
33 01 30 41-0053	LF		>60" Diameter Pipe Line Auguring/Rod Out	18.20	
			For >250 To 500, Deduct	-0.91	
			For >500 To 1,000, Deduct	-1.82	
			For >1,000 To 2,000, Deduct	-2.73	
			For >2,000 To 5,000, Deduct	-3.64	
			For >5,000, Deduct	-4.55	
33 01 30 42			Cleaning of Manholes (33 01 30)		
33 01 30 42-0001			Structure Cleaning And Flushing (33 01 30 42)		
			Note: Includes flushing. Owner provided water.		
33 01 30 42-0002			Rod Out Structures And Other Hand Operations (33 01 30 42-0001)		
33 01 30 42-0003	EA		Rod Out Waste Water Drain	58.08	
33 01 30 42-0004	EA		Rod Out Sewer Catch Basin	116.16	
33 01 30 42-0005	EA		Up To 6" Diameter Pipe, Rod Out Blockage	23.23	
33 01 30 42-0006	EA		8" Diameter Pipe, Rod Out Blockage	25.56	
33 01 30 42-0007	EA		10" Diameter Pipe, Rod Out Blockage	29.04	
33 01 30 42-0008	EA		12" Diameter Pipe, Rod Out Blockage	33.69	
33 01 30 42-0009	EA		>12" To 16" Diameter Pipe, Rod Out Blockage	39.50	
33 01 30 42-0010	EA		>16" To 24" Diameter Pipe, Rod Out Blockage	46.47	
33 01 30 42-0011	EA		>24" To 30" Diameter Pipe, Rod Out Blockage	54.60	
33 01 30 42-0012	EA		>30" To 42" Diameter Pipe, Rod Out Blockage	62.73	
33 01 30 42-0013	EA		>42" To 60" Diameter Pipe, Rod Out Blockage	73.19	
33 01 30 42-0014	EA		>60" Diameter Pipe, Rod Out Blockage	87.12	
33 01 30 42-0015	EA		Clean Out Debris From Entrance To Inlet Structure	290.42	
33 01 30 42-0016	EA		3' To 4' Diameter, Clean Out Blocked Manhole By Hand.....	789.14	
			For >10 To 100, Deduct	-118.37	
			For >100 To 250, Deduct	-177.56	
			For >250, Deduct	-236.74	
33 01 30 42-0017	EA		5' To 6' Diameter, Clean Out Blocked Manhole By Hand.....	946.95	
			For >10 To 100, Deduct	-142.04	
			For >100 To 250, Deduct	-213.06	
			For >250, Deduct	-284.09	
33 01 30 42-0018	EA		Clean Out Blocked Catch Basin By Hand	473.48	
			For >10 To 100, Deduct	-71.02	
			For >100 To 250, Deduct	-106.53	
			For >250, Deduct	-142.04	
33 01 30 42-0019			Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)		
			Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020	EA		Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	267.22	
33 01 30 42-0021	EA		Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	248.21	
33 01 30 42-0022	EA		Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	229.21	
33 01 30 42-0023	EA		Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	210.20	
33 01 30 42-0024	EA		Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	191.19	
33 01 30 42-0025	EA		Jet/Vacuum Clean >250 Catch Basins Or Manholes	172.18	
33 01 30 43			Removal of Protruding Service Connection (33 01 30)		
33 01 30 43-0001			Trim Protruding Service Taps (33 01 30 43)		
33 01 30 43-0002	EA		Trim Protruding Service Tap, 4", Robotic.....	694.43	
33 01 30 43-0003	EA		Trim Protruding Service Tap, 6", Robotic.....	763.87	
33 01 30 43-0004	EA		Trim Protruding Service Tap, 8", Robotic.....	833.32	
33 01 30 51			Maintenance of Utilities (33 01 30)		
33 01 30 51-0001			Pipe Repair (33 01 30 51)		
33 01 30 51-0002			Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)		
			Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003	EA		2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	132.13	
			For Stainless Steel Nuts And Bolts, Add	19.70	
33 01 30 51-0004	EA		2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	185.41	
			For Stainless Steel Nuts And Bolts, Add	29.69	
33 01 30 51-0005	EA		2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	213.28	
			For Stainless Steel Nuts And Bolts, Add	34.96	
33 01 30 51-0006	EA		2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	242.47	
			For Stainless Steel Nuts And Bolts, Add	40.22	
33 01 30 51-0007	EA		2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	142.31	
			For Stainless Steel Nuts And Bolts, Add	21.39	
33 01 30 51-0008	EA		2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	196.89	
			For Stainless Steel Nuts And Bolts, Add	31.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0009	EA		2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	224.93 36.83	
33 01 30 51-0010	EA		2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	259.21 43.10	
33 01 30 51-0011	EA		3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	152.47 23.40	
33 01 30 51-0012	EA		3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	204.57 33.12	
33 01 30 51-0013	EA		3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	235.74 38.83	
33 01 30 51-0014	EA		3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	273.69 46.10	
33 01 30 51-0015	EA		4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	171.45 26.61	
33 01 30 51-0016	EA		4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	225.51 35.82	
33 01 30 51-0017	EA		4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	273.24 43.61	
33 01 30 51-0018	EA		4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	329.07 52.60	
33 01 30 51-0019	EA		4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	427.64 70.65	
33 01 30 51-0020	EA		4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	530.89 88.70	
33 01 30 51-0021	EA		4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	646.85 108.81	
33 01 30 51-0022	EA		6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	201.37 31.40	
33 01 30 51-0023	EA		6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	266.25 42.60	
33 01 30 51-0024	EA		6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	315.65 50.23	
33 01 30 51-0025	EA		6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	370.48 58.37	
33 01 30 51-0026	EA		6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	507.79 84.58	
33 01 30 51-0027	EA		6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	617.01 103.14	
33 01 30 51-0028	EA		6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	736.86 123.25	
33 01 30 51-0029	EA		8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	267.08 37.57	
33 01 30 51-0030	EA		8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	345.80 49.71	
33 01 30 51-0031	EA		8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	417.18 60.16	
33 01 30 51-0032	EA		8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	498.40 71.68	
33 01 30 51-0033	EA		8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	656.12 99.31	
33 01 30 51-0034	EA		8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	784.76 118.75	
33 01 30 51-0035	EA		8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	930.59 139.77	
33 01 30 51-0036	EA		10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	310.33 45.73	
33 01 30 51-0037	EA		10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	414.38 63.25	
33 01 30 51-0038	EA		10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	488.79 73.95	
33 01 30 51-0039	EA		10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	598.67 91.46	
33 01 30 51-0040	EA		10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	780.58 124.06	
33 01 30 51-0041	EA		10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	892.04 138.66	
33 01 30 51-0042	EA		10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,141.59 182.93	
33 01 30 51-0043	EA		12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	353.91 51.58	
33 01 30 51-0044	EA		12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	460.33 68.59	
33 01 30 51-0045	EA		12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	555.39 83.00	
33 01 30 51-0046	EA		12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	681.85 103.14	
33 01 30 51-0047	EA		12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	872.40 136.23	
33 01 30 51-0048	EA		12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,027.54 159.09	
33 01 30 51-0049	EA		12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,300.13 206.28	

33 Utilities

33 01 Operation and Maintenance of Utilities

33 01 30 Operation and Maintenance of Sewer Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0050			Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001) Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051	EA		14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	759.99	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	198.43	
33 01 30 51-0052	EA		14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,072.46	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	286.46	
33 01 30 51-0053	EA		14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,441.49	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	388.48	
33 01 30 51-0054	EA		14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,110.50	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	585.52	
33 01 30 51-0055	EA		15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	797.78	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	208.20	
33 01 30 51-0056	EA		15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,122.78	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	299.74	
33 01 30 51-0057	EA		15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,505.70	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	405.25	
33 01 30 51-0058	EA		15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,212.74	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	613.46	
33 01 30 51-0059	EA		15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	819.22	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	212.40	
33 01 30 51-0060	EA		15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,150.92	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	305.34	
33 01 30 51-0061	EA		15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,546.71	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	414.33	
33 01 30 51-0062	EA		15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,271.23	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	626.73	
33 01 30 51-0063	EA		16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	841.92	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	216.59	
33 01 30 51-0064	EA		16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,183.04	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	311.63	
33 01 30 51-0065	EA		16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,587.46	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	422.01	
33 01 30 51-0066	EA		16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,330.28	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	639.31	
33 01 30 51-0067	EA		17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	862.60	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	220.09	
33 01 30 51-0068	EA		17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,211.01	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	316.51	
33 01 30 51-0069	EA		17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,628.20	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	429.70	
33 01 30 51-0070	EA		17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,384.48	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	649.79	
33 01 30 51-0071	EA		17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	881.96	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	223.59	
33 01 30 51-0072	EA		17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,239.13	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	322.10	
33 01 30 51-0073	EA		17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,664.34	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	436.69	
33 01 30 51-0074	EA		17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,420.59	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	655.03	
33 01 30 51-0075	EA		18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	903.83	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	227.94	
33 01 30 51-0076	EA		18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,271.99	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	329.09	
33 01 30 51-0077	EA		18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,702.47	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	444.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0078 EA 18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,494.54 673.55	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) <i>Note: Includes gaskets. Dresser style 88.</i>		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling	104.02	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling	120.91	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling	142.17	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling	159.84	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling	248.44	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow	125.61	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow	145.25	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow	297.52	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow	116.35	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	104.73	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	122.60	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	152.05	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee	231.45	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee	177.51	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee	211.01	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee	172.74	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter	108.88	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter	86.89	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter	98.67	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter	119.58	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter	143.86	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter	156.70	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter	127.89	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter	135.01	
33 01 30 51-0110 Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) <i>Note: Includes gaskets. Dresser style 90.</i>		
33 01 30 51-0111 Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) <i>Note: Includes gaskets.</i>		
33 01 30 51-0112 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring	70.11	
33 01 30 51-0113 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring	71.99	
33 01 30 51-0114 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring	81.33	
33 01 30 51-0115 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring	90.75	
33 01 30 51-0116 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring	112.28	
33 01 30 51-0117 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring	136.43	
33 01 30 51-0118 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	71.91	
33 01 30 51-0119 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	73.98	
33 01 30 51-0120 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	81.62	
33 01 30 51-0121 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	91.67	
33 01 30 51-0122 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	115.31	
33 01 30 51-0123 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	137.77	
33 01 30 51-0124 EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	133.91	
33 01 30 51-0125 EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	156.64	
33 01 30 51-0126 EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	163.71	
33 01 30 51-0127 EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	185.08	
33 01 30 51-0128 EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	225.06	
33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110) <i>Note: Includes armored gaskets.</i>		
33 01 30 51-0130 EA 3/4" x 1/2" Reducing Coupling (Compression)	78.01	
33 01 30 51-0131 EA 1" x 3/4" Reducing Coupling (Compression)	83.29	
33 01 30 51-0132 EA 1-1/4" x 3/4" Reducing Coupling (Compression)	94.04	
33 01 30 51-0133 EA 1-1/4" x 1" Reducing Coupling (Compression)	97.37	
33 01 30 51-0134 EA 1-1/2" x 3/4" Reducing Coupling (Compression)	181.76	
33 01 30 51-0135 EA 1-1/2" x 1" Reducing Coupling (Compression)	117.44	
33 01 30 51-0136 EA 1-1/2" x 1-1/4" Reducing Coupling (Compression)	117.91	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0137 EA 2" x 3/4" Reducing Coupling (Compression)	217.14	
33 01 30 51-0138 EA 2" x 1" Reducing Coupling (Compression)	198.66	
33 01 30 51-0139 EA 2" x 1-1/4" Reducing Coupling (Compression)	154.70	
33 01 30 51-0140 EA 2" x 1-1/2" Reducing Coupling (Compression)	154.22	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0142 EA 1" 45 Degree Elbow (Compression)	125.69	
33 01 30 51-0143 EA 1-1/4" 45 Degree Elbow (Compression)	131.73	
33 01 30 51-0144 EA 1-1/2" 45 Degree Elbow (Compression)	169.81	
33 01 30 51-0145 EA 2" 45 Degree Elbow (Compression)	213.69	
33 01 30 51-0146 EA 3/4" 90 Degree Elbow (Compression)	85.68	
33 01 30 51-0147 EA 1" 90 Degree Elbow (Compression)	89.70	
33 01 30 51-0148 EA 1-1/4" 90 Degree Elbow (Compression)	104.85	
33 01 30 51-0149 EA 1-1/2" 90 Degree Elbow (Compression)	148.01	
33 01 30 51-0150 EA 2" 90 Degree Elbow (Compression)	163.28	
33 01 30 51-0151 EA 3/4" Plain End 90 Degree Street Elbow (Compression)	85.93	
33 01 30 51-0152 EA 1" Plain End 90 Degree Street Elbow (Compression)	77.72	
33 01 30 51-0153 EA 1-1/4" Plain End 90 Degree Street Elbow (Compression)	87.89	
33 01 30 51-0154 EA 1-1/2" Plain End 90 Degree Street Elbow (Compression)	111.04	
33 01 30 51-0155 EA 2" Plain End 90 Degree Street Elbow (Compression)	142.38	
33 01 30 51-0156 EA 3/4" Threaded End 90 Degree Street Elbow (Compression)	88.54	
33 01 30 51-0157 EA 1" Threaded End 90 Degree Street Elbow (Compression)	82.60	
33 01 30 51-0158 EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression)	106.01	
33 01 30 51-0159 EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression)	128.33	
33 01 30 51-0160 EA 2" Threaded End 90 Degree Street Elbow (Compression)	179.34	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0162 EA 3/4" Street Tee (Compression)	97.09	
33 01 30 51-0163 EA 1" Street Tee (Compression)	114.17	
33 01 30 51-0164 EA 1-1/4" Street Tee (Compression)	117.03	
33 01 30 51-0165 EA 1-1/2" Street Tee (Compression)	136.48	
33 01 30 51-0166 EA 2" Street Tee (Compression)	200.93	
33 01 30 51-0167 EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)	116.09	
33 01 30 51-0168 EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)	120.81	
33 01 30 51-0169 EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)	151.27	
33 01 30 51-0170 EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression)	172.60	
33 01 30 51-0171 EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)	173.54	
33 01 30 51-0172 EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression)	149.27	
33 01 30 51-0173 EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression)	196.32	
33 01 30 51-0174 EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression)	220.02	
33 01 30 51-0175 EA 3/4" Welding Street Tee (Compression)	168.18	
33 01 30 51-0176 EA 1" Welding Street Tee (Compression)	170.44	
33 01 30 51-0177 EA 1-1/4" Welding Street Tee (Compression)	183.72	
33 01 30 51-0178 EA 1-1/2" Welding Street Tee (Compression)	221.78	
33 01 30 51-0179 EA 2" Welding Street Tee (Compression)	296.08	
33 01 30 51-0180 EA 3/4" Regular Tee (Compression)	126.82	
33 01 30 51-0181 EA 1" Regular Tee (Compression)	215.56	
33 01 30 51-0182 EA 1-1/4" Regular Tee (Compression)	228.75	
33 01 30 51-0183 EA 1-1/2" Regular Tee (Compression)	248.20	
33 01 30 51-0184 EA 2" Regular Tee (Compression)	276.88	
33 01 30 51-0185 EA 2" x 2" x 1-1/4" Regular Reducing Tee (Compression)	273.09	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0187 EA 3/4" Male Adapter (Compression)	85.46	
33 01 30 51-0188 EA 1" Male Adapter (Compression)	95.61	
33 01 30 51-0189 EA 1-1/4" Male Adapter (Compression)	123.32	
33 01 30 51-0190 EA 1-1/2" Male Adapter (Compression)	140.43	
33 01 30 51-0191 EA 2" Male Adapter (Compression)	159.32	
33 01 30 51-0192 EA 1" x 1-1/4" Male Adapter (Compression)	122.71	
33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0194 EA 3/4" Line Caps (Compression)	45.64	
33 01 30 51-0195 EA 1" Line Caps (Compression)	53.16	
33 01 30 51-0196 EA 1-1/4" Line Caps (Compression)	60.77	
33 01 30 51-0197 EA 1-1/2" Line Caps (Compression)	71.86	
33 01 30 51-0198 EA 2" Line Caps (Compression)	88.54	
33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket, Dresser style 38		
33 01 30 51-0200 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	51.93	
33 01 30 51-0201 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket	66.78	
33 01 30 51-0202 EA 1" Coupling, 5" Middle Ring With Buna S Gasket	80.28	



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	100.46	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	123.89	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	141.15	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	136.86	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	188.13	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	190.73	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	193.33	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	228.33	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	232.74	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	238.27	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	284.37	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	286.11	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	292.45	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	315.10	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	319.81	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	325.83	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	369.05	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	376.02	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	381.74	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	432.95	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	465.84	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	491.04	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	560.76	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	633.51	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	726.83	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	794.33	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	856.64	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,006.04	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,064.45	

33 01 30 51-0232

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected, Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	52.68	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	66.68	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	80.23	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	100.12	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	133.81	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	132.44	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	133.13	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	193.33	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	195.93	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	198.53	
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	235.41	
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	230.83	
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	233.24	
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	293.49	
33 01 30 51-0247	EA	5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	294.77	
33 01 30 51-0248	EA	5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	353.74	
33 01 30 51-0249	EA	6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	317.89	
33 01 30 51-0250	EA	6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	324.66	
33 01 30 51-0251	EA	6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	327.27	
33 01 30 51-0252	EA	8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	384.18	
33 01 30 51-0253	EA	8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	386.75	
33 01 30 51-0254	EA	8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	390.89	
33 01 30 51-0255	EA	10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	439.19	
33 01 30 51-0256	EA	10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	472.34	
33 01 30 51-0257	EA	12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	497.54	
33 01 30 51-0258	EA	12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	567.12	
33 01 30 51-0259	EA	14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	640.01	
33 01 30 51-0260	EA	16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	736.58	
33 01 30 51-0261	EA	18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	807.33	
33 01 30 51-0262	EA	20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	869.64	
33 01 30 51-0263	EA	22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,019.04	
33 01 30 51-0264	EA	24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,077.45	

33 01 30 51-0265

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	57.30	
33 01 30 51-0267	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	71.38	
33 01 30 51-0268	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	85.75	
33 01 30 51-0269	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	107.29	
33 01 30 51-0270	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	133.81	
33 01 30 51-0271	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	145.42	
33 01 30 51-0272	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	149.28	
33 01 30 51-0273	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	193.33	
33 01 30 51-0274	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	195.93	
33 01 30 51-0275	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	198.53	
33 01 30 51-0276	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	235.41	
33 01 30 51-0277	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	244.68	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0278 EA 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	248.21	
33 01 30 51-0279 EA 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	293.49	
33 01 30 51-0280 EA 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	294.77	
33 01 30 51-0281 EA 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	309.65	
33 01 30 51-0282 EA 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	317.89	
33 01 30 51-0283 EA 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	324.66	
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	327.27	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	384.18	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	386.75	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	390.89	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	439.19	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	472.34	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	497.54	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	567.12	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	640.01	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	726.83	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	807.33	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	869.64	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,019.04	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,077.45	

33 01 30 51-0298 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	87.69	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	100.66	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	116.38	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	161.30	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	168.42	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	172.04	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	218.39	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	217.57	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	257.68	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	261.21	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	335.13	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	339.81	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	368.76	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	371.87	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	406.48	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	453.00	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	471.97	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	503.92	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	503.86	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	608.26	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	622.55	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	705.30	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	837.21	
33 01 30 51-0322 EA 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	851.53	
33 01 30 51-0323 EA 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	936.59	
33 01 30 51-0324 EA 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,010.59	
33 01 30 51-0325 EA 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,090.45	

33 01 30 51-0326 Grind Offset Joint (33 01 30 51-0001)

33 01 30 51-0327 EA 6" To 10", Grind Drop Offset Joint.....	416.65	
33 01 30 51-0328 EA >10" To 15", Grind Drop Offset Joint.....	555.54	
33 01 30 51-0329 EA >15" To 24", Grind Drop Offset Joint.....	694.43	
33 01 30 51-0330 EA >24" To 30", Grind Drop Offset Joint.....	833.32	

33 01 30 51-0331 Temporary Pipe Plugging (33 01 30 51-0001)

33 01 30 51-0332 Gravity Bladder Pipe Plugging (33 01 30 51-0331)

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0333 EA 3/4" Bladder Type Pipe Plug.....	73.43	
33 01 30 51-0334 EA 1" Bladder Type Pipe Plug.....	78.75	
33 01 30 51-0335 EA 1-1/4" Bladder Type Pipe Plug.....	86.00	
33 01 30 51-0336 EA 1-1/2" Bladder Type Pipe Plug.....	92.48	
33 01 30 51-0337 EA 2" Bladder Type Pipe Plug.....	98.58	
33 01 30 51-0338 EA 2-1/2" Bladder Type Pipe Plug.....	105.80	
33 01 30 51-0339 EA 3" Bladder Type Pipe Plug.....	115.90	
33 01 30 51-0340 EA 4" Bladder Type Pipe Plug.....	127.88	
33 01 30 51-0341 EA 5" Bladder Type Pipe Plug.....	138.30	
33 01 30 51-0342 EA 6" Bladder Type Pipe Plug.....	153.88	
33 01 30 51-0343 EA 8" Bladder Type Pipe Plug.....	171.15	
33 01 30 51-0344 EA 10" Bladder Type Pipe Plug.....	198.11	
33 01 30 51-0345 EA 12" Bladder Type Pipe Plug.....	239.47	
33 01 30 51-0346 EA 14" Bladder Type Pipe Plug.....	283.58	
33 01 30 51-0347 EA 16" Bladder Type Pipe Plug.....	340.99	
33 01 30 51-0348 EA 18" Bladder Type Pipe Plug.....	410.04	
33 01 30 51-0349 EA 20" Bladder Type Pipe Plug.....	493.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0350 EA 24" Bladder Type Pipe Plug.....	572.29	
33 01 30 51-0351 Hydra Stop, Hot Tapping Of Pressure Pipe <small>(33 01 30 51-0331)</small>		
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0352 EA 2" Hydra Stop, Line Stopper	2,301.82	
33 01 30 51-0353 EA 2-1/2" Hydra Stop, Line Stopper	2,888.01	
33 01 30 51-0354 EA 3" Hydra Stop, Line Stopper	3,538.64	
33 01 30 51-0355 EA 4" Hydra Stop, Line Stopper	4,281.47	
33 01 30 51-0356 EA 5" Hydra Stop, Line Stopper	4,841.75	
33 01 30 51-0357 EA 6" Hydra Stop, Line Stopper	5,747.49	
33 01 30 51-0358 EA 8" Hydra Stop, Line Stopper	6,307.76	
33 01 30 51-0359 EA 10" Hydra Stop, Line Stopper	7,213.49	
33 01 30 51-0360 EA 12" Hydra Stop, Line Stopper	8,119.25	
33 01 30 51-0361 EA 14" Hydra Stop, Line Stopper	9,078.68	
33 01 30 51-0362 EA 16" Hydra Stop, Line Stopper	10,360.34	
33 01 30 51-0363 EA 18" Hydra Stop, Line Stopper	11,803.05	
33 01 30 51-0364 EA 20" Hydra Stop, Line Stopper	13,997.41	
33 01 30 51-0365 Aluminum Expansion Plugs <small>(33 01 30 51-0331)</small>		
Note: For use with PVC, clay Or cast iron drainage pipe.		
33 01 30 51-0366 EA 3" Pipe Aluminum Expansion Plug.....	69.17	
33 01 30 51-0367 EA 4" Pipe Aluminum Expansion Plug.....	97.32	
33 01 30 51-0368 EA 5" Pipe Aluminum Expansion Plug.....	109.44	
33 01 30 51-0369 EA 6" Pipe Aluminum Expansion Plug.....	163.23	
33 01 30 51-0370 EA 8" Pipe Aluminum Expansion Plug.....	168.05	
33 01 30 51-0371 EA 10" Pipe Aluminum Expansion Plug.....	208.78	
33 01 30 51-0372 EA 12" Pipe Aluminum Expansion Plug.....	279.77	
33 01 30 51-0373 EA 14" Pipe Aluminum Expansion Plug.....	446.72	
33 01 30 51-0374 EA 15" Pipe Aluminum Expansion Plug.....	483.34	
33 01 30 51-0375 Pipe Repair Clamp, Stainless Steel, 3" Long <small>(33 01 30 51-0001)</small>		
33 01 30 51-0376 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	181.83	
33 01 30 51-0377 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	182.01	
33 01 30 51-0378 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	182.45	
33 01 30 51-0379 EA 1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	182.89	
33 01 30 51-0380 EA 1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	183.11	
33 01 30 51-0381 EA 2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	183.77	
33 01 30 51-0382 EA 2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	184.43	
33 01 30 51-0383 EA 3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	185.31	
33 01 30 51-0384 EA 4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	334.56	
33 01 30 51-0385 EA 6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	337.42	
33 01 30 51-0386 EA 8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	339.41	
33 01 30 51-0387 EA 10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	360.36	
33 01 30 51-0388 EA 12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	363.01	
33 01 30 51-0389 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	364.78	
33 01 30 51-0390 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	367.42	
33 01 30 51-0391 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	370.07	
33 01 30 51-0392 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	373.60	
33 01 30 51-0393 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	379.77	
33 01 30 51-0394 Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small>		
33 01 30 51-0395 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	367.29	
33 01 30 51-0396 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	415.31	
33 01 30 63 Sewer and Pipe Joint Sealing <small>(33 01 30)</small>		
33 01 30 63-0001 Joint Air Test <small>(33 01 30 63)</small>		
33 01 30 63-0002 EA 4" To 8", Joint Air Test.....	102.95	
33 01 30 63-0003 EA 10" To 15", Joint Air Test	120.11	
33 01 30 63-0004 EA >15" To 21", Joint Air Test	137.26	
33 01 30 63-0005 EA >21" To 24", Joint Air Test	171.58	
33 01 30 63-0006 EA >24" To 27", Joint Air Test.....	205.90	
33 01 30 63-0007 EA >27" To 36", Joint Air Test.....	240.21	
33 01 30 63-0008 Joint Seal And Joint Air Retest <small>(33 01 30 63)</small>		
Note: Includes grout.		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest	303.48	
Note: Includes up to 1 gallon of grout.		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest	337.80	
Note: Includes 1 gallon of grout.		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest	401.07	
Note: Includes 2 gallons of grout.		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest	449.86	
Note: Includes 2.5 gallons of grout.		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 63-0013	EA	12" Joint Seal And Joint Air Retest Note: Includes 3 gallons of grout.	498.65	
33 01 30 63-0014	EA	15" Joint Seal And Joint Air Retest Note: Includes 3.75 gallons of grout.	589.01	
33 01 30 63-0015	EA	18" Joint Seal And Joint Air Retest Note: Includes 4.5 gallons of grout.	679.35	
33 01 30 63-0016	EA	21" Joint Seal And Joint Air Retest Note: Includes 5.25 gallons of grout.	769.71	
33 01 30 63-0017	EA	24" Joint Seal And Joint Air Retest Note: Includes 6 gallons of grout.	894.37	
33 01 30 63-0018	EA	27" Joint Seal And Joint Air Retest Note: Includes 6.75 gallons of grout.	1,019.04	
33 01 30 63-0019	EA	30" Joint Seal And Joint Air Retest Note: Includes 7.5 gallons of grout.	1,178.01	
33 01 30 63-0020	EA	36" Joint Seal And Joint Air Retest Note: Includes 9 gallons of grout.	1,358.71	
33 01 30 63-0021	GAL	Extra Grout Per Joint Note: For extra grout per joint required over listed amount.	166.21	
33 01 30 71 Relining Sewer Utilities Pipelines (33 01 30)				
33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)				
Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.				
33 01 30 71-0002 Lining Pipe With Rib Loc (33 01 30 71-0001)				
33 01 30 71-0003	LF	Lining 6" Pipe With Rib Loc.....	40.98	
		For >500 To 1,000, Deduct	-1.05	
		For >1,000 To 2,000, Deduct	-2.05	
		For >2,000 To 5,000, Deduct	-3.16	
		For >5,000, Deduct	-4.68	
33 01 30 71-0004	LF	Lining 8" Pipe With Rib Loc.....	45.58	
		For >500 To 1,000, Deduct	-1.16	
		For >1,000 To 2,000, Deduct	-2.26	
		For >2,000 To 5,000, Deduct	-3.49	
		For >5,000, Deduct	-5.19	
33 01 30 71-0005	LF	Lining 10" Pipe With Rib Loc.....	63.01	
		For >500 To 1,000, Deduct	-1.54	
		For >1,000 To 2,000, Deduct	-3.00	
		For >2,000 To 5,000, Deduct	-4.61	
		For >5,000, Deduct	-6.99	
33 01 30 71-0006	LF	Lining 12" Pipe With Rib Loc.....	80.13	
		For >500 To 1,000, Deduct	-1.91	
		For >1,000 To 2,000, Deduct	-3.73	
		For >2,000 To 5,000, Deduct	-5.72	
		For >5,000, Deduct	-8.77	
33 01 30 71-0007	LF	Lining 15" Pipe With Rib Loc.....	106.57	
		For >500 To 1,000, Deduct	-2.48	
		For >1,000 To 2,000, Deduct	-4.86	
		For >2,000 To 5,000, Deduct	-7.43	
		For >5,000, Deduct	-11.52	
33 01 30 71-0008	LF	Lining 18" Pipe With Rib Loc.....	137.39	
		For >500 To 1,000, Deduct	-3.14	
		For >1,000 To 2,000, Deduct	-6.17	
		For >2,000 To 5,000, Deduct	-9.41	
		For >5,000, Deduct	-14.71	
33 01 30 71-0009	LF	Lining 21" Pipe With Rib Loc.....	172.44	
		For >500 To 1,000, Deduct	-3.87	
		For >1,000 To 2,000, Deduct	-7.63	
		For >2,000 To 5,000, Deduct	-11.61	
		For >5,000, Deduct	-18.29	
33 01 30 71-0010	LF	Lining 24" Pipe With Rib Loc.....	213.29	
		For >500 To 1,000, Deduct	-4.72	
		For >1,000 To 2,000, Deduct	-9.33	
		For >2,000 To 5,000, Deduct	-14.17	
		For >5,000, Deduct	-22.48	
33 01 30 71-0011	LF	Lining 27" Pipe With Rib Loc.....	255.44	
		For >500 To 1,000, Deduct	-5.61	
		For >1,000 To 2,000, Deduct	-11.10	
		For >2,000 To 5,000, Deduct	-16.84	
		For >5,000, Deduct	-26.80	
33 01 30 71-0012	LF	Lining 30" Pipe With Rib Loc.....	303.00	
		For >500 To 1,000, Deduct	-6.62	
		For >1,000 To 2,000, Deduct	-13.10	
		For >2,000 To 5,000, Deduct	-19.86	
		For >5,000, Deduct	-31.70	
33 01 30 71-0013	LF	Lining 36" Pipe With Rib Loc.....	386.26	
		For >500 To 1,000, Deduct	-8.36	
		For >1,000 To 2,000, Deduct	-16.55	
		For >2,000 To 5,000, Deduct	-25.07	
		For >5,000, Deduct	-40.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0014 LF Lining 42" Pipe With Rib Loc	480.92	
<i>For >500 To 1,000, Deduct</i>	-10.34	
<i>For >1,000 To 2,000, Deduct</i>	-20.50	
<i>For >2,000 To 5,000, Deduct</i>	-31.02	
<i>For >5,000, Deduct</i>	-49.89	
33 01 30 71-0015 LF Lining 48" Pipe With Rib Loc	588.61	
<i>For >500 To 1,000, Deduct</i>	-12.61	
<i>For >1,000 To 2,000, Deduct</i>	-25.02	
<i>For >2,000 To 5,000, Deduct</i>	-37.84	
<i>For >5,000, Deduct</i>	-60.96	
33 01 30 71-0016 LF Lining 54" Pipe With Rib Loc	696.08	
<i>For >500 To 1,000, Deduct</i>	-14.93	
<i>For >1,000 To 2,000, Deduct</i>	-29.61	
<i>For >2,000 To 5,000, Deduct</i>	-44.79	
<i>For >5,000, Deduct</i>	-72.13	
33 01 30 71-0017 LF Lining 60" Pipe With Rib Loc	822.04	
<i>For >500 To 1,000, Deduct</i>	-17.82	
<i>For >1,000 To 2,000, Deduct</i>	-35.29	
<i>For >2,000 To 5,000, Deduct</i>	-53.45	
<i>For >5,000, Deduct</i>	-85.64	
33 01 30 71-0018 LF Lining 66" Pipe With Rib Loc	978.10	
<i>For >500 To 1,000, Deduct</i>	-21.72	
<i>For >1,000 To 2,000, Deduct</i>	-42.91	
<i>For >2,000 To 5,000, Deduct</i>	-65.17	
<i>For >5,000, Deduct</i>	-103.21	
33 01 30 71-0019 LF Lining 72" Pipe With Rib Loc	1,185.67	
<i>For >500 To 1,000, Deduct</i>	-27.50	
<i>For >1,000 To 2,000, Deduct</i>	-54.05	
<i>For >2,000 To 5,000, Deduct</i>	-82.49	
<i>For >5,000, Deduct</i>	-128.02	
33 01 30 71-0020 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0021 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0020)</small>		
33 01 30 71-0022 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,657.18	
33 01 30 71-0023 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0024 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	49.42	
<i>For Up To 75, Add</i>	10.78	
<i>For >75 To 150, Add</i>	4.94	
<i>For >500 To 1,000, Deduct</i>	-1.35	
<i>For >1,000 To 2,000, Deduct</i>	-2.60	
<i>For >2,000 To 5,000, Deduct</i>	-4.04	
<i>For >5,000, Deduct</i>	-5.84	
33 01 30 71-0025 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	57.66	
<i>For Up To 75, Add</i>	12.58	
<i>For >75 To 150, Add</i>	5.77	
<i>For >500 To 1,000, Deduct</i>	-1.57	
<i>For >1,000 To 2,000, Deduct</i>	-3.04	
<i>For >2,000 To 5,000, Deduct</i>	-4.71	
<i>For >5,000, Deduct</i>	-6.81	
33 01 30 71-0026 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	65.90	
<i>For Up To 75, Add</i>	14.37	
<i>For >75 To 150, Add</i>	6.59	
<i>For >500 To 1,000, Deduct</i>	-1.79	
<i>For >1,000 To 2,000, Deduct</i>	-3.47	
<i>For >2,000 To 5,000, Deduct</i>	-5.38	
<i>For >5,000, Deduct</i>	-7.78	
33 01 30 71-0027 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	74.14	
<i>For Up To 75, Add</i>	16.17	
<i>For >75 To 150, Add</i>	7.41	
<i>For >500 To 1,000, Deduct</i>	-2.02	
<i>For >1,000 To 2,000, Deduct</i>	-3.90	
<i>For >2,000 To 5,000, Deduct</i>	-6.06	
<i>For >5,000, Deduct</i>	-8.76	
33 01 30 71-0028 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	82.37	
<i>For Up To 75, Add</i>	17.96	
<i>For >75 To 150, Add</i>	8.24	
<i>For >500 To 1,000, Deduct</i>	-2.24	
<i>For >1,000 To 2,000, Deduct</i>	-4.34	
<i>For >2,000 To 5,000, Deduct</i>	-6.73	
<i>For >5,000, Deduct</i>	-9.73	
33 01 30 71-0029 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	90.61	
<i>For Up To 75, Add</i>	19.76	
<i>For >75 To 150, Add</i>	9.06	
<i>For >500 To 1,000, Deduct</i>	-2.47	
<i>For >1,000 To 2,000, Deduct</i>	-4.77	
<i>For >2,000 To 5,000, Deduct</i>	-7.40	
<i>For >5,000, Deduct</i>	-10.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0030 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	98.84	
For Up To 75, Add	21.56	
For >75 To 150, Add	9.88	
For >500 To 1,000, Deduct	-2.69	
For >1,000 To 2,000, Deduct	-5.20	
For >2,000 To 5,000, Deduct	-8.08	
For >5,000, Deduct	-11.67	
33 01 30 71-0031 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	107.08	
For Up To 75, Add	23.35	
For >75 To 150, Add	10.71	
For >500 To 1,000, Deduct	-2.92	
For >1,000 To 2,000, Deduct	-5.64	
For >2,000 To 5,000, Deduct	-8.75	
For >5,000, Deduct	-12.64	
33 01 30 71-0032 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	115.32	
For Up To 75, Add	25.15	
For >75 To 150, Add	11.53	
For >500 To 1,000, Deduct	-3.14	
For >1,000 To 2,000, Deduct	-6.07	
For >2,000 To 5,000, Deduct	-9.42	
For >5,000, Deduct	-13.62	
33 01 30 71-0033 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	123.56	
For Up To 75, Add	26.95	
For >75 To 150, Add	12.36	
For >500 To 1,000, Deduct	-3.37	
For >1,000 To 2,000, Deduct	-6.51	
For >2,000 To 5,000, Deduct	-10.10	
For >5,000, Deduct	-14.59	
33 01 30 71-0034 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	131.79	
For Up To 75, Add	28.74	
For >75 To 150, Add	13.18	
For >500 To 1,000, Deduct	-3.59	
For >1,000 To 2,000, Deduct	-6.94	
For >2,000 To 5,000, Deduct	-10.77	
For >5,000, Deduct	-15.56	
33 01 30 71-0035 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	140.03	
For Up To 75, Add	30.54	
For >75 To 150, Add	14.00	
For >500 To 1,000, Deduct	-3.81	
For >1,000 To 2,000, Deduct	-7.37	
For >2,000 To 5,000, Deduct	-11.44	
For >5,000, Deduct	-16.54	
33 01 30 71-0036 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	148.26	
For Up To 75, Add	32.33	
For >75 To 150, Add	14.83	
For >500 To 1,000, Deduct	-4.04	
For >1,000 To 2,000, Deduct	-7.81	
For >2,000 To 5,000, Deduct	-12.11	
For >5,000, Deduct	-17.51	
33 01 30 71-0037 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	156.51	
For Up To 75, Add	34.13	
For >75 To 150, Add	15.65	
For >500 To 1,000, Deduct	-4.26	
For >1,000 To 2,000, Deduct	-8.24	
For >2,000 To 5,000, Deduct	-12.79	
For >5,000, Deduct	-18.48	
33 01 30 71-0038 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	164.74	
For Up To 75, Add	35.93	
For >75 To 150, Add	16.47	
For >500 To 1,000, Deduct	-4.49	
For >1,000 To 2,000, Deduct	-8.67	
For >2,000 To 5,000, Deduct	-13.46	
For >5,000, Deduct	-19.45	
33 01 30 71-0039 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane.....	5.25	
33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0041 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	66.17	
For Up To 75, Add	14.18	
For >75 To 150, Add	6.62	
For >500 To 1,000, Deduct	-1.70	
For >1,000 To 2,000, Deduct	-3.31	
For >2,000 To 5,000, Deduct	-5.10	
For >5,000, Deduct	-7.56	
33 01 30 71-0042 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	77.19	
For Up To 75, Add	16.54	
For >75 To 150, Add	7.72	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,000, Deduct	-3.86	
For >2,000 To 5,000, Deduct	-5.95	
For >5,000, Deduct	-8.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0043 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	88.22	
<i>For Up To 75, Add</i>	18.90	
<i>For >75 To 150, Add</i>	8.82	
<i>For >500 To 1,000, Deduct</i>	-2.27	
<i>For >1,000 To 2,000, Deduct</i>	-4.41	
<i>For >2,000 To 5,000, Deduct</i>	-6.80	
<i>For >5,000, Deduct</i>	-10.08	
33 01 30 71-0044 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	99.24	
<i>For Up To 75, Add</i>	21.26	
<i>For >75 To 150, Add</i>	9.92	
<i>For >500 To 1,000, Deduct</i>	-2.55	
<i>For >1,000 To 2,000, Deduct</i>	-4.96	
<i>For >2,000 To 5,000, Deduct</i>	-7.65	
<i>For >5,000, Deduct</i>	-11.34	
33 01 30 71-0045 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	110.28	
<i>For Up To 75, Add</i>	23.62	
<i>For >75 To 150, Add</i>	11.03	
<i>For >500 To 1,000, Deduct</i>	-2.83	
<i>For >1,000 To 2,000, Deduct</i>	-5.51	
<i>For >2,000 To 5,000, Deduct</i>	-8.50	
<i>For >5,000, Deduct</i>	-12.60	
33 01 30 71-0046 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	121.30	
<i>For Up To 75, Add</i>	25.98	
<i>For >75 To 150, Add</i>	12.13	
<i>For >500 To 1,000, Deduct</i>	-3.12	
<i>For >1,000 To 2,000, Deduct</i>	-6.06	
<i>For >2,000 To 5,000, Deduct</i>	-9.35	
<i>For >5,000, Deduct</i>	-13.85	
33 01 30 71-0047 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	132.33	
<i>For Up To 75, Add</i>	28.35	
<i>For >75 To 150, Add</i>	13.23	
<i>For >500 To 1,000, Deduct</i>	-3.40	
<i>For >1,000 To 2,000, Deduct</i>	-6.61	
<i>For >2,000 To 5,000, Deduct</i>	-10.20	
<i>For >5,000, Deduct</i>	-15.11	
33 01 30 71-0048 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	143.36	
<i>For Up To 75, Add</i>	30.71	
<i>For >75 To 150, Add</i>	14.34	
<i>For >500 To 1,000, Deduct</i>	-3.68	
<i>For >1,000 To 2,000, Deduct</i>	-7.16	
<i>For >2,000 To 5,000, Deduct</i>	-11.05	
<i>For >5,000, Deduct</i>	-16.37	
33 01 30 71-0049 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	154.39	
<i>For Up To 75, Add</i>	33.07	
<i>For >75 To 150, Add</i>	15.44	
<i>For >500 To 1,000, Deduct</i>	-3.97	
<i>For >1,000 To 2,000, Deduct</i>	-7.71	
<i>For >2,000 To 5,000, Deduct</i>	-11.90	
<i>For >5,000, Deduct</i>	-17.63	
33 01 30 71-0050 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	165.41	
<i>For Up To 75, Add</i>	35.43	
<i>For >75 To 150, Add</i>	16.54	
<i>For >500 To 1,000, Deduct</i>	-4.25	
<i>For >1,000 To 2,000, Deduct</i>	-8.26	
<i>For >2,000 To 5,000, Deduct</i>	-12.75	
<i>For >5,000, Deduct</i>	-18.89	
33 01 30 71-0051 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	176.45	
<i>For Up To 75, Add</i>	37.80	
<i>For >75 To 150, Add</i>	17.65	
<i>For >500 To 1,000, Deduct</i>	-4.53	
<i>For >1,000 To 2,000, Deduct</i>	-8.81	
<i>For >2,000 To 5,000, Deduct</i>	-13.60	
<i>For >5,000, Deduct</i>	-20.15	
33 01 30 71-0052 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	187.48	
<i>For Up To 75, Add</i>	40.16	
<i>For >75 To 150, Add</i>	18.75	
<i>For >500 To 1,000, Deduct</i>	-4.82	
<i>For >1,000 To 2,000, Deduct</i>	-9.37	
<i>For >2,000 To 5,000, Deduct</i>	-14.45	
<i>For >5,000, Deduct</i>	-21.41	
33 01 30 71-0053 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	198.50	
<i>For Up To 75, Add</i>	42.52	
<i>For >75 To 150, Add</i>	19.85	
<i>For >500 To 1,000, Deduct</i>	-5.10	
<i>For >1,000 To 2,000, Deduct</i>	-9.92	
<i>For >2,000 To 5,000, Deduct</i>	-15.30	
<i>For >5,000, Deduct</i>	-22.67	
33 01 30 71-0054 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	209.52	
<i>For Up To 75, Add</i>	44.88	
<i>For >75 To 150, Add</i>	20.95	
<i>For >500 To 1,000, Deduct</i>	-5.38	
<i>For >1,000 To 2,000, Deduct</i>	-10.47	
<i>For >2,000 To 5,000, Deduct</i>	-16.15	
<i>For >5,000, Deduct</i>	-23.93	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0055 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	220.56	
For Up To 75, Add	47.25	
For >75 To 150, Add	22.06	
For >500 To 1,000, Deduct	-5.67	
For >1,000 To 2,000, Deduct	-11.02	
For >2,000 To 5,000, Deduct	-17.00	
For >5,000, Deduct	-25.19	
33 01 30 71-0056 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane.....	7.02	
33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0058 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	82.89	
For Up To 75, Add	17.57	
For >75 To 150, Add	8.29	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,000, Deduct	-4.01	
For >2,000 To 5,000, Deduct	-6.16	
For >5,000, Deduct	-9.28	
33 01 30 71-0059 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	96.72	
For Up To 75, Add	20.50	
For >75 To 150, Add	9.67	
For >500 To 1,000, Deduct	-2.40	
For >1,000 To 2,000, Deduct	-4.68	
For >2,000 To 5,000, Deduct	-7.19	
For >5,000, Deduct	-10.83	
33 01 30 71-0060 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	110.52	
For Up To 75, Add	23.42	
For >75 To 150, Add	11.05	
For >500 To 1,000, Deduct	-2.74	
For >1,000 To 2,000, Deduct	-5.34	
For >2,000 To 5,000, Deduct	-8.22	
For >5,000, Deduct	-12.37	
33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	124.35	
For Up To 75, Add	26.36	
For >75 To 150, Add	12.44	
For >500 To 1,000, Deduct	-3.08	
For >1,000 To 2,000, Deduct	-6.01	
For >2,000 To 5,000, Deduct	-9.24	
For >5,000, Deduct	-13.92	
33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	138.18	
For Up To 75, Add	29.29	
For >75 To 150, Add	13.82	
For >500 To 1,000, Deduct	-3.42	
For >1,000 To 2,000, Deduct	-6.68	
For >2,000 To 5,000, Deduct	-10.27	
For >5,000, Deduct	-15.47	
33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	151.98	
For Up To 75, Add	32.21	
For >75 To 150, Add	15.20	
For >500 To 1,000, Deduct	-3.77	
For >1,000 To 2,000, Deduct	-7.35	
For >2,000 To 5,000, Deduct	-11.30	
For >5,000, Deduct	-17.01	
33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	165.81	
For Up To 75, Add	35.14	
For >75 To 150, Add	16.58	
For >500 To 1,000, Deduct	-4.11	
For >1,000 To 2,000, Deduct	-8.02	
For >2,000 To 5,000, Deduct	-12.33	
For >5,000, Deduct	-18.56	
33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	179.61	
For Up To 75, Add	38.07	
For >75 To 150, Add	17.96	
For >500 To 1,000, Deduct	-4.45	
For >1,000 To 2,000, Deduct	-8.69	
For >2,000 To 5,000, Deduct	-13.35	
For >5,000, Deduct	-20.11	
33 01 30 71-0066 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	193.44	
For Up To 75, Add	41.00	
For >75 To 150, Add	19.34	
For >500 To 1,000, Deduct	-4.79	
For >1,000 To 2,000, Deduct	-9.36	
For >2,000 To 5,000, Deduct	-14.38	
For >5,000, Deduct	-21.66	
33 01 30 71-0067 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	207.24	
For Up To 75, Add	43.92	
For >75 To 150, Add	20.72	
For >500 To 1,000, Deduct	-5.14	
For >1,000 To 2,000, Deduct	-10.02	
For >2,000 To 5,000, Deduct	-15.41	
For >5,000, Deduct	-23.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0068 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	221.07	
<i>For Up To 75, Add</i>	46.86	
<i>For >75 To 150, Add</i>	22.11	
<i>For >500 To 1,000, Deduct</i>	-5.48	
<i>For >1,000 To 2,000, Deduct</i>	-10.69	
<i>For >2,000 To 5,000, Deduct</i>	-16.43	
<i>For >5,000, Deduct</i>	-24.75	
33 01 30 71-0069 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	234.90	
<i>For Up To 75, Add</i>	49.79	
<i>For >75 To 150, Add</i>	23.49	
<i>For >500 To 1,000, Deduct</i>	-5.82	
<i>For >1,000 To 2,000, Deduct</i>	-11.36	
<i>For >2,000 To 5,000, Deduct</i>	-17.46	
<i>For >5,000, Deduct</i>	-26.30	
33 01 30 71-0070 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	248.70	
<i>For Up To 75, Add</i>	52.71	
<i>For >75 To 150, Add</i>	24.87	
<i>For >500 To 1,000, Deduct</i>	-6.16	
<i>For >1,000 To 2,000, Deduct</i>	-12.03	
<i>For >2,000 To 5,000, Deduct</i>	-18.49	
<i>For >5,000, Deduct</i>	-27.84	
33 01 30 71-0071 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	262.53	
<i>For Up To 75, Add</i>	55.64	
<i>For >75 To 150, Add</i>	26.25	
<i>For >500 To 1,000, Deduct</i>	-6.51	
<i>For >1,000 To 2,000, Deduct</i>	-12.70	
<i>For >2,000 To 5,000, Deduct</i>	-19.52	
<i>For >5,000, Deduct</i>	-29.39	
33 01 30 71-0072 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	276.33	
<i>For Up To 75, Add</i>	58.57	
<i>For >75 To 150, Add</i>	27.63	
<i>For >500 To 1,000, Deduct</i>	-6.85	
<i>For >1,000 To 2,000, Deduct</i>	-13.36	
<i>For >2,000 To 5,000, Deduct</i>	-20.54	
<i>For >5,000, Deduct</i>	-30.93	
33 01 30 71-0073 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane	8.79	
33 01 30 71-0074 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0075 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	99.72	
<i>For Up To 75, Add</i>	20.99	
<i>For >75 To 150, Add</i>	9.97	
<i>For >500 To 1,000, Deduct</i>	-2.41	
<i>For >1,000 To 2,000, Deduct</i>	-4.72	
<i>For >2,000 To 5,000, Deduct</i>	-7.23	
<i>For >5,000, Deduct</i>	-11.01	
33 01 30 71-0076 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	116.33	
<i>For Up To 75, Add</i>	24.48	
<i>For >75 To 150, Add</i>	11.63	
<i>For >500 To 1,000, Deduct</i>	-2.81	
<i>For >1,000 To 2,000, Deduct</i>	-5.50	
<i>For >2,000 To 5,000, Deduct</i>	-8.44	
<i>For >5,000, Deduct</i>	-12.85	
33 01 30 71-0077 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	132.96	
<i>For Up To 75, Add</i>	27.98	
<i>For >75 To 150, Add</i>	13.30	
<i>For >500 To 1,000, Deduct</i>	-3.22	
<i>For >1,000 To 2,000, Deduct</i>	-6.29	
<i>For >2,000 To 5,000, Deduct</i>	-9.65	
<i>For >5,000, Deduct</i>	-14.69	
33 01 30 71-0078 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	149.57	
<i>For Up To 75, Add</i>	31.48	
<i>For >75 To 150, Add</i>	14.96	
<i>For >500 To 1,000, Deduct</i>	-3.62	
<i>For >1,000 To 2,000, Deduct</i>	-7.08	
<i>For >2,000 To 5,000, Deduct</i>	-10.85	
<i>For >5,000, Deduct</i>	-16.52	
33 01 30 71-0079 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	166.20	
<i>For Up To 75, Add</i>	34.98	
<i>For >75 To 150, Add</i>	16.62	
<i>For >500 To 1,000, Deduct</i>	-4.02	
<i>For >1,000 To 2,000, Deduct</i>	-7.86	
<i>For >2,000 To 5,000, Deduct</i>	-12.06	
<i>For >5,000, Deduct</i>	-18.36	
33 01 30 71-0080 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	182.81	
<i>For Up To 75, Add</i>	38.47	
<i>For >75 To 150, Add</i>	18.28	
<i>For >500 To 1,000, Deduct</i>	-4.42	
<i>For >1,000 To 2,000, Deduct</i>	-8.65	
<i>For >2,000 To 5,000, Deduct</i>	-13.26	
<i>For >5,000, Deduct</i>	-20.19	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0081 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	199.43	
For Up To 75, Add	41.97	
For >75 To 150, Add	19.94	
For >500 To 1,000, Deduct	-4.82	
For >1,000 To 2,000, Deduct	-9.44	
For >2,000 To 5,000, Deduct	-14.47	
For >5,000, Deduct	-22.03	
33 01 30 71-0082 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	216.05	
For Up To 75, Add	45.47	
For >75 To 150, Add	21.61	
For >500 To 1,000, Deduct	-5.22	
For >1,000 To 2,000, Deduct	-10.22	
For >2,000 To 5,000, Deduct	-15.67	
For >5,000, Deduct	-23.86	
33 01 30 71-0083 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	232.67	
For Up To 75, Add	48.97	
For >75 To 150, Add	23.27	
For >500 To 1,000, Deduct	-5.63	
For >1,000 To 2,000, Deduct	-11.01	
For >2,000 To 5,000, Deduct	-16.88	
For >5,000, Deduct	-25.70	
33 01 30 71-0084 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	249.29	
For Up To 75, Add	52.46	
For >75 To 150, Add	24.93	
For >500 To 1,000, Deduct	-6.03	
For >1,000 To 2,000, Deduct	-11.80	
For >2,000 To 5,000, Deduct	-18.08	
For >5,000, Deduct	-27.54	
33 01 30 71-0085 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	265.91	
For Up To 75, Add	55.96	
For >75 To 150, Add	26.59	
For >500 To 1,000, Deduct	-6.43	
For >1,000 To 2,000, Deduct	-12.58	
For >2,000 To 5,000, Deduct	-19.29	
For >5,000, Deduct	-29.37	
33 01 30 71-0086 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	282.53	
For Up To 75, Add	59.46	
For >75 To 150, Add	28.25	
For >500 To 1,000, Deduct	-6.83	
For >1,000 To 2,000, Deduct	-13.37	
For >2,000 To 5,000, Deduct	-20.50	
For >5,000, Deduct	-31.21	
33 01 30 71-0087 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	299.15	
For Up To 75, Add	62.96	
For >75 To 150, Add	29.92	
For >500 To 1,000, Deduct	-7.23	
For >1,000 To 2,000, Deduct	-14.16	
For >2,000 To 5,000, Deduct	-21.70	
For >5,000, Deduct	-33.04	
33 01 30 71-0088 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	315.77	
For Up To 75, Add	66.46	
For >75 To 150, Add	31.58	
For >500 To 1,000, Deduct	-7.64	
For >1,000 To 2,000, Deduct	-14.94	
For >2,000 To 5,000, Deduct	-22.91	
For >5,000, Deduct	-34.88	
33 01 30 71-0089 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	332.39	
For Up To 75, Add	69.95	
For >75 To 150, Add	33.24	
For >500 To 1,000, Deduct	-8.04	
For >1,000 To 2,000, Deduct	-15.73	
For >2,000 To 5,000, Deduct	-24.11	
For >5,000, Deduct	-36.71	
33 01 30 71-0090 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane.....	10.58	
33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0092 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	116.65	
For Up To 75, Add	24.43	
For >75 To 150, Add	11.67	
For >500 To 1,000, Deduct	-2.77	
For >1,000 To 2,000, Deduct	-5.43	
For >2,000 To 5,000, Deduct	-8.32	
For >5,000, Deduct	-12.76	
33 01 30 71-0093 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	136.08	
For Up To 75, Add	28.50	
For >75 To 150, Add	13.61	
For >500 To 1,000, Deduct	-3.23	
For >1,000 To 2,000, Deduct	-6.34	
For >2,000 To 5,000, Deduct	-9.70	
For >5,000, Deduct	-14.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0094 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	155.54	
<i>For Up To 75, Add</i>	32.57	
<i>For >75 To 150, Add</i>	15.55	
<i>For >500 To 1,000, Deduct</i>	-3.70	
<i>For >1,000 To 2,000, Deduct</i>	-7.25	
<i>For >2,000 To 5,000, Deduct</i>	-11.09	
<i>For >5,000, Deduct</i>	-17.02	
33 01 30 71-0095 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	174.97	
<i>For Up To 75, Add</i>	36.64	
<i>For >75 To 150, Add</i>	17.50	
<i>For >500 To 1,000, Deduct</i>	-4.16	
<i>For >1,000 To 2,000, Deduct</i>	-8.15	
<i>For >2,000 To 5,000, Deduct</i>	-12.47	
<i>For >5,000, Deduct</i>	-19.14	
33 01 30 71-0096 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	194.42	
<i>For Up To 75, Add</i>	40.71	
<i>For >75 To 150, Add</i>	19.44	
<i>For >500 To 1,000, Deduct</i>	-4.62	
<i>For >1,000 To 2,000, Deduct</i>	-9.06	
<i>For >2,000 To 5,000, Deduct</i>	-13.86	
<i>For >5,000, Deduct</i>	-21.27	
33 01 30 71-0097 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	213.86	
<i>For Up To 75, Add</i>	44.78	
<i>For >75 To 150, Add</i>	21.39	
<i>For >500 To 1,000, Deduct</i>	-5.08	
<i>For >1,000 To 2,000, Deduct</i>	-9.96	
<i>For >2,000 To 5,000, Deduct</i>	-15.25	
<i>For >5,000, Deduct</i>	-23.40	
33 01 30 71-0098 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	233.29	
<i>For Up To 75, Add</i>	48.85	
<i>For >75 To 150, Add</i>	23.33	
<i>For >500 To 1,000, Deduct</i>	-5.54	
<i>For >1,000 To 2,000, Deduct</i>	-10.87	
<i>For >2,000 To 5,000, Deduct</i>	-16.63	
<i>For >5,000, Deduct</i>	-25.52	
33 01 30 71-0099 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	252.73	
<i>For Up To 75, Add</i>	52.92	
<i>For >75 To 150, Add</i>	25.27	
<i>For >500 To 1,000, Deduct</i>	-6.01	
<i>For >1,000 To 2,000, Deduct</i>	-11.77	
<i>For >2,000 To 5,000, Deduct</i>	-18.02	
<i>For >5,000, Deduct</i>	-27.65	
33 01 30 71-0100 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	272.17	
<i>For Up To 75, Add</i>	56.99	
<i>For >75 To 150, Add</i>	27.22	
<i>For >500 To 1,000, Deduct</i>	-6.47	
<i>For >1,000 To 2,000, Deduct</i>	-12.68	
<i>For >2,000 To 5,000, Deduct</i>	-19.40	
<i>For >5,000, Deduct</i>	-29.78	
33 01 30 71-0101 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	291.62	
<i>For Up To 75, Add</i>	61.07	
<i>For >75 To 150, Add</i>	29.16	
<i>For >500 To 1,000, Deduct</i>	-6.93	
<i>For >1,000 To 2,000, Deduct</i>	-13.59	
<i>For >2,000 To 5,000, Deduct</i>	-20.79	
<i>For >5,000, Deduct</i>	-31.91	
33 01 30 71-0102 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	311.05	
<i>For Up To 75, Add</i>	65.14	
<i>For >75 To 150, Add</i>	31.11	
<i>For >500 To 1,000, Deduct</i>	-7.39	
<i>For >1,000 To 2,000, Deduct</i>	-14.49	
<i>For >2,000 To 5,000, Deduct</i>	-22.17	
<i>For >5,000, Deduct</i>	-34.03	
33 01 30 71-0103 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	330.51	
<i>For Up To 75, Add</i>	69.21	
<i>For >75 To 150, Add</i>	33.05	
<i>For >500 To 1,000, Deduct</i>	-7.85	
<i>For >1,000 To 2,000, Deduct</i>	-15.40	
<i>For >2,000 To 5,000, Deduct</i>	-23.56	
<i>For >5,000, Deduct</i>	-36.16	
33 01 30 71-0104 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	349.94	
<i>For Up To 75, Add</i>	73.28	
<i>For >75 To 150, Add</i>	34.99	
<i>For >500 To 1,000, Deduct</i>	-8.32	
<i>For >1,000 To 2,000, Deduct</i>	-16.30	
<i>For >2,000 To 5,000, Deduct</i>	-24.95	
<i>For >5,000, Deduct</i>	-38.29	
33 01 30 71-0105 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	369.38	
<i>For Up To 75, Add</i>	77.35	
<i>For >75 To 150, Add</i>	36.94	
<i>For >500 To 1,000, Deduct</i>	-8.78	
<i>For >1,000 To 2,000, Deduct</i>	-17.21	
<i>For >2,000 To 5,000, Deduct</i>	-26.33	
<i>For >5,000, Deduct</i>	-40.41	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0106 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	388.82	
For Up To 75, Add	81.42	
For >75 To 150, Add	38.88	
For >500 To 1,000, Deduct	-9.24	
For >1,000 To 2,000, Deduct	-18.11	
For >2,000 To 5,000, Deduct	-27.72	
For >5,000, Deduct	-42.54	
33 01 30 71-0107 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane.....	12.37	
33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0109 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	150.58	
For Up To 75, Add	31.34	
For >75 To 150, Add	15.06	
For >500 To 1,000, Deduct	-3.50	
For >1,000 To 2,000, Deduct	-6.88	
For >2,000 To 5,000, Deduct	-10.50	
For >5,000, Deduct	-16.28	
33 01 30 71-0110 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	175.67	
For Up To 75, Add	36.56	
For >75 To 150, Add	17.57	
For >500 To 1,000, Deduct	-4.08	
For >1,000 To 2,000, Deduct	-8.02	
For >2,000 To 5,000, Deduct	-12.25	
For >5,000, Deduct	-18.99	
33 01 30 71-0111 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	200.76	
For Up To 75, Add	41.78	
For >75 To 150, Add	20.08	
For >500 To 1,000, Deduct	-4.67	
For >1,000 To 2,000, Deduct	-9.17	
For >2,000 To 5,000, Deduct	-14.00	
For >5,000, Deduct	-21.70	
33 01 30 71-0112 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	225.87	
For Up To 75, Add	47.00	
For >75 To 150, Add	22.59	
For >500 To 1,000, Deduct	-5.25	
For >1,000 To 2,000, Deduct	-10.32	
For >2,000 To 5,000, Deduct	-15.75	
For >5,000, Deduct	-24.42	
33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	250.95	
For Up To 75, Add	52.22	
For >75 To 150, Add	25.10	
For >500 To 1,000, Deduct	-5.83	
For >1,000 To 2,000, Deduct	-11.46	
For >2,000 To 5,000, Deduct	-17.50	
For >5,000, Deduct	-27.13	
33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	276.05	
For Up To 75, Add	57.45	
For >75 To 150, Add	27.61	
For >500 To 1,000, Deduct	-6.42	
For >1,000 To 2,000, Deduct	-12.61	
For >2,000 To 5,000, Deduct	-19.25	
For >5,000, Deduct	-29.84	
33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	301.15	
For Up To 75, Add	62.67	
For >75 To 150, Add	30.12	
For >500 To 1,000, Deduct	-7.00	
For >1,000 To 2,000, Deduct	-13.75	
For >2,000 To 5,000, Deduct	-21.00	
For >5,000, Deduct	-32.55	
33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	326.25	
For Up To 75, Add	67.89	
For >75 To 150, Add	32.63	
For >500 To 1,000, Deduct	-7.58	
For >1,000 To 2,000, Deduct	-14.90	
For >2,000 To 5,000, Deduct	-22.75	
For >5,000, Deduct	-35.27	
33 01 30 71-0117 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	351.34	
For Up To 75, Add	73.11	
For >75 To 150, Add	35.13	
For >500 To 1,000, Deduct	-8.16	
For >1,000 To 2,000, Deduct	-16.05	
For >2,000 To 5,000, Deduct	-24.49	
For >5,000, Deduct	-37.98	
33 01 30 71-0118 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	376.43	
For Up To 75, Add	78.33	
For >75 To 150, Add	37.64	
For >500 To 1,000, Deduct	-8.75	
For >1,000 To 2,000, Deduct	-17.19	
For >2,000 To 5,000, Deduct	-26.24	
For >5,000, Deduct	-40.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0119 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	401.53	
<i>For Up To 75, Add</i>	83.56	
<i>For >75 To 150, Add</i>	40.15	
<i>For >500 To 1,000, Deduct</i>	-9.33	
<i>For >1,000 To 2,000, Deduct</i>	-18.34	
<i>For >2,000 To 5,000, Deduct</i>	-27.99	
<i>For >5,000, Deduct</i>	-43.40	
33 01 30 71-0120 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	426.63	
<i>For Up To 75, Add</i>	88.78	
<i>For >75 To 150, Add</i>	42.66	
<i>For >500 To 1,000, Deduct</i>	-9.91	
<i>For >1,000 To 2,000, Deduct</i>	-19.48	
<i>For >2,000 To 5,000, Deduct</i>	-29.74	
<i>For >5,000, Deduct</i>	-46.12	
33 01 30 71-0121 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	451.71	
<i>For Up To 75, Add</i>	94.00	
<i>For >75 To 150, Add</i>	45.17	
<i>For >500 To 1,000, Deduct</i>	-10.50	
<i>For >1,000 To 2,000, Deduct</i>	-20.63	
<i>For >2,000 To 5,000, Deduct</i>	-31.49	
<i>For >5,000, Deduct</i>	-48.83	
33 01 30 71-0122 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	476.82	
<i>For Up To 75, Add</i>	99.23	
<i>For >75 To 150, Add</i>	47.68	
<i>For >500 To 1,000, Deduct</i>	-11.08	
<i>For >1,000 To 2,000, Deduct</i>	-21.78	
<i>For >2,000 To 5,000, Deduct</i>	-33.24	
<i>For >5,000, Deduct</i>	-51.54	
33 01 30 71-0123 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	501.91	
<i>For Up To 75, Add</i>	104.45	
<i>For >75 To 150, Add</i>	50.19	
<i>For >500 To 1,000, Deduct</i>	-11.66	
<i>For >1,000 To 2,000, Deduct</i>	-22.92	
<i>For >2,000 To 5,000, Deduct</i>	-34.99	
<i>For >5,000, Deduct</i>	-54.26	
33 01 30 71-0124 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	15.98	
33 01 30 71-0125 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0126 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	184.82	
<i>For Up To 75, Add</i>	38.32	
<i>For >75 To 150, Add</i>	18.48	
<i>For >500 To 1,000, Deduct</i>	-4.24	
<i>For >1,000 To 2,000, Deduct</i>	-8.34	
<i>For >2,000 To 5,000, Deduct</i>	-12.71	
<i>For >5,000, Deduct</i>	-19.84	
33 01 30 71-0127 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	215.63	
<i>For Up To 75, Add</i>	44.71	
<i>For >75 To 150, Add</i>	21.56	
<i>For >500 To 1,000, Deduct</i>	-4.94	
<i>For >1,000 To 2,000, Deduct</i>	-9.73	
<i>For >2,000 To 5,000, Deduct</i>	-14.83	
<i>For >5,000, Deduct</i>	-23.14	
33 01 30 71-0128 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	246.43	
<i>For Up To 75, Add</i>	51.09	
<i>For >75 To 150, Add</i>	24.64	
<i>For >500 To 1,000, Deduct</i>	-5.65	
<i>For >1,000 To 2,000, Deduct</i>	-11.12	
<i>For >2,000 To 5,000, Deduct</i>	-16.95	
<i>For >5,000, Deduct</i>	-26.45	
33 01 30 71-0129 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	277.24	
<i>For Up To 75, Add</i>	57.48	
<i>For >75 To 150, Add</i>	27.72	
<i>For >500 To 1,000, Deduct</i>	-6.36	
<i>For >1,000 To 2,000, Deduct</i>	-12.51	
<i>For >2,000 To 5,000, Deduct</i>	-19.07	
<i>For >5,000, Deduct</i>	-29.76	
33 01 30 71-0130 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	308.05	
<i>For Up To 75, Add</i>	63.87	
<i>For >75 To 150, Add</i>	30.81	
<i>For >500 To 1,000, Deduct</i>	-7.06	
<i>For >1,000 To 2,000, Deduct</i>	-13.90	
<i>For >2,000 To 5,000, Deduct</i>	-21.19	
<i>For >5,000, Deduct</i>	-33.06	
33 01 30 71-0131 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	338.85	
<i>For Up To 75, Add</i>	70.25	
<i>For >75 To 150, Add</i>	33.89	
<i>For >500 To 1,000, Deduct</i>	-7.77	
<i>For >1,000 To 2,000, Deduct</i>	-15.29	
<i>For >2,000 To 5,000, Deduct</i>	-23.31	
<i>For >5,000, Deduct</i>	-36.37	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0132 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	369.66	
For Up To 75, Add	76.64	
For >75 To 150, Add	36.97	
For >500 To 1,000, Deduct	-8.48	
For >1,000 To 2,000, Deduct	-16.68	
For >2,000 To 5,000, Deduct	-25.43	
For >5,000, Deduct	-39.68	
33 01 30 71-0133 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	400.46	
For Up To 75, Add	83.03	
For >75 To 150, Add	40.05	
For >500 To 1,000, Deduct	-9.18	
For >1,000 To 2,000, Deduct	-18.07	
For >2,000 To 5,000, Deduct	-27.55	
For >5,000, Deduct	-42.98	
33 01 30 71-0134 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	431.27	
For Up To 75, Add	89.42	
For >75 To 150, Add	43.13	
For >500 To 1,000, Deduct	-9.89	
For >1,000 To 2,000, Deduct	-19.46	
For >2,000 To 5,000, Deduct	-29.67	
For >5,000, Deduct	-46.29	
33 01 30 71-0135 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	462.07	
For Up To 75, Add	95.80	
For >75 To 150, Add	46.21	
For >500 To 1,000, Deduct	-10.60	
For >1,000 To 2,000, Deduct	-20.85	
For >2,000 To 5,000, Deduct	-31.79	
For >5,000, Deduct	-49.59	
33 01 30 71-0136 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	492.88	
For Up To 75, Add	102.19	
For >75 To 150, Add	49.29	
For >500 To 1,000, Deduct	-11.30	
For >1,000 To 2,000, Deduct	-22.24	
For >2,000 To 5,000, Deduct	-33.91	
For >5,000, Deduct	-52.90	
33 01 30 71-0137 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	523.68	
For Up To 75, Add	108.57	
For >75 To 150, Add	52.37	
For >500 To 1,000, Deduct	-12.01	
For >1,000 To 2,000, Deduct	-23.63	
For >2,000 To 5,000, Deduct	-36.03	
For >5,000, Deduct	-56.21	
33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	554.48	
For Up To 75, Add	114.96	
For >75 To 150, Add	55.45	
For >500 To 1,000, Deduct	-12.72	
For >1,000 To 2,000, Deduct	-25.02	
For >2,000 To 5,000, Deduct	-38.15	
For >5,000, Deduct	-59.51	
33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	585.29	
For Up To 75, Add	121.35	
For >75 To 150, Add	58.53	
For >500 To 1,000, Deduct	-13.42	
For >1,000 To 2,000, Deduct	-26.41	
For >2,000 To 5,000, Deduct	-40.27	
For >5,000, Deduct	-62.82	
33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	616.09	
For Up To 75, Add	127.73	
For >75 To 150, Add	61.61	
For >500 To 1,000, Deduct	-14.13	
For >1,000 To 2,000, Deduct	-27.80	
For >2,000 To 5,000, Deduct	-42.38	
For >5,000, Deduct	-66.12	
33 01 30 71-0141 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane.....	19.61	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)
 Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)

33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,512.85
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,521.42
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,782.13
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	5,042.84
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	756.43
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,260.71
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,575.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	2,017.14	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	1,260.71	
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	3,025.71	
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	5,042.84	
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" To 72" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	7,564.26	
 33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) <small>(33 01 30 72-0001)</small> Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	19.08	
For Vinylster Resin, Add	4.09	
For Epoxy Resin, Add	0.48	
For Up To >10, Add	42.64	
For >10 To 25, Add	34.56	
For >25 To 50, Add	21.03	
For >50 To 100, Add	10.51	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.09	
For >2,000 To 5,000, Deduct	-4.01	
For >5,000, Deduct	-6.46	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	22.29	
For Vinylster Resin, Add	6.34	
For Epoxy Resin, Add	0.75	
For Up To >10, Add	44.25	
For >10 To 25, Add	35.36	
For >25 To 50, Add	21.67	
For >50 To 100, Add	10.84	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,000, Deduct	-2.33	
For >2,000 To 5,000, Deduct	-4.40	
For >5,000, Deduct	-7.11	
33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	25.50	
For Vinylster Resin, Add	8.58	
For Epoxy Resin, Add	1.01	
For Up To >10, Add	45.85	
For >10 To 25, Add	36.17	
For >25 To 50, Add	22.31	
For >50 To 100, Add	11.16	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,000, Deduct	-2.57	
For >2,000 To 5,000, Deduct	-4.78	
For >5,000, Deduct	-7.75	
33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	33.17	
For Vinylster Resin, Add	13.07	
For Epoxy Resin, Add	1.54	
For Up To >10, Add	52.84	
For >10 To 25, Add	40.92	
For >25 To 50, Add	25.48	
For >50 To 100, Add	12.74	
For >500 To 1,000, Deduct	-2.02	
For >1,000 To 2,000, Deduct	-3.21	
For >2,000 To 5,000, Deduct	-5.87	
For >5,000, Deduct	-9.53	
33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	40.84	
For Vinylster Resin, Add	17.56	
For Epoxy Resin, Add	2.07	
For Up To >10, Add	59.82	
For >10 To 25, Add	45.67	
For >25 To 50, Add	28.66	
For >50 To 100, Add	14.33	
For >500 To 1,000, Deduct	-2.44	
For >1,000 To 2,000, Deduct	-3.85	
For >2,000 To 5,000, Deduct	-6.95	
For >5,000, Deduct	-11.32	
 33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	25.05	
For Vinylster Resin, Add	8.27	
For Epoxy Resin, Add	0.97	
For Up To >10, Add	45.63	
For >10 To 25, Add	36.05	
For >25 To 50, Add	22.22	
For >50 To 100, Add	11.11	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-2.54	
For >2,000 To 5,000, Deduct	-4.73	
For >5,000, Deduct	-7.66	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	29.33	
For Vinlyester Resin, Add	11.26	
For Epoxy Resin, Add	1.33	
For Up To >10, Add	47.77	
For >10 To 25, Add	37.12	
For >25 To 50, Add	23.08	
For >50 To 100, Add	11.54	
For >500 To 1,000, Deduct	-1.80	
For >1,000 To 2,000, Deduct	-2.86	
For >2,000 To 5,000, Deduct	-5.24	
For >5,000, Deduct	-8.51	
33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	39.14	
For Vinlyester Resin, Add	17.25	
For Epoxy Resin, Add	2.03	
For Up To >10, Add	55.82	
For >10 To 25, Add	42.41	
For >25 To 50, Add	26.68	
For >50 To 100, Add	13.34	
For >500 To 1,000, Deduct	-2.32	
For >1,000 To 2,000, Deduct	-3.66	
For >2,000 To 5,000, Deduct	-6.58	
For >5,000, Deduct	-10.73	
33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	48.95	
For Vinlyester Resin, Add	23.23	
For Epoxy Resin, Add	2.74	
For Up To >10, Add	63.88	
For >10 To 25, Add	47.70	
For >25 To 50, Add	30.28	
For >50 To 100, Add	15.14	
For >500 To 1,000, Deduct	-2.84	
For >1,000 To 2,000, Deduct	-4.46	
For >2,000 To 5,000, Deduct	-7.92	
For >5,000, Deduct	-12.94	
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	58.88	
For Vinlyester Resin, Add	29.22	
For Epoxy Resin, Add	3.44	
For Up To >10, Add	72.29	
For >10 To 25, Add	53.29	
For >25 To 50, Add	34.06	
For >50 To 100, Add	17.03	
For >500 To 1,000, Deduct	-3.37	
For >1,000 To 2,000, Deduct	-5.27	
For >2,000 To 5,000, Deduct	-9.29	
For >5,000, Deduct	-15.20	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	69.19	
For Vinlyester Resin, Add	35.20	
For Epoxy Resin, Add	4.15	
For Up To >10, Add	81.87	
For >10 To 25, Add	59.85	
For >25 To 50, Add	38.42	
For >50 To 100, Add	19.21	
For >500 To 1,000, Deduct	-3.93	
For >1,000 To 2,000, Deduct	-6.13	
For >2,000 To 5,000, Deduct	-10.76	
For >5,000, Deduct	-17.62	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	33.04	
For Vinlyester Resin, Add	13.86	
For Epoxy Resin, Add	1.63	
For Up To >10, Add	49.62	
For >10 To 25, Add	38.05	
For >25 To 50, Add	23.82	
For >50 To 100, Add	11.91	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,000, Deduct	-3.14	
For >2,000 To 5,000, Deduct	-5.69	
For >5,000, Deduct	-9.26	
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	44.98	
For Vinlyester Resin, Add	21.34	
For Epoxy Resin, Add	2.51	
For Up To >10, Add	58.74	
For >10 To 25, Add	43.87	
For >25 To 50, Add	27.85	
For >50 To 100, Add	13.92	
For >500 To 1,000, Deduct	-2.61	
For >1,000 To 2,000, Deduct	-4.10	
For >2,000 To 5,000, Deduct	-7.28	
For >5,000, Deduct	-11.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	56.93	
For Vinylster Resin, Add	28.82	
For Epoxy Resin, Add	3.40	
For Up To >10, Add	67.87	
For >10 To 25, Add	49.69	
For >25 To 50, Add	31.87	
For >50 To 100, Add	15.94	
For >500 To 1,000, Deduct	-3.24	
For >1,000 To 2,000, Deduct	-5.06	
For >2,000 To 5,000, Deduct	-8.88	
For >5,000, Deduct	-14.54	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	68.99	
For Vinylster Resin, Add	36.30	
For Epoxy Resin, Add	4.28	
For Up To >10, Add	77.35	
For >10 To 25, Add	55.81	
For >25 To 50, Add	36.08	
For >50 To 100, Add	18.04	
For >500 To 1,000, Deduct	-3.88	
For >1,000 To 2,000, Deduct	-6.03	
For >2,000 To 5,000, Deduct	-10.51	
For >5,000, Deduct	-17.23	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	81.45	
For Vinylster Resin, Add	43.78	
For Epoxy Resin, Add	5.16	
For Up To >10, Add	88.00	
For >10 To 25, Add	62.91	
For >25 To 50, Add	40.87	
For >50 To 100, Add	20.44	
For >500 To 1,000, Deduct	-4.55	
For >1,000 To 2,000, Deduct	-7.05	
For >2,000 To 5,000, Deduct	-12.23	
For >5,000, Deduct	-20.07	
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	100.00	
For Vinylster Resin, Add	55.00	
For Epoxy Resin, Add	6.48	
For Up To >10, Add	103.58	
For >10 To 25, Add	73.22	
For >25 To 50, Add	47.86	
For >50 To 100, Add	23.93	
For >500 To 1,000, Deduct	-5.54	
For >1,000 To 2,000, Deduct	-8.57	
For >2,000 To 5,000, Deduct	-14.79	
For >5,000, Deduct	-24.29	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	118.81	
For Vinylster Resin, Add	66.22	
For Epoxy Resin, Add	7.80	
For Up To >10, Add	119.93	
For >10 To 25, Add	84.18	
For >25 To 50, Add	55.24	
For >50 To 100, Add	27.62	
For >500 To 1,000, Deduct	-6.55	
For >1,000 To 2,000, Deduct	-10.12	
For >2,000 To 5,000, Deduct	-17.40	
For >5,000, Deduct	-28.60	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	50.70	
For Vinylster Resin, Add	25.34	
For Epoxy Resin, Add	2.99	
For Up To >10, Add	61.60	
For >10 To 25, Add	45.30	
For >25 To 50, Add	28.99	
For >50 To 100, Add	14.50	
For >500 To 1,000, Deduct	-2.90	
For >1,000 To 2,000, Deduct	-4.53	
For >2,000 To 5,000, Deduct	-7.97	
For >5,000, Deduct	-13.04	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	64.78	
For Vinylster Resin, Add	34.31	
For Epoxy Resin, Add	4.04	
For Up To >10, Add	71.79	
For >10 To 25, Add	51.66	
For >25 To 50, Add	33.44	
For >50 To 100, Add	16.72	
For >500 To 1,000, Deduct	-3.63	
For >1,000 To 2,000, Deduct	-5.65	
For >2,000 To 5,000, Deduct	-9.82	
For >5,000, Deduct	-16.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	78.99	
For Vinlyester Resin, Add	43.30	
For Epoxy Resin, Add	5.10	
For Up To >10, Add	82.35	
For >10 To 25, Add	58.31	
For >25 To 50, Add	38.08	
For >50 To 100, Add	19.04	
For >500 To 1,000, Deduct	-4.38	
For >1,000 To 2,000, Deduct	-6.78	
For >2,000 To 5,000, Deduct	-11.71	
For >5,000, Deduct	-19.23	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	93.58	
For Vinlyester Resin, Add	52.27	
For Epoxy Resin, Add	6.16	
For Up To >10, Add	94.07	
For >10 To 25, Add	65.94	
For >25 To 50, Add	43.30	
For >50 To 100, Add	21.65	
For >500 To 1,000, Deduct	-5.15	
For >1,000 To 2,000, Deduct	-7.96	
For >2,000 To 5,000, Deduct	-13.69	
For >5,000, Deduct	-22.50	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	115.34	
For Vinlyester Resin, Add	65.74	
For Epoxy Resin, Add	7.75	
For Up To >10, Add	111.25	
For >10 To 25, Add	77.05	
For >25 To 50, Add	50.93	
For >50 To 100, Add	25.46	
For >500 To 1,000, Deduct	-6.30	
For >1,000 To 2,000, Deduct	-9.72	
For >2,000 To 5,000, Deduct	-16.63	
For >5,000, Deduct	-27.35	
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	137.35	
For Vinlyester Resin, Add	79.20	
For Epoxy Resin, Add	9.33	
For Up To >10, Add	129.20	
For >10 To 25, Add	88.81	
For >25 To 50, Add	58.94	
For >50 To 100, Add	29.47	
For >500 To 1,000, Deduct	-7.47	
For >1,000 To 2,000, Deduct	-11.51	
For >2,000 To 5,000, Deduct	-19.63	
For >5,000, Deduct	-32.31	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	158.60	
For Vinlyester Resin, Add	92.66	
For Epoxy Resin, Add	10.92	
For Up To >10, Add	144.88	
For >10 To 25, Add	98.67	
For >25 To 50, Add	65.82	
For >50 To 100, Add	32.91	
For >500 To 1,000, Deduct	-8.59	
For >1,000 To 2,000, Deduct	-13.21	
For >2,000 To 5,000, Deduct	-22.44	
For >5,000, Deduct	-36.97	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.23	
For Vinlyester Resin, Add	106.13	
For Epoxy Resin, Add	12.51	
For Up To >10, Add	161.67	
For >10 To 25, Add	109.45	
For >25 To 50, Add	73.25	
For >50 To 100, Add	36.63	
For >500 To 1,000, Deduct	-9.73	
For >1,000 To 2,000, Deduct	-14.95	
For >2,000 To 5,000, Deduct	-25.35	
For >5,000, Deduct	-41.77	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	130.54	
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	130.54	
For Vinlyester Resin, Add	76.38	
For Epoxy Resin, Add	9.00	
For Up To >10, Add	118.85	
For >10 To 25, Add	80.85	
For >25 To 50, Add	53.97	
For >50 To 100, Add	26.98	
For >500 To 1,000, Deduct	-7.06	
For >1,000 To 2,000, Deduct	-10.86	
For >2,000 To 5,000, Deduct	-18.45	
For >5,000, Deduct	-30.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	155.76	
For Vinylster Resin, Add	92.09	
For Epoxy Resin, Add	10.85	
For Up To >10, Add	138.41	
For >10 To 25, Add	93.41	
For >25 To 50, Add	62.63	
For >50 To 100, Add	31.31	
For >500 To 1,000, Deduct	-8.39	
For >1,000 To 2,000, Deduct	-12.89	
For >2,000 To 5,000, Deduct	-21.84	
For >5,000, Deduct	-35.99	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	180.23	
For Vinylster Resin, Add	107.80	
For Epoxy Resin, Add	12.71	
For Up To >10, Add	155.69	
For >10 To 25, Add	104.08	
For >25 To 50, Add	70.15	
For >50 To 100, Add	35.07	
For >500 To 1,000, Deduct	-9.67	
For >1,000 To 2,000, Deduct	-14.83	
For >2,000 To 5,000, Deduct	-25.04	
For >5,000, Deduct	-41.29	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	205.06	
For Vinylster Resin, Add	123.51	
For Epoxy Resin, Add	14.56	
For Up To >10, Add	174.08	
For >10 To 25, Add	115.66	
For >25 To 50, Add	78.22	
For >50 To 100, Add	39.11	
For >500 To 1,000, Deduct	-10.97	
For >1,000 To 2,000, Deduct	-16.81	
For >2,000 To 5,000, Deduct	-28.33	
For >5,000, Deduct	-46.74	
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	230.40	
For Vinylster Resin, Add	139.22	
For Epoxy Resin, Add	16.41	
For Up To >10, Add	194.00	
For >10 To 25, Add	128.52	
For >25 To 50, Add	87.06	
For >50 To 100, Add	43.53	
For >500 To 1,000, Deduct	-12.31	
For >1,000 To 2,000, Deduct	-18.86	
For >2,000 To 5,000, Deduct	-31.75	
For >5,000, Deduct	-52.38	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	256.36	
For Vinylster Resin, Add	154.92	
For Epoxy Resin, Add	18.26	
For Up To >10, Add	215.78	
For >10 To 25, Add	142.93	
For >25 To 50, Add	96.82	
For >50 To 100, Add	48.41	
For >500 To 1,000, Deduct	-13.69	
For >1,000 To 2,000, Deduct	-20.98	
For >2,000 To 5,000, Deduct	-35.32	
For >5,000, Deduct	-58.28	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	305.66	
For Vinylster Resin, Add	186.34	
For Epoxy Resin, Add	21.96	
For Up To >10, Add	251.48	
For >10 To 25, Add	165.20	
For >25 To 50, Add	112.43	
For >50 To 100, Add	56.22	
For >500 To 1,000, Deduct	-16.27	
For >1,000 To 2,000, Deduct	-24.90	
For >2,000 To 5,000, Deduct	-41.81	
For >5,000, Deduct	-69.02	
33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>	145.63	
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	145.63	
For Vinylster Resin, Add	86.94	
For Epoxy Resin, Add	10.25	
For Up To >10, Add	126.39	
For >10 To 25, Add	84.63	
For >25 To 50, Add	56.99	
For >50 To 100, Add	28.49	
For >500 To 1,000, Deduct	-7.82	
For >1,000 To 2,000, Deduct	-11.99	
For >2,000 To 5,000, Deduct	-20.26	
For >5,000, Deduct	-33.41	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	174.06	
For Vinlyester Resin, Add	104.90	
For Epoxy Resin, Add	12.36	
For Up To >10, Add	147.56	
For >10 To 25, Add	97.99	
For >25 To 50, Add	66.29	
For >50 To 100, Add	33.14	
For >500 To 1,000, Deduct	-9.31	
For >1,000 To 2,000, Deduct	-14.27	
For >2,000 To 5,000, Deduct	-24.03	
For >5,000, Deduct	-39.65	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	201.72	
For Vinlyester Resin, Add	122.84	
For Epoxy Resin, Add	14.48	
For Up To >10, Add	166.44	
For >10 To 25, Add	109.45	
For >25 To 50, Add	74.44	
For >50 To 100, Add	37.22	
For >500 To 1,000, Deduct	-10.74	
For >1,000 To 2,000, Deduct	-16.44	
For >2,000 To 5,000, Deduct	-27.62	
For >5,000, Deduct	-45.59	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	229.76	
For Vinlyester Resin, Add	140.80	
For Epoxy Resin, Add	16.59	
For Up To >10, Add	186.43	
For >10 To 25, Add	121.84	
For >25 To 50, Add	83.16	
For >50 To 100, Add	41.58	
For >500 To 1,000, Deduct	-12.20	
For >1,000 To 2,000, Deduct	-18.66	
For >2,000 To 5,000, Deduct	-31.29	
For >5,000, Deduct	-51.68	
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	258.31	
For Vinlyester Resin, Add	158.75	
For Epoxy Resin, Add	18.71	
For Up To >10, Add	207.96	
For >10 To 25, Add	135.50	
For >25 To 50, Add	92.64	
For >50 To 100, Add	46.32	
For >500 To 1,000, Deduct	-13.70	
For >1,000 To 2,000, Deduct	-20.95	
For >2,000 To 5,000, Deduct	-35.09	
For >5,000, Deduct	-57.97	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	287.47	
For Vinlyester Resin, Add	176.70	
For Epoxy Resin, Add	20.83	
For Up To >10, Add	231.34	
For >10 To 25, Add	150.71	
For >25 To 50, Add	103.05	
For >50 To 100, Add	51.52	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,000, Deduct	-23.31	
For >2,000 To 5,000, Deduct	-39.05	
For >5,000, Deduct	-64.50	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	343.19	
For Vinlyester Resin, Add	212.61	
For Epoxy Resin, Add	25.06	
For Up To >10, Add	270.25	
For >10 To 25, Add	174.58	
For >25 To 50, Add	119.94	
For >50 To 100, Add	59.97	
For >500 To 1,000, Deduct	-18.15	
For >1,000 To 2,000, Deduct	-27.71	
For >2,000 To 5,000, Deduct	-46.31	
For >5,000, Deduct	-76.53	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	400.03	
For Vinlyester Resin, Add	248.51	
For Epoxy Resin, Add	29.29	
For Up To >10, Add	312.54	
For >10 To 25, Add	201.28	
For >25 To 50, Add	138.52	
For >50 To 100, Add	69.26	
For >500 To 1,000, Deduct	-21.13	
For >1,000 To 2,000, Deduct	-32.25	
For >2,000 To 5,000, Deduct	-53.85	
For >5,000, Deduct	-89.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	458.88	
For Vinylster Resin, Add	284.42	
For Epoxy Resin, Add	33.52	
For Up To >10, Add	360.87	
For >10 To 25, Add	233.00	
For >25 To 50, Add	160.12	
For >50 To 100, Add	80.06	
For >500 To 1,000, Deduct	-24.26	
For >1,000 To 2,000, Deduct	-37.04	
For >2,000 To 5,000, Deduct	-61.90	
For >5,000, Deduct	-102.29	
33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	160.58	
For Vinylster Resin, Add	97.41	
For Epoxy Resin, Add	11.48	
For Up To >10, Add	133.87	
For >10 To 25, Add	88.36	
For >25 To 50, Add	59.98	
For >50 To 100, Add	29.99	
For >500 To 1,000, Deduct	-8.56	
For >1,000 To 2,000, Deduct	-13.12	
For >2,000 To 5,000, Deduct	-22.06	
For >5,000, Deduct	-36.40	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	192.22	
For Vinylster Resin, Add	117.61	
For Epoxy Resin, Add	13.86	
For Up To >10, Add	156.64	
For >10 To 25, Add	102.53	
For >25 To 50, Add	69.92	
For >50 To 100, Add	34.96	
For >500 To 1,000, Deduct	-10.22	
For >1,000 To 2,000, Deduct	-15.63	
For >2,000 To 5,000, Deduct	-26.21	
For >5,000, Deduct	-43.29	
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	223.09	
For Vinylster Resin, Add	137.80	
For Epoxy Resin, Add	16.24	
For Up To >10, Add	177.12	
For >10 To 25, Add	114.79	
For >25 To 50, Add	78.72	
For >50 To 100, Add	39.36	
For >500 To 1,000, Deduct	-11.81	
For >1,000 To 2,000, Deduct	-18.04	
For >2,000 To 5,000, Deduct	-30.18	
For >5,000, Deduct	-49.86	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	254.33	
For Vinylster Resin, Add	158.00	
For Epoxy Resin, Add	18.62	
For Up To >10, Add	198.72	
For >10 To 25, Add	127.98	
For >25 To 50, Add	88.07	
For >50 To 100, Add	44.04	
For >500 To 1,000, Deduct	-13.43	
For >1,000 To 2,000, Deduct	-20.51	
For >2,000 To 5,000, Deduct	-34.24	
For >5,000, Deduct	-56.59	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	286.09	
For Vinylster Resin, Add	178.20	
For Epoxy Resin, Add	21.00	
For Up To >10, Add	221.85	
For >10 To 25, Add	142.44	
For >25 To 50, Add	98.19	
For >50 To 100, Add	49.10	
For >500 To 1,000, Deduct	-15.09	
For >1,000 To 2,000, Deduct	-23.03	
For >2,000 To 5,000, Deduct	-38.43	
For >5,000, Deduct	-63.52	
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	318.46	
For Vinylster Resin, Add	198.39	
For Epoxy Resin, Add	23.38	
For Up To >10, Add	246.83	
For >10 To 25, Add	158.46	
For >25 To 50, Add	109.24	
For >50 To 100, Add	54.62	
For >500 To 1,000, Deduct	-16.80	
For >1,000 To 2,000, Deduct	-25.64	
For >2,000 To 5,000, Deduct	-42.77	
For >5,000, Deduct	-70.70	

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33 01 Operation and Maintenance of Utilities
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30	72-0071	LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	380.59	
			For Vinylster Resin, Add	238.79	
			For Epoxy Resin, Add	28.14	
			For Up To >10, Add	288.95	
			For >10 To 25, Add	183.93	
			For >25 To 50, Add	127.42	
			For >50 To 100, Add	63.71	
			For >500 To 1,000, Deduct	-20.02	
			For >1,000 To 2,000, Deduct	-30.52	
			For >2,000 To 5,000, Deduct	-50.80	
			For >5,000, Deduct	-84.01	
33 01	30	72-0072	LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	443.84	
			For Vinylster Resin, Add	279.18	
			For Epoxy Resin, Add	32.90	
			For Up To >10, Add	334.45	
			For >10 To 25, Add	212.23	
			For >25 To 50, Add	147.28	
			For >50 To 100, Add	73.64	
			For >500 To 1,000, Deduct	-23.32	
			For >1,000 To 2,000, Deduct	-35.54	
			For >2,000 To 5,000, Deduct	-59.11	
			For >5,000, Deduct	-97.77	
33 01	30	72-0073	LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	509.11	
			For Vinylster Resin, Add	319.58	
			For Epoxy Resin, Add	37.66	
			For Up To >10, Add	385.98	
			For >10 To 25, Add	245.56	
			For >25 To 50, Add	170.16	
			For >50 To 100, Add	85.08	
			For >500 To 1,000, Deduct	-26.77	
			For >1,000 To 2,000, Deduct	-40.81	
			For >2,000 To 5,000, Deduct	-67.93	
			For >5,000, Deduct	-112.34	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>					
33 01	30	72-0075	LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	175.41	
			For Vinylster Resin, Add	107.79	
			For Epoxy Resin, Add	12.70	
			For Up To >10, Add	141.28	
			For >10 To 25, Add	92.07	
			For >25 To 50, Add	62.94	
			For >50 To 100, Add	31.47	
			For >500 To 1,000, Deduct	-9.31	
			For >1,000 To 2,000, Deduct	-14.23	
			For >2,000 To 5,000, Deduct	-23.84	
			For >5,000, Deduct	-39.37	
33 01	30	72-0076	LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	210.25	
			For Vinylster Resin, Add	130.23	
			For Epoxy Resin, Add	15.35	
			For Up To >10, Add	165.65	
			For >10 To 25, Add	107.04	
			For >25 To 50, Add	73.52	
			For >50 To 100, Add	36.76	
			For >500 To 1,000, Deduct	-11.12	
			For >1,000 To 2,000, Deduct	-16.98	
			For >2,000 To 5,000, Deduct	-28.38	
			For >5,000, Deduct	-46.89	
33 01	30	72-0077	LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	244.33	
			For Vinylster Resin, Add	152.67	
			For Epoxy Resin, Add	17.99	
			For Up To >10, Add	187.74	
			For >10 To 25, Add	120.10	
			For >25 To 50, Add	82.97	
			For >50 To 100, Add	41.48	
			For >500 To 1,000, Deduct	-12.87	
			For >1,000 To 2,000, Deduct	-19.64	
			For >2,000 To 5,000, Deduct	-32.73	
			For >5,000, Deduct	-54.11	
33 01	30	72-0078	LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	278.78	
			For Vinylster Resin, Add	175.11	
			For Epoxy Resin, Add	20.64	
			For Up To >10, Add	210.94	
			For >10 To 25, Add	134.09	
			For >25 To 50, Add	92.96	
			For >50 To 100, Add	46.48	
			For >500 To 1,000, Deduct	-14.65	
			For >1,000 To 2,000, Deduct	-22.34	
			For >2,000 To 5,000, Deduct	-37.17	
			For >5,000, Deduct	-61.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	313.74	
For Vinyl Ester Resin, Add	197.55	
For Epoxy Resin, Add	23.28	
For Up To >10, Add	235.67	
For >10 To 25, Add	149.36	
For >25 To 50, Add	103.72	
For >50 To 100, Add	51.86	
For >500 To 1,000, Deduct	-16.48	
For >1,000 To 2,000, Deduct	-25.11	
For >2,000 To 5,000, Deduct	-41.75	
For >5,000, Deduct	-69.05	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	349.32	
For Vinyl Ester Resin, Add	220.00	
For Epoxy Resin, Add	25.93	
For Up To >10, Add	262.26	
For >10 To 25, Add	166.17	
For >25 To 50, Add	115.42	
For >50 To 100, Add	57.71	
For >500 To 1,000, Deduct	-18.34	
For >1,000 To 2,000, Deduct	-27.95	
For >2,000 To 5,000, Deduct	-46.47	
For >5,000, Deduct	-76.87	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	417.86	
For Vinyl Ester Resin, Add	264.88	
For Epoxy Resin, Add	31.22	
For Up To >10, Add	307.58	
For >10 To 25, Add	193.25	
For >25 To 50, Add	134.87	
For >50 To 100, Add	67.44	
For >500 To 1,000, Deduct	-21.88	
For >1,000 To 2,000, Deduct	-33.31	
For >2,000 To 5,000, Deduct	-55.27	
For >5,000, Deduct	-91.46	
33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	487.53	
For Vinyl Ester Resin, Add	309.76	
For Epoxy Resin, Add	36.51	
For Up To >10, Add	356.29	
For >10 To 25, Add	223.16	
For >25 To 50, Add	156.02	
For >50 To 100, Add	78.01	
For >500 To 1,000, Deduct	-25.50	
For >1,000 To 2,000, Deduct	-38.82	
For >2,000 To 5,000, Deduct	-64.35	
For >5,000, Deduct	-106.51	
33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	559.20	
For Vinyl Ester Resin, Add	354.64	
For Epoxy Resin, Add	41.80	
For Up To >10, Add	411.03	
For >10 To 25, Add	258.08	
For >25 To 50, Add	180.18	
For >50 To 100, Add	90.09	
For >500 To 1,000, Deduct	-29.27	
For >1,000 To 2,000, Deduct	-44.57	
For >2,000 To 5,000, Deduct	-73.94	
For >5,000, Deduct	-122.35	
33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	228.16	
For Vinyl Ester Resin, Add	142.77	
For Epoxy Resin, Add	16.83	
For Up To >10, Add	174.61	
For >10 To 25, Add	111.51	
For >25 To 50, Add	77.11	
For >50 To 100, Add	38.55	
For >500 To 1,000, Deduct	-12.01	
For >1,000 To 2,000, Deduct	-18.32	
For >2,000 To 5,000, Deduct	-30.53	
For >5,000, Deduct	-50.47	
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	265.45	
For Vinyl Ester Resin, Add	167.45	
For Epoxy Resin, Add	19.74	
For Up To >10, Add	198.30	
For >10 To 25, Add	125.38	
For >25 To 50, Add	87.19	
For >50 To 100, Add	43.59	
For >500 To 1,000, Deduct	-13.93	
For >1,000 To 2,000, Deduct	-21.22	
For >2,000 To 5,000, Deduct	-35.26	
For >5,000, Deduct	-58.34	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	303.10	
For Vinlyester Resin, Add	192.14	
For Epoxy Resin, Add	22.64	
For Up To >10, Add	223.10	
For >10 To 25, Add	140.17	
For >25 To 50, Add	97.83	
For >50 To 100, Add	48.91	
For >500 To 1,000, Deduct	-15.87	
For >1,000 To 2,000, Deduct	-24.16	
For >2,000 To 5,000, Deduct	-40.09	
For >5,000, Deduct	-66.34	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	341.27	
For Vinlyester Resin, Add	216.83	
For Epoxy Resin, Add	25.55	
For Up To >10, Add	249.44	
For >10 To 25, Add	156.24	
For >25 To 50, Add	109.23	
For >50 To 100, Add	54.62	
For >500 To 1,000, Deduct	-17.85	
For >1,000 To 2,000, Deduct	-27.17	
For >2,000 To 5,000, Deduct	-45.05	
For >5,000, Deduct	-74.56	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	380.05	
For Vinlyester Resin, Add	241.51	
For Epoxy Resin, Add	28.46	
For Up To >10, Add	277.63	
For >10 To 25, Add	173.85	
For >25 To 50, Add	121.56	
For >50 To 100, Add	60.78	
For >500 To 1,000, Deduct	-19.88	
For >1,000 To 2,000, Deduct	-30.26	
For >2,000 To 5,000, Deduct	-50.16	
For >5,000, Deduct	-83.02	
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	455.00	
For Vinlyester Resin, Add	290.88	
For Epoxy Resin, Add	34.28	
For Up To >10, Add	326.15	
For >10 To 25, Add	202.54	
For >25 To 50, Add	142.30	
For >50 To 100, Add	71.15	
For >500 To 1,000, Deduct	-23.74	
For >1,000 To 2,000, Deduct	-36.10	
For >2,000 To 5,000, Deduct	-59.73	
For >5,000, Deduct	-98.89	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	531.08	
For Vinlyester Resin, Add	340.25	
For Epoxy Resin, Add	40.10	
For Up To >10, Add	378.07	
For >10 To 25, Add	234.04	
For >25 To 50, Add	164.73	
For >50 To 100, Add	82.36	
For >500 To 1,000, Deduct	-27.68	
For >1,000 To 2,000, Deduct	-42.08	
For >2,000 To 5,000, Deduct	-69.58	
For >5,000, Deduct	-115.22	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	609.17	
For Vinlyester Resin, Add	389.62	
For Epoxy Resin, Add	45.92	
For Up To >10, Add	436.01	
For >10 To 25, Add	270.58	
For >25 To 50, Add	190.18	
For >50 To 100, Add	95.09	
For >500 To 1,000, Deduct	-31.77	
For >1,000 To 2,000, Deduct	-48.32	
For >2,000 To 5,000, Deduct	-79.93	
For >5,000, Deduct	-132.35	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	686.38	
For Vinlyester Resin, Add	438.99	
For Epoxy Resin, Add	51.74	
For Up To >10, Add	491.32	
For >10 To 25, Add	304.91	
For >25 To 50, Add	214.30	
For >50 To 100, Add	107.15	
For >500 To 1,000, Deduct	-35.80	
For >1,000 To 2,000, Deduct	-54.44	
For >2,000 To 5,000, Deduct	-90.07	
For >5,000, Deduct	-149.13	

33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	246.58	
For Vinyl Ester Resin, Add	155.22	
For Epoxy Resin, Add	18.29	
For Up To >10, Add	185.39	
For >10 To 25, Add	117.54	
For >25 To 50, Add	81.61	
For >50 To 100, Add	40.80	
For >500 To 1,000, Deduct	-12.95	
For >1,000 To 2,000, Deduct	-19.74	
For >2,000 To 5,000, Deduct	-32.82	
For >5,000, Deduct	-54.28	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	287.19	
For Vinyl Ester Resin, Add	182.15	
For Epoxy Resin, Add	21.47	
For Up To >10, Add	211.05	
For >10 To 25, Add	132.50	
For >25 To 50, Add	92.51	
For >50 To 100, Add	46.26	
For >500 To 1,000, Deduct	-15.03	
For >1,000 To 2,000, Deduct	-22.89	
For >2,000 To 5,000, Deduct	-37.97	
For >5,000, Deduct	-62.83	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	328.05	
For Vinyl Ester Resin, Add	209.08	
For Epoxy Resin, Add	24.64	
For Up To >10, Add	237.45	
For >10 To 25, Add	148.10	
For >25 To 50, Add	103.79	
For >50 To 100, Add	51.90	
For >500 To 1,000, Deduct	-17.14	
For >1,000 To 2,000, Deduct	-26.07	
For >2,000 To 5,000, Deduct	-43.18	
For >5,000, Deduct	-71.48	
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	369.55	
For Vinyl Ester Resin, Add	236.01	
For Epoxy Resin, Add	27.81	
For Up To >10, Add	265.78	
For >10 To 25, Add	165.29	
For >25 To 50, Add	116.03	
For >50 To 100, Add	58.02	
For >500 To 1,000, Deduct	-19.29	
For >1,000 To 2,000, Deduct	-29.34	
For >2,000 To 5,000, Deduct	-48.56	
For >5,000, Deduct	-80.39	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	411.55	
For Vinyl Ester Resin, Add	262.93	
For Epoxy Resin, Add	30.99	
For Up To >10, Add	295.60	
For >10 To 25, Add	183.73	
For >25 To 50, Add	129.02	
For >50 To 100, Add	64.51	
For >500 To 1,000, Deduct	-21.48	
For >1,000 To 2,000, Deduct	-32.66	
For >2,000 To 5,000, Deduct	-54.06	
For >5,000, Deduct	-89.50	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	493.91	
For Vinyl Ester Resin, Add	316.79	
For Epoxy Resin, Add	37.34	
For Up To >10, Add	350.33	
For >10 To 25, Add	216.52	
For >25 To 50, Add	152.54	
For >50 To 100, Add	76.27	
For >500 To 1,000, Deduct	-25.73	
For >1,000 To 2,000, Deduct	-39.11	
For >2,000 To 5,000, Deduct	-64.64	
For >5,000, Deduct	-107.05	
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	576.79	
For Vinyl Ester Resin, Add	370.66	
For Epoxy Resin, Add	43.68	
For Up To >10, Add	406.60	
For >10 To 25, Add	250.58	
For >25 To 50, Add	176.82	
For >50 To 100, Add	88.41	
For >500 To 1,000, Deduct	-30.02	
For >1,000 To 2,000, Deduct	-45.62	
For >2,000 To 5,000, Deduct	-75.36	
For >5,000, Deduct	-124.81	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	661.67	
For Vinlyester Resin, Add	424.52	
For Epoxy Resin, Add	50.03	
For Up To >10, Add	468.89	
For >10 To 25, Add	289.66	
For >25 To 50, Add	204.12	
For >50 To 100, Add	102.06	
For >500 To 1,000, Deduct	-34.46	
For >1,000 To 2,000, Deduct	-52.39	
For >2,000 To 5,000, Deduct	-86.58	
For >5,000, Deduct	-143.38	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	745.67	
For Vinlyester Resin, Add	478.37	
For Epoxy Resin, Add	56.38	
For Up To >10, Add	528.54	
For >10 To 25, Add	326.55	
For >25 To 50, Add	230.10	
For >50 To 100, Add	115.05	
For >500 To 1,000, Deduct	-38.84	
For >1,000 To 2,000, Deduct	-59.04	
For >2,000 To 5,000, Deduct	-97.58	
For >5,000, Deduct	-161.59	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	829.54	
For Vinlyester Resin, Add	532.23	
For Epoxy Resin, Add	62.73	
For Up To >10, Add	587.80	
For >10 To 25, Add	363.11	
For >25 To 50, Add	255.88	
For >50 To 100, Add	127.94	
For >500 To 1,000, Deduct	-43.21	
For >1,000 To 2,000, Deduct	-65.68	
For >2,000 To 5,000, Deduct	-108.54	
For >5,000, Deduct	-179.75	
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	913.92	
For Vinlyester Resin, Add	586.09	
For Epoxy Resin, Add	69.07	
For Up To >10, Add	648.59	
For >10 To 25, Add	400.94	
For >25 To 50, Add	282.43	
For >50 To 100, Add	141.21	
For >500 To 1,000, Deduct	-47.61	
For >1,000 To 2,000, Deduct	-72.38	
For >2,000 To 5,000, Deduct	-119.63	
For >5,000, Deduct	-198.11	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	997.92	
For Vinlyester Resin, Add	639.95	
For Epoxy Resin, Add	75.42	
For Up To >10, Add	708.24	
For >10 To 25, Add	437.83	
For >25 To 50, Add	308.41	
For >50 To 100, Add	154.20	
For >500 To 1,000, Deduct	-51.99	
For >1,000 To 2,000, Deduct	-79.03	
For >2,000 To 5,000, Deduct	-130.63	
For >5,000, Deduct	-216.33	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	265.23	
For Vinlyester Resin, Add	167.57	
For Epoxy Resin, Add	19.75	
For Up To >10, Add	197.22	
For >10 To 25, Add	124.45	
For >25 To 50, Add	86.64	
For >50 To 100, Add	43.32	
For >500 To 1,000, Deduct	-13.91	
For >1,000 To 2,000, Deduct	-21.18	
For >2,000 To 5,000, Deduct	-35.19	
For >5,000, Deduct	-58.21	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	309.06	
For Vinlyester Resin, Add	196.75	
For Epoxy Resin, Add	23.19	
For Up To >10, Add	224.51	
For >10 To 25, Add	140.24	
For >25 To 50, Add	98.20	
For >50 To 100, Add	49.10	
For >500 To 1,000, Deduct	-16.15	
For >1,000 To 2,000, Deduct	-24.58	
For >2,000 To 5,000, Deduct	-40.73	
For >5,000, Deduct	-67.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	353.26	
For Vinylster Resin, Add	225.93	
For Epoxy Resin, Add	26.63	
For Up To >10, Add	252.91	
For >10 To 25, Add	156.96	
For >25 To 50, Add	110.32	
For >50 To 100, Add	55.16	
For >500 To 1,000, Deduct	-18.43	
For >1,000 To 2,000, Deduct	-28.02	
For >2,000 To 5,000, Deduct	-46.36	
For >5,000, Deduct	-76.75	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	397.70	
For Vinylster Resin, Add	255.09	
For Epoxy Resin, Add	30.06	
For Up To >10, Add	282.05	
For >10 To 25, Add	174.31	
For >25 To 50, Add	122.80	
For >50 To 100, Add	61.40	
For >500 To 1,000, Deduct	-20.72	
For >1,000 To 2,000, Deduct	-31.49	
For >2,000 To 5,000, Deduct	-52.05	
For >5,000, Deduct	-86.20	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	443.16	
For Vinylster Resin, Add	284.27	
For Epoxy Resin, Add	33.50	
For Up To >10, Add	314.23	
For >10 To 25, Add	194.18	
For >25 To 50, Add	136.81	
For >50 To 100, Add	68.41	
For >500 To 1,000, Deduct	-23.08	
For >1,000 To 2,000, Deduct	-35.09	
For >2,000 To 5,000, Deduct	-58.00	
For >5,000, Deduct	-96.04	
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	533.08	
For Vinylster Resin, Add	342.62	
For Epoxy Resin, Add	40.38	
For Up To >10, Add	375.59	
For >10 To 25, Add	231.42	
For >25 To 50, Add	163.32	
For >50 To 100, Add	81.66	
For >500 To 1,000, Deduct	-27.74	
For >1,000 To 2,000, Deduct	-42.16	
For >2,000 To 5,000, Deduct	-69.64	
For >5,000, Deduct	-115.34	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	623.36	
For Vinylster Resin, Add	400.97	
For Epoxy Resin, Add	47.26	
For Up To >10, Add	438.06	
For >10 To 25, Add	269.58	
For >25 To 50, Add	190.39	
For >50 To 100, Add	95.19	
For >500 To 1,000, Deduct	-32.43	
For >1,000 To 2,000, Deduct	-49.28	
For >2,000 To 5,000, Deduct	-81.37	
For >5,000, Deduct	-134.78	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	714.53	
For Vinylster Resin, Add	459.31	
For Epoxy Resin, Add	54.13	
For Up To >10, Add	503.19	
For >10 To 25, Add	309.97	
For >25 To 50, Add	218.79	
For >50 To 100, Add	109.39	
For >500 To 1,000, Deduct	-37.19	
For >1,000 To 2,000, Deduct	-56.51	
For >2,000 To 5,000, Deduct	-93.33	
For >5,000, Deduct	-154.58	
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	805.33	
For Vinylster Resin, Add	517.66	
For Epoxy Resin, Add	61.01	
For Up To >10, Add	567.19	
For >10 To 25, Add	349.41	
For >25 To 50, Add	246.62	
For >50 To 100, Add	123.31	
For >500 To 1,000, Deduct	-41.91	
For >1,000 To 2,000, Deduct	-63.69	
For >2,000 To 5,000, Deduct	-105.19	
For >5,000, Deduct	-174.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	896.12	
For Vinlyester Resin, Add	576.01	
For Epoxy Resin, Add	67.89	
For Up To >10, Add	631.19	
For >10 To 25, Add	388.84	
For >25 To 50, Add	274.45	
For >50 To 100, Add	137.22	
For >500 To 1,000, Deduct	-46.64	
For >1,000 To 2,000, Deduct	-70.87	
For >2,000 To 5,000, Deduct	-117.06	
For >5,000, Deduct	-193.87	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	988.42	
For Vinlyester Resin, Add	634.35	
For Epoxy Resin, Add	74.76	
For Up To >10, Add	699.71	
For >10 To 25, Add	432.06	
For >25 To 50, Add	304.54	
For >50 To 100, Add	152.27	
For >500 To 1,000, Deduct	-51.48	
For >1,000 To 2,000, Deduct	-78.24	
For >2,000 To 5,000, Deduct	-129.30	
For >5,000, Deduct	-214.12	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,079.33	
For Vinlyester Resin, Add	692.70	
For Epoxy Resin, Add	81.64	
For Up To >10, Add	764.07	
For >10 To 25, Add	471.79	
For >25 To 50, Add	332.55	
For >50 To 100, Add	166.28	
For >500 To 1,000, Deduct	-56.21	
For >1,000 To 2,000, Deduct	-85.44	
For >2,000 To 5,000, Deduct	-141.19	
For >5,000, Deduct	-233.82	
33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	283.65	
For Vinlyester Resin, Add	179.84	
For Epoxy Resin, Add	21.20	
For Up To >10, Add	208.65	
For >10 To 25, Add	131.06	
For >25 To 50, Add	91.48	
For >50 To 100, Add	45.74	
For >500 To 1,000, Deduct	-14.85	
For >1,000 To 2,000, Deduct	-22.61	
For >2,000 To 5,000, Deduct	-37.51	
For >5,000, Deduct	-62.08	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	330.81	
For Vinlyester Resin, Add	211.27	
For Epoxy Resin, Add	24.90	
For Up To >10, Add	237.91	
For >10 To 25, Add	147.95	
For >25 To 50, Add	103.86	
For >50 To 100, Add	51.93	
For >500 To 1,000, Deduct	-17.27	
For >1,000 To 2,000, Deduct	-26.26	
For >2,000 To 5,000, Deduct	-43.47	
For >5,000, Deduct	-71.96	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	378.34	
For Vinlyester Resin, Add	242.68	
For Epoxy Resin, Add	28.60	
For Up To >10, Add	268.30	
For >10 To 25, Add	165.80	
For >25 To 50, Add	116.81	
For >50 To 100, Add	58.41	
For >500 To 1,000, Deduct	-19.71	
For >1,000 To 2,000, Deduct	-29.96	
For >2,000 To 5,000, Deduct	-49.52	
For >5,000, Deduct	-82.00	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	425.74	
For Vinlyester Resin, Add	274.10	
For Epoxy Resin, Add	32.30	
For Up To >10, Add	298.30	
For >10 To 25, Add	183.32	
For >25 To 50, Add	129.57	
For >50 To 100, Add	64.78	
For >500 To 1,000, Deduct	-22.14	
For >1,000 To 2,000, Deduct	-33.64	
For >2,000 To 5,000, Deduct	-55.53	
For >5,000, Deduct	-91.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	474.53	
For Vinylster Resin, Add	305.52	
For Epoxy Resin, Add	36.01	
For Up To >10, Add	332.44	
For >10 To 25, Add	204.29	
For >25 To 50, Add	144.40	
For >50 To 100, Add	72.20	
For >500 To 1,000, Deduct	-24.68	
For >1,000 To 2,000, Deduct	-37.49	
For >2,000 To 5,000, Deduct	-61.89	
For >5,000, Deduct	-102.52	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	572.11	
For Vinylster Resin, Add	368.35	
For Epoxy Resin, Add	43.41	
For Up To >10, Add	400.78	
For >10 To 25, Add	246.28	
For >25 To 50, Add	174.08	
For >50 To 100, Add	87.04	
For >500 To 1,000, Deduct	-29.75	
For >1,000 To 2,000, Deduct	-45.20	
For >2,000 To 5,000, Deduct	-74.62	
For >5,000, Deduct	-123.60	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	669.69	
For Vinylster Resin, Add	431.19	
For Epoxy Resin, Add	50.82	
For Up To >10, Add	469.10	
For >10 To 25, Add	288.25	
For >25 To 50, Add	203.75	
For >50 To 100, Add	101.87	
For >500 To 1,000, Deduct	-34.83	
For >1,000 To 2,000, Deduct	-52.91	
For >2,000 To 5,000, Deduct	-87.34	
For >5,000, Deduct	-144.68	
33 01 30 72-0128 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	767.27	
For Vinylster Resin, Add	494.03	
For Epoxy Resin, Add	58.22	
For Up To >10, Add	537.44	
For >10 To 25, Add	330.24	
For >25 To 50, Add	233.43	
For >50 To 100, Add	116.72	
For >500 To 1,000, Deduct	-39.90	
For >1,000 To 2,000, Deduct	-60.62	
For >2,000 To 5,000, Deduct	-100.07	
For >5,000, Deduct	-165.76	
33 01 30 72-0129 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	864.86	
For Vinylster Resin, Add	556.86	
For Epoxy Resin, Add	65.63	
For Up To >10, Add	605.78	
For >10 To 25, Add	372.23	
For >25 To 50, Add	263.11	
For >50 To 100, Add	131.56	
For >500 To 1,000, Deduct	-44.98	
For >1,000 To 2,000, Deduct	-68.33	
For >2,000 To 5,000, Deduct	-112.80	
For >5,000, Deduct	-186.84	
33 01 30 72-0130 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	962.43	
For Vinylster Resin, Add	619.70	
For Epoxy Resin, Add	73.04	
For Up To >10, Add	674.09	
For >10 To 25, Add	414.20	
For >25 To 50, Add	292.78	
For >50 To 100, Add	146.39	
For >500 To 1,000, Deduct	-50.05	
For >1,000 To 2,000, Deduct	-76.04	
For >2,000 To 5,000, Deduct	-125.52	
For >5,000, Deduct	-207.92	
33 01 30 72-0131 LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,062.79	
For Vinylster Resin, Add	682.54	
For Epoxy Resin, Add	80.44	
For Up To >10, Add	750.75	
For >10 To 25, Add	463.11	
For >25 To 50, Add	326.62	
For >50 To 100, Add	163.31	
For >500 To 1,000, Deduct	-55.33	
For >1,000 To 2,000, Deduct	-84.10	
For >2,000 To 5,000, Deduct	-138.94	
For >5,000, Deduct	-230.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,160.63	
For Vinlyester Resin, Add	745.37	
For Epoxy Resin, Add	87.85	
For Up To >10, Add	819.84	
For >10 To 25, Add	505.73	
For >25 To 50, Add	356.68	
For >50 To 100, Add	178.34	
For >500 To 1,000, Deduct	-60.43	
For >1,000 To 2,000, Deduct	-91.84	
For >2,000 To 5,000, Deduct	-151.73	
For >5,000, Deduct	-251.29	
33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0134 LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	301.82	
For Vinlyester Resin, Add	192.03	
For Epoxy Resin, Add	22.63	
For Up To >10, Add	219.64	
For >10 To 25, Add	137.31	
For >25 To 50, Add	96.10	
For >50 To 100, Add	48.05	
For >500 To 1,000, Deduct	-15.78	
For >1,000 To 2,000, Deduct	-24.01	
For >2,000 To 5,000, Deduct	-39.79	
For >5,000, Deduct	-65.86	
33 01 30 72-0135 LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	352.17	
For Vinlyester Resin, Add	225.69	
For Epoxy Resin, Add	26.60	
For Up To >10, Add	250.46	
For >10 To 25, Add	154.98	
For >25 To 50, Add	109.11	
For >50 To 100, Add	54.55	
For >500 To 1,000, Deduct	-18.35	
For >1,000 To 2,000, Deduct	-27.90	
For >2,000 To 5,000, Deduct	-46.13	
For >5,000, Deduct	-76.38	
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	403.29	
For Vinlyester Resin, Add	259.36	
For Epoxy Resin, Add	30.57	
For Up To >10, Add	283.60	
For >10 To 25, Add	174.58	
For >25 To 50, Add	123.27	
For >50 To 100, Add	61.64	
For >500 To 1,000, Deduct	-20.98	
For >1,000 To 2,000, Deduct	-31.89	
For >2,000 To 5,000, Deduct	-52.66	
For >5,000, Deduct	-87.21	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	454.78	
For Vinlyester Resin, Add	293.02	
For Epoxy Resin, Add	34.53	
For Up To >10, Add	317.84	
For >10 To 25, Add	195.10	
For >25 To 50, Add	137.99	
For >50 To 100, Add	69.00	
For >500 To 1,000, Deduct	-23.64	
For >1,000 To 2,000, Deduct	-35.92	
For >2,000 To 5,000, Deduct	-59.28	
For >5,000, Deduct	-98.19	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	507.03	
For Vinlyester Resin, Add	326.68	
For Epoxy Resin, Add	38.50	
For Up To >10, Add	354.39	
For >10 To 25, Add	217.55	
For >25 To 50, Add	153.86	
For >50 To 100, Add	76.93	
For >500 To 1,000, Deduct	-26.36	
For >1,000 To 2,000, Deduct	-40.04	
For >2,000 To 5,000, Deduct	-66.09	
For >5,000, Deduct	-109.48	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	611.52	
For Vinlyester Resin, Add	394.00	
For Epoxy Resin, Add	46.44	
For Up To >10, Add	427.41	
For >10 To 25, Add	262.37	
For >25 To 50, Add	185.56	
For >50 To 100, Add	92.78	
For >500 To 1,000, Deduct	-31.79	
For >1,000 To 2,000, Deduct	-48.30	
For >2,000 To 5,000, Deduct	-79.71	
For >5,000, Deduct	-132.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	716.03	
For Vinylster Resin, Add	461.33	
For Epoxy Resin, Add	54.37	
For Up To >10, Add	500.49	
For >10 To 25, Add	307.24	
For >25 To 50, Add	217.29	
For >50 To 100, Add	108.65	
For >500 To 1,000, Deduct	-37.23	
For >1,000 To 2,000, Deduct	-56.55	
For >2,000 To 5,000, Deduct	-93.33	
For >5,000, Deduct	-154.60	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	820.52	
For Vinylster Resin, Add	528.65	
For Epoxy Resin, Add	62.31	
For Up To >10, Add	573.51	
For >10 To 25, Add	352.06	
For >25 To 50, Add	248.99	
For >50 To 100, Add	124.50	
For >500 To 1,000, Deduct	-42.66	
For >1,000 To 2,000, Deduct	-64.80	
For >2,000 To 5,000, Deduct	-106.95	
For >5,000, Deduct	-177.16	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	925.02	
For Vinylster Resin, Add	595.97	
For Epoxy Resin, Add	70.24	
For Up To >10, Add	646.59	
For >10 To 25, Add	396.92	
For >25 To 50, Add	280.72	
For >50 To 100, Add	140.36	
For >500 To 1,000, Deduct	-48.09	
For >1,000 To 2,000, Deduct	-73.06	
For >2,000 To 5,000, Deduct	-120.57	
For >5,000, Deduct	-199.73	
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,029.51	
For Vinylster Resin, Add	663.30	
For Epoxy Resin, Add	78.17	
For Up To >10, Add	719.61	
For >10 To 25, Add	441.74	
For >25 To 50, Add	312.42	
For >50 To 100, Add	156.21	
For >500 To 1,000, Deduct	-53.52	
For >1,000 To 2,000, Deduct	-81.31	
For >2,000 To 5,000, Deduct	-134.19	
For >5,000, Deduct	-222.29	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,136.91	
For Vinylster Resin, Add	730.63	
For Epoxy Resin, Add	86.11	
For Up To >10, Add	801.36	
For >10 To 25, Add	493.84	
For >25 To 50, Add	348.49	
For >50 To 100, Add	174.25	
For >500 To 1,000, Deduct	-59.17	
For >1,000 To 2,000, Deduct	-89.93	
For >2,000 To 5,000, Deduct	-148.54	
For >5,000, Deduct	-246.01	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,241.66	
For Vinylster Resin, Add	797.95	
For Epoxy Resin, Add	94.04	
For Up To >10, Add	875.16	
For >10 To 25, Add	539.31	
For >25 To 50, Add	380.58	
For >50 To 100, Add	190.29	
For >500 To 1,000, Deduct	-64.63	
For >1,000 To 2,000, Deduct	-98.21	
For >2,000 To 5,000, Deduct	-162.22	
For >5,000, Deduct	-268.68	
33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	319.73	
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	204.13	
For Vinylster Resin, Add	24.06	
For Epoxy Resin, Add	230.17	
For Up To >10, Add	143.20	
For >10 To 25, Add	100.50	
For >25 To 50, Add	50.25	
For >50 To 100, Add	-16.69	
For >500 To 1,000, Deduct	-25.39	
For >1,000 To 2,000, Deduct	-42.02	
For >2,000 To 5,000, Deduct	-69.57	
For >5,000, Deduct		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	373.29	
For Vinlyester Resin, Add	240.04	
For Epoxy Resin, Add	28.29	
For Up To >10, Add	262.60	
For >10 To 25, Add	161.68	
For >25 To 50, Add	114.15	
For >50 To 100, Add	57.08	
For >500 To 1,000, Deduct	-19.42	
For >1,000 To 2,000, Deduct	-29.52	
For >2,000 To 5,000, Deduct	-48.74	
For >5,000, Deduct	-80.73	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	427.98	
For Vinlyester Resin, Add	275.94	
For Epoxy Resin, Add	32.52	
For Up To >10, Add	298.44	
For >10 To 25, Add	183.00	
For >25 To 50, Add	129.51	
For >50 To 100, Add	64.76	
For >500 To 1,000, Deduct	-22.24	
For >1,000 To 2,000, Deduct	-33.79	
For >2,000 To 5,000, Deduct	-55.75	
For >5,000, Deduct	-92.35	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	483.69	
For Vinlyester Resin, Add	311.84	
For Epoxy Resin, Add	36.75	
For Up To >10, Add	337.35	
For >10 To 25, Add	206.87	
For >25 To 50, Add	146.40	
For >50 To 100, Add	73.20	
For >500 To 1,000, Deduct	-25.14	
For >1,000 To 2,000, Deduct	-38.19	
For >2,000 To 5,000, Deduct	-63.01	
For >5,000, Deduct	-104.38	
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	539.40	
For Vinlyester Resin, Add	347.75	
For Epoxy Resin, Add	40.99	
For Up To >10, Add	376.23	
For >10 To 25, Add	230.72	
For >25 To 50, Add	163.27	
For >50 To 100, Add	81.64	
For >500 To 1,000, Deduct	-28.04	
For >1,000 To 2,000, Deduct	-42.59	
For >2,000 To 5,000, Deduct	-70.27	
For >5,000, Deduct	-116.40	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	650.82	
For Vinlyester Resin, Add	419.57	
For Epoxy Resin, Add	49.45	
For Up To >10, Add	454.01	
For >10 To 25, Add	278.45	
For >25 To 50, Add	197.04	
For >50 To 100, Add	98.52	
For >500 To 1,000, Deduct	-33.83	
For >1,000 To 2,000, Deduct	-51.38	
For >2,000 To 5,000, Deduct	-84.79	
For >5,000, Deduct	-140.45	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	790.60	
For Vinlyester Resin, Add	511.32	
For Epoxy Resin, Add	60.26	
For Up To >10, Add	545.65	
For >10 To 25, Add	332.97	
For >25 To 50, Add	236.30	
For >50 To 100, Add	118.15	
For >500 To 1,000, Deduct	-41.03	
For >1,000 To 2,000, Deduct	-62.30	
For >2,000 To 5,000, Deduct	-102.69	
For >5,000, Deduct	-170.15	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	873.52	
For Vinlyester Resin, Add	563.19	
For Epoxy Resin, Add	66.38	
For Up To >10, Add	609.16	
For >10 To 25, Add	373.54	
For >25 To 50, Add	264.35	
For >50 To 100, Add	132.18	
For >500 To 1,000, Deduct	-45.40	
For >1,000 To 2,000, Deduct	-68.96	
For >2,000 To 5,000, Deduct	-113.79	
For >5,000, Deduct	-188.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	984.93	
For Vinylster Resin, Add	635.01	
For Epoxy Resin, Add	74.84	
For Up To >10, Add	686.92	
For >10 To 25, Add	421.24	
For >25 To 50, Add	298.10	
For >50 To 100, Add	149.05	
For >500 To 1,000, Deduct	-51.19	
For >1,000 To 2,000, Deduct	-77.76	
For >2,000 To 5,000, Deduct	-128.30	
For >5,000, Deduct	-212.54	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,096.34	
For Vinylster Resin, Add	706.81	
For Epoxy Resin, Add	83.30	
For Up To >10, Add	764.70	
For >10 To 25, Add	468.96	
For >25 To 50, Add	331.86	
For >50 To 100, Add	165.93	
For >500 To 1,000, Deduct	-56.98	
For >1,000 To 2,000, Deduct	-86.56	
For >2,000 To 5,000, Deduct	-142.82	
For >5,000, Deduct	-236.59	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,210.78	
For Vinylster Resin, Add	778.62	
For Epoxy Resin, Add	91.77	
For Up To >10, Add	851.54	
For >10 To 25, Add	524.23	
For >25 To 50, Add	370.15	
For >50 To 100, Add	185.08	
For >500 To 1,000, Deduct	-63.00	
For >1,000 To 2,000, Deduct	-95.73	
For >2,000 To 5,000, Deduct	-158.09	
For >5,000, Deduct	-261.85	
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,322.45	
For Vinylster Resin, Add	850.44	
For Epoxy Resin, Add	100.23	
For Up To >10, Add	930.08	
For >10 To 25, Add	572.58	
For >25 To 50, Add	404.29	
For >50 To 100, Add	202.15	
For >500 To 1,000, Deduct	-68.81	
For >1,000 To 2,000, Deduct	-104.56	
For >2,000 To 5,000, Deduct	-172.67	
For >5,000, Deduct	-286.00	
33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,434.11	
For Vinylster Resin, Add	922.25	
For Epoxy Resin, Add	108.69	
For Up To >10, Add	1,008.58	
For >10 To 25, Add	620.90	
For >25 To 50, Add	438.42	
For >50 To 100, Add	219.21	
For >500 To 1,000, Deduct	-74.62	
For >1,000 To 2,000, Deduct	-113.39	
For >2,000 To 5,000, Deduct	-187.25	
For >5,000, Deduct	-310.14	
33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,545.79	
For Vinylster Resin, Add	994.06	
For Epoxy Resin, Add	117.16	
For Up To >10, Add	1,087.15	
For >10 To 25, Add	669.27	
For >25 To 50, Add	472.57	
For >50 To 100, Add	236.28	
For >500 To 1,000, Deduct	-80.43	
For >1,000 To 2,000, Deduct	-122.22	
For >2,000 To 5,000, Deduct	-201.84	
For >5,000, Deduct	-334.30	
33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	394.65	
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	394.65	
For Vinylster Resin, Add	254.28	
For Epoxy Resin, Add	29.97	
For Up To >10, Add	275.80	
For >10 To 25, Add	169.29	
For >25 To 50, Add	119.74	
For >50 To 100, Add	59.87	
For >500 To 1,000, Deduct	-20.52	
For >1,000 To 2,000, Deduct	-31.17	
For >2,000 To 5,000, Deduct	-51.44	
For >5,000, Deduct	-85.21	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	453.31	
For Vinlyester Resin, Add	292.43	
For Epoxy Resin, Add	34.47	
For Up To >10, Add	315.53	
For >10 To 25, Add	193.32	
For >25 To 50, Add	136.88	
For >50 To 100, Add	68.44	
For >500 To 1,000, Deduct	-23.55	
For >1,000 To 2,000, Deduct	-35.78	
For >2,000 To 5,000, Deduct	-59.02	
For >5,000, Deduct	-97.77	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	512.49	
For Vinlyester Resin, Add	330.59	
For Epoxy Resin, Add	38.96	
For Up To >10, Add	356.80	
For >10 To 25, Add	218.62	
For >25 To 50, Add	154.78	
For >50 To 100, Add	77.39	
For >500 To 1,000, Deduct	-26.63	
For >1,000 To 2,000, Deduct	-40.45	
For >2,000 To 5,000, Deduct	-66.73	
For >5,000, Deduct	-110.54	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	571.53	
For Vinlyester Resin, Add	368.74	
For Epoxy Resin, Add	43.46	
For Up To >10, Add	397.67	
For >10 To 25, Add	243.59	
For >25 To 50, Add	172.49	
For >50 To 100, Add	86.25	
For >500 To 1,000, Deduct	-29.70	
For >1,000 To 2,000, Deduct	-45.10	
For >2,000 To 5,000, Deduct	-74.40	
For >5,000, Deduct	-123.26	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	689.85	
For Vinlyester Resin, Add	445.03	
For Epoxy Resin, Add	52.45	
For Up To >10, Add	480.15	
For >10 To 25, Add	294.17	
For >25 To 50, Add	208.29	
For >50 To 100, Add	104.14	
For >500 To 1,000, Deduct	-35.84	
For >1,000 To 2,000, Deduct	-54.44	
For >2,000 To 5,000, Deduct	-89.81	
For >5,000, Deduct	-148.79	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	808.06	
For Vinlyester Resin, Add	521.34	
For Epoxy Resin, Add	61.44	
For Up To >10, Add	562.26	
For >10 To 25, Add	344.42	
For >25 To 50, Add	243.89	
For >50 To 100, Add	121.94	
For >500 To 1,000, Deduct	-41.99	
For >1,000 To 2,000, Deduct	-63.77	
For >2,000 To 5,000, Deduct	-105.19	
For >5,000, Deduct	-174.27	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	926.39	
For Vinlyester Resin, Add	597.64	
For Epoxy Resin, Add	70.44	
For Up To >10, Add	644.75	
For >10 To 25, Add	394.99	
For >25 To 50, Add	279.68	
For >50 To 100, Add	139.84	
For >500 To 1,000, Deduct	-48.14	
For >1,000 To 2,000, Deduct	-73.11	
For >2,000 To 5,000, Deduct	-120.61	
For >5,000, Deduct	-199.80	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,044.59	
For Vinlyester Resin, Add	673.94	
For Epoxy Resin, Add	79.43	
For Up To >10, Add	726.85	
For >10 To 25, Add	445.24	
For >25 To 50, Add	315.28	
For >50 To 100, Add	157.64	
For >500 To 1,000, Deduct	-54.28	
For >1,000 To 2,000, Deduct	-82.44	
For >2,000 To 5,000, Deduct	-135.99	
For >5,000, Deduct	-225.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,162.92	
For Vinylster Resin, Add	750.24	
For Epoxy Resin, Add	88.42	
For Up To >10, Add	809.34	
For >10 To 25, Add	495.82	
For >25 To 50, Add	351.08	
For >50 To 100, Add	175.54	
For >500 To 1,000, Deduct	-60.42	
For >1,000 To 2,000, Deduct	-91.78	
For >2,000 To 5,000, Deduct	-151.40	
For >5,000, Deduct	-250.81	
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,285.28	
For Vinylster Resin, Add	826.54	
For Epoxy Resin, Add	97.41	
For Up To >10, Add	903.92	
For >10 To 25, Add	556.47	
For >25 To 50, Add	392.92	
For >50 To 100, Add	196.46	
For >500 To 1,000, Deduct	-66.88	
For >1,000 To 2,000, Deduct	-101.62	
For >2,000 To 5,000, Deduct	-167.82	
For >5,000, Deduct	-277.96	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,403.99	
For Vinylster Resin, Add	902.84	
For Epoxy Resin, Add	106.41	
For Up To >10, Add	987.55	
For >10 To 25, Add	607.99	
For >25 To 50, Add	429.28	
For >50 To 100, Add	214.64	
For >500 To 1,000, Deduct	-73.06	
For >1,000 To 2,000, Deduct	-111.01	
For >2,000 To 5,000, Deduct	-183.33	
For >5,000, Deduct	-303.64	
33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,522.57	
For Vinylster Resin, Add	979.14	
For Epoxy Resin, Add	115.40	
For Up To >10, Add	1,070.79	
For >10 To 25, Add	659.19	
For >25 To 50, Add	465.45	
For >50 To 100, Add	232.73	
For >500 To 1,000, Deduct	-79.22	
For >1,000 To 2,000, Deduct	-120.38	
For >2,000 To 5,000, Deduct	-198.80	
For >5,000, Deduct	-329.27	
33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,641.28	
For Vinylster Resin, Add	1,055.44	
For Epoxy Resin, Add	124.39	
For Up To >10, Add	1,154.42	
For >10 To 25, Add	710.72	
For >25 To 50, Add	501.82	
For >50 To 100, Add	250.91	
For >500 To 1,000, Deduct	-85.40	
For >1,000 To 2,000, Deduct	-129.77	
For >2,000 To 5,000, Deduct	-214.31	
For >5,000, Deduct	-354.96	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	415.78	
For Vinylster Resin, Add	268.45	
For Epoxy Resin, Add	31.64	
For Up To >10, Add	288.59	
For >10 To 25, Add	176.58	
For >25 To 50, Add	125.12	
For >50 To 100, Add	62.56	
For >500 To 1,000, Deduct	-21.60	
For >1,000 To 2,000, Deduct	-32.80	
For >2,000 To 5,000, Deduct	-54.09	
For >5,000, Deduct	-89.61	
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	478.39	
For Vinylster Resin, Add	308.84	
For Epoxy Resin, Add	36.40	
For Up To >10, Add	332.17	
For >10 To 25, Add	203.28	
For >25 To 50, Add	144.03	
For >50 To 100, Add	72.01	
For >500 To 1,000, Deduct	-24.85	
For >1,000 To 2,000, Deduct	-37.74	
For >2,000 To 5,000, Deduct	-62.24	
For >5,000, Deduct	-103.12	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	541.02	
For Vinlyester Resin, Add	349.24	
For Epoxy Resin, Add	41.16	
For Up To >10, Add	375.79	
For >10 To 25, Add	230.00	
For >25 To 50, Add	162.95	
For >50 To 100, Add	81.47	
For >500 To 1,000, Deduct	-28.10	
For >1,000 To 2,000, Deduct	-42.68	
For >2,000 To 5,000, Deduct	-70.40	
For >5,000, Deduct	-116.63	
33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	603.52	
For Vinlyester Resin, Add	389.63	
For Epoxy Resin, Add	45.92	
For Up To >10, Add	419.01	
For >10 To 25, Add	256.41	
For >25 To 50, Add	181.67	
For >50 To 100, Add	90.84	
For >500 To 1,000, Deduct	-31.35	
For >1,000 To 2,000, Deduct	-47.61	
For >2,000 To 5,000, Deduct	-78.52	
For >5,000, Deduct	-130.08	
33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	728.63	
For Vinlyester Resin, Add	470.42	
For Epoxy Resin, Add	55.44	
For Up To >10, Add	505.82	
For >10 To 25, Add	309.51	
For >25 To 50, Add	219.31	
For >50 To 100, Add	109.65	
For >500 To 1,000, Deduct	-37.85	
For >1,000 To 2,000, Deduct	-57.48	
For >2,000 To 5,000, Deduct	-94.79	
For >5,000, Deduct	-157.05	
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	853.88	
For Vinlyester Resin, Add	551.21	
For Epoxy Resin, Add	64.96	
For Up To >10, Add	593.04	
For >10 To 25, Add	362.96	
For >25 To 50, Add	257.15	
For >50 To 100, Add	128.57	
For >500 To 1,000, Deduct	-44.36	
For >1,000 To 2,000, Deduct	-67.36	
For >2,000 To 5,000, Deduct	-111.10	
For >5,000, Deduct	-184.06	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	979.00	
For Vinlyester Resin, Add	632.00	
For Epoxy Resin, Add	74.49	
For Up To >10, Add	679.88	
For >10 To 25, Add	416.09	
For >25 To 50, Add	294.80	
For >50 To 100, Add	147.40	
For >500 To 1,000, Deduct	-50.85	
For >1,000 To 2,000, Deduct	-77.23	
For >2,000 To 5,000, Deduct	-127.38	
For >5,000, Deduct	-211.03	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,104.12	
For Vinlyester Resin, Add	712.79	
For Epoxy Resin, Add	84.01	
For Up To >10, Add	766.69	
For >10 To 25, Add	469.19	
For >25 To 50, Add	332.43	
For >50 To 100, Add	166.21	
For >500 To 1,000, Deduct	-57.35	
For >1,000 To 2,000, Deduct	-87.10	
For >2,000 To 5,000, Deduct	-143.65	
For >5,000, Deduct	-237.99	
33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,229.24	
For Vinlyester Resin, Add	793.58	
For Epoxy Resin, Add	93.53	
For Up To >10, Add	853.52	
For >10 To 25, Add	522.32	
For >25 To 50, Add	370.08	
For >50 To 100, Add	185.04	
For >500 To 1,000, Deduct	-63.85	
For >1,000 To 2,000, Deduct	-96.97	
For >2,000 To 5,000, Deduct	-159.93	
For >5,000, Deduct	-264.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0185 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,359.65	
For Vinylster Resin, Add	874.36	
For Epoxy Resin, Add	103.05	
For Up To >10, Add	956.23	
For >10 To 25, Add	588.67	
For >25 To 50, Add	415.66	
For >50 To 100, Add	207.83	
For >500 To 1,000, Deduct	-70.75	
For >1,000 To 2,000, Deduct	-107.50	
For >2,000 To 5,000, Deduct	-177.53	
For >5,000, Deduct	-294.04	
33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,485.28	
For Vinylster Resin, Add	955.15	
For Epoxy Resin, Add	112.57	
For Up To >10, Add	1,044.59	
For >10 To 25, Add	643.08	
For >25 To 50, Add	454.07	
For >50 To 100, Add	227.04	
For >500 To 1,000, Deduct	-77.28	
For >1,000 To 2,000, Deduct	-117.44	
For >2,000 To 5,000, Deduct	-193.94	
For >5,000, Deduct	-321.21	
33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,610.91	
For Vinylster Resin, Add	1,035.94	
For Epoxy Resin, Add	122.09	
For Up To >10, Add	1,132.93	
For >10 To 25, Add	697.46	
For >25 To 50, Add	492.47	
For >50 To 100, Add	246.23	
For >500 To 1,000, Deduct	-83.82	
For >1,000 To 2,000, Deduct	-127.37	
For >2,000 To 5,000, Deduct	-210.34	
For >5,000, Deduct	-348.38	
33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,736.53	
For Vinylster Resin, Add	1,116.73	
For Epoxy Resin, Add	131.61	
For Up To >10, Add	1,221.27	
For >10 To 25, Add	751.83	
For >25 To 50, Add	530.87	
For >50 To 100, Add	265.43	
For >500 To 1,000, Deduct	-90.36	
For >1,000 To 2,000, Deduct	-137.30	
For >2,000 To 5,000, Deduct	-226.74	
For >5,000, Deduct	-375.55	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	503.09	
For Vinylster Resin, Add	325.16	
For Epoxy Resin, Add	38.32	
For Up To >10, Add	348.00	
For >10 To 25, Add	212.58	
For >25 To 50, Add	150.77	
For >50 To 100, Add	75.39	
For >500 To 1,000, Deduct	-26.12	
For >1,000 To 2,000, Deduct	-39.66	
For >2,000 To 5,000, Deduct	-65.39	
For >5,000, Deduct	-108.33	
33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	569.17	
For Vinylster Resin, Add	367.80	
For Epoxy Resin, Add	43.35	
For Up To >10, Add	393.94	
For >10 To 25, Add	240.71	
For >25 To 50, Add	170.70	
For >50 To 100, Add	85.35	
For >500 To 1,000, Deduct	-29.55	
For >1,000 To 2,000, Deduct	-44.87	
For >2,000 To 5,000, Deduct	-73.99	
For >5,000, Deduct	-122.58	
33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	635.13	
For Vinylster Resin, Add	410.44	
For Epoxy Resin, Add	48.37	
For Up To >10, Add	439.54	
For >10 To 25, Add	268.56	
For >25 To 50, Add	190.45	
For >50 To 100, Add	95.23	
For >500 To 1,000, Deduct	-32.98	
For >1,000 To 2,000, Deduct	-50.07	
For >2,000 To 5,000, Deduct	-82.56	
For >5,000, Deduct	-136.78	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	803.05	
For Vinlyester Resin, Add	520.92	
For Epoxy Resin, Add	61.39	
For Up To >10, Add	548.73	
For >10 To 25, Add	333.24	
For >25 To 50, Add	237.15	
For >50 To 100, Add	118.58	
For >500 To 1,000, Deduct	-41.62	
For >1,000 To 2,000, Deduct	-63.17	
For >2,000 To 5,000, Deduct	-104.02	
For >5,000, Deduct	-172.39	
33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	899.07	
For Vinlyester Resin, Add	580.99	
For Epoxy Resin, Add	68.47	
For Up To >10, Add	622.24	
For >10 To 25, Add	380.20	
For >25 To 50, Add	269.62	
For >50 To 100, Add	134.81	
For >500 To 1,000, Deduct	-46.68	
For >1,000 To 2,000, Deduct	-70.88	
For >2,000 To 5,000, Deduct	-116.87	
For >5,000, Deduct	-193.63	
33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,030.98	
For Vinlyester Resin, Add	666.27	
For Epoxy Resin, Add	78.52	
For Up To >10, Add	713.42	
For >10 To 25, Add	435.88	
For >25 To 50, Add	309.12	
For >50 To 100, Add	154.56	
For >500 To 1,000, Deduct	-53.53	
For >1,000 To 2,000, Deduct	-81.28	
For >2,000 To 5,000, Deduct	-134.01	
For >5,000, Deduct	-222.03	
33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,162.90	
For Vinlyester Resin, Add	751.55	
For Epoxy Resin, Add	88.58	
For Up To >10, Add	804.60	
For >10 To 25, Add	491.56	
For >25 To 50, Add	348.62	
For >50 To 100, Add	174.31	
For >500 To 1,000, Deduct	-60.38	
For >1,000 To 2,000, Deduct	-91.68	
For >2,000 To 5,000, Deduct	-151.15	
For >5,000, Deduct	-250.43	
33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,294.80	
For Vinlyester Resin, Add	836.82	
For Epoxy Resin, Add	98.63	
For Up To >10, Add	895.75	
For >10 To 25, Add	547.22	
For >25 To 50, Add	388.10	
For >50 To 100, Add	194.05	
For >500 To 1,000, Deduct	-67.22	
For >1,000 To 2,000, Deduct	-102.08	
For >2,000 To 5,000, Deduct	-168.29	
For >5,000, Deduct	-278.83	
33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,432.27	
For Vinlyester Resin, Add	922.10	
For Epoxy Resin, Add	108.68	
For Up To >10, Add	1,003.59	
For >10 To 25, Add	616.77	
For >25 To 50, Add	435.93	
For >50 To 100, Add	217.96	
For >500 To 1,000, Deduct	-74.49	
For >1,000 To 2,000, Deduct	-113.17	
For >2,000 To 5,000, Deduct	-186.82	
For >5,000, Deduct	-309.45	
33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,564.68	
For Vinlyester Resin, Add	1,007.38	
For Epoxy Resin, Add	118.73	
For Up To >10, Add	1,096.27	
For >10 To 25, Add	673.70	
For >25 To 50, Add	476.18	
For >50 To 100, Add	238.09	
For >500 To 1,000, Deduct	-81.37	
For >1,000 To 2,000, Deduct	-123.63	
For >2,000 To 5,000, Deduct	-204.09	
For >5,000, Deduct	-338.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,697.22	
For Vinylster Resin, Add	1,092.65	
For Epoxy Resin, Add	128.78	
For Up To >10, Add	1,189.34	
For >10 To 25, Add	730.96	
For >25 To 50, Add	516.62	
For >50 To 100, Add	258.31	
For >500 To 1,000, Deduct	-88.27	
For >1,000 To 2,000, Deduct	-134.11	
For >2,000 To 5,000, Deduct	-221.38	
For >5,000, Deduct	-366.70	
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,829.63	
For Vinylster Resin, Add	1,177.93	
For Epoxy Resin, Add	138.83	
For Up To >10, Add	1,281.99	
For >10 To 25, Add	787.87	
For >25 To 50, Add	556.86	
For >50 To 100, Add	278.43	
For >500 To 1,000, Deduct	-95.15	
For >1,000 To 2,000, Deduct	-144.57	
For >2,000 To 5,000, Deduct	-238.65	
For >5,000, Deduct	-395.30	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	527.66	
For Vinylster Resin, Add	341.39	
For Epoxy Resin, Add	40.24	
For Up To >10, Add	363.73	
For >10 To 25, Add	221.83	
For >25 To 50, Add	157.48	
For >50 To 100, Add	78.74	
For >500 To 1,000, Deduct	-27.38	
For >1,000 To 2,000, Deduct	-41.57	
For >2,000 To 5,000, Deduct	-68.51	
For >5,000, Deduct	-113.52	
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	597.08	
For Vinylster Resin, Add	386.27	
For Epoxy Resin, Add	45.53	
For Up To >10, Add	411.69	
For >10 To 25, Add	251.11	
For >25 To 50, Add	178.25	
For >50 To 100, Add	89.13	
For >500 To 1,000, Deduct	-30.99	
For >1,000 To 2,000, Deduct	-47.04	
For >2,000 To 5,000, Deduct	-77.53	
For >5,000, Deduct	-128.47	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	666.49	
For Vinylster Resin, Add	431.16	
For Epoxy Resin, Add	50.82	
For Up To >10, Add	459.62	
For >10 To 25, Add	280.36	
For >25 To 50, Add	199.01	
For >50 To 100, Add	99.51	
For >500 To 1,000, Deduct	-34.59	
For >1,000 To 2,000, Deduct	-52.51	
For >2,000 To 5,000, Deduct	-86.55	
For >5,000, Deduct	-143.41	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	805.19	
For Vinylster Resin, Add	520.92	
For Epoxy Resin, Add	61.39	
For Up To >10, Add	555.15	
For >10 To 25, Add	338.59	
For >25 To 50, Add	240.36	
For >50 To 100, Add	120.18	
For >500 To 1,000, Deduct	-41.79	
For >1,000 To 2,000, Deduct	-63.44	
For >2,000 To 5,000, Deduct	-104.56	
For >5,000, Deduct	-173.24	
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	944.02	
For Vinylster Resin, Add	610.69	
For Epoxy Resin, Add	71.97	
For Up To >10, Add	651.04	
For >10 To 25, Add	397.13	
For >25 To 50, Add	281.90	
For >50 To 100, Add	140.95	
For >500 To 1,000, Deduct	-48.99	
For >1,000 To 2,000, Deduct	-74.38	
For >2,000 To 5,000, Deduct	-122.59	
For >5,000, Deduct	-203.13	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0208	LF		30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,082.71	
			For Vinylster Resin, Add	700.45	
			For Epoxy Resin, Add	82.55	
			For Up To >10, Add	746.53	
			For >10 To 25, Add	455.34	
			For >25 To 50, Add	323.23	
			For >50 To 100, Add	161.62	
			For >500 To 1,000, Deduct	-56.19	
			For >1,000 To 2,000, Deduct	-85.31	
			For >2,000 To 5,000, Deduct	-140.59	
			For >5,000, Deduct	-232.96	
33 01 30 72-0209	LF		30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,221.54	
			For Vinylster Resin, Add	790.22	
			For Epoxy Resin, Add	93.13	
			For Up To >10, Add	842.42	
			For >10 To 25, Add	513.87	
			For >25 To 50, Add	364.77	
			For >50 To 100, Add	182.38	
			For >500 To 1,000, Deduct	-63.39	
			For >1,000 To 2,000, Deduct	-96.25	
			For >2,000 To 5,000, Deduct	-158.63	
			For >5,000, Deduct	-262.84	
33 01 30 72-0210	LF		30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,360.24	
			For Vinylster Resin, Add	879.98	
			For Epoxy Resin, Add	103.71	
			For Up To >10, Add	937.92	
			For >10 To 25, Add	572.08	
			For >25 To 50, Add	406.10	
			For >50 To 100, Add	203.05	
			For >500 To 1,000, Deduct	-70.59	
			For >1,000 To 2,000, Deduct	-107.17	
			For >2,000 To 5,000, Deduct	-176.63	
			For >5,000, Deduct	-292.67	
33 01 30 72-0211	LF		30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,504.74	
			For Vinylster Resin, Add	969.75	
			For Epoxy Resin, Add	114.29	
			For Up To >10, Add	1,050.85	
			For >10 To 25, Add	644.81	
			For >25 To 50, Add	456.16	
			For >50 To 100, Add	228.08	
			For >500 To 1,000, Deduct	-78.22	
			For >1,000 To 2,000, Deduct	-118.83	
			For >2,000 To 5,000, Deduct	-196.09	
			For >5,000, Deduct	-324.83	
33 01 30 72-0212	LF		30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,643.95	
			For Vinylster Resin, Add	1,059.51	
			For Epoxy Resin, Add	124.87	
			For Up To >10, Add	1,147.88	
			For >10 To 25, Add	704.30	
			For >25 To 50, Add	498.26	
			For >50 To 100, Add	249.13	
			For >500 To 1,000, Deduct	-85.46	
			For >1,000 To 2,000, Deduct	-129.81	
			For >2,000 To 5,000, Deduct	-214.22	
			For >5,000, Deduct	-354.86	
33 01 30 72-0213	LF		30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,783.28	
			For Vinylster Resin, Add	1,149.28	
			For Epoxy Resin, Add	135.45	
			For Up To >10, Add	1,245.27	
			For >10 To 25, Add	764.08	
			For >25 To 50, Add	540.54	
			For >50 To 100, Add	270.27	
			For >500 To 1,000, Deduct	-92.70	
			For >1,000 To 2,000, Deduct	-140.82	
			For >2,000 To 5,000, Deduct	-232.38	
			For >5,000, Deduct	-384.95	
33 01 30 72-0214	LF		30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,922.60	
			For Vinylster Resin, Add	1,239.04	
			For Epoxy Resin, Add	146.03	
			For Up To >10, Add	1,342.65	
			For >10 To 25, Add	823.87	
			For >25 To 50, Add	582.82	
			For >50 To 100, Add	291.41	
			For >500 To 1,000, Deduct	-99.94	
			For >1,000 To 2,000, Deduct	-151.82	
			For >2,000 To 5,000, Deduct	-250.54	
			For >5,000, Deduct	-415.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0215 LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,061.82	
For Vinylster Resin, Add	1,328.81	
For Epoxy Resin, Add	156.61	
For Up To >10, Add	1,439.71	
For >10 To 25, Add	883.38	
For >25 To 50, Add	624.94	
For >50 To 100, Add	312.47	
For >500 To 1,000, Deduct	-107.18	
For >1,000 To 2,000, Deduct	-162.81	
For >2,000 To 5,000, Deduct	-268.68	
For >5,000, Deduct	-445.07	
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,201.15	
For Vinylster Resin, Add	1,418.58	
For Epoxy Resin, Add	167.19	
For Up To >10, Add	1,537.10	
For >10 To 25, Add	943.16	
For >25 To 50, Add	667.22	
For >50 To 100, Add	333.61	
For >500 To 1,000, Deduct	-114.42	
For >1,000 To 2,000, Deduct	-173.82	
For >2,000 To 5,000, Deduct	-286.84	
For >5,000, Deduct	-475.15	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	552.11	
For Vinylster Resin, Add	357.53	
For Epoxy Resin, Add	42.14	
For Up To >10, Add	379.43	
For >10 To 25, Add	231.07	
For >25 To 50, Add	164.18	
For >50 To 100, Add	82.09	
For >500 To 1,000, Deduct	-28.64	
For >1,000 To 2,000, Deduct	-43.48	
For >2,000 To 5,000, Deduct	-71.63	
For >5,000, Deduct	-118.69	
33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	624.86	
For Vinylster Resin, Add	404.66	
For Epoxy Resin, Add	47.69	
For Up To >10, Add	429.36	
For >10 To 25, Add	261.45	
For >25 To 50, Add	185.77	
For >50 To 100, Add	92.89	
For >500 To 1,000, Deduct	-32.41	
For >1,000 To 2,000, Deduct	-49.20	
For >2,000 To 5,000, Deduct	-81.06	
For >5,000, Deduct	-134.33	
33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	697.61	
For Vinylster Resin, Add	451.79	
For Epoxy Resin, Add	53.25	
For Up To >10, Add	479.31	
For >10 To 25, Add	291.85	
For >25 To 50, Add	207.38	
For >50 To 100, Add	103.69	
For >500 To 1,000, Deduct	-36.19	
For >1,000 To 2,000, Deduct	-54.93	
For >2,000 To 5,000, Deduct	-90.50	
For >5,000, Deduct	-149.96	
33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	843.22	
For Vinylster Resin, Add	546.04	
For Epoxy Resin, Add	64.35	
For Up To >10, Add	579.51	
For >10 To 25, Add	352.92	
For >25 To 50, Add	250.75	
For >50 To 100, Add	125.38	
For >500 To 1,000, Deduct	-43.74	
For >1,000 To 2,000, Deduct	-66.40	
For >2,000 To 5,000, Deduct	-109.40	
For >5,000, Deduct	-181.28	
33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	988.71	
For Vinylster Resin, Add	640.30	
For Epoxy Resin, Add	75.46	
For Up To >10, Add	679.36	
For >10 To 25, Add	413.68	
For >25 To 50, Add	293.94	
For >50 To 100, Add	146.97	
For >500 To 1,000, Deduct	-51.29	
For >1,000 To 2,000, Deduct	-77.85	
For >2,000 To 5,000, Deduct	-128.27	
For >5,000, Deduct	-212.54	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0223	LF		31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,134.34	
			For Vinlyester Resin, Add	734.55	
			For Epoxy Resin, Add	86.57	
			For Up To >10, Add	779.62	
			For >10 To 25, Add	474.79	
			For >25 To 50, Add	337.34	
			For >50 To 100, Add	168.67	
			For >500 To 1,000, Deduct	-58.84	
			For >1,000 To 2,000, Deduct	-89.32	
			For >2,000 To 5,000, Deduct	-147.17	
			For >5,000, Deduct	-243.86	
33 01 30 72-0224	LF		31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,279.81	
			For Vinlyester Resin, Add	828.80	
			For Epoxy Resin, Add	97.68	
			For Up To >10, Add	879.43	
			For >10 To 25, Add	535.53	
			For >25 To 50, Add	380.52	
			For >50 To 100, Add	190.26	
			For >500 To 1,000, Deduct	-66.39	
			For >1,000 To 2,000, Deduct	-100.78	
			For >2,000 To 5,000, Deduct	-166.03	
			For >5,000, Deduct	-275.12	
33 01 30 72-0225	LF		31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,425.31	
			For Vinlyester Resin, Add	923.06	
			For Epoxy Resin, Add	108.79	
			For Up To >10, Add	979.31	
			For >10 To 25, Add	596.31	
			For >25 To 50, Add	423.72	
			For >50 To 100, Add	211.86	
			For >500 To 1,000, Deduct	-73.93	
			For >1,000 To 2,000, Deduct	-112.23	
			For >2,000 To 5,000, Deduct	-184.90	
			For >5,000, Deduct	-306.39	
33 01 30 72-0226	LF		31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,576.85	
			For Vinlyester Resin, Add	1,017.31	
			For Epoxy Resin, Add	119.90	
			For Up To >10, Add	1,097.30	
			For >10 To 25, Add	672.20	
			For >25 To 50, Add	475.99	
			For >50 To 100, Add	237.99	
			For >500 To 1,000, Deduct	-81.93	
			For >1,000 To 2,000, Deduct	-124.44	
			For >2,000 To 5,000, Deduct	-205.28	
			For >5,000, Deduct	-340.08	
33 01 30 72-0227	LF		31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,733.93	
			For Vinlyester Resin, Add	1,119.15	
			For Epoxy Resin, Add	131.90	
			For Up To >10, Add	1,204.82	
			For >10 To 25, Add	737.55	
			For >25 To 50, Add	522.47	
			For >50 To 100, Add	261.23	
			For >500 To 1,000, Deduct	-90.08	
			For >1,000 To 2,000, Deduct	-136.80	
			For >2,000 To 5,000, Deduct	-225.64	
			For >5,000, Deduct	-373.81	
33 01 30 72-0228	LF		31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,868.96	
			For Vinlyester Resin, Add	1,205.81	
			For Epoxy Resin, Add	142.11	
			For Up To >10, Add	1,300.41	
			For >10 To 25, Add	796.57	
			For >25 To 50, Add	564.07	
			For >50 To 100, Add	282.04	
			For >500 To 1,000, Deduct	-97.11	
			For >1,000 To 2,000, Deduct	-147.49	
			For >2,000 To 5,000, Deduct	-243.30	
			For >5,000, Deduct	-403.07	
33 01 30 72-0229	LF		31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,015.08	
			For Vinlyester Resin, Add	1,300.07	
			For Epoxy Resin, Add	153.22	
			For Up To >10, Add	1,402.14	
			For >10 To 25, Add	858.91	
			For >25 To 50, Add	608.21	
			For >50 To 100, Add	304.10	
			For >500 To 1,000, Deduct	-104.70	
			For >1,000 To 2,000, Deduct	-159.02	
			For >2,000 To 5,000, Deduct	-262.33	
			For >5,000, Deduct	-434.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0230 LF 31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,161.07	
For Vinylster Resin, Add	1,394.32	
For Epoxy Resin, Add	164.33	
For Up To >10, Add	1,503.49	
For >10 To 25, Add	920.92	
For >25 To 50, Add	652.15	
For >50 To 100, Add	326.07	
For >500 To 1,000, Deduct	-112.28	
For >1,000 To 2,000, Deduct	-170.54	
For >2,000 To 5,000, Deduct	-281.32	
For >5,000, Deduct	-466.05	
33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,307.20	
For Vinylster Resin, Add	1,488.58	
For Epoxy Resin, Add	175.44	
For Up To >10, Add	1,605.25	
For >10 To 25, Add	983.29	
For >25 To 50, Add	696.30	
For >50 To 100, Add	348.15	
For >500 To 1,000, Deduct	-119.88	
For >1,000 To 2,000, Deduct	-182.07	
For >2,000 To 5,000, Deduct	-300.35	
For >5,000, Deduct	-497.57	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	576.31	
For Vinylster Resin, Add	373.59	
For Epoxy Resin, Add	44.03	
For Up To >10, Add	394.68	
For >10 To 25, Add	239.95	
For >25 To 50, Add	170.66	
For >50 To 100, Add	85.33	
For >500 To 1,000, Deduct	-29.88	
For >1,000 To 2,000, Deduct	-45.35	
For >2,000 To 5,000, Deduct	-74.70	
For >5,000, Deduct	-123.78	
33 01 30 72-0234 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	652.51	
For Vinylster Resin, Add	422.95	
For Epoxy Resin, Add	49.85	
For Up To >10, Add	446.98	
For >10 To 25, Add	271.78	
For >25 To 50, Add	193.28	
For >50 To 100, Add	96.64	
For >500 To 1,000, Deduct	-33.83	
For >1,000 To 2,000, Deduct	-51.35	
For >2,000 To 5,000, Deduct	-84.58	
For >5,000, Deduct	-140.16	
33 01 30 72-0235 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	728.58	
For Vinylster Resin, Add	472.33	
For Epoxy Resin, Add	55.67	
For Up To >10, Add	498.87	
For >10 To 25, Add	303.26	
For >25 To 50, Add	215.70	
For >50 To 100, Add	107.85	
For >500 To 1,000, Deduct	-37.77	
For >1,000 To 2,000, Deduct	-57.34	
For >2,000 To 5,000, Deduct	-94.43	
For >5,000, Deduct	-156.48	
33 01 30 72-0236 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	881.00	
For Vinylster Resin, Add	571.07	
For Epoxy Resin, Add	67.31	
For Up To >10, Add	603.45	
For >10 To 25, Add	366.91	
For >25 To 50, Add	260.93	
For >50 To 100, Add	130.47	
For >500 To 1,000, Deduct	-45.68	
For >1,000 To 2,000, Deduct	-69.33	
For >2,000 To 5,000, Deduct	-114.19	
For >5,000, Deduct	-189.24	
33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,033.26	
For Vinylster Resin, Add	669.81	
For Epoxy Resin, Add	78.94	
For Up To >10, Add	707.61	
For >10 To 25, Add	430.19	
For >25 To 50, Add	305.96	
For >50 To 100, Add	152.98	
For >500 To 1,000, Deduct	-53.57	
For >1,000 To 2,000, Deduct	-81.31	
For >2,000 To 5,000, Deduct	-133.92	
For >5,000, Deduct	-221.93	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,185.68	
For Vinlyester Resin, Add	768.56	
For Epoxy Resin, Add	90.58	
For Up To >10, Add	812.19	
For >10 To 25, Add	493.84	
For >25 To 50, Add	351.20	
For >50 To 100, Add	175.60	
For >500 To 1,000, Deduct	-61.48	
For >1,000 To 2,000, Deduct	-93.31	
For >2,000 To 5,000, Deduct	-153.69	
For >5,000, Deduct	-254.68	
33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,337.96	
For Vinlyester Resin, Add	867.29	
For Epoxy Resin, Add	102.22	
For Up To >10, Add	916.41	
For >10 To 25, Add	557.17	
For >25 To 50, Add	396.25	
For >50 To 100, Add	198.13	
For >500 To 1,000, Deduct	-69.37	
For >1,000 To 2,000, Deduct	-105.30	
For >2,000 To 5,000, Deduct	-173.42	
For >5,000, Deduct	-287.39	
33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,490.25	
For Vinlyester Resin, Add	966.04	
For Epoxy Resin, Add	113.85	
For Up To >10, Add	1,020.60	
For >10 To 25, Add	620.49	
For >25 To 50, Add	441.30	
For >50 To 100, Add	220.65	
For >500 To 1,000, Deduct	-77.27	
For >1,000 To 2,000, Deduct	-117.28	
For >2,000 To 5,000, Deduct	-193.15	
For >5,000, Deduct	-320.09	
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,648.70	
For Vinlyester Resin, Add	1,064.78	
For Epoxy Resin, Add	125.49	
For Up To >10, Add	1,143.33	
For >10 To 25, Add	699.25	
For >25 To 50, Add	495.61	
For >50 To 100, Add	247.80	
For >500 To 1,000, Deduct	-85.62	
For >1,000 To 2,000, Deduct	-130.03	
For >2,000 To 5,000, Deduct	-214.43	
For >5,000, Deduct	-355.26	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,801.99	
For Vinlyester Resin, Add	1,163.53	
For Epoxy Resin, Add	137.13	
For Up To >10, Add	1,250.52	
For >10 To 25, Add	765.07	
For >25 To 50, Add	542.15	
For >50 To 100, Add	271.08	
For >500 To 1,000, Deduct	-93.59	
For >1,000 To 2,000, Deduct	-142.14	
For >2,000 To 5,000, Deduct	-234.41	
For >5,000, Deduct	-388.36	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,954.39	
For Vinlyester Resin, Add	1,262.26	
For Epoxy Resin, Add	148.77	
For Up To >10, Add	1,355.10	
For >10 To 25, Add	828.71	
For >25 To 50, Add	587.39	
For >50 To 100, Add	293.69	
For >500 To 1,000, Deduct	-101.50	
For >1,000 To 2,000, Deduct	-154.14	
For >2,000 To 5,000, Deduct	-254.18	
For >5,000, Deduct	-42.11	
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,107.30	
For Vinlyester Resin, Add	1,361.00	
For Epoxy Resin, Add	160.40	
For Up To >10, Add	1,461.18	
For >10 To 25, Add	893.60	
For >25 To 50, Add	633.37	
For >50 To 100, Add	316.69	
For >500 To 1,000, Deduct	-109.44	
For >1,000 To 2,000, Deduct	-166.20	
For >2,000 To 5,000, Deduct	-274.07	
For >5,000, Deduct	-454.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,260.21	
For Vinlyester Resin, Add	1,459.75	
For Epoxy Resin, Add	172.04	
For Up To >10, Add	1,567.26	
For >10 To 25, Add	958.49	
For >25 To 50, Add	679.36	
For >50 To 100, Add	339.68	
For >500 To 1,000, Deduct	-117.38	
For >1,000 To 2,000, Deduct	-178.26	
For >2,000 To 5,000, Deduct	-293.96	
For >5,000, Deduct	-487.01	
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,413.12	
For Vinlyester Resin, Add	1,558.49	
For Epoxy Resin, Add	183.68	
For Up To >10, Add	1,673.34	
For >10 To 25, Add	1,023.38	
For >25 To 50, Add	725.35	
For >50 To 100, Add	362.67	
For >500 To 1,000, Deduct	-125.32	
For >1,000 To 2,000, Deduct	-190.32	
For >2,000 To 5,000, Deduct	-313.85	
For >5,000, Deduct	-519.97	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	679.66	
For Vinlyester Resin, Add	441.17	
For Epoxy Resin, Add	51.99	
For Up To >10, Add	463.38	
For >10 To 25, Add	281.11	
For >25 To 50, Add	200.18	
For >50 To 100, Add	100.09	
For >500 To 1,000, Deduct	-35.22	
For >1,000 To 2,000, Deduct	-53.45	
For >2,000 To 5,000, Deduct	-87.98	
For >5,000, Deduct	-145.82	
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	759.19	
For Vinlyester Resin, Add	492.78	
For Epoxy Resin, Add	58.08	
For Up To >10, Add	517.65	
For >10 To 25, Add	314.04	
For >25 To 50, Add	223.62	
For >50 To 100, Add	111.81	
For >500 To 1,000, Deduct	-39.34	
For >1,000 To 2,000, Deduct	-59.70	
For >2,000 To 5,000, Deduct	-98.28	
For >5,000, Deduct	-162.88	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	918.27	
For Vinlyester Resin, Add	596.02	
For Epoxy Resin, Add	70.24	
For Up To >10, Add	626.19	
For >10 To 25, Add	379.91	
For >25 To 50, Add	270.52	
For >50 To 100, Add	135.26	
For >500 To 1,000, Deduct	-47.58	
For >1,000 To 2,000, Deduct	-72.21	
For >2,000 To 5,000, Deduct	-118.88	
For >5,000, Deduct	-197.02	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,077.21	
For Vinlyester Resin, Add	699.24	
For Epoxy Resin, Add	82.41	
For Up To >10, Add	734.33	
For >10 To 25, Add	445.46	
For >25 To 50, Add	317.22	
For >50 To 100, Add	158.61	
For >500 To 1,000, Deduct	-55.82	
For >1,000 To 2,000, Deduct	-84.71	
For >2,000 To 5,000, Deduct	-139.44	
For >5,000, Deduct	-231.10	
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,236.28	
For Vinlyester Resin, Add	802.47	
For Epoxy Resin, Add	94.58	
For Up To >10, Add	842.87	
For >10 To 25, Add	511.32	
For >25 To 50, Add	364.11	
For >50 To 100, Add	182.06	
For >500 To 1,000, Deduct	-64.06	
For >1,000 To 2,000, Deduct	-97.22	
For >2,000 To 5,000, Deduct	-160.04	
For >5,000, Deduct	-265.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,395.22	
For Vinlyester Resin, Add	905.70	
For Epoxy Resin, Add	106.74	
For Up To >10, Add	951.01	
For >10 To 25, Add	576.87	
For >25 To 50, Add	410.81	
For >50 To 100, Add	205.41	
For >500 To 1,000, Deduct	-72.30	
For >1,000 To 2,000, Deduct	-109.71	
For >2,000 To 5,000, Deduct	-180.60	
For >5,000, Deduct	-299.32	
33 01 30 72-0254 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,554.29	
For Vinlyester Resin, Add	1,008.93	
For Epoxy Resin, Add	118.91	
For Up To >10, Add	1,059.55	
For >10 To 25, Add	642.73	
For >25 To 50, Add	457.71	
For >50 To 100, Add	228.85	
For >500 To 1,000, Deduct	-80.54	
For >1,000 To 2,000, Deduct	-122.22	
For >2,000 To 5,000, Deduct	-201.20	
For >5,000, Deduct	-333.45	
33 01 30 72-0255 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,719.54	
For Vinlyester Resin, Add	1,112.16	
For Epoxy Resin, Add	131.08	
For Up To >10, Add	1,186.62	
For >10 To 25, Add	724.05	
For >25 To 50, Add	513.87	
For >50 To 100, Add	256.94	
For >500 To 1,000, Deduct	-89.25	
For >1,000 To 2,000, Deduct	-135.50	
For >2,000 To 5,000, Deduct	-223.34	
For >5,000, Deduct	-370.06	
33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,879.36	
For Vinlyester Resin, Add	1,215.39	
For Epoxy Resin, Add	143.24	
For Up To >10, Add	1,297.41	
For >10 To 25, Add	791.79	
For >25 To 50, Add	561.89	
For >50 To 100, Add	280.94	
For >500 To 1,000, Deduct	-97.55	
For >1,000 To 2,000, Deduct	-148.11	
For >2,000 To 5,000, Deduct	-244.12	
For >5,000, Deduct	-404.49	
33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,036.68	
For Vinlyester Resin, Add	1,318.63	
For Epoxy Resin, Add	155.41	
For Up To >10, Add	1,400.67	
For >10 To 25, Add	853.26	
For >25 To 50, Add	606.15	
For >50 To 100, Add	303.07	
For >500 To 1,000, Deduct	-105.66	
For >1,000 To 2,000, Deduct	-160.40	
For >2,000 To 5,000, Deduct	-264.28	
For >5,000, Deduct	-437.92	
33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,198.39	
For Vinlyester Resin, Add	1,421.85	
For Epoxy Resin, Add	167.58	
For Up To >10, Add	1,517.12	
For >10 To 25, Add	925.73	
For >25 To 50, Add	657.00	
For >50 To 100, Add	328.50	
For >500 To 1,000, Deduct	-114.10	
For >1,000 To 2,000, Deduct	-173.24	
For >2,000 To 5,000, Deduct	-285.54	
For >5,000, Deduct	-473.11	
33 01 30 72-0259 LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,357.96	
For Vinlyester Resin, Add	1,525.08	
For Epoxy Resin, Add	179.74	
For Up To >10, Add	1,627.16	
For >10 To 25, Add	992.85	
For >25 To 50, Add	704.64	
For >50 To 100, Add	352.32	
For >500 To 1,000, Deduct	-122.38	
For >1,000 To 2,000, Deduct	-185.81	
For >2,000 To 5,000, Deduct	-306.26	
For >5,000, Deduct	-507.45	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0260 LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,517.53	
For Vinyl Ester Resin, Add	1,628.31	
For Epoxy Resin, Add	191.91	
For Up To >10, Add	1,737.19	
For >10 To 25, Add	1,059.97	
For >25 To 50, Add	752.29	
For >50 To 100, Add	376.14	
For >500 To 1,000, Deduct	-130.66	
For >1,000 To 2,000, Deduct	-198.38	
For >2,000 To 5,000, Deduct	-326.98	
For >5,000, Deduct	-541.78	
33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	706.68	
For Vinyl Ester Resin, Add	459.29	
For Epoxy Resin, Add	54.13	
For Up To >10, Add	479.72	
For >10 To 25, Add	290.41	
For >25 To 50, Add	207.05	
For >50 To 100, Add	103.53	
For >500 To 1,000, Deduct	-36.60	
For >1,000 To 2,000, Deduct	-55.53	
For >2,000 To 5,000, Deduct	-91.37	
For >5,000, Deduct	-151.45	
33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	789.54	
For Vinyl Ester Resin, Add	513.14	
For Epoxy Resin, Add	60.48	
For Up To >10, Add	535.97	
For >10 To 25, Add	324.47	
For >25 To 50, Add	231.33	
For >50 To 100, Add	115.67	
For >500 To 1,000, Deduct	-40.89	
For >1,000 To 2,000, Deduct	-62.04	
For >2,000 To 5,000, Deduct	-102.09	
For >5,000, Deduct	-169.20	
33 01 30 72-0264 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	955.28	
For Vinyl Ester Resin, Add	620.87	
For Epoxy Resin, Add	73.17	
For Up To >10, Add	648.47	
For >10 To 25, Add	392.56	
For >25 To 50, Add	279.89	
For >50 To 100, Add	139.94	
For >500 To 1,000, Deduct	-49.47	
For >1,000 To 2,000, Deduct	-75.06	
For >2,000 To 5,000, Deduct	-123.52	
For >5,000, Deduct	-204.72	
33 01 30 72-0265 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,121.02	
For Vinyl Ester Resin, Add	728.59	
For Epoxy Resin, Add	85.87	
For Up To >10, Add	760.96	
For >10 To 25, Add	460.66	
For >25 To 50, Add	328.44	
For >50 To 100, Add	164.22	
For >500 To 1,000, Deduct	-58.06	
For >1,000 To 2,000, Deduct	-88.09	
For >2,000 To 5,000, Deduct	-144.95	
For >5,000, Deduct	-240.24	
33 01 30 72-0266 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,286.62	
For Vinyl Ester Resin, Add	836.30	
For Epoxy Resin, Add	98.56	
For Up To >10, Add	873.06	
For >10 To 25, Add	528.43	
For >25 To 50, Add	376.79	
For >50 To 100, Add	188.40	
For >500 To 1,000, Deduct	-66.63	
For >1,000 To 2,000, Deduct	-101.09	
For >2,000 To 5,000, Deduct	-166.34	
For >5,000, Deduct	-275.70	
33 01 30 72-0267 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,452.35	
For Vinyl Ester Resin, Add	944.02	
For Epoxy Resin, Add	111.26	
For Up To >10, Add	985.55	
For >10 To 25, Add	596.53	
For >25 To 50, Add	425.35	
For >50 To 100, Add	212.67	
For >500 To 1,000, Deduct	-75.21	
For >1,000 To 2,000, Deduct	-114.11	
For >2,000 To 5,000, Deduct	-187.77	
For >5,000, Deduct	-311.22	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30	72-0268	LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,618.09	
			For Vinylster Resin, Add	1,051.74	
			For Epoxy Resin, Add	123.95	
			For Up To >10, Add	1,098.07	
			For >10 To 25, Add	664.65	
			For >25 To 50, Add	473.91	
			For >50 To 100, Add	236.96	
			For >500 To 1,000, Deduct	-83.79	
			For >1,000 To 2,000, Deduct	-127.14	
			For >2,000 To 5,000, Deduct	-209.20	
			For >5,000, Deduct	-346.74	
33 01	30	72-0269	LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,790.25	
			For Vinylster Resin, Add	1,159.46	
			For Epoxy Resin, Add	136.65	
			For Up To >10, Add	1,229.83	
			For >10 To 25, Add	748.79	
			For >25 To 50, Add	532.09	
			For >50 To 100, Add	266.05	
			For >500 To 1,000, Deduct	-92.86	
			For >1,000 To 2,000, Deduct	-140.96	
			For >2,000 To 5,000, Deduct	-232.23	
			For >5,000, Deduct	-384.83	
33 01	30	72-0270	LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,956.62	
			For Vinylster Resin, Add	1,267.18	
			For Epoxy Resin, Add	149.35	
			For Up To >10, Add	1,344.24	
			For >10 To 25, Add	818.49	
			For >25 To 50, Add	581.61	
			For >50 To 100, Add	290.80	
			For >500 To 1,000, Deduct	-101.49	
			For >1,000 To 2,000, Deduct	-154.07	
			For >2,000 To 5,000, Deduct	-253.82	
			For >5,000, Deduct	-420.60	
33 01	30	72-0271	LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,118.69	
			For Vinylster Resin, Add	1,374.89	
			For Epoxy Resin, Add	162.04	
			For Up To >10, Add	1,445.75	
			For >10 To 25, Add	877.43	
			For >25 To 50, Add	624.67	
			For >50 To 100, Add	312.33	
			For >500 To 1,000, Deduct	-109.80	
			For >1,000 To 2,000, Deduct	-166.63	
			For >2,000 To 5,000, Deduct	-274.34	
			For >5,000, Deduct	-454.65	
33 01	30	72-0272	LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,289.22	
			For Vinylster Resin, Add	1,482.61	
			For Epoxy Resin, Add	174.74	
			For Up To >10, Add	1,572.61	
			For >10 To 25, Add	957.51	
			For >25 To 50, Add	680.40	
			For >50 To 100, Add	340.20	
			For >500 To 1,000, Deduct	-118.74	
			For >1,000 To 2,000, Deduct	-180.25	
			For >2,000 To 5,000, Deduct	-296.96	
			For >5,000, Deduct	-492.08	
33 01	30	72-0273	LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,455.59	
			For Vinylster Resin, Add	1,590.33	
			For Epoxy Resin, Add	187.43	
			For Up To >10, Add	1,687.02	
			For >10 To 25, Add	1,027.20	
			For >25 To 50, Add	729.92	
			For >50 To 100, Add	364.96	
			For >500 To 1,000, Deduct	-127.37	
			For >1,000 To 2,000, Deduct	-193.35	
			For >2,000 To 5,000, Deduct	-318.55	
			For >5,000, Deduct	-527.86	
33 01	30	72-0274	LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,621.95	
			For Vinylster Resin, Add	1,698.05	
			For Epoxy Resin, Add	200.13	
			For Up To >10, Add	1,801.40	
			For >10 To 25, Add	1,096.87	
			For >25 To 50, Add	779.41	
			For >50 To 100, Add	389.71	
			For >500 To 1,000, Deduct	-136.00	
			For >1,000 To 2,000, Deduct	-206.45	
			For >2,000 To 5,000, Deduct	-340.14	
			For >5,000, Deduct	-563.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275 LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,788.19	
For Vinylster Resin, Add	1,805.77	
For Epoxy Resin, Add	212.82	
For Up To >10, Add	1,915.40	
For >10 To 25, Add	1,166.22	
For >25 To 50, Add	828.71	
For >50 To 100, Add	414.36	
For >500 To 1,000, Deduct	-144.62	
For >1,000 To 2,000, Deduct	-219.54	
For >2,000 To 5,000, Deduct	-361.69	
For >5,000, Deduct	-599.34	
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,954.56	
For Vinylster Resin, Add	1,913.49	
For Epoxy Resin, Add	225.52	
For Up To >10, Add	2,029.81	
For >10 To 25, Add	1,235.91	
For >25 To 50, Add	878.23	
For >50 To 100, Add	439.11	
For >500 To 1,000, Deduct	-153.25	
For >1,000 To 2,000, Deduct	-232.64	
For >2,000 To 5,000, Deduct	-383.28	
For >5,000, Deduct	-635.11	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	819.65	
For Vinylster Resin, Add	533.42	
For Epoxy Resin, Add	62.87	
For Up To >10, Add	553.88	
For >10 To 25, Add	334.56	
For >25 To 50, Add	238.84	
For >50 To 100, Add	119.42	
For >500 To 1,000, Deduct	-42.42	
For >1,000 To 2,000, Deduct	-64.35	
For >2,000 To 5,000, Deduct	-105.85	
For >5,000, Deduct	-175.45	
33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	992.04	
For Vinylster Resin, Add	645.63	
For Epoxy Resin, Add	76.09	
For Up To >10, Add	670.30	
For >10 To 25, Add	404.86	
For >25 To 50, Add	289.03	
For >50 To 100, Add	144.52	
For >500 To 1,000, Deduct	-51.34	
For >1,000 To 2,000, Deduct	-77.89	
For >2,000 To 5,000, Deduct	-128.11	
For >5,000, Deduct	-212.35	
33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,164.44	
For Vinylster Resin, Add	757.83	
For Epoxy Resin, Add	89.32	
For Up To >10, Add	786.77	
For >10 To 25, Add	475.21	
For >25 To 50, Add	339.25	
For >50 To 100, Add	169.63	
For >500 To 1,000, Deduct	-60.27	
For >1,000 To 2,000, Deduct	-91.42	
For >2,000 To 5,000, Deduct	-150.37	
For >5,000, Deduct	-249.25	
33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,336.84	
For Vinylster Resin, Add	870.04	
For Epoxy Resin, Add	102.54	
For Up To >10, Add	903.22	
For >10 To 25, Add	545.53	
For >25 To 50, Add	389.46	
For >50 To 100, Add	194.73	
For >500 To 1,000, Deduct	-69.19	
For >1,000 To 2,000, Deduct	-104.96	
For >2,000 To 5,000, Deduct	-172.63	
For >5,000, Deduct	-286.15	
33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,509.25	
For Vinylster Resin, Add	982.25	
For Epoxy Resin, Add	115.77	
For Up To >10, Add	1,019.70	
For >10 To 25, Add	615.88	
For >25 To 50, Add	439.69	
For >50 To 100, Add	219.84	
For >500 To 1,000, Deduct	-78.11	
For >1,000 To 2,000, Deduct	-118.50	
For >2,000 To 5,000, Deduct	-194.89	
For >5,000, Deduct	-323.06	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,681.64	
For Vinlyester Resin, Add	1,094.46	
For Epoxy Resin, Add	128.99	
For Up To >10, Add	1,136.15	
For >10 To 25, Add	686.20	
For >25 To 50, Add	489.90	
For >50 To 100, Add	244.95	
For >500 To 1,000, Deduct	-87.04	
For >1,000 To 2,000, Deduct	-132.03	
For >2,000 To 5,000, Deduct	-217.15	
For >5,000, Deduct	-359.95	
33 01 30 72-0284 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,860.59	
For Vinlyester Resin, Add	1,206.66	
For Epoxy Resin, Add	142.21	
For Up To >10, Add	1,272.27	
For >10 To 25, Add	772.93	
For >25 To 50, Add	549.95	
For >50 To 100, Add	274.97	
For >500 To 1,000, Deduct	-96.45	
For >1,000 To 2,000, Deduct	-146.38	
For >2,000 To 5,000, Deduct	-241.05	
For >5,000, Deduct	-399.48	
33 01 30 72-0285 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,033.62	
For Vinlyester Resin, Add	1,318.87	
For Epoxy Resin, Add	155.44	
For Up To >10, Add	1,390.61	
For >10 To 25, Add	844.83	
For >25 To 50, Add	601.10	
For >50 To 100, Add	300.55	
For >500 To 1,000, Deduct	-105.42	
For >1,000 To 2,000, Deduct	-160.00	
For >2,000 To 5,000, Deduct	-263.47	
For >5,000, Deduct	-436.63	
33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,204.50	
For Vinlyester Resin, Add	1,431.07	
For Epoxy Resin, Add	168.66	
For Up To >10, Add	1,502.53	
For >10 To 25, Add	911.37	
For >25 To 50, Add	649.04	
For >50 To 100, Add	324.52	
For >500 To 1,000, Deduct	-114.23	
For >1,000 To 2,000, Deduct	-173.34	
For >2,000 To 5,000, Deduct	-285.35	
For >5,000, Deduct	-472.92	
33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,379.68	
For Vinlyester Resin, Add	1,543.28	
For Epoxy Resin, Add	181.89	
For Up To >10, Add	1,627.32	
For >10 To 25, Add	988.65	
For >25 To 50, Add	703.42	
For >50 To 100, Add	351.71	
For >500 To 1,000, Deduct	-123.36	
For >1,000 To 2,000, Deduct	-187.23	
For >2,000 To 5,000, Deduct	-308.31	
For >5,000, Deduct	-510.93	
33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,552.71	
For Vinlyester Resin, Add	1,655.49	
For Epoxy Resin, Add	195.11	
For Up To >10, Add	1,745.66	
For >10 To 25, Add	1,060.55	
For >25 To 50, Add	754.58	
For >50 To 100, Add	377.29	
For >500 To 1,000, Deduct	-132.33	
For >1,000 To 2,000, Deduct	-200.84	
For >2,000 To 5,000, Deduct	-330.73	
For >5,000, Deduct	-548.09	
33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,725.61	
For Vinlyester Resin, Add	1,767.70	
For Epoxy Resin, Add	208.34	
For Up To >10, Add	1,863.63	
For >10 To 25, Add	1,132.15	
For >25 To 50, Add	805.55	
For >50 To 100, Add	402.78	
For >500 To 1,000, Deduct	-141.29	
For >1,000 To 2,000, Deduct	-214.44	
For >2,000 To 5,000, Deduct	-353.12	
For >5,000, Deduct	-585.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0290 LF 37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,898.64	
For Vinylster Resin, Add	1,879.91	
For Epoxy Resin, Add	221.56	
For Up To >10, Add	1,981.97	
For >10 To 25, Add	1,204.05	
For >25 To 50, Add	856.71	
For >50 To 100, Add	428.35	
For >500 To 1,000, Deduct	-150.26	
For >1,000 To 2,000, Deduct	-228.05	
For >2,000 To 5,000, Deduct	-375.53	
For >5,000, Deduct	-622.34	
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,071.66	
For Vinylster Resin, Add	1,992.11	
For Epoxy Resin, Add	234.78	
For Up To >10, Add	2,100.31	
For >10 To 25, Add	1,275.94	
For >25 To 50, Add	907.86	
For >50 To 100, Add	453.93	
For >500 To 1,000, Deduct	-159.23	
For >1,000 To 2,000, Deduct	-241.66	
For >2,000 To 5,000, Deduct	-397.95	
For >5,000, Deduct	-659.49	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,028.68	
For Vinylster Resin, Add	670.31	
For Epoxy Resin, Add	79.00	
For Up To >10, Add	692.09	
For >10 To 25, Add	417.15	
For >25 To 50, Add	298.17	
For >50 To 100, Add	149.08	
For >500 To 1,000, Deduct	-53.21	
For >1,000 To 2,000, Deduct	-80.71	
For >2,000 To 5,000, Deduct	-132.68	
For >5,000, Deduct	-219.96	
33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,207.75	
For Vinylster Resin, Add	787.00	
For Epoxy Resin, Add	92.75	
For Up To >10, Add	812.53	
For >10 To 25, Add	489.72	
For >25 To 50, Add	350.05	
For >50 To 100, Add	175.02	
For >500 To 1,000, Deduct	-62.47	
For >1,000 To 2,000, Deduct	-94.75	
For >2,000 To 5,000, Deduct	-155.78	
For >5,000, Deduct	-258.24	
33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,386.81	
For Vinylster Resin, Add	903.70	
For Epoxy Resin, Add	106.51	
For Up To >10, Add	932.93	
For >10 To 25, Add	562.28	
For >25 To 50, Add	401.92	
For >50 To 100, Add	200.96	
For >500 To 1,000, Deduct	-71.74	
For >1,000 To 2,000, Deduct	-108.80	
For >2,000 To 5,000, Deduct	-178.87	
For >5,000, Deduct	-296.52	
33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,565.87	
For Vinylster Resin, Add	1,020.39	
For Epoxy Resin, Add	120.26	
For Up To >10, Add	1,053.36	
For >10 To 25, Add	634.85	
For >25 To 50, Add	453.80	
For >50 To 100, Add	226.90	
For >500 To 1,000, Deduct	-81.00	
For >1,000 To 2,000, Deduct	-122.85	
For >2,000 To 5,000, Deduct	-201.97	
For >5,000, Deduct	-334.81	
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,745.06	
For Vinylster Resin, Add	1,137.09	
For Epoxy Resin, Add	134.01	
For Up To >10, Add	1,174.16	
For >10 To 25, Add	707.73	
For >25 To 50, Add	505.86	
For >50 To 100, Add	252.93	
For >500 To 1,000, Deduct	-90.27	
For >1,000 To 2,000, Deduct	-136.91	
For >2,000 To 5,000, Deduct	-225.09	
For >5,000, Deduct	-373.14	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,930.68	
For Vinlyester Resin, Add	1,253.78	
For Epoxy Resin, Add	147.77	
For Up To >10, Add	1,314.24	
For >10 To 25, Add	796.68	
For >25 To 50, Add	567.56	
For >50 To 100, Add	283.78	
For >500 To 1,000, Deduct	-100.02	
For >1,000 To 2,000, Deduct	-151.78	
For >2,000 To 5,000, Deduct	-249.82	
For >5,000, Deduct	-414.05	
33 01 30 72-0299 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,110.36	
For Vinlyester Resin, Add	1,370.47	
For Epoxy Resin, Add	161.52	
For Up To >10, Add	1,436.53	
For >10 To 25, Add	870.81	
For >25 To 50, Add	620.37	
For >50 To 100, Add	310.19	
For >500 To 1,000, Deduct	-109.33	
For >1,000 To 2,000, Deduct	-165.90	
For >2,000 To 5,000, Deduct	-273.07	
For >5,000, Deduct	-452.58	
33 01 30 72-0300 LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,290.06	
For Vinlyester Resin, Add	1,487.17	
For Epoxy Resin, Add	175.27	
For Up To >10, Add	1,558.86	
For >10 To 25, Add	944.96	
For >25 To 50, Add	673.20	
For >50 To 100, Add	336.60	
For >500 To 1,000, Deduct	-118.64	
For >1,000 To 2,000, Deduct	-180.03	
For >2,000 To 5,000, Deduct	-296.33	
For >5,000, Deduct	-491.12	
33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,469.88	
For Vinlyester Resin, Add	1,603.87	
For Epoxy Resin, Add	189.03	
For Up To >10, Add	1,681.54	
For >10 To 25, Add	1,019.41	
For >25 To 50, Add	726.21	
For >50 To 100, Add	363.10	
For >500 To 1,000, Deduct	-127.96	
For >1,000 To 2,000, Deduct	-194.17	
For >2,000 To 5,000, Deduct	-319.61	
For >5,000, Deduct	-529.70	
33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,649.57	
For Vinlyester Resin, Add	1,720.56	
For Epoxy Resin, Add	202.78	
For Up To >10, Add	1,803.86	
For >10 To 25, Add	1,093.56	
For >25 To 50, Add	779.03	
For >50 To 100, Add	389.52	
For >500 To 1,000, Deduct	-137.27	
For >1,000 To 2,000, Deduct	-208.30	
For >2,000 To 5,000, Deduct	-342.86	
For >5,000, Deduct	-568.24	
33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,829.26	
For Vinlyester Resin, Add	1,837.26	
For Epoxy Resin, Add	216.53	
For Up To >10, Add	1,926.16	
For >10 To 25, Add	1,167.69	
For >25 To 50, Add	831.85	
For >50 To 100, Add	415.92	
For >500 To 1,000, Deduct	-146.58	
For >1,000 To 2,000, Deduct	-222.43	
For >2,000 To 5,000, Deduct	-366.11	
For >5,000, Deduct	-606.77	
33 01 30 72-0304 LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,008.96	
For Vinlyester Resin, Add	1,953.95	
For Epoxy Resin, Add	230.29	
For Up To >10, Add	2,048.48	
For >10 To 25, Add	1,241.84	
For >25 To 50, Add	884.67	
For >50 To 100, Add	442.34	
For >500 To 1,000, Deduct	-155.89	
For >1,000 To 2,000, Deduct	-236.55	
For >2,000 To 5,000, Deduct	-389.36	
For >5,000, Deduct	-645.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0305 LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,188.64	
For Vinlyester Resin, Add	2,070.64	
For Epoxy Resin, Add	244.04	
For Up To >10, Add	2,170.77	
For >10 To 25, Add	1,315.97	
For >25 To 50, Add	937.48	
For >50 To 100, Add	468.74	
For >500 To 1,000, Deduct	-165.20	
For >1,000 To 2,000, Deduct	-250.68	
For >2,000 To 5,000, Deduct	-412.61	
For >5,000, Deduct	-683.84	
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,368.34	
For Vinlyester Resin, Add	2,187.34	
For Epoxy Resin, Add	257.79	
For Up To >10, Add	2,293.10	
For >10 To 25, Add	1,390.12	
For >25 To 50, Add	990.31	
For >50 To 100, Add	495.15	
For >500 To 1,000, Deduct	-174.51	
For >1,000 To 2,000, Deduct	-264.80	
For >2,000 To 5,000, Deduct	-435.86	
For >5,000, Deduct	-722.38	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,548.03	
For Vinlyester Resin, Add	2,304.04	
For Epoxy Resin, Add	271.55	
For Up To >10, Add	2,415.39	
For >10 To 25, Add	1,464.25	
For >25 To 50, Add	1,043.12	
For >50 To 100, Add	521.56	
For >500 To 1,000, Deduct	-183.82	
For >1,000 To 2,000, Deduct	-278.93	
For >2,000 To 5,000, Deduct	-459.12	
For >5,000, Deduct	-760.92	
33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,250.81	
For Vinlyester Resin, Add	816.08	
For Epoxy Resin, Add	96.18	
For Up To >10, Add	837.86	
For >10 To 25, Add	503.91	
For >25 To 50, Add	360.64	
For >50 To 100, Add	180.32	
For >500 To 1,000, Deduct	-64.67	
For >1,000 To 2,000, Deduct	-98.06	
For >2,000 To 5,000, Deduct	-161.14	
For >5,000, Deduct	-267.16	
33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,436.52	
For Vinlyester Resin, Add	937.26	
For Epoxy Resin, Add	110.46	
For Up To >10, Add	962.21	
For >10 To 25, Add	578.69	
For >25 To 50, Add	414.16	
For >50 To 100, Add	207.08	
For >500 To 1,000, Deduct	-74.27	
For >1,000 To 2,000, Deduct	-112.62	
For >2,000 To 5,000, Deduct	-185.07	
For >5,000, Deduct	-306.82	
33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,622.25	
For Vinlyester Resin, Add	1,058.44	
For Epoxy Resin, Add	124.74	
For Up To >10, Add	1,086.60	
For >10 To 25, Add	653.49	
For >25 To 50, Add	467.70	
For >50 To 100, Add	233.85	
For >500 To 1,000, Deduct	-83.87	
For >1,000 To 2,000, Deduct	-127.18	
For >2,000 To 5,000, Deduct	-208.99	
For >5,000, Deduct	-346.49	
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,807.97	
For Vinlyester Resin, Add	1,179.63	
For Epoxy Resin, Add	139.03	
For Up To >10, Add	1,210.96	
For >10 To 25, Add	728.27	
For >25 To 50, Add	521.22	
For >50 To 100, Add	260.61	
For >500 To 1,000, Deduct	-93.47	
For >1,000 To 2,000, Deduct	-141.74	
For >2,000 To 5,000, Deduct	-232.92	
For >5,000, Deduct	-386.15	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,000.51	
For Vinlyester Resin, Add	1,300.81	
For Epoxy Resin, Add	153.31	
For Up To >10, Add	1,355.78	
For >10 To 25, Add	820.10	
For >25 To 50, Add	584.98	
For >50 To 100, Add	292.49	
For >500 To 1,000, Deduct	-103.58	
For >1,000 To 2,000, Deduct	-157.15	
For >2,000 To 5,000, Deduct	-258.55	
For >5,000, Deduct	-428.54	
33 01 30 72-0314 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,186.87	
For Vinlyester Resin, Add	1,421.99	
For Epoxy Resin, Add	167.59	
For Up To >10, Add	1,482.06	
For >10 To 25, Add	896.48	
For >25 To 50, Add	639.46	
For >50 To 100, Add	319.73	
For >500 To 1,000, Deduct	-113.23	
For >1,000 To 2,000, Deduct	-171.79	
For >2,000 To 5,000, Deduct	-282.63	
For >5,000, Deduct	-468.46	
33 01 30 72-0315 LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,373.22	
For Vinlyester Resin, Add	1,543.18	
For Epoxy Resin, Add	181.87	
For Up To >10, Add	1,608.31	
For >10 To 25, Add	972.84	
For >25 To 50, Add	693.93	
For >50 To 100, Add	346.96	
For >500 To 1,000, Deduct	-122.88	
For >1,000 To 2,000, Deduct	-186.43	
For >2,000 To 5,000, Deduct	-306.71	
For >5,000, Deduct	-508.38	
33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,559.58	
For Vinlyester Resin, Add	1,664.36	
For Epoxy Resin, Add	196.16	
For Up To >10, Add	1,734.59	
For >10 To 25, Add	1,049.22	
For >25 To 50, Add	748.41	
For >50 To 100, Add	374.21	
For >500 To 1,000, Deduct	-132.53	
For >1,000 To 2,000, Deduct	-201.06	
For >2,000 To 5,000, Deduct	-330.80	
For >5,000, Deduct	-548.30	
33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,745.93	
For Vinlyester Resin, Add	1,785.55	
For Epoxy Resin, Add	210.44	
For Up To >10, Add	1,860.84	
For >10 To 25, Add	1,125.57	
For >25 To 50, Add	802.88	
For >50 To 100, Add	401.44	
For >500 To 1,000, Deduct	-142.18	
For >1,000 To 2,000, Deduct	-215.70	
For >2,000 To 5,000, Deduct	-354.88	
For >5,000, Deduct	-588.22	
33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,932.30	
For Vinlyester Resin, Add	1,906.73	
For Epoxy Resin, Add	224.72	
For Up To >10, Add	1,987.15	
For >10 To 25, Add	1,201.98	
For >25 To 50, Add	857.38	
For >50 To 100, Add	428.69	
For >500 To 1,000, Deduct	-151.83	
For >1,000 To 2,000, Deduct	-230.34	
For >2,000 To 5,000, Deduct	-378.97	
For >5,000, Deduct	-628.14	
33 01 30 72-0319 LF 40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,118.65	
For Vinlyester Resin, Add	2,027.91	
For Epoxy Resin, Add	239.00	
For Up To >10, Add	2,113.43	
For >10 To 25, Add	1,278.35	
For >25 To 50, Add	911.86	
For >50 To 100, Add	455.93	
For >500 To 1,000, Deduct	-161.47	
For >1,000 To 2,000, Deduct	-244.98	
For >2,000 To 5,000, Deduct	-403.05	
For >5,000, Deduct	-668.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0320 LF 40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,305.00	
For Vinylster Resin, Add	2,149.09	
For Epoxy Resin, Add	253.29	
For Up To >10, Add	2,239.68	
For >10 To 25, Add	1,354.71	
For >25 To 50, Add	966.33	
For >50 To 100, Add	483.17	
For >500 To 1,000, Deduct	-171.12	
For >1,000 To 2,000, Deduct	-259.62	
For >2,000 To 5,000, Deduct	-427.13	
For >5,000, Deduct	-707.97	
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,491.36	
For Vinylster Resin, Add	2,270.28	
For Epoxy Resin, Add	267.57	
For Up To >10, Add	2,365.96	
For >10 To 25, Add	1,431.09	
For >25 To 50, Add	1,020.82	
For >50 To 100, Add	510.41	
For >500 To 1,000, Deduct	-180.77	
For >1,000 To 2,000, Deduct	-274.26	
For >2,000 To 5,000, Deduct	-451.22	
For >5,000, Deduct	-747.89	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,677.71	
For Vinylster Resin, Add	2,391.46	
For Epoxy Resin, Add	281.85	
For Up To >10, Add	2,492.21	
For >10 To 25, Add	1,507.44	
For >25 To 50, Add	1,075.28	
For >50 To 100, Add	537.64	
For >500 To 1,000, Deduct	-190.42	
For >1,000 To 2,000, Deduct	-288.90	
For >2,000 To 5,000, Deduct	-475.30	
For >5,000, Deduct	-787.81	
33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,485.99	
For Vinylster Resin, Add	970.74	
For Epoxy Resin, Add	114.41	
For Up To >10, Add	991.05	
For >10 To 25, Add	594.74	
For >25 To 50, Add	426.18	
For >50 To 100, Add	213.09	
For >500 To 1,000, Deduct	-76.78	
For >1,000 To 2,000, Deduct	-116.41	
For >2,000 To 5,000, Deduct	-191.22	
For >5,000, Deduct	-317.04	
33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,678.38	
For Vinylster Resin, Add	1,096.41	
For Epoxy Resin, Add	129.22	
For Up To >10, Add	1,119.39	
For >10 To 25, Add	671.78	
For >25 To 50, Add	481.38	
For >50 To 100, Add	240.69	
For >500 To 1,000, Deduct	-86.72	
For >1,000 To 2,000, Deduct	-131.48	
For >2,000 To 5,000, Deduct	-215.98	
For >5,000, Deduct	-358.09	
33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,870.77	
For Vinylster Resin, Add	1,222.08	
For Epoxy Resin, Add	144.03	
For Up To >10, Add	1,247.74	
For >10 To 25, Add	748.81	
For >25 To 50, Add	536.58	
For >50 To 100, Add	268.29	
For >500 To 1,000, Deduct	-96.66	
For >1,000 To 2,000, Deduct	-146.55	
For >2,000 To 5,000, Deduct	-240.73	
For >5,000, Deduct	-399.14	
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,070.09	
For Vinylster Resin, Add	1,347.75	
For Epoxy Resin, Add	158.84	
For Up To >10, Add	1,396.87	
For >10 To 25, Add	843.17	
For >25 To 50, Add	602.17	
For >50 To 100, Add	301.08	
For >500 To 1,000, Deduct	-107.12	
For >1,000 To 2,000, Deduct	-162.49	
For >2,000 To 5,000, Deduct	-267.23	
For >5,000, Deduct	-442.96	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0328	LF		42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,263.11	
			For Vinlyester Resin, Add	1,473.42	
			For Epoxy Resin, Add	173.65	
			For Up To >10, Add	1,527.11	
			For >10 To 25, Add	92.177	
			For >25 To 50, Add	658.31	
			For >50 To 100, Add	329.15	
			For >500 To 1,000, Deduct	-117.11	
			For >1,000 To 2,000, Deduct	-177.64	
			For >2,000 To 5,000, Deduct	-292.14	
			For >5,000, Deduct	-484.27	
33 01 30 72-0329	LF		42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,456.13	
			For Vinlyester Resin, Add	1,599.09	
			For Epoxy Resin, Add	188.46	
			For Up To >10, Add	1,657.34	
			For >10 To 25, Add	1,000.38	
			For >25 To 50, Add	714.45	
			For >50 To 100, Add	357.22	
			For >500 To 1,000, Deduct	-127.10	
			For >1,000 To 2,000, Deduct	-192.80	
			For >2,000 To 5,000, Deduct	-317.06	
			For >5,000, Deduct	-525.57	
33 01 30 72-0330	LF		42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,649.14	
			For Vinlyester Resin, Add	1,724.77	
			For Epoxy Resin, Add	203.28	
			For Up To >10, Add	1,787.55	
			For >10 To 25, Add	1,078.96	
			For >25 To 50, Add	770.58	
			For >50 To 100, Add	385.29	
			For >500 To 1,000, Deduct	-137.09	
			For >1,000 To 2,000, Deduct	-207.95	
			For >2,000 To 5,000, Deduct	-341.97	
			For >5,000, Deduct	-566.87	
33 01 30 72-0331	LF		42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,842.17	
			For Vinlyester Resin, Add	1,850.44	
			For Epoxy Resin, Add	218.09	
			For Up To >10, Add	1,917.81	
			For >10 To 25, Add	1,157.60	
			For >25 To 50, Add	826.73	
			For >50 To 100, Add	413.37	
			For >500 To 1,000, Deduct	-147.08	
			For >1,000 To 2,000, Deduct	-223.10	
			For >2,000 To 5,000, Deduct	-366.89	
			For >5,000, Deduct	-608.17	
33 01 30 72-0332	LF		42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,035.19	
			For Vinlyester Resin, Add	1,976.11	
			For Epoxy Resin, Add	232.90	
			For Up To >10, Add	2,048.05	
			For >10 To 25, Add	1,236.20	
			For >25 To 50, Add	882.87	
			For >50 To 100, Add	441.44	
			For >500 To 1,000, Deduct	-157.06	
			For >1,000 To 2,000, Deduct	-238.25	
			For >2,000 To 5,000, Deduct	-391.81	
			For >5,000, Deduct	-649.47	
33 01 30 72-0333	LF		42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,228.21	
			For Vinlyester Resin, Add	2,101.78	
			For Epoxy Resin, Add	247.71	
			For Up To >10, Add	2,178.28	
			For >10 To 25, Add	1,314.81	
			For >25 To 50, Add	939.01	
			For >50 To 100, Add	469.51	
			For >500 To 1,000, Deduct	-167.05	
			For >1,000 To 2,000, Deduct	-253.40	
			For >2,000 To 5,000, Deduct	-416.72	
			For >5,000, Deduct	-690.78	
33 01 30 72-0334	LF		42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,421.22	
			For Vinlyester Resin, Add	2,227.45	
			For Epoxy Resin, Add	262.52	
			For Up To >10, Add	2,308.49	
			For >10 To 25, Add	1,393.39	
			For >25 To 50, Add	995.14	
			For >50 To 100, Add	497.57	
			For >500 To 1,000, Deduct	-177.04	
			For >1,000 To 2,000, Deduct	-268.55	
			For >2,000 To 5,000, Deduct	-441.64	
			For >5,000, Deduct	-732.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,614.24	
For Vinlyester Resin, Add	2,353.12	
For Epoxy Resin, Add	277.33	
For Up To >10, Add	2,438.72	
For >10 To 25, Add	1,472.00	
For >25 To 50, Add	1,051.28	
For >50 To 100, Add	525.64	
For >500 To 1,000, Deduct	-187.03	
For >1,000 To 2,000, Deduct	-283.70	
For >2,000 To 5,000, Deduct	-466.55	
For >5,000, Deduct	-773.38	
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,807.28	
For Vinlyester Resin, Add	2,478.80	
For Epoxy Resin, Add	292.14	
For Up To >10, Add	2,568.99	
For >10 To 25, Add	1,550.64	
For >25 To 50, Add	1,107.44	
For >50 To 100, Add	553.72	
For >500 To 1,000, Deduct	-197.02	
For >1,000 To 2,000, Deduct	-298.85	
For >2,000 To 5,000, Deduct	-491.47	
For >5,000, Deduct	-814.68	
 33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	513.87	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic)	555.54	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic)	590.26	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic)	624.99	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic)	659.71	
 33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder	578.01	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder	661.13	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder	744.24	
 33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	626.82	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	675.61	
 33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner	709.04	
33 01 30 74-0018 EA 6" Lateral T-Liner	791.52	
33 01 30 74-0019 EA 8" Lateral T-Liner	917.29	
 33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP)	31.67	
For 7.5mm, Add	2.80	
For 9 mm, Add	5.54	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP)	36.89	
For 7.5mm, Add	3.82	
For 9 mm, Add	7.55	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP)	46.39	
For 7.5mm, Add	5.84	
For 9 mm, Add	11.56	
 33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)		
33 01 30 79-0001 Form and Fold Relining Underground Pipelines (33 01 30 79)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,042.84	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	2,017.14	
 33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	44.96	
For DR 26 Pipe Liner, Add	8.54	
For Up To 75, Add	23.05	
For >75 To 150, Add	11.52	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 2,000, Deduct	-1.62	
For >2,000, Deduct	-3.24	
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	58.02	
For DR 26 Pipe Liner, Add	11.60	
For DR 35 Pipe Liner, Deduct	-5.80	
For Up To 75, Add	26.72	
For >75 To 150, Add	13.36	
For >500 To 1,000, Deduct	-0.87	
For >1,000 To 2,000, Deduct	-1.74	
For >2,000, Deduct	-3.49	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	59.86	
For DR 26 Pipe Liner, Add	11.81	
For DR 35 Pipe Liner, Deduct	-5.91	
For Up To 75, Add	28.37	
For >75 To 150, Add	14.18	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 2,000, Deduct	-1.89	
For >2,000, Deduct	-3.78	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	84.64	
For DR 26 Pipe Liner, Add	17.72	
For DR 35 Pipe Liner, Deduct	-8.86	
For DR 41 Pipe Liner, Deduct	-17.72	
For Up To 75, Add	34.82	
For >75 To 150, Add	17.41	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.13	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	118.87	
For DR 26 Pipe Liner, Add	25.94	
For DR 35 Pipe Liner, Deduct	-12.97	
For DR 41 Pipe Liner, Deduct	-25.94	
For Up To 75, Add	43.44	
For >75 To 150, Add	21.72	
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 2,000, Deduct	-2.27	
For >2,000, Deduct	-4.54	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	163.24	
For DR 35 Pipe Liner, Deduct	-18.26	
For DR 41 Pipe Liner, Deduct	-36.51	
For Up To 75, Add	55.00	
For >75 To 150, Add	27.50	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000, Deduct	-5.16	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	231.16	
For DR 41 Pipe Liner, Deduct	-21.18	
For DR 50 Pipe Liner, Deduct	-42.35	
For Up To 75, Add	71.44	
For >75 To 150, Add	35.72	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,000, Deduct	-2.91	
For >2,000, Deduct	-5.82	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	261.56	
For DR 50 Pipe Liner, Deduct	-36.08	
For DR 55 Pipe Liner, Deduct	-60.14	
For Up To 75, Add	79.63	
For >75 To 150, Add	39.81	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-3.15	
For >2,000, Deduct	-6.30	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	319.31	
For DR 60 Pipe Liner, Deduct	-44.46	
For Up To 75, Add	93.66	
For >75 To 150, Add	46.83	
For >500 To 1,000, Deduct	-1.72	
For >1,000 To 2,000, Deduct	-3.44	
For >2,000, Deduct	-6.88	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	48.18	
For Up To 75, Add	23.69	
For >75 To 150, Add	11.84	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 2,000, Deduct	-1.62	
For >2,000, Deduct	-3.24	
For DR 26 Pipe Liner, Add	9.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	58.02	
For Up To 75, Add	26.72	
For >75 To 150, Add	13.36	
For >500 To 1,000, Deduct	-0.87	
For >1,000 To 2,000, Deduct	-1.74	
For >2,000, Deduct	-3.49	
For DR 26 Pipe Liner, Add	11.60	
For DR 35 Pipe Liner, Deduct	-5.80	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	64.16	
For Up To 75, Add	29.23	
For >75 To 150, Add	14.61	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 2,000, Deduct	-1.89	
For >2,000, Deduct	-3.78	
For DR 26 Pipe Liner, Add	12.89	
For DR 35 Pipe Liner, Deduct	-6.44	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	91.08	
For Up To 75, Add	36.10	
For >75 To 150, Add	18.05	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.13	
For DR 26 Pipe Liner, Add	19.33	
For DR 35 Pipe Liner, Deduct	-9.67	
For DR 41 Pipe Liner, Deduct	-19.33	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	128.53	
For Up To 75, Add	45.38	
For >75 To 150, Add	22.69	
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 2,000, Deduct	-2.27	
For >2,000, Deduct	-4.54	
For DR 26 Pipe Liner, Add	28.35	
For DR 35 Pipe Liner, Deduct	-14.18	
For DR 41 Pipe Liner, Deduct	-28.35	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	176.98	
For Up To 75, Add	57.74	
For >75 To 150, Add	28.87	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000, Deduct	-5.16	
For DR 35 Pipe Liner, Deduct	-19.97	
For DR 41 Pipe Liner, Deduct	-39.95	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	251.35	
For Up To 75, Add	75.48	
For >75 To 150, Add	37.74	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,000, Deduct	-2.91	
For >2,000, Deduct	-5.82	
For DR 41 Pipe Liner, Deduct	-23.20	
For DR 50 Pipe Liner, Deduct	-46.39	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	283.89	
For Up To 75, Add	84.09	
For >75 To 150, Add	42.05	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-3.15	
For >2,000, Deduct	-6.30	
For DR 50 Pipe Liner, Deduct	-39.43	
For DR 55 Pipe Liner, Deduct	-65.72	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	347.66	
For Up To 75, Add	99.33	
For >75 To 150, Add	49.66	
For >500 To 1,000, Deduct	-1.72	
For >1,000 To 2,000, Deduct	-3.44	
For >2,000, Deduct	-6.88	
For DR 60 Pipe Liner, Deduct	-48.71	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001	Restoration And Rehabilitation Of Manholes (33 01 30 81)	
	Note: Work is in confined spaces.	
33 01 30 81-0002	Inspection And Ventilation System Set-up (33 01 30 81-0001)	
33 01 30 81-0003	EA Inspect Manhole	166.78
33 01 30 81-0004	EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	12,161.86
	Note: For internal inspection and repair of water mains.	
33 01 30 81-0005	EA >60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	17,216.00
	Note: For internal inspection and repair of water mains	
33 01 30 81-0006	Manhole Seals (33 01 30 81-0001)	
33 01 30 81-0007	Internal Manhole Chimney Seals (33 01 30 81-0006)	
	Note: Cretex.	
33 01 30 81-0008	EA 20" Internal Manhole Chimney Seal.....	521.58
33 01 30 81-0009	EA 22" Internal Manhole Chimney Seal.....	549.77
33 01 30 81-0010	EA 24" Internal Manhole Chimney Seal.....	563.87

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	648.46	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	733.03	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	817.61	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	986.78	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006) Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation	761.22	
33 01 30 81-0017 EA 30" External Manhole Encapsulation	803.52	
33 01 30 81-0018 EA 36" External Manhole Encapsulation	859.90	
33 01 30 81-0019 EA 42" External Manhole Encapsulation	930.38	
33 01 30 81-0020 EA 48" External Manhole Encapsulation	1,029.06	
33 01 30 81-0021 EA 54" External Manhole Encapsulation	1,141.84	
33 01 30 81-0022 EA 60" External Manhole Encapsulation	1,282.80	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	49.49	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	66.63	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	46.72	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	63.34	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	15.58	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	36.19	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001) Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,052.05	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	227.18	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,395.44	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	252.55	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,736.06	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	277.91	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,231.22	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	290.59	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,725.02	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	303.28	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	129.95	20.22
33 01 30 81-0039 EA Drill And Grout Galvanized Steel Manhole Step	102.29	20.22
33 01 30 81-0040 EA Bolt On Galvanized Steel Manhole Step.....	125.70	20.22
33 01 30 81-0041 EA Drill And Grout Aluminum Manhole Step	111.25	20.22
33 01 30 81-0042 EA Drill And Insert Polypropylene Manhole Step.....	60.67	16.18
33 01 30 81-0043 Manhole Penetration Sealing (33 01 30 81-0001) Note: At new pipe connection to manhole.		
33 01 30 81-0044 EA 6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....	375.97	
33 01 30 81-0045 EA >12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....	582.06	
33 01 30 81-0046 EA >22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....	800.21	
33 01 30 81-0047 Invert Restoration (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0048 Concrete Invert Restoration (33 01 30 81-0047)		
33 01 30 81-0049 EA 2' Diameter, Concrete Invert Restoration.....	363.16	
33 01 30 81-0050 EA 3' Diameter, Concrete Invert Restoration	404.85	
33 01 30 81-0051 EA 4' Diameter, Concrete Invert Restoration.....	446.55	
33 01 30 81-0052 EA 5' Diameter, Concrete Invert Restoration.....	488.24	
33 01 30 81-0053 EA 6' Diameter, Concrete Invert Restoration.....	613.33	
33 01 30 81-0054 SF Square Or Rectangular, Concrete Invert Restoration	35.52	
33 01 30 81-0055 Brick Invert Restoration (33 01 30 81-0047)		
33 01 30 81-0056 EA 2' Diameter, Brick Invert Restoration	533.83	
33 01 30 81-0057 EA 3' Diameter, Brick Invert Restoration	575.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0058 EA 4' Diameter, Brick Invert Restoration	617.22	
33 01 30 81-0059 EA 5' Diameter, Brick Invert Restoration	658.91	
33 01 30 81-0060 EA 6' Diameter, Brick Invert Restoration	700.60	
33 01 30 81-0061 SF Square Or Rectangular, Brick Invert Restoration.....	48.81	
33 01 30 81-0062 Repair In-Kind Of Drainage Structures <small>(33 01 30 81)</small>		
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.		
33 01 30 81-0063 VLF 2' Diameter, Repair In-Kind Drainage Structure.....	664.83	
33 01 30 81-0064 VLF 3' Diameter, Repair In-Kind Drainage Structure.....	997.25	
33 01 30 81-0065 VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,329.76	
33 01 30 81-0066 VLF 5' Diameter, Repair In-Kind Drainage Structure.....	1,662.08	
33 01 30 81-0067 VLF 6' Diameter, Repair In-Kind Drainage Structure.....	1,994.51	
33 01 30 81-0068 VLF 2' x 2', Repair In-Kind Drainage Structure.....	846.92	
33 01 30 81-0069 VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,058.66	
33 01 30 81-0070 VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,270.39	
33 01 30 81-0071 VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,482.12	
33 01 30 81-0072 VLF 4' x 4', Repair In-Kind Drainage Structure.....	1,693.85	
33 01 30 81-0073 VLF 4' x 5', Repair In-Kind Drainage Structure.....	1,905.58	
33 01 30 81-0074 VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,117.31	
33 01 30 81-0075 VLF 4' x 8', Repair In-Kind Drainage Structure.....	2,540.77	
33 01 30 81-0076 VLF >32 GSF, Repair In-Kind Drainage Structure	2,964.23	
33 01 30 82 Epoxy Lining for Concrete Manholes <small>(33 01 30)</small>		
33 01 30 82-0001 Epoxy Manhole Restoration, Interior <small>(33 01 30 82)</small>		
33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	334.59	
For 80 Mil Material, Add	37.81	
For 100 Mil Material, Add	75.63	
For 125 Mil Material, Add	117.55	
For 150 Mil Material, Add	159.47	
For 200 Mil Material, Add	229.03	
For 2 To 5 Manholes, Deduct	-23.86	
For 6 To 10 Manholes, Deduct	-39.36	
For >10 Manholes, Deduct	-78.72	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	406.26	
For 80 Mil Material, Add	45.32	
For 100 Mil Material, Add	90.65	
For 125 Mil Material, Add	140.76	
For 150 Mil Material, Add	190.88	
For 200 Mil Material, Add	273.67	
For 2 To 5 Manholes, Deduct	-29.03	
For 6 To 10 Manholes, Deduct	-47.91	
For >10 Manholes, Deduct	-95.82	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	446.13	
For 80 Mil Material, Add	50.42	
For 100 Mil Material, Add	100.84	
For 125 Mil Material, Add	156.74	
For 150 Mil Material, Add	212.63	
For 200 Mil Material, Add	305.39	
For 2 To 5 Manholes, Deduct	-31.82	
For 6 To 10 Manholes, Deduct	-52.48	
For >10 Manholes, Deduct	-104.97	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	557.69	
For 80 Mil Material, Add	63.04	
For 100 Mil Material, Add	126.08	
For 125 Mil Material, Add	195.97	
For 150 Mil Material, Add	265.85	
For 200 Mil Material, Add	381.84	
For 2 To 5 Manholes, Deduct	-39.77	
For 6 To 10 Manholes, Deduct	-65.61	
For >10 Manholes, Deduct	-131.21	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	669.23	
For 80 Mil Material, Add	75.65	
For 100 Mil Material, Add	151.30	
For 125 Mil Material, Add	235.16	
For 150 Mil Material, Add	319.02	
For 200 Mil Material, Add	458.20	
For 2 To 5 Manholes, Deduct	-47.73	
For 6 To 10 Manholes, Deduct	-78.73	
For >10 Manholes, Deduct	-157.45	
33 01 30 83 Lining for Concrete Manholes <small>(33 01 30)</small>		
33 01 30 83-0001 Manhole Lining <small>(33 01 30 83)</small>		
Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002 Cementitious Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	154.85	
For Each Additional 1/2" Thick Material, Add	42.98	
For 2 To 5 Manholes, Deduct	-10.75	
For 6 To 10 Manholes, Deduct	-17.64	
For >10 Manholes, Deduct	-35.28	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior.....	179.61	
For Each Additional 1/2" Thick Material, Add	50.04	
For 2 To 5 Manholes, Deduct	-12.47	
For 6 To 10 Manholes, Deduct	-20.45	
For >10 Manholes, Deduct	-40.89	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	204.35	
For Each Additional 1/2" Thick Material, Add	57.10	
For 2 To 5 Manholes, Deduct	-14.18	
For 6 To 10 Manholes, Deduct	-23.25	
For >10 Manholes, Deduct	-46.50	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	241.46	
For Each Additional 1/2" Thick Material, Add	70.20	
For 2 To 5 Manholes, Deduct	-16.67	
For 6 To 10 Manholes, Deduct	-27.30	
For >10 Manholes, Deduct	-54.61	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	265.32	
For Each Additional 1/2" Thick Material, Add	81.53	
For 2 To 5 Manholes, Deduct	-18.18	
For 6 To 10 Manholes, Deduct	-29.73	
For >10 Manholes, Deduct	-59.46	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	302.56	
For 80 Mil Material, Add	27.14	
For 100 Mil Material, Add	54.28	
For 125 Mil Material, Add	82.85	
For 150 Mil Material, Add	111.42	
For 200 Mil Material, Add	154.30	
For 2 To 5 Manholes, Deduct	-22.26	
For 6 To 10 Manholes, Deduct	-36.96	
For >10 Manholes, Deduct	-73.92	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	368.84	
For 80 Mil Material, Add	32.85	
For 100 Mil Material, Add	65.70	
For 125 Mil Material, Add	100.22	
For 150 Mil Material, Add	134.75	
For 200 Mil Material, Add	186.36	
For 2 To 5 Manholes, Deduct	-27.16	
For 6 To 10 Manholes, Deduct	-45.10	
For >10 Manholes, Deduct	-90.20	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	403.42	
For 80 Mil Material, Add	36.19	
For 100 Mil Material, Add	72.37	
For 125 Mil Material, Add	110.47	
For 150 Mil Material, Add	148.57	
For 200 Mil Material, Add	205.74	
For 2 To 5 Manholes, Deduct	-29.68	
For 6 To 10 Manholes, Deduct	-49.28	
For >10 Manholes, Deduct	-98.56	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	504.25	
For 80 Mil Material, Add	45.23	
For 100 Mil Material, Add	90.46	
For 125 Mil Material, Add	138.07	
For 150 Mil Material, Add	185.69	
For 200 Mil Material, Add	257.15	
For 2 To 5 Manholes, Deduct	-37.10	
For 6 To 10 Manholes, Deduct	-61.60	
For >10 Manholes, Deduct	-123.19	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	605.11	
For 80 Mil Material, Add	54.27	
For 100 Mil Material, Add	108.55	
For 125 Mil Material, Add	165.69	
For 150 Mil Material, Add	222.84	
For 200 Mil Material, Add	308.59	
For 2 To 5 Manholes, Deduct	-44.52	
For 6 To 10 Manholes, Deduct	-73.92	
For >10 Manholes, Deduct	-147.84	
33 01 30 83-0014 Multiplexx™ PVC Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	478.90	
For 2 To 5 Manholes, Deduct	-28.20	
For 6 To 10 Manholes, Deduct	-44.43	
For >10 Manholes, Deduct	-88.86	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	586.42	
For 2 To 5 Manholes, Deduct	-34.52	
For 6 To 10 Manholes, Deduct	-54.38	
For >10 Manholes, Deduct	-108.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	688.71	
For 2 To 5 Manholes, Deduct	-40.11	
For 6 To 10 Manholes, Deduct	-63.00	
For >10 Manholes, Deduct	-126.00	
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	863.57	
For 2 To 5 Manholes, Deduct	-50.27	
For 6 To 10 Manholes, Deduct	-78.95	
For >10 Manholes, Deduct	-157.90	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	1,038.44	
For 2 To 5 Manholes, Deduct	-60.43	
For 6 To 10 Manholes, Deduct	-94.90	
For >10 Manholes, Deduct	-189.81	
 33 01 30 86 Manhole Rim Adjustment (33 01 30)		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	355.96	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	401.33	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	442.42	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	489.04	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	526.68	
33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009 EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	421.10	
33 01 30 86-0010 EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	459.41	
33 01 30 86-0011 EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	507.77	
33 01 30 86-0012 EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	554.37	
33 01 30 86-0013 EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	599.24	
33 01 30 86-0014 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0015 EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	587.35	
33 01 30 86-0016 EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	639.32	
33 01 30 86-0017 EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	692.09	
33 01 30 86-0018 EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	733.72	
33 01 30 86-0019 EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	797.96	
33 01 30 86-0020 EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	856.08	
33 01 30 86-0021 EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	912.86	
33 01 30 86-0022 EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	970.78	
33 01 30 86-0023 >12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0024 Precast Concrete Manhole Riser (33 01 30 86-0023)		
33 01 30 86-0025 VLF Up To 26" Diameter Precast Concrete Manhole Riser.....	126.07	
33 01 30 86-0026 VLF >26" To 36" Diameter Precast Concrete Manhole Riser	149.92	
33 01 30 86-0027 VLF >36" To 48" Diameter Precast Concrete Manhole Riser.....	167.83	
33 01 30 86-0028 VLF >48" To 60" Diameter Precast Concrete Manhole Riser.....	343.78	
33 01 30 86-0029 VLF >60" To 72" Diameter Precast Concrete Manhole Riser.....	503.32	
 33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)		
33 01 30 89-0001 Set-Up By-Pass Pumping Unit (33 01 30 89)		
Note: Excludes pump and hose rental. See CSI section 01 22 23 00-0954 for pump rental, 01 22 23 00-0987 for suction hose, 01 22 23 00-1006 for discharge hose.		
33 01 30 89-0002 EA Set-up By-Pass Pumping Unit	1,964.37	
33 01 30 89-0003 EA Re-Set Up/Move By-Pass Pumping Unit	982.18	
33 01 30 89-0004 By-Pass Pumping (33 01 30 89)		
Note: Excludes pump rental. See CSI section 01 22 23 00-0954 for pump rental.		
33 01 30 89-0005 DAY Maintain And Operate By-Pass Pumping Unit.....	491.09	
33 01 30 89-0006 WK Maintain And Operate By-Pass Pumping Unit.....	2,455.46	
33 01 30 89-0007 MO Maintain And Operate By-Pass Pumping Unit.....	10,312.93	
33 01 30 89-0008 Temporary Bypass And Service Lines (33 01 30 89)		
Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009 Temporary Water Service Lines (33 01 30 89-0008)		
Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0010 LF 1/2" Temporary Service Hose With Fittings	3.52	
Note: Includes removal after use.		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0011 LF 3/4" Temporary Service Hose With Fittings Note: Includes removal after use.	4.47	
33 01 30 89-0012 LF 1" Temporary Service Hose With Fittings Note: Includes removal after use.	5.19	
33 01 30 89-0013 LF 1-1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	6.20	
33 01 30 89-0014 LF 2" Temporary Service Hose With Fittings Note: Includes removal after use.	7.61	
33 01 30 89-0015 EA Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	389.02	
33 01 30 89-0016 Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017 LF 2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	7.81	
For >500 To 1,000, Deduct	-0.54	
For >1,000 To 5,000, Deduct	-1.08	
For >5,000, Deduct	-1.80	
33 01 30 89-0018 LF 4" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	9.89	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-2.32	
33 01 30 89-0019 LF 6" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	12.06	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 5,000, Deduct	-1.62	
For >5,000, Deduct	-2.70	
33 01 30 89-0020 LF 8" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	15.13	
For >500 To 1,000, Deduct	-0.97	
For >1,000 To 5,000, Deduct	-1.95	
For >5,000, Deduct	-3.24	
33 01 30 89-0021 Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	2.86	
33 01 30 89-0023 Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe.....	15.16	
33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)		
33 01 34 13 Septic Tank Solids Removal (33 01 34)		
33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)		
33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose.....	0.63	
33 05 Common Work Results for Utilities (33)		
33 05 07 Trenchless Installation of Utility Piping (33 05)		
33 05 07 13 Utility Directional Drilling (33 05 07)		
33 05 07 13-0001 Horizontal Augering (33 05 07 13) Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering	23.45	
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering	28.31	
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering	38.83	
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering	50.15	
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	89.70	
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	130.86	
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	157.25	
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	187.85	
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	325.05	
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	407.85	
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	503.05	
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	574.76	
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	743.27	
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	800.89	
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	871.01	
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	913.16	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge	3,799.24	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge.....	5,171.62	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge.....	7,587.72	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0021 Horizontal Directional Boring <small>(33 05 07 13)</small>		
Note: Excludes receiving pits or dewatering or cost of casing pipe.		
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	12.42	
For Horizontal Boring Through Rock, Add	8.99	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground	18.63	
For Horizontal Boring Through Rock, Add	13.04	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	25.88	
For Horizontal Boring Through Rock, Add	18.12	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground	32.09	
For Horizontal Boring Through Rock, Add	22.46	
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground	38.29	
For Horizontal Boring Through Rock, Add	26.80	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground	44.50	
For Horizontal Boring Through Rock, Add	31.15	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground	51.74	
For Horizontal Boring Through Rock, Add	36.22	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground	63.32	
For Horizontal Boring Through Rock, Add	44.32	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground	68.60	
For Horizontal Boring Through Rock, Add	48.02	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground	73.87	
For Horizontal Boring Through Rock, Add	51.71	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground	153.02	
For Horizontal Boring Through Rock, Add	107.11	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground	240.96	
For Horizontal Boring Through Rock, Add	168.67	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground	367.30	
For Horizontal Boring Through Rock, Add	257.11	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground	587.68	
For Horizontal Boring Through Rock, Add	411.38	
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	3,311.89	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	3,799.24	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	5,171.62	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23 Utility Boring and Jacking <small>(33 05 07)</small>		
33 05 07 23-0001 Horizontal Jacking <small>(33 05 07 23)</small>		
Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.		
33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking.....	58.89	
For Horizontal Jacking Through Rock, Add	28.53	
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking.....	70.62	
For Horizontal Jacking Through Rock, Add	34.43	
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking.....	95.47	
For Horizontal Jacking Through Rock, Add	47.21	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking.....	123.39	
For Horizontal Jacking Through Rock, Add	60.98	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking.....	167.24	
For Horizontal Jacking Through Rock, Add	83.59	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking.....	245.14	
For Horizontal Jacking Through Rock, Add	121.97	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking.....	295.10	
For Horizontal Jacking Through Rock, Add	146.55	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking.....	352.35	
For Horizontal Jacking Through Rock, Add	175.08	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking.....	551.24	
For Horizontal Jacking Through Rock, Add	303.92	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking.....	899.49	
For Horizontal Jacking Through Rock, Add	341.09	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking.....	1,046.86	
For Horizontal Jacking Through Rock, Add	421.17	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking.....	1,182.62	
For Horizontal Jacking Through Rock, Add	481.57	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking.....	1,270.55	
For Horizontal Jacking Through Rock, Add	520.04	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking.....	1,377.57	
For Horizontal Jacking Through Rock, Add	560.33	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking.....	1,472.85	
For Horizontal Jacking Through Rock, Add	609.82	

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge.....	3,311.89	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge.....	3,799.24	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge.....	5,171.62	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge.....	7,587.72	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)**33 05 07 24-0001****Casing Pipe (33 05 07 24)**

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002**Steel Pipe (33 05 07 24-0001)**

33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine.....	17.10	
Note: Includes pipe welding.		
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine.....	18.11	
Note: Includes pipe welding.		
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine.....	19.57	
Note: Includes pipe welding.		
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine.....	21.06	
Note: Includes pipe welding.		
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine.....	26.68	
Note: Includes pipe welding.		
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine.....	30.19	
Note: Includes pipe welding.		
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine.....	33.70	
Note: Includes pipe welding.		

33 05 07 24-0010**Polyethylene Pipe (33 05 07 24-0001)**

33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine.....	6.59	
Note: Includes pipe welding.		
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine.....	7.18	
Note: Includes pipe welding.		
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....	7.78	
Note: Includes pipe welding.		
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	8.32	
Note: Includes pipe welding.		
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine.....	8.90	
Note: Includes pipe welding.		
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	9.55	
Note: Includes pipe welding.		
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine.....	10.23	
Note: Includes pipe welding.		
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine.....	12.60	
Note: Includes pipe welding.		
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine.....	14.06	
Note: Includes pipe welding.		
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine.....	15.52	
Note: Includes pipe welding.		
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine.....	20.57	
Note: Includes pipe welding.		
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine.....	28.51	
Note: Includes pipe welding.		

33 05 09 Piping Specials for Utilities (33 05)**33 05 09 23****Adapters for Utility Piping (33 05 09)**

See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33**Thrust Restraint for Utility Piping (33 05 09)**

See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses.

33 05 16**Cast-Iron Utility Pipe (33 05)**

See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17**Copper Utility Pipe and Tubing (33 05)**

See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19**Ductile-Iron Utility Pipe (33 05)**

See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24**Steel Utility Pipe (33 05)****33 05 24 23****Steel Pipe for Water Service (33 05 24)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.

33 05 27	Corrugated Metal Utility Pipe <small>(33 05)</small>		
33 05 27 13	Corrugated Metal Culvert Pipe <small>(33 05 27)</small>		
	See CSI section 33 42 11 00-0455 for corrugated metal culvert pipe.		
33 05 27 23	Corrugated Metal Slotted Pipe <small>(33 05 27)</small>		
	See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.		
33 05 27 33	Corrugated Metal Culvert Arch Pipe <small>(33 05 27)</small>		
	See CSI section 33 42 11 00-0799 for corrugated metal culvert arch pipe.		
33 05 31	Thermoplastic Utility Pipe <small>(33 05)</small>		
33 05 31 11	Polyvinyl Chloride Gravity Sewer Pipe <small>(33 05 31)</small>		
	See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
33 05 31 13	Polyvinyl Chloride Pressure Pipe <small>(33 05 31)</small>		
	See CSI section 33 14 13 23-0256 for polyvinyl chloride pressure pipe.		
33 05 31 16	Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) <small>(33 05 31)</small>		
	See CSI section 33 14 13 23-0001 for AWWA C900 and 905 polyvinyl chloride pressure pipe.		
33 05 33	Polyethylene Utility Pipe <small>(33 05)</small>		
33 05 33 13	Corrugated-Wall, Smooth Interior HDPE Gravity Pipe <small>(33 05 33)</small>		
	See CSI section 33 42 11 00-0227 for corrugated-wall smooth interior HDPE gravity pipe.		
33 05 33 23	Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) <small>(33 05 33)</small>		
	See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.		
33 05 33 33	Corrugated, Perforated HDPE Drainage Pipe <small>(33 05 33)</small>		
	See CSI section 33 42 11 00-0249 for corrugated perforated HDPE drainage pipe.		
33 05 33 36	Corrugated, Non-Perforated HDPE Drainage Pipe <small>(33 05 33)</small>		
	See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.		
33 05 33 53	HDPE Gas Utility Pipe <small>(33 05 33)</small>		
	See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.		
33 05 33 56	Medium-Density Polyethylene Gas Utility Pipe <small>(33 05 33)</small>		
	See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.		
33 05 33 63	HDPE Communication Duct <small>(33 05 33)</small>		
33 05 33 63-0001	ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine <small>(33 05 33 63)</small>		
	Note: Excludes boring.		
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.26	
	For Up To 250, Add	0.10	
	For >250 To 500, Add	0.07	
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.66	
	For Up To 250, Add	0.12	
	For >250 To 500, Add	0.08	
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.96	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.35	
	For Up To 250, Add	0.16	
	For >250 To 500, Add	0.11	
33 05 33 63-0006	LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.79	
	For Up To 250, Add	0.34	
	For >250 To 500, Add	0.23	
33 05 33 63-0007	LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.29	
	For Up To 250, Add	0.52	
	For >250 To 500, Add	0.35	
33 05 33 63-0008	LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.33	
	For Up To 250, Add	0.11	
	For >250 To 500, Add	0.07	
33 05 33 63-0009	LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.79	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	
33 05 33 63-0010	LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.06	
	For Up To 250, Add	0.15	
	For >250 To 500, Add	0.10	

33 Utilities**33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0011 LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.61	
For Up To 250, Add	0.20	
For >250 To 500, Add	0.14	
33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	6.37	
For Up To 250, Add	0.43	
For >250 To 500, Add	0.29	
33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.02	
For Up To 250, Add	0.63	
For >250 To 500, Add	0.42	
33 05 39 Concrete Pipe <small>(33 05)</small>		
33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) <small>(33 05 39)</small>		
See CSI section 33 42 11 00-0080 for prestressed concrete pressure pipe.		
33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts <small>(33 05 39)</small>		
See CSI section 33 42 11 00-0001 for reinforced concrete pipe.		
33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts <small>(33 05 39)</small>		
See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.		
33 05 41 Vitrified Clay Utility Pipe <small>(33 05)</small>		
See CSI section 33 42 11 00-0353 for vitrified clay piping.		
33 05 61 Concrete Manholes <small>(33 05)</small>		
33 05 61 00-0001 Manholes <small>(33 05 61)</small>		
33 05 61 00-0002 Precast Concrete Manholes <small>(33 05 61 00-0001)</small>		
Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover. See CSI section 33 05 84 00-0002 for top slabs.		
33 05 61 00-0003 3' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,415.45	262.94
For Bitumastic Coating, Add	63.84	
For Epoxy Coating, Add	122.00	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....	1,931.10	377.67
For Bitumastic Coating, Add	95.76	
For Epoxy Coating, Add	182.99	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....	2,609.29	573.68
For Bitumastic Coating, Add	127.68	
For Epoxy Coating, Add	243.99	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole.....	276.95	66.92
Note: For depths greater than 8'. For Bitumastic Coating, Add	15.96	
For Epoxy Coating, Add	30.50	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....	297.94	66.92
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole.....	472.62	66.92
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	378.81	66.92
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole.....	538.59	66.92
33 05 61 00-0012 4' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole.....	1,915.10	301.18
For Bitumastic Coating, Add	63.84	
For Epoxy Coating, Add	122.00	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole.....	2,558.45	411.13
For Bitumastic Coating, Add	95.76	
For Epoxy Coating, Add	182.99	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole.....	3,393.80	621.49
For Bitumastic Coating, Add	127.68	
For Epoxy Coating, Add	243.99	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole.....	365.89	78.88
Note: For depths greater than 8'. For Bitumastic Coating, Add	15.96	
For Epoxy Coating, Add	30.50	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole.....	396.77	78.88
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole.....	653.75	78.88
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole.....	515.75	78.88
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole.....	750.82	78.88
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole.....	3,545.08	334.64
For Bitumastic Coating, Add	82.26	
For Epoxy Coating, Add	196.67	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole.....	4,723.84	458.94
For Bitumastic Coating, Add	123.38	
For Epoxy Coating, Add	295.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole.....	6,115.43	688.41
<i>For Bitumastic Coating, Add</i>	164.51	
<i>For Epoxy Coating, Add</i>	393.34	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole.....	638.70	86.05
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	20.56	
<i>For Epoxy Coating, Add</i>	49.17	
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole.....	4,739.45	372.89
<i>For Bitumastic Coating, Add</i>	94.17	
<i>For Epoxy Coating, Add</i>	230.25	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole.....	6,178.33	506.75
<i>For Bitumastic Coating, Add</i>	141.26	
<i>For Epoxy Coating, Add</i>	345.37	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole.....	7,855.50	764.90
<i>For Bitumastic Coating, Add</i>	188.34	
<i>For Epoxy Coating, Add</i>	460.50	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole.....	773.84	95.61
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	23.54	
<i>For Epoxy Coating, Add</i>	57.56	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole.....	7,432.96	411.13
<i>For Bitumastic Coating, Add</i>	200.26	
<i>For Epoxy Coating, Add</i>	402.34	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole.....	9,618.34	560.77
<i>For Bitumastic Coating, Add</i>	300.38	
<i>For Epoxy Coating, Add</i>	603.51	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole.....	12,065.69	841.40
<i>For Bitumastic Coating, Add</i>	400.51	
<i>For Epoxy Coating, Add</i>	804.68	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole.....	1,153.40	105.17
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	50.06	
<i>For Epoxy Coating, Add</i>	100.59	
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole.....	10,730.15	473.28
<i>For Bitumastic Coating, Add</i>	236.75	
<i>For Epoxy Coating, Add</i>	490.42	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole.....	13,920.15	645.38
<i>For Bitumastic Coating, Add</i>	355.12	
<i>For Epoxy Coating, Add</i>	735.63	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole.....	17,411.35	968.08
<i>For Bitumastic Coating, Add</i>	473.49	
<i>For Epoxy Coating, Add</i>	980.84	
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole.....	1,661.93	119.52
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	59.19	
<i>For Epoxy Coating, Add</i>	122.60	
33 05 63 Concrete Vaults and Chambers <small>(33 05)</small>		
33 05 63 00-0001 Underground Utility Vaults And Structures <small>(33 05 63)</small>		
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
33 05 63 00-0002 Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small>		
Note: Sizes given are for inside dimensions.		
33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0004 EA 4' x 4' x 6' Precast Concrete Underground Utility Vault.....	2,981.94	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0005 EA 4' x 6' x 6' Precast Concrete Underground Utility Vault.....	3,886.99	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0006 EA 5' x 10' x 6' Precast Concrete Underground Utility Vault.....	6,412.64	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0007 EA 5' x 12' x 6' Precast Concrete Underground Utility Vault.....	7,404.42	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0008 EA 6' x 6' x 6' Precast Concrete Underground Utility Vault.....	4,967.39	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0009 EA 6' x 8' x 6' Precast Concrete Underground Utility Vault.....	6,046.81	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0010 EA 6' x 10' x 6' Precast Concrete Underground Utility Vault.....	7,127.23	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0011 EA 6' x 12' x 6' Precast Concrete Underground Utility Vault.....	10,297.48	
Note: 8" thick walls and top.		
33 05 63 00-0012 EA 6' x 14' x 6' Precast Concrete Underground Utility Vault.....	10,297.48	
Note: 8" thick walls and top.		

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0013 EA 6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,966.15	
33 05 63 00-0014 EA 8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,302.60	
33 05 63 00-0015 EA 8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,557.41	
33 05 63 00-0016 EA 8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,232.09	
33 05 63 00-0017 EA 8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,767.18	
33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0019 EA 4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,383.21	
33 05 63 00-0020 EA 4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,691.50	
33 05 63 00-0021 EA 4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,242.39	
33 05 63 00-0022 EA 5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,975.61	
33 05 63 00-0023 EA 5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,043.07	
33 05 63 00-0024 EA 6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,233.85	
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,572.92	
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,318.57	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,198.19	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,067.14	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,903.39	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,232.96	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,233.50	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,867.20	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,433.05	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,582.74	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,638.23	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,538.56	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,680.77	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,868.12	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,098.02	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,327.92	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,098.90	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,168.18	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,503.25	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,908.49	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,233.88	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,968.24	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,434.15	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,318.50	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,623.12	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,434.47	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0053				12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
	33 05 63 00-0054	EA		6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,768.86	
	33 05 63 00-0055	EA		6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,149.20	
33 05 63 00-0056				Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057				Precast Concrete Meter Pit (33 05 63 00-0056)		
	33 05 63 00-0058	EA		4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,933.76	
	33 05 63 00-0059	EA		4' x 4' x 6' Deep Precast Concrete Meter Pit.....	3,974.73	
	33 05 63 00-0060	EA		4' x 4' x 8' Deep Precast Concrete Meter Pit.....	4,985.56	
	33 05 63 00-0061	EA		4' x 4' x 10' Deep Precast Concrete Meter Pit.....	6,174.24	
	33 05 63 00-0062	EA		4' x 4' x 15' Deep Precast Concrete Meter Pit.....	8,524.03	
	33 05 63 00-0063	EA		6' x 6' x 4' Deep Precast Concrete Meter Pit.....	4,445.60	
	33 05 63 00-0064	EA		6' x 6' x 6' Deep Precast Concrete Meter Pit.....	6,174.24	
	33 05 63 00-0065	EA		6' x 6' x 8' Deep Precast Concrete Meter Pit.....	7,950.46	
	33 05 63 00-0066	EA		6' x 6' x 10' Deep Precast Concrete Meter Pit.....	9,918.65	
	33 05 63 00-0067	EA		6' x 6' x 15' Deep Precast Concrete Meter Pit.....	14,086.09	
33 05 63 00-0068				Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069				Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070				Polymer Concrete Handhole Enclosures (33 05 63 00-0069)		
33 05 63 00-0071				Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072				Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
	33 05 63 00-0073	EA		12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	277.51	21.30
	33 05 63 00-0074	EA		10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	242.00	47.31
	33 05 63 00-0075	EA		13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	369.38	70.96
	33 05 63 00-0076	EA		17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	428.40	70.96
	33 05 63 00-0077	EA		13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	408.90	70.96
	33 05 63 00-0078	EA		13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	494.02	70.96
	33 05 63 00-0079	EA		17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	481.18	70.96
	33 05 63 00-0080	EA		17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	653.55	70.96
	33 05 63 00-0081	EA		27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	927.75	94.62
	33 05 63 00-0082	EA		27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,298.72	94.62
	33 05 63 00-0083	EA		24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	845.94	130.10
	33 05 63 00-0084	EA		24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	962.11	130.10
	33 05 63 00-0085	EA		24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,566.44	130.10
	33 05 63 00-0086	EA		39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	903.60	141.92
	33 05 63 00-0087	EA		39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,284.13	141.92
	33 05 63 00-0088	EA		39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,595.31	141.92
	33 05 63 00-0089	EA		39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,331.32	141.92
	33 05 63 00-0090	EA		30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,310.13	220.50
	33 05 63 00-0091	EA		30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,882.85	220.50
33 05 63 00-0092				Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
	33 05 63 00-0093	EA		12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	354.62	21.30
	33 05 63 00-0094	EA		13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	461.21	70.96
	33 05 63 00-0095	EA		17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	556.22	70.96
	33 05 63 00-0096	EA		13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	513.69	70.96

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	586.45	70.96
33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	605.53	70.96
33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	778.97	70.96
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,041.23	130.10
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,157.40	130.10
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,761.75	130.10
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,538.34	220.50
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,115.41	220.50
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	453.85	21.30
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	384.06	21.30
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	317.87	70.96
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	359.05	70.96
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	108.38	21.30
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	166.74	21.30
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	268.03	21.30
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	280.29	21.30
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	237.72	47.31
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	256.52	47.31
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	164.23	21.30
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	187.20	21.30
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	254.57	47.31
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	286.18	47.31
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	265.72	47.31
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	319.79	70.96
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	350.79	70.96
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	373.85	70.96
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	408.58	70.96
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	477.84	70.96
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	519.85	70.96
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	565.82	70.96
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	594.73	70.96
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	709.85	94.62
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	720.09	130.10
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	921.43	130.10
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,107.33	130.10
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,224.73	130.10
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,341.51	130.10
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,533.57	220.50
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,122.00	220.50
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,271.11	220.50
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,556.24	220.50
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,553.31	220.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,659.75	220.50
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,864.44	220.50
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,717.96	236.25
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,862.48	236.25
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,046.99	236.25
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,120.81	236.25
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,146.47	236.25
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,427.61	236.25
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,881.63	236.25
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,474.00	236.25
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,783.42	252.00
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,427.94	252.00
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,388.47	252.00
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.79	70.96
33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	485.88	70.96
33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	181.60	21.30
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	261.36	21.30
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	349.53	21.30
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	361.81	21.30
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	318.00	47.31
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.09	47.31
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.58	47.31
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	244.07	21.30
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	287.98	21.30
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.16	47.31
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	379.77	47.31
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	360.31	47.31
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.20	70.96
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	455.59	70.96
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	498.45	70.96
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	532.96	70.96
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	602.01	70.96
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	644.20	70.96
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	689.98	70.96
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	719.08	70.96
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	881.63	94.62
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	915.40	130.10
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,116.49	130.10
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,302.19	130.10
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,419.41	130.10

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,536.58	130.10
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,348.05	220.50
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,497.38	220.50
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,782.29	220.50
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	390.65	70.96
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	453.43	70.96
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	134.92	21.30
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	220.38	21.30
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	315.43	21.30
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	327.93	21.30
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	295.55	47.31
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.94	47.31
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	193.17	21.30
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	313.43	47.31
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	358.76	47.31
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	325.21	47.31
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	419.39	70.96
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	481.36	70.96
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	501.97	70.96
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	551.04	70.96
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	596.18	70.96
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	638.80	70.96
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	715.12	70.96
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	725.76	70.96
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	894.94	94.62
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	932.65	130.10
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,154.74	130.10
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,374.38	130.10
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,520.27	130.10
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,666.15	130.10
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,805.37	220.50
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,393.82	220.50
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,554.56	220.50
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,839.49	220.50
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,965.18	220.50
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,004.53	220.50
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,386.33	220.50
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,217.59	236.25
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,292.27	236.25
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,504.09	236.25
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,664.41	236.25
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,450.11	236.25
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,023.48	236.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,628.63	236.25
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,885.89	236.25
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,491.05	252.00
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,135.83	252.00
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,566.70	252.00
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	497.55	70.96
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	580.50	70.96
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	207.55	21.30
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	314.82	21.30
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	396.76	21.30
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	409.42	21.30
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	389.14	47.31
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	425.30	47.31
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	296.96	21.30
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	406.59	47.31
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	451.92	47.31
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	393.08	47.31
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	524.22	70.96
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	586.19	70.96
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	626.32	70.96
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	675.41	70.96
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	720.54	70.96
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	763.18	70.96
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	839.51	70.96
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	850.11	70.96
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,066.50	94.62
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,127.94	130.10
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,349.83	130.10
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,569.23	130.10
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,715.22	130.10
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,861.22	130.10
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,620.08	220.50
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,781.04	220.50
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,065.77	220.50
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	416.71	70.96
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	281.39	47.31
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	316.34	47.31
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	371.35	70.96
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	292.84	47.31
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	326.31	47.31



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0268	Polymer Concrete Handhole Enclosure Extensions <small>(33 05 63 00-0069)</small>					
	33 05 63 00-0269	EA		13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	306.28	70.96
	33 05 63 00-0270	EA		17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	342.70	70.96
	33 05 63 00-0271	EA		24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	394.59	94.62
	33 05 63 00-0272	EA		24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	430.35	94.62
	33 05 63 00-0273	EA		24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	511.55	130.10
	33 05 63 00-0274	EA		36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	909.86	220.50
	33 05 63 00-0275	EA		30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	870.76	220.50
	33 05 63 00-0276	EA		30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	879.30	220.50
	33 05 63 00-0277	EA		36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,177.78	236.25
	33 05 63 00-0278	EA		48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,852.64	252.00
	33 05 63 00-0279	EA		48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,420.58	252.00
	33 05 63 00-0280	EA		13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	497.40	70.96
	33 05 63 00-0281	EA		17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	519.65	70.96
	33 05 63 00-0282	EA		24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	557.62	94.62
	33 05 63 00-0283	EA		24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	593.77	94.62
	33 05 63 00-0284	EA		24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	690.36	130.10
	33 05 63 00-0285	EA		30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,123.45	220.50
	33 05 63 00-0286	EA		13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	388.62	70.96
	33 05 63 00-0287	EA		17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	432.51	70.96
	33 05 63 00-0288	EA		24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	574.52	130.10
	33 05 63 00-0289	EA		36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	1,135.91	236.25
33 05 63 00-0290	Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0069)</small>					
33 05 63 00-0291	Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0290)</small>					
	33 05 63 00-0292	EA		5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	107.65	9.47
	33 05 63 00-0293	EA		10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	109.06	9.47
	33 05 63 00-0294	EA		12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	101.04	9.47
	33 05 63 00-0295	EA		8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	109.33	9.47
	33 05 63 00-0296	EA		11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	110.39	9.46
	33 05 63 00-0297	EA		13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	126.72	9.46
	33 05 63 00-0298	EA		17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	146.93	9.46
	33 05 63 00-0299	EA		30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	966.75	28.35
	33 05 63 00-0300	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	846.28	28.35
	33 05 63 00-0301	EA		36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,265.87	28.35
	33 05 63 00-0302	EA		48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,280.18	28.35
	33 05 63 00-0303	EA		36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,449.95	28.35
	33 05 63 00-0304	EA		48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,579.63	28.35
	33 05 63 00-0305	EA		48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,537.08	28.35
	33 05 63 00-0306	EA		10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	92.12	9.46
	33 05 63 00-0307	EA		11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	132.22	9.46
	33 05 63 00-0308	EA		11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	134.08	9.46
	33 05 63 00-0309	EA		13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	168.83	9.46
	33 05 63 00-0310	EA		13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	127.24	9.46
	33 05 63 00-0311	EA		17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	199.81	9.46
	33 05 63 00-0312	EA		17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	156.77	9.46
	33 05 63 00-0313	EA		27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	322.27	9.46
	33 05 63 00-0314	EA		24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	282.05	14.19
	33 05 63 00-0315	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	353.69	14.19
	33 05 63 00-0316	EA		39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	455.96	16.56
	33 05 63 00-0317	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	641.30	22.05
	33 05 63 00-0318	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	666.52	42.00
	33 05 63 00-0319	EA		11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	170.91	9.46
	33 05 63 00-0320	EA		13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	243.91	9.46
	33 05 63 00-0321	EA		17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	277.60	9.46
	33 05 63 00-0322	EA		27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	461.94	9.46
	33 05 63 00-0323	EA		24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	380.53	14.19
	33 05 63 00-0324	EA		39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	643.53	16.56
	33 05 63 00-0325	EA		36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	844.48	22.05



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover and 33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets.

33 Utilities
33 05 Common Work Results for Utilities
33 05 63 Concrete Vaults and Chambers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0400	EA		18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	134.72	9.46
33 05 63 00-0401	EA		17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	191.08	9.46
33 05 63 00-0402	EA		24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	276.40	14.19
33 05 63 00-0403	EA		20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	345.30	14.19
33 05 63 00-0404	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	341.21	14.19
33 05 63 00-0405	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	615.72	22.05
33 05 63 00-0406	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	638.46	25.20
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)					
33 05 63 00-0408	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	995.47	28.35
33 05 63 00-0409	EA		36" x 36", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,440.05	28.35
33 05 63 00-0410	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	835.37	42.00
33 05 63 00-0411	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,106.77	42.00
33 05 63 00-0412	EA		30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,182.15	28.35
33 05 63 00-0413	EA		36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,610.03	28.35
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)					
33 05 63 00-0415	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	387.53	14.19
33 05 63 00-0416	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	721.38	22.05
33 05 63 00-0417	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	754.50	42.00
33 05 63 00-0418	EA		6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	62.62	9.47
33 05 63 00-0419	EA		8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	103.58	9.47
33 05 63 00-0420	EA		12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	113.94	9.47
33 05 63 00-0421	EA		8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	120.80	9.47
33 05 63 00-0422	EA		10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	106.02	9.46
33 05 63 00-0423	EA		11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	186.50	9.46
33 05 63 00-0424	EA		24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	519.11	14.19
33 05 63 00-0425	EA		36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	958.68	22.05
33 05 63 00-0426	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	1,004.89	42.00
33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)					
			Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428	EA		12" x 12" x 12" Precast Concrete Handholes With Steel Cover.....	702.02	229.57
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429	EA		12" x 24" x 21" Precast Concrete Handholes With Steel Cover.....	1,152.08	344.35
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	103.20	
33 05 63 00-0430	EA		18" x 30" x 18" Precast Concrete Handholes With Steel Cover.....	1,424.48	459.14
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	179.78	
33 05 63 00-0431	EA		24" x 24" x 24" Precast Concrete Handholes With Steel Cover.....	1,467.70	459.14
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	226.57	
33 05 63 00-0432	EA		24" x 24" x 30" Precast Concrete Handholes With Steel Cover.....	1,748.30	573.92
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	272.30	
33 05 63 00-0433	EA		30" x 36" x 30" Precast Concrete Handholes With Steel Cover.....	1,820.61	573.92
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	300.73	
33 05 63 00-0434	EA		36" x 36" x 48" Precast Concrete Handholes With Steel Cover.....	2,120.96	688.71
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	350.89	
33 05 63 00-0435	EA		48" x 48" x 48" Precast Concrete Handholes With Steel Cover.....	2,443.69	803.50
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	494.42	
33 05 63 00-0436	EA		48" x 72" x 36" Precast Concrete Handholes With Steel Cover.....	2,334.05	688.71
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	540.21	
33 05 63 00-0437	EA		54" x 38" x 24" Precast Concrete Handholes With Steel Cover.....	2,352.38	688.71
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	370.01	
33 05 63 00-0438	EA		6" Diameter Precast Concrete Handholes With Steel Cover.....	584.76	229.57
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0439	EA		9" Diameter Precast Concrete Handholes With Steel Cover.....	680.77	258.27
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0440	EA		12" Diameter Precast Concrete Handholes With Steel Cover.....	815.37	286.96
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 81 Metallic Castings for Utility Structures (33 05)					
33 05 81 00-0001 Manhole Accessories (33 05 81)					
33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)					
			See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 81 00-0003	EA		Cast Iron Manhole Step For New Manholes.....	85.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0004 EA Galvanized Steel Manhole Step For New Manholes.....	58.14	
33 05 81 00-0005 EA Aluminum Manhole Step For New Manholes.....	67.10	
33 05 81 00-0006 Manhole Covers And Frames <small>(33 05 81)</small>		
Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 81 00-0007 Regular Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame	1,082.49	82.23
For Ductile Iron Castings, Add	583.73	
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame	653.36	82.23
For Ductile Iron Castings, Add	283.34	
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame	754.85	95.61
For Ductile Iron Castings, Add	327.60	
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame	1,131.87	106.13
For Ductile Iron Castings, Add	569.21	
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame	990.66	114.74
For Ductile Iron Castings, Add	451.56	
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame	1,032.71	119.52
For Ductile Iron Castings, Add	471.92	
33 05 81 00-0014 Watertight Type Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0015 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,191.05	67.88
For Ductile Iron Castings, Add	644.59	
33 05 81 00-0016 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,216.31	67.88
For Ductile Iron Castings, Add	646.70	
33 05 81 00-0017 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,248.66	79.36
For Ductile Iron Castings, Add	650.97	
33 05 81 00-0018 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,473.28	88.92
For Ductile Iron Castings, Add	789.40	
33 05 81 00-0019 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,689.82	90.83
For Ductile Iron Castings, Add	931.90	
33 05 81 00-0020 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,772.87	92.74
For Ductile Iron Castings, Add	986.75	
33 05 81 00-0021 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,847.55	95.61
For Ductile Iron Castings, Add	1,035.61	
33 05 81 00-0022 Aluminum Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0023 EA 12" Square Aluminum Manhole Cover With Frame	765.36	29.25
33 05 81 00-0024 EA 18" Square Aluminum Manhole Cover With Frame	1,377.88	32.38
33 05 81 00-0025 EA 24" Square Aluminum Manhole Cover With Frame	1,966.08	37.60
33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame <small>(33 05 81 00-0006)</small>		
Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0027 EA Removal And Reinstallation Of Manhole Cover And Frame	383.35	
33 05 83 Non-Metallic Accessories for Utility Structures <small>(33 05)</small>		
33 05 83 00-0001 Manhole Accessories <small>(33 05 83)</small>		
33 05 83 00-0002 Steps For Cast-In-Place Manholes <small>(33 05 83 00-0001)</small>		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	45.19	
33 05 83 00-0004 Rainguard Inflow Protectors <small>(33 05 83)</small>		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	119.34	20.22
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	138.18	20.22
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	165.22	24.27
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	177.13	24.27
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	219.83	28.31
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	234.46	28.31
33 05 84 Accessories for Utility Structures <small>(33 05)</small>		
See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 05 84 00-0001 Manhole Accessories <small>(33 05 84)</small>		
33 05 84 00-0002 Precast Concrete Manhole Tops <small>(33 05 84 00-0001)</small>		
33 05 84 00-0003 Precast Concrete Manhole Slab Tops <small>(33 05 84 00-0002)</small>		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	552.35	71.71
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	782.57	77.45
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	1,068.81	83.18
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,284.44	88.92

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0008	Precast Concrete Manhole Cone Tops (33 05 84 00-0002)	
33 05 84 00-0009 EA 3' Diameter x 8" Thick Precast Manhole Top Cone.....	889.59	89.64
33 05 84 00-0010 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone.....	992.42	93.23
33 05 84 00-0011 EA 4' Diameter x 8" Thick Precast Manhole Top Cone.....	1,095.30	96.80
33 05 84 00-0012 EA 5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,296.18	102.79
33 05 84 00-0013 EA 6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,501.89	109.95
33 05 84 00-0014 EA 7' Diameter x 8" Thick Precast Manhole Top Cone.....	2,405.46	117.12
33 05 84 00-0015 EA 8' Diameter x 10" Thick Precast Manhole Top Cone.....	3,029.09	129.08
33 05 84 00-0016	Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)	
33 05 84 00-0017 EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,033.09	83.18
33 05 84 00-0018 EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,324.35	88.92
33 05 84 00-0019 EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,738.93	88.92
33 05 84 00-0020 EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	2,735.05	88.92
33 05 84 00-0021 EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	3,510.01	88.92
33 05 84 00-0022 EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	5,070.55	88.92
33 05 84 00-0023	Pipe To Manhole Connector (33 05 84 00-0001)	
33 05 84 00-0024	Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0023)	
33 05 84 00-0025 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	110.06	
33 05 84 00-0026 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	164.54	
33 05 84 00-0027 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	185.37	
33 05 84 00-0028 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	284.25	
33 05 84 00-0029 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	398.83	
33 05 84 00-0030 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	526.40	
33 05 84 00-0031 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	957.20	
33 05 84 00-0032 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,331.49	
33 05 84 00-0033 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,110.96	
33 05 84 00-0034 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,482.34	
33 05 84 00-0035	Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0023)	
Note: Fernco CMA.		
33 05 84 00-0036 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	97.77	
33 05 84 00-0037 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	135.59	
33 05 84 00-0038 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	171.26	
33 05 84 00-0039 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	206.77	
33 05 84 00-0040 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	239.91	
33 05 84 00-0041	Brick And Grout Pipe To Manhole Connector (33 05 84 00-0023)	
33 05 84 00-0042 EA Seal Gap Between Pipe And Structure With Brick And Grout.....	264.31	
33 05 84 00-0043	Inverts For Manholes (33 05 84 00-0001)	
33 05 84 00-0044 EA Single Channel Concrete Invert For Manholes.....	453.79	
33 05 84 00-0045 EA Double Channel Concrete Invert For Manholes.....	650.16	
33 05 84 00-0046 EA Triple Channel Concrete Invert For Manholes.....	877.15	
33 05 84 00-0047 EA Quad Channel Concrete Invert For Manholes.....	1,104.07	
33 05 84 00-0048 EA Single Channel Brick Invert For Manholes.....	618.60	
33 05 84 00-0049 EA Double Channel Brick Invert For Manholes.....	926.26	
33 05 84 00-0050 EA Triple Channel Brick Invert For Manholes.....	1,239.27	
33 05 84 00-0051 EA Quad Channel Brick Invert For Manholes.....	1,548.51	
33 05 84 00-0052	Protective Coating For New Manholes (33 05 84 00-0001)	
33 05 84 00-0053	Polyurethane Protective Coating For New Manholes (33 05 84 00-0052)	
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	191.91	
For 80 Mil Material, Add	27.11	
For 100 Mil Material, Add	54.23	
For 125 Mil Material, Add	85.44	
For 150 Mil Material, Add	116.66	
For 200 Mil Material, Add	171.96	
For 2 To 5 Manholes, Deduct	-13.16	
For 6 To 10 Manholes, Deduct	-21.53	
For >10 Manholes, Deduct	-43.05	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	231.88	
For 80 Mil Material, Add	32.24	
For 100 Mil Material, Add	64.49	
For 125 Mil Material, Add	101.53	
For 150 Mil Material, Add	138.56	
For 200 Mil Material, Add	203.92	
For 2 To 5 Manholes, Deduct	-15.95	
For 6 To 10 Manholes, Deduct	-26.11	
For >10 Manholes, Deduct	-52.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	255.89	
<i>For 80 Mil Material, Add</i>	36.15	
<i>For 100 Mil Material, Add</i>	72.31	
<i>For 125 Mil Material, Add</i>	113.93	
<i>For 150 Mil Material, Add</i>	155.56	
<i>For 200 Mil Material, Add</i>	229.30	
<i>For 2 To 5 Manholes, Deduct</i>	-17.55	
<i>For 6 To 10 Manholes, Deduct</i>	-28.70	
<i>For >10 Manholes, Deduct</i>	-57.41	
33 05 84 00-0057 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	319.91	
<i>For 80 Mil Material, Add</i>	45.21	
<i>For 100 Mil Material, Add</i>	90.41	
<i>For 125 Mil Material, Add</i>	142.47	
<i>For 150 Mil Material, Add</i>	194.52	
<i>For 200 Mil Material, Add</i>	286.73	
<i>For 2 To 5 Manholes, Deduct</i>	-21.94	
<i>For 6 To 10 Manholes, Deduct</i>	-35.88	
<i>For >10 Manholes, Deduct</i>	-71.77	
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	371.21	
<i>For 80 Mil Material, Add</i>	53.30	
<i>For 100 Mil Material, Add</i>	106.59	
<i>For 125 Mil Material, Add</i>	168.10	
<i>For 150 Mil Material, Add</i>	229.61	
<i>For 200 Mil Material, Add</i>	338.99	
<i>For 2 To 5 Manholes, Deduct</i>	-25.38	
<i>For 6 To 10 Manholes, Deduct</i>	-41.47	
<i>For >10 Manholes, Deduct</i>	-82.95	
33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner <small>(33 05 84 00-0052)</small>		
Note: For new manholes and shop applied.		
33 05 84 00-0060 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	231.52	
33 05 84 00-0061 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	283.80	
33 05 84 00-0062 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	346.33	
33 05 84 00-0063 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	434.93	
33 05 84 00-0064 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	523.53	
33 05 84 00-0065 SF Polyvinyl Chloride (PVC) Liner At Structures	56.94	
33 05 84 00-0066 Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0001)</small>		
33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0068 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	82.96	
33 05 84 00-0069 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	90.94	
33 05 84 00-0070 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	98.93	
33 05 84 00-0071 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	106.91	
33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0073 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	93.19	
33 05 84 00-0074 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	102.26	
33 05 84 00-0075 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	111.33	
33 05 84 00-0076 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	120.41	
33 05 84 00-0077 30" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0078 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	103.18	
33 05 84 00-0079 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	113.30	
33 05 84 00-0080 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	123.42	
33 05 84 00-0081 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	133.54	
33 05 84 00-0082 Bentonite Collar <small>(33 05 84 00-0001)</small>		
33 05 84 00-0083 Bentonite Collar At Manhole Connections <small>(33 05 84 00-0082)</small>		
33 05 84 00-0084 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	160.73	
33 05 84 00-0085 EA >12" To 21", Bentonite Collar At Manhole Connection	254.97	
33 05 84 00-0086 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	407.46	
33 05 84 00-0087 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	956.35	
33 05 84 00-0088 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,468.73	
33 05 84 00-0089 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,660.21	
33 05 84 00-0090 Waste Water Collection System Taps <small>(33 05 84)</small>		
Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0091 Brick Manhole Taps <small>(33 05 84 00-0090)</small>		
33 05 84 00-0092 EA 4" Tap In 6" Brick Manhole	479.77	
33 05 84 00-0093 EA 6" Tap In 6" Brick Manhole	536.15	
33 05 84 00-0094 EA 8" Tap In 6" Brick Manhole	591.52	
33 05 84 00-0095 EA 10" Tap In 6" Brick Manhole	646.77	
33 05 84 00-0096 EA 12" Tap In 6" Brick Manhole	713.35	
33 05 84 00-0097 EA 15" Tap In 6" Brick Manhole	768.50	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0098 Precast Concrete Manhole Tap (33 05 84 00-0090)		
33 05 84 00-0099 EA 4" Tap In Existing Precast Concrete Manhole.....	702.99	
33 05 84 00-0100 EA 6" Tap In Existing Precast Concrete Manhole.....	787.55	
33 05 84 00-0101 EA 8" Tap In Existing Precast Concrete Manhole.....	880.63	
33 05 84 00-0102 EA 10" Tap In Existing Precast Concrete Manhole.....	963.51	
33 05 84 00-0103 EA 12" Tap In Existing Precast Concrete Manhole.....	1,046.22	
33 05 84 00-0104 EA 15" Tap In Existing Precast Concrete Manhole.....	1,130.95	
33 05 84 00-0105 EA 18" Tap In Existing Precast Concrete Manhole.....	1,301.51	
33 05 84 00-0106 EA 24" Tap In Existing Precast Concrete Manhole.....	1,672.93	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 23 Utility Identification Warning Tape (33 05 97)		
33 05 97 23-0001 Non-Detectable Utility Warning Tape (33 05 97 23)		
Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0002 CLF 3" Non-Detectable Utility Warning Tape.....	6.87	
33 05 97 23-0003 CLF 6" Non-Detectable Utility Warning Tape.....	9.57	
33 05 97 23-0004 Detectable Utility Warning Tape (33 05 97 23)		
Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0005 CLF 2" Detectable Utility Warning Tape	6.93	
33 05 97 23-0006 CLF 3" Detectable Utility Warning Tape	9.40	
33 05 97 23-0007 CLF 6" Detectable Utility Warning Tape	14.91	
33 10 Water Utilities (33)		
33 11 Groundwater Sources (33 10)		
33 11 13 Potable Water Supply Wells (33 11)		
33 11 13 00-0001 Drill And Test Water Well (33 11 13)		
33 11 13 00-0002 Drill Hole (33 11 13 00-0001)		
Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	937.68	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,148.26	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,722.39	
33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)		
Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	22.24	
For >100 To 250, Add	0.56	
For >250 To 400, Add	1.11	
For >400 To 600, Add	1.67	
For >600 To 750, Add	2.22	
For >750, Add	2.78	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	26.41	
For >100 To 250, Add	0.66	
For >250 To 400, Add	1.32	
For >400 To 600, Add	1.98	
For >600 To 750, Add	2.64	
For >750, Add	3.30	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	35.31	
For >100 To 250, Add	0.88	
For >250 To 400, Add	1.77	
For >400 To 600, Add	2.65	
For >600 To 750, Add	3.53	
For >750, Add	4.41	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	55.26	
For >100 To 250, Add	1.38	
For >250 To 400, Add	2.76	
For >400 To 600, Add	4.14	
For >600 To 750, Add	5.53	
For >750, Add	6.91	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	79.52	
For >100 To 250, Add	1.99	
For >250 To 400, Add	3.98	
For >400 To 600, Add	5.96	
For >600 To 750, Add	7.95	
For >750, Add	9.94	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	103.92	
For >100 To 250, Add	2.60	
For >250 To 400, Add	5.20	
For >400 To 600, Add	7.79	
For >600 To 750, Add	10.39	
For >750, Add	12.99	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	123.44	
For >100 To 250, Add	3.09	
For >250 To 400, Add	6.17	
For >400 To 600, Add	9.26	
For >600 To 750, Add	12.34	
For >750, Add	15.43	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	143.54	
For >100 To 250, Add	3.59	
For >250 To 400, Add	7.18	
For >400 To 600, Add	10.77	
For >600 To 750, Add	14.35	
For >750, Add	17.94	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	168.65	
For >100 To 250, Add	4.22	
For >250 To 400, Add	8.43	
For >400 To 600, Add	12.65	
For >600 To 750, Add	16.87	
For >750, Add	21.08	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	198.79	
For >100 To 250, Add	4.97	
For >250 To 400, Add	9.94	
For >400 To 600, Add	14.91	
For >600 To 750, Add	19.88	
For >750, Add	24.85	
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	214.87	
For >100 To 250, Add	5.37	
For >250 To 400, Add	10.74	
For >400 To 600, Add	16.12	
For >600 To 750, Add	21.49	
For >750, Add	26.86	
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	236.40	
For >100 To 250, Add	5.91	
For >250 To 400, Add	11.82	
For >400 To 600, Add	17.73	
For >600 To 750, Add	23.64	
For >750, Add	29.55	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	258.94	
For >100 To 250, Add	6.47	
For >250 To 400, Add	12.95	
For >400 To 600, Add	19.42	
For >600 To 750, Add	25.89	
For >750, Add	32.37	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	322.09	
For >100 To 250, Add	8.05	
For >250 To 400, Add	16.10	
For >400 To 600, Add	24.16	
For >600 To 750, Add	32.21	
For >750, Add	40.26	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)		
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock	45.35	
For >100 To 250, Add	1.13	
For >250 To 400, Add	2.27	
For >400 To 600, Add	3.40	
For >600 To 750, Add	4.54	
For >750, Add	5.67	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock	52.82	
For >100 To 250, Add	1.32	
For >250 To 400, Add	2.64	
For >400 To 600, Add	3.96	
For >600 To 750, Add	5.28	
For >750, Add	6.60	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock	84.57	
For >100 To 250, Add	2.11	
For >250 To 400, Add	4.23	
For >400 To 600, Add	6.34	
For >600 To 750, Add	8.46	
For >750, Add	10.57	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock	110.58	
For >100 To 250, Add	2.76	
For >250 To 400, Add	5.53	
For >400 To 600, Add	8.29	
For >600 To 750, Add	11.06	
For >750, Add	13.82	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	159.15	
For >100 To 250, Add	3.98	
For >250 To 400, Add	7.96	
For >400 To 600, Add	11.94	
For >600 To 750, Add	15.92	
For >750, Add	19.89	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	207.72	
For >100 To 250, Add	5.19	
For >250 To 400, Add	10.39	
For >400 To 600, Add	15.58	
For >600 To 750, Add	20.77	
For >750, Add	25.97	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	246.99	
For >100 To 250, Add	6.17	
For >250 To 400, Add	12.35	
For >400 To 600, Add	18.52	
For >600 To 750, Add	24.70	
For >750, Add	30.87	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	286.61	
For >100 To 250, Add	7.17	
For >250 To 400, Add	14.33	
For >400 To 600, Add	21.50	
For >600 To 750, Add	28.66	
For >750, Add	35.83	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	337.59	
For >100 To 250, Add	8.44	
For >250 To 400, Add	16.88	
For >400 To 600, Add	25.32	
For >600 To 750, Add	33.76	
For >750, Add	42.20	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	389.95	
For >100 To 250, Add	9.75	
For >250 To 400, Add	19.50	
For >400 To 600, Add	29.25	
For >600 To 750, Add	39.00	
For >750, Add	48.74	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	429.73	
For >100 To 250, Add	10.74	
For >250 To 400, Add	21.49	
For >400 To 600, Add	32.23	
For >600 To 750, Add	42.97	
For >750, Add	53.72	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	472.80	
For >100 To 250, Add	11.82	
For >250 To 400, Add	23.64	
For >400 To 600, Add	35.46	
For >600 To 750, Add	47.28	
For >750, Add	59.10	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	517.86	
For >100 To 250, Add	12.95	
For >250 To 400, Add	25.89	
For >400 To 600, Add	38.84	
For >600 To 750, Add	51.79	
For >750, Add	64.73	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	644.17	
For >100 To 250, Add	16.10	
For >250 To 400, Add	32.21	
For >400 To 600, Add	48.31	
For >600 To 750, Add	64.42	
For >750, Add	80.52	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock	93.29	
For >100 To 250, Add	2.33	
For >250 To 400, Add	4.66	
For >400 To 600, Add	7.00	
For >600 To 750, Add	9.33	
For >750, Add	11.66	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock	107.65	
For >100 To 250, Add	2.69	
For >250 To 400, Add	5.38	
For >400 To 600, Add	8.07	
For >600 To 750, Add	10.77	
For >750, Add	13.46	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock	123.44	
For >100 To 250, Add	3.09	
For >250 To 400, Add	6.17	
For >400 To 600, Add	9.26	
For >600 To 750, Add	12.34	
For >750, Add	15.43	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock.....	156.45	
For >100 To 250, Add	3.91	
For >250 To 400, Add	7.82	
For >400 To 600, Add	11.73	
For >600 To 750, Add	15.65	
For >750, Add	19.56	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock.....	202.38	
For >100 To 250, Add	5.06	
For >250 To 400, Add	10.12	
For >400 To 600, Add	15.18	
For >600 To 750, Add	20.24	
For >750, Add	25.30	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock.....	294.24	
For >100 To 250, Add	7.36	
For >250 To 400, Add	14.71	
For >400 To 600, Add	22.07	
For >600 To 750, Add	29.42	
For >750, Add	36.78	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock.....	350.22	
For >100 To 250, Add	8.76	
For >250 To 400, Add	17.51	
For >400 To 600, Add	26.27	
For >600 To 750, Add	35.02	
For >750, Add	43.78	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock.....	406.20	
For >100 To 250, Add	10.16	
For >250 To 400, Add	20.31	
For >400 To 600, Add	30.47	
For >600 To 750, Add	40.62	
For >750, Add	50.78	
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock.....	477.96	
For >100 To 250, Add	11.95	
For >250 To 400, Add	23.90	
For >400 To 600, Add	35.85	
For >600 To 750, Add	47.80	
For >750, Add	59.75	
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	552.60	
For >100 To 250, Add	13.82	
For >250 To 400, Add	27.63	
For >400 To 600, Add	41.45	
For >600 To 750, Add	55.26	
For >750, Add	69.08	
33 11 13 00-0048 Furnish And Install Casing <small>(33 11 13 00-0001)</small>		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing <small>(33 11 13 00-0048)</small>		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	31.87	
For >100 To 250, Deduct	-0.99	
For >250 To 400, Deduct	-1.79	
For >400 To 600, Deduct	-2.69	
For >600 To 750, Deduct	-3.58	
For >750, Deduct	-4.73	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	39.64	
For >100 To 250, Deduct	-1.24	
For >250 To 400, Deduct	-2.23	
For >400 To 600, Deduct	-3.34	
For >600 To 750, Deduct	-4.46	
For >750, Deduct	-5.89	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	58.07	
For >100 To 250, Deduct	-1.75	
For >250 To 400, Deduct	-3.20	
For >400 To 600, Deduct	-4.80	
For >600 To 750, Deduct	-6.40	
For >750, Deduct	-8.38	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	96.11	
For >100 To 250, Deduct	-2.76	
For >250 To 400, Deduct	-5.16	
For >400 To 600, Deduct	-7.74	
For >600 To 750, Deduct	-10.32	
For >750, Deduct	-13.36	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	108.67	
For >100 To 250, Deduct	-3.21	
For >250 To 400, Deduct	-5.93	
For >400 To 600, Deduct	-8.89	
For >600 To 750, Deduct	-11.85	
For >750, Deduct	-15.46	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	127.88	
For >100 To 250, Deduct	-3.81	
For >250 To 400, Deduct	-7.01	
For >400 To 600, Deduct	-10.51	
For >600 To 750, Deduct	-14.01	
For >750, Deduct	-18.31	

33	Utilities
33 10	Water Utilities
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush	146.58	
For >100 To 250, Deduct	-4.43	
For >250 To 400, Deduct	-8.10	
For >400 To 600, Deduct	-12.15	
For >600 To 750, Deduct	-16.20	
For >750, Deduct	-21.24	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush	167.76	
For >100 To 250, Deduct	-5.14	
For >250 To 400, Deduct	-9.33	
For >400 To 600, Deduct	-14.00	
For >600 To 750, Deduct	-18.67	
For >750, Deduct	-24.57	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush	195.69	
For >100 To 250, Deduct	-5.96	
For >250 To 400, Deduct	-10.85	
For >400 To 600, Deduct	-16.27	
For >600 To 750, Deduct	-21.70	
For >750, Deduct	-28.51	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install	1.11	
For >100 To 250, Deduct	-0.04	
For >250 To 400, Deduct	-0.07	
For >400 To 600, Deduct	-0.10	
For >600 To 750, Deduct	-0.14	
For >750, Deduct	-0.19	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded <small>(33 11 13 00-0048)</small>		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush	65.31	
For >100 To 250, Deduct	-1.83	
For >250 To 400, Deduct	-3.46	
For >400 To 600, Deduct	-5.19	
For >600 To 750, Deduct	-6.93	
For >750, Deduct	-8.91	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush	97.79	
For >100 To 250, Deduct	-2.69	
For >250 To 400, Deduct	-5.14	
For >400 To 600, Deduct	-7.70	
For >600 To 750, Deduct	-10.27	
For >750, Deduct	-13.16	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush	136.45	
For >100 To 250, Deduct	-3.73	
For >250 To 400, Deduct	-7.14	
For >400 To 600, Deduct	-10.71	
For >600 To 750, Deduct	-14.28	
For >750, Deduct	-18.25	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush	158.74	
For >100 To 250, Deduct	-4.34	
For >250 To 400, Deduct	-8.31	
For >400 To 600, Deduct	-12.47	
For >600 To 750, Deduct	-16.62	
For >750, Deduct	-21.27	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring <small>(33 11 13 00-0048)</small>		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	145.91	
For >100 To 250, Deduct	-4.20	
For >250 To 400, Deduct	-7.85	
For >400 To 600, Deduct	-11.77	
For >600 To 750, Deduct	-15.69	
For >750, Deduct	-20.34	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	168.99	
For >100 To 250, Deduct	-4.86	
For >250 To 400, Deduct	-9.08	
For >400 To 600, Deduct	-13.62	
For >600 To 750, Deduct	-18.16	
For >750, Deduct	-23.52	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	202.78	
For >100 To 250, Deduct	-5.78	
For >250 To 400, Deduct	-10.85	
For >400 To 600, Deduct	-16.27	
For >600 To 750, Deduct	-21.70	
For >750, Deduct	-28.04	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	232.18	
For >100 To 250, Deduct	-6.61	
For >250 To 400, Deduct	-12.42	
For >400 To 600, Deduct	-18.63	
For >600 To 750, Deduct	-24.83	
For >750, Deduct	-32.09	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	256.58	
For >100 To 250, Deduct	-7.34	
For >250 To 400, Deduct	-13.76	
For >400 To 600, Deduct	-20.63	
For >600 To 750, Deduct	-27.51	
For >750, Deduct	-35.59	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	335.56	
For >100 To 250, Deduct	-9.49	
For >250 To 400, Deduct	-17.88	
For >400 To 600, Deduct	-26.82	
For >600 To 750, Deduct	-35.76	
For >750, Deduct	-46.14	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	441.66	
For >100 To 250, Deduct	-12.42	
For >250 To 400, Deduct	-23.46	
For >400 To 600, Deduct	-35.19	
For >600 To 750, Deduct	-46.93	
For >750, Deduct	-60.45	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing	57.23	
For >100 To 250, Deduct	-1.59	
For >250 To 400, Deduct	-3.02	
For >400 To 600, Deduct	-4.53	
For >600 To 750, Deduct	-6.04	
For >750, Deduct	-7.75	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing	90.96	
For >100 To 250, Deduct	-2.52	
For >250 To 400, Deduct	-4.79	
For >400 To 600, Deduct	-7.19	
For >600 To 750, Deduct	-9.59	
For >750, Deduct	-12.31	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	137.44	
For >100 To 250, Deduct	-3.81	
For >250 To 400, Deduct	-7.25	
For >400 To 600, Deduct	-10.87	
For >600 To 750, Deduct	-14.49	
For >750, Deduct	-18.60	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	161.96	
For >100 To 250, Deduct	-4.50	
For >250 To 400, Deduct	-8.55	
For >400 To 600, Deduct	-12.83	
For >600 To 750, Deduct	-17.10	
For >750, Deduct	-21.97	
33 11 13 00-0078 Furnish And Install Well Screen Assembly <small>(33 11 13 00-0001)</small>		
33 11 13 00-0079 Stainless Steel Well Screen <small>(33 11 13 00-0078)</small>		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen	21.08	1.58
For >100 To 250, Deduct	-0.73	
For >250 To 400, Deduct	-1.26	
For >400 To 600, Deduct	-1.88	
For >600 To 750, Deduct	-2.51	
For >750, Deduct	-3.40	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen	32.93	1.58
For >100 To 250, Deduct	-1.04	
For >250 To 400, Deduct	-1.86	
For >400 To 600, Deduct	-2.80	
For >600 To 750, Deduct	-3.73	
For >750, Deduct	-4.95	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen	41.37	2.37
For >100 To 250, Deduct	-1.31	
For >250 To 400, Deduct	-2.34	
For >400 To 600, Deduct	-3.52	
For >600 To 750, Deduct	-4.69	
For >750, Deduct	-6.22	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen	52.21	2.37
For >100 To 250, Deduct	-1.63	
For >250 To 400, Deduct	-2.94	
For >400 To 600, Deduct	-4.41	
For >600 To 750, Deduct	-5.88	
For >750, Deduct	-7.78	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen	62.83	3.15
For >100 To 250, Deduct	-2.01	
For >250 To 400, Deduct	-3.58	
For >400 To 600, Deduct	-5.37	
For >600 To 750, Deduct	-7.16	
For >750, Deduct	-9.52	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen	81.95	3.95
For >100 To 250, Deduct	-2.61	
For >250 To 400, Deduct	-4.66	
For >400 To 600, Deduct	-6.99	
For >600 To 750, Deduct	-9.32	
For >750, Deduct	-12.37	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen	104.22	6.31
For >100 To 250, Deduct	-3.36	
For >250 To 400, Deduct	-5.97	
For >400 To 600, Deduct	-8.95	
For >600 To 750, Deduct	-11.93	
For >750, Deduct	-15.90	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	122.25	7.88
For >100 To 250, Deduct	-3.94	
For >250 To 400, Deduct	-7.00	
For >400 To 600, Deduct	-10.49	
For >600 To 750, Deduct	-13.99	
For >750, Deduct	-18.64	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	134.46	8.68
For >100 To 250, Deduct	-4.38	
For >250 To 400, Deduct	-7.74	
For >400 To 600, Deduct	-11.61	
For >600 To 750, Deduct	-15.48	
For >750, Deduct	-20.67	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	145.76	10.25
For >100 To 250, Deduct	-4.79	
For >250 To 400, Deduct	-8.43	
For >400 To 600, Deduct	-12.65	
For >600 To 750, Deduct	-16.86	
For >750, Deduct	-22.56	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	175.15	11.83
For >100 To 250, Deduct	-5.79	
For >250 To 400, Deduct	-10.17	
For >400 To 600, Deduct	-15.25	
For >600 To 750, Deduct	-20.33	
For >750, Deduct	-27.24	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	220.87	14.98
For >100 To 250, Deduct	-7.29	
For >250 To 400, Deduct	-12.81	
For >400 To 600, Deduct	-19.22	
For >600 To 750, Deduct	-25.63	
For >750, Deduct	-34.33	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	286.64	19.71
For >100 To 250, Deduct	-9.49	
For >250 To 400, Deduct	-16.65	
For >400 To 600, Deduct	-24.98	
For >600 To 750, Deduct	-33.30	
For >750, Deduct	-44.64	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	330.29	22.87
For >100 To 250, Deduct	-10.89	
For >250 To 400, Deduct	-19.14	
For >400 To 600, Deduct	-28.71	
For >600 To 750, Deduct	-38.29	
For >750, Deduct	-51.27	
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 <small>(33 11 13 00-0078)</small>		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	16.13	
For >100 To 250, Deduct	-0.55	
For >250 To 400, Deduct	-0.96	
For >400 To 600, Deduct	-1.43	
For >600 To 750, Deduct	-1.91	
For >750, Deduct	-2.59	
For Schedule 80, Add	4.05	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	18.56	
For >100 To 250, Deduct	-0.62	
For >250 To 400, Deduct	-1.09	
For >400 To 600, Deduct	-1.63	
For >600 To 750, Deduct	-2.18	
For >750, Deduct	-2.93	
For Schedule 80, Add	4.86	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	25.64	
For >100 To 250, Deduct	-0.93	
For >250 To 400, Deduct	-1.57	
For >400 To 600, Deduct	-2.35	
For >600 To 750, Deduct	-3.14	
For >750, Deduct	-4.29	
For Schedule 80, Add	5.68	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	38.70	
For >100 To 250, Deduct	-1.28	
For >250 To 400, Deduct	-2.24	
For >400 To 600, Deduct	-3.37	
For >600 To 750, Deduct	-4.49	
For >750, Deduct	-6.01	
For Schedule 80, Add	10.54	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	48.66	
For >100 To 250, Deduct	-1.61	
For >250 To 400, Deduct	-2.82	
For >400 To 600, Deduct	-4.24	
For >600 To 750, Deduct	-5.65	
For >750, Deduct	-7.57	
For Schedule 80, Add	13.21	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	61.17	
For >100 To 250, Deduct	-1.99	
For >250 To 400, Deduct	-3.52	
For >400 To 600, Deduct	-5.29	
For >600 To 750, Deduct	-7.05	
For >750, Deduct	-9.41	
For Schedule 80, Add	17.02	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	66.35	
For >100 To 250, Deduct	-2.28	
For >250 To 400, Deduct	-3.94	
For >400 To 600, Deduct	-5.91	
For >600 To 750, Deduct	-7.88	
For >750, Deduct	-10.65	
For Schedule 80, Add	16.62	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	96.58	
For >100 To 250, Deduct	-3.21	
For >250 To 400, Deduct	-5.62	
For >400 To 600, Deduct	-8.43	
For >600 To 750, Deduct	-11.24	
For >750, Deduct	-15.09	
For Schedule 80, Add	25.94	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>		
Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....	21.79	
For >100 To 250, Deduct	-0.77	
For >250 To 400, Deduct	-1.32	
For >400 To 600, Deduct	-1.97	
For >600 To 750, Deduct	-2.63	
For >750, Deduct	-3.59	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....	31.59	
For >100 To 250, Deduct	-1.15	
For >250 To 400, Deduct	-1.94	
For >400 To 600, Deduct	-2.90	
For >600 To 750, Deduct	-3.87	
For >750, Deduct	-5.30	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....	43.05	
For >100 To 250, Deduct	-1.61	
For >250 To 400, Deduct	-2.68	
For >400 To 600, Deduct	-4.02	
For >600 To 750, Deduct	-5.36	
For >750, Deduct	-7.39	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	55.78	
For >100 To 250, Deduct	-2.05	
For >250 To 400, Deduct	-3.45	
For >400 To 600, Deduct	-5.17	
For >600 To 750, Deduct	-6.89	
For >750, Deduct	-9.47	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	69.47	
For >100 To 250, Deduct	-2.52	
For >250 To 400, Deduct	-4.26	
For >400 To 600, Deduct	-6.39	
For >600 To 750, Deduct	-8.52	
For >750, Deduct	-11.67	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	91.27	
For >100 To 250, Deduct	-3.25	
For >250 To 400, Deduct	-5.53	
For >400 To 600, Deduct	-8.30	
For >600 To 750, Deduct	-11.07	
For >750, Deduct	-15.09	
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	105.09	
For >100 To 250, Deduct	-3.72	
For >250 To 400, Deduct	-6.35	
For >400 To 600, Deduct	-9.53	
For >600 To 750, Deduct	-12.70	
For >750, Deduct	-17.30	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	123.84	
For >100 To 250, Deduct	-4.43	
For >250 To 400, Deduct	-7.53	
For >400 To 600, Deduct	-11.29	
For >600 To 750, Deduct	-15.06	
For >750, Deduct	-20.56	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	139.49	
For >100 To 250, Deduct	-5.02	
For >250 To 400, Deduct	-8.51	
For >400 To 600, Deduct	-12.76	
For >600 To 750, Deduct	-17.02	
For >750, Deduct	-23.27	

33	Utilities
33 10	Water Utilities
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	151.66	
For >100 To 250, Deduct	-5.40	
For >250 To 400, Deduct	-9.19	
For >400 To 600, Deduct	-13.78	
For >600 To 750, Deduct	-18.37	
For >750, Deduct	-25.05	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	179.20	
For >100 To 250, Deduct	-6.45	
For >250 To 400, Deduct	-10.93	
For >400 To 600, Deduct	-16.40	
For >600 To 750, Deduct	-21.87	
For >750, Deduct	-29.90	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	203.92	
For >100 To 250, Deduct	-7.50	
For >250 To 400, Deduct	-12.60	
For >400 To 600, Deduct	-18.90	
For >600 To 750, Deduct	-25.20	
For >750, Deduct	-34.63	
33 11 13 00-0117 Develop Well <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	372.82	
33 11 13 00-0119 Pump Test <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	331.51	
33 11 13 00-0121 Test Well <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well	93.93	
33 11 13 00-0123 Surface Seal, Concrete Filled <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled	34.15	
33 11 13 00-0125 Other Water Well <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing	84.43	
33 11 13 00-0127 SF 1/2" Pressure Grout Well	2.72	
33 11 13 00-0128 SF 1" Pressure Grout Well	4.56	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	4.93	
33 11 13 00-0130 Sterilization Of Well <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine	1,588.62	
33 11 13 00-0132 Submersible Well Pumps <small>(33 11 13)</small>		
Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,464.57	518.52
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,668.04	574.71
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,851.44	638.58
33 11 13 00-0138 Stainless Steel Case And Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,637.45	510.86
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,865.82	574.71
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,090.63	638.58
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,388.85	702.43
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,697.73	766.29
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,308.39	894.00
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel	4,140.48	1,021.72
33 11 13 00-0146 6" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,084.16	1,277.15
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,695.84	1,404.86
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,330.35	1,532.58
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,690.20	1,788.01

33 14 Water Utility Transmission and Distribution (33 10)

33 14 11 Water Utility Transmission Piping (33 14)

See CSI section 33 14 13 00-0000 for water utility transmission piping.



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Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 Public Water Utility Distribution Piping ^(33 14)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping ^(33 14 13)		
33 14 13 13-0001 Ductile Iron Piping ^(33 14 13 13)		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping ^(33 14 13 13-0001)		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0500 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe ^(33 14 13 13-0002)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	36.09	12.79
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	11.72	
For Cement Mortar Lining (CML), Add	1.67	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.04	
For Fusion Bonded Epoxy Lining (206N), Add	3.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.80	
For Class 52, Add	5.42	
For Class 53, Add	9.70	
For Class 54, Add	13.80	
For Class 55, Add	15.92	
For Class 56, Add	18.00	
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	39.02	13.62
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	12.87	
For Cement Mortar Lining (CML), Add	1.84	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.93	
For Fusion Bonded Epoxy Lining (206N), Add	3.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.95	
For Class 51, Add	2.76	
For Class 52, Add	5.94	
For Class 53, Add	10.63	
For Class 54, Add	15.13	
For Class 55, Add	17.44	
For Class 56, Add	19.73	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	41.57	14.29
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.97	
For Cement Mortar Lining (CML), Add	2.00	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.78	
For Fusion Bonded Epoxy Lining (206N), Add	3.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.50	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.08	
For Class 51, Add	2.99	
For Class 52, Add	6.43	
For Class 53, Add	11.51	
For Class 54, Add	16.38	
For Class 55, Add	18.89	
For Class 56, Add	21.35	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	48.03	14.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.87	
For Cement Mortar Lining (CML), Add	2.55	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.79	
For Fusion Bonded Epoxy Lining (206N), Add	4.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.91	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.40	
For Class 51, Add	3.76	
For Class 52, Add	8.10	
For Class 53, Add	14.53	
For Class 54, Add	20.69	
For Class 55, Add	23.83	
For Class 56, Add	26.92	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	65.68	21.43
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	19.93	
For Cement Mortar Lining (CML), Add	3.32	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.61	
For Fusion Bonded Epoxy Lining (206N), Add	5.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.28	
For Class 51, Add	4.93	
For Class 52, Add	10.61	
For Class 53, Add	19.01	
For Class 54, Add	27.08	
For Class 55, Add	31.20	
For Class 56, Add	35.26	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	78.50	23.81
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	21.21	
For Cement Mortar Lining (CML), Add	4.24	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.97	
For Fusion Bonded Epoxy Lining (206N), Add	7.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.18	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.93	
For Class 51, Add	6.23	
For Class 52, Add	13.42	
For Class 53, Add	24.09	
For Class 54, Add	34.31	
For Class 55, Add	39.52	
For Class 56, Add	44.64	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	93.19	26.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.15	
For Cement Mortar Lining (CML), Add	5.26	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.89	
For Fusion Bonded Epoxy Lining (206N), Add	9.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.95	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.66	
For Class 51, Add	7.68	
For Class 52, Add	16.54	
For Class 53, Add	29.72	
For Class 54, Add	42.35	
For Class 55, Add	48.75	
For Class 56, Add	55.05	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	105.36	30.62
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.18	
For Cement Mortar Lining (CML), Add	5.90	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.28	
For Fusion Bonded Epoxy Lining (206N), Add	10.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.27	
For Class 51, Add	8.62	
For Class 52, Add	18.56	
For Class 53, Add	33.35	
For Class 54, Add	47.52	
For Class 55, Add	54.71	
For Class 56, Add	61.78	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	129.74	35.71
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.01	
For Cement Mortar Lining (CML), Add	7.56	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.45	
For Fusion Bonded Epoxy Lining (206N), Add	13.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.67	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.49	
For Class 51, Add	10.99	
For Class 52, Add	23.67	
For Class 53, Add	42.56	
For Class 54, Add	60.68	
For Class 55, Add	69.83	
For Class 56, Add	78.83	



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Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	148.23	42.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.65	
For Cement Mortar Lining (CML), Add	8.33	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.32	
For Fusion Bonded Epoxy Lining (206N), Add	14.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.25	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.41	
For Class 51, Add	12.17	
For Class 52, Add	26.21	
For Class 53, Add	47.08	
For Class 54, Add	67.09	
For Class 55, Add	77.24	
For Class 56, Add	87.21	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	192.95	53.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	34.65	
For Cement Mortar Lining (CML), Add	11.18	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.48	
For Fusion Bonded Epoxy Lining (206N), Add	20.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.65	
For Class 51, Add	16.25	
For Class 52, Add	35.02	
For Class 53, Add	62.95	
For Class 54, Add	89.73	
For Class 55, Add	103.28	
For Class 56, Add	116.59	
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	244.21	57.68
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	48.87	
For Cement Mortar Lining (CML), Add	15.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-12.21	
For Class 51, Add	22.57	
For Class 52, Add	48.68	
For Class 53, Add	87.73	
For Class 54, Add	125.14	
For Class 55, Add	143.90	
For Class 56, Add	162.32	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	289.10	61.25
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	61.11	
For Cement Mortar Lining (CML), Add	19.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.78	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-14.46	
For Class 51, Add	28.02	
For Class 52, Add	60.47	
For Class 53, Add	109.09	
For Class 54, Add	155.67	
For Class 55, Add	178.92	
For Class 56, Add	201.75	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	351.32	64.82
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	78.72	
For Cement Mortar Lining (CML), Add	25.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-17.57	
For Class 51, Add	35.83	
For Class 52, Add	77.37	
For Class 53, Add	139.73	
For Class 54, Add	199.48	
For Class 55, Add	229.16	
For Class 56, Add	258.31	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	426.48	68.50
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	100.34	
For Cement Mortar Lining (CML), Add	32.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-21.32	
For Class 51, Add	45.40	
For Class 52, Add	98.09	
For Class 53, Add	177.31	
For Class 54, Add	253.20	
For Class 55, Add	290.77	
For Class 56, Add	327.66	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	158.32	40.40
For Cement Mortar Lining (CML), Add	9.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	178.81	48.27
For Cement Mortar Lining (CML), Add	10.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	280.82	71.33
For Cement Mortar Lining (CML), Add	17.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	379.59	84.61
For Cement Mortar Lining (CML), Add	25.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	543.79	95.01
For Cement Mortar Lining (CML), Add	39.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	707.19	111.46
For Cement Mortar Lining (CML), Add	53.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,090.48	124.98
For Cement Mortar Lining (CML), Add	90.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	162.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,440.28	142.85
For Cement Mortar Lining (CML), Add	122.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	220.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	1,776.73	199.97
For Cement Mortar Lining (CML), Add	147.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.53	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,433.73 205.50 369.90 154.13	249.97
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,571.93 306.75 552.15 230.06	332.86
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,463.66 492.26 886.07 369.19	357.10
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,257.58 769.59 1,385.27 577.19	370.74
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,846.17 1,319.69 2,375.44 989.77	428.53
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,287.52 1,759.68 3,167.42 1,319.76	455.90
33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	148.32 8.71 15.68 6.53	40.40
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	160.24 8.71 15.68 6.53	48.27
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	247.97 14.00 25.19 10.50	71.33
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	332.47 20.42 36.76 15.32	84.61
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	442.40 29.85 53.72 22.39	95.01
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	614.36 44.56 80.20 33.42	111.46

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow	890.55	124.98
For Cement Mortar Lining (CML), Add	70.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	126.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,090.40	142.85
For Cement Mortar Lining (CML), Add	87.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	157.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow	1,556.80	199.97
For Cement Mortar Lining (CML), Add	125.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	225.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow	1,718.26	249.97
For Cement Mortar Lining (CML), Add	133.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	241.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow	2,539.42	332.86
For Cement Mortar Lining (CML), Add	203.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	366.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow	4,675.36	357.10
For Cement Mortar Lining (CML), Add	413.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	744.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	310.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow	6,606.72	370.74
For Cement Mortar Lining (CML), Add	604.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,088.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow	9,937.51	428.53
For Cement Mortar Lining (CML), Add	928.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,671.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	696.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow	12,862.25	455.90
For Cement Mortar Lining (CML), Add	1,217.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,190.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	912.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	129.76	40.40
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	155.96	48.27
For Cement Mortar Lining (CML), Add	8.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	236.55	71.33
For Cement Mortar Lining (CML), Add	12.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.64	
Note: ANSI/AWWA C151/A21.51		



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	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	328.18 19.99 35.99 14.99	84.61
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	440.97 29.70 53.47 22.28	95.01
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	558.67 38.99 70.18 29.24	111.46
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	899.12 70.98 127.76 53.23	124.98
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,054.70 83.83 150.89 62.87	142.85
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,332.60 102.97 185.34 77.22	199.97
33 14 13 13-0061 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,778.24 139.95 251.91 104.96	249.97
33 14 13 13-0062 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,382.34 187.79 338.03 140.84	332.86
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,005.59 346.45 623.61 259.84	357.10
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,639.91 507.83 914.09 380.87	370.74
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,316.64 766.74 1,380.12 575.05	428.53
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,674.43 998.37 1,797.07 748.78	455.90

33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	129.76 6.86 12.34 5.14	40.40
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	151.67 7.85 14.14 5.89	48.27
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	240.83 13.28 23.91 9.96	71.33
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	309.62 18.14 32.65 13.60	84.61
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	438.11 29.42 52.95 22.06	95.01
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	534.39 36.56 65.81 27.42	111.46
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	999.08 80.97 145.75 60.73	124.98
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,103.26 88.68 159.63 66.51	142.85
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,603.93 130.10 234.18 97.57	199.97
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,696.84 131.81 237.26 98.86	249.97
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,262.38 175.80 316.43 131.85	332.86
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,068.43 352.74 634.92 264.55	357.10



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,382.86 482.12 867.82 361.59	370.74
33 14 13	13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,966.76 731.75 1,317.15 548.81	428.53
33 14 13	13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,605.89 991.52 1,784.73 743.64	455.90
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)					
33 14 13	13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	162.60 10.14 18.25 7.60	40.40
33 14 13	13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	198.80 12.57 22.62 9.43	48.27
33 14 13	13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	316.52 20.85 37.53 15.64	71.33
33 14 13	13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	426.72 29.85 53.72 22.39	84.61
33 14 13	13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	612.34 46.84 84.31 35.13	95.01
33 14 13	13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	781.45 61.27 110.28 45.95	111.46
33 14 13	13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,328.97 113.96 205.13 85.47	124.98
33 14 13	13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,021.51 180.51 324.92 135.38	142.85

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,353.67 205.07 369.13 153.80	199.97
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,193.47 281.48 506.66 211.11	249.97
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,886.10 338.17 608.70 253.63	332.86
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,200.21 665.91 1,198.65 499.44	357.10
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,833.15 1,227.15 2,208.87 920.36	370.74
33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0092)</small>		
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	149.75 8.85 15.94 6.64	40.40
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	164.53 9.14 16.45 6.86	48.27
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	263.68 15.57 28.02 11.67	71.33
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	378.16 24.99 44.98 18.74	84.61
33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	515.23 37.13 66.83 27.85	95.01
33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	697.19 52.84 95.11 39.63	111.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,179.02 98.97 178.14 74.22	124.98
33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,785.88 156.95 282.50 117.71	142.85
33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,115.18 181.22 326.20 135.92	199.97
33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,745.05 236.63 425.94 177.47	249.97
33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,453.40 294.90 530.82 221.17	332.86
33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,333.36 579.23 1,042.61 434.42	357.10
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,237.99 1,067.63 1,921.74 800.72	370.74
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	257.47 16.57 29.82 12.42	60.60
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	268.27 16.57 29.82 12.42	67.72
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	246.54 13.85 24.93 10.39	71.33
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	327.51 19.14 34.44 14.35	89.85
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	374.53 23.28 41.90 17.46	93.57

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	408.55	104.75
For Cement Mortar Lining (CML), Add	24.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	434.19	108.43
For Cement Mortar Lining (CML), Add	26.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	492.48	119.57
For Cement Mortar Lining (CML), Add	31.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	568.00	127.02
For Cement Mortar Lining (CML), Add	37.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	593.05	118.09
For Cement Mortar Lining (CML), Add	41.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	596.43	128.79
For Cement Mortar Lining (CML), Add	40.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	675.81	135.94
For Cement Mortar Lining (CML), Add	46.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	753.38	142.85
For Cement Mortar Lining (CML), Add	53.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	707.52	132.37
For Cement Mortar Lining (CML), Add	50.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	802.28	143.07
For Cement Mortar Lining (CML), Add	58.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....	980.20	150.22
For Cement Mortar Lining (CML), Add	75.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	135.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....	1,049.21	157.13
For Cement Mortar Lining (CML), Add	81.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	146.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.84	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	998.62 74.97 134.95 56.23	164.27
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,063.74 81.12 146.01 60.84	166.71
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,181.69 91.83 165.29 68.87	173.87
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,500.60 122.67 220.81 92.00	180.75
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,602.82 131.81 237.26 98.86	187.90
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,550.74 124.81 224.67 93.61	199.76
33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,349.67 104.68 188.42 78.51	199.96
33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,450.57 113.68 204.62 85.26	207.12
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,683.80 135.95 244.72 101.96	214.01
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,840.29 150.52 270.94 112.89	221.16
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,208.08 185.51 333.91 139.13	232.98
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,093.31 171.51 308.72 128.63	249.65

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee.....	1,870.11	255.92
For Cement Mortar Lining (CML), Add	148.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	266.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee.....	2,003.75	263.06
For Cement Mortar Lining (CML), Add	160.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee.....	2,165.58	269.97
For Cement Mortar Lining (CML), Add	175.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	316.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	131.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee.....	2,326.36	277.11
For Cement Mortar Lining (CML), Add	190.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee.....	2,394.25	288.93
For Cement Mortar Lining (CML), Add	195.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	352.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	146.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee.....	2,555.11	305.56
For Cement Mortar Lining (CML), Add	209.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	376.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee.....	2,987.36	333.51
For Cement Mortar Lining (CML), Add	248.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	446.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee.....	2,224.05	366.99
For Cement Mortar Lining (CML), Add	166.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	300.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	125.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee.....	2,272.01	374.15
For Cement Mortar Lining (CML), Add	170.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	306.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee.....	2,469.54	381.04
For Cement Mortar Lining (CML), Add	189.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	340.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	141.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee.....	2,666.02	388.18
For Cement Mortar Lining (CML), Add	207.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	374.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	155.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee.....	2,699.64	400.00
For Cement Mortar Lining (CML), Add	209.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	376.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.02	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,741.96 211.07 379.93 158.30	416.63
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,429.84 275.62 496.11 206.71	444.60
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,045.57 228.78 411.80 171.58	500.16
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,730.27 200.65 361.16 150.48	477.73
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,766.82 203.22 365.79 152.41	485.55
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,040.04 229.49 413.09 172.12	491.77
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,115.11 235.92 424.65 176.94	498.91
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,495.75 272.19 489.95 204.14	510.73
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,770.86 297.18 534.93 222.89	527.36
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,275.95 343.45 618.22 257.59	555.34
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,738.54 381.30 686.33 285.97	610.87
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,405.42 339.60 611.27 254.70	666.27

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee.....	4,685.41	563.57
For Cement Mortar Lining (CML), Add	383.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	689.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee.....	4,931.50	570.46
For Cement Mortar Lining (CML), Add	406.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	732.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	305.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee.....	5,177.95	577.60
For Cement Mortar Lining (CML), Add	430.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	774.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	322.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee.....	5,530.04	589.42
For Cement Mortar Lining (CML), Add	463.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	834.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	347.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee.....	5,912.25	784.22
For Cement Mortar Lining (CML), Add	499.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	898.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	374.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee.....	6,074.59	634.02
For Cement Mortar Lining (CML), Add	511.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	920.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	383.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee.....	6,325.82	689.57
For Cement Mortar Lining (CML), Add	528.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	950.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	396.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee.....	6,651.06	744.93
For Cement Mortar Lining (CML), Add	552.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	994.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	414.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee.....	8,307.26	784.22
For Cement Mortar Lining (CML), Add	711.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,281.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	533.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee.....	4,891.66	556.41
For Cement Mortar Lining (CML), Add	404.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	728.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee.....	5,714.16	625.17
For Cement Mortar Lining (CML), Add	476.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	858.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	357.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee.....	6,344.41	632.08
For Cement Mortar Lining (CML), Add	538.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	969.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	404.00	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,686.53 571.80 1,029.25 428.85	639.22
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,934.37 594.80 1,070.63 446.10	651.03
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,186.63 617.50 1,111.50 463.13	667.67
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,668.86 661.49 1,190.68 496.12	695.64
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,194.28 705.61 1,270.11 529.21	751.17
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,060.76 783.87 1,410.97 587.90	806.54
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,007.21 872.56 1,570.60 654.42	876.75
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,660.47 1,033.22 1,859.79 774.91	876.75
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,039.41 1,201.87 2,163.37 901.40	673.65
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,300.08 1,226.15 2,207.07 919.61	685.47
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,769.07 1,370.53 2,466.95 1,027.90	702.10
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,826.08 1,271.99 2,289.58 953.99	730.07

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,910.23 1,271.99 2,289.58 953.99	785.62
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	14,226.90 1,295.27 2,331.48 971.45	840.98
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,222.64 1,588.88 2,859.99 1,191.66	880.32
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,936.22 1,655.57 2,980.03 1,241.68	911.13
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	18,966.25 1,755.97 3,160.74 1,316.98	928.36
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	15,348.94 1,424.51 2,564.12 1,068.38	728.54
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	15,623.90 1,450.22 2,610.39 1,087.66	740.35
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,013.25 1,486.63 2,675.94 1,114.97	756.98
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,418.38 1,522.91 2,741.23 1,142.18	784.96
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,866.68 1,559.32 2,806.78 1,169.49	840.49
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,999.12 1,564.18 2,815.52 1,173.13	895.86
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,656.07 1,923.91 3,463.04 1,442.93	935.20



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,530.34 2,206.67 3,972.00 1,655.00	966.01
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,676.05 2,318.63 4,173.54 1,738.97	983.22
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,090.36 2,355.90 4,240.63 1,766.93	1,010.71
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) <small>(33 14 13 13-0002)</small>		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	224.00 12.14 21.85 9.10	67.72
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	335.08 22.71 40.87 17.03	71.29
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	327.51 19.14 34.44 14.35	89.85
33 14 13 13-0208 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	375.96 23.42 42.16 17.57	93.57
33 14 13 13-0209 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	501.38 34.27 61.69 25.71	104.69
33 14 13 13-0210 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	636.97 47.27 85.08 35.45	108.43
33 14 13 13-0211 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	576.74 39.56 71.20 29.67	119.57
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	692.25 49.98 89.97 37.49	126.99
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	974.35 79.54 143.18 59.66	118.09

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,031.99	128.79
For Cement Mortar Lining (CML), Add	83.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	150.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,182.78	135.94
For Cement Mortar Lining (CML), Add	97.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,328.89	142.85
For Cement Mortar Lining (CML), Add	111.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	200.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,238.76	132.37
For Cement Mortar Lining (CML), Add	103.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	186.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,399.22	143.07
For Cement Mortar Lining (CML), Add	118.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	212.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,679.96	150.22
For Cement Mortar Lining (CML), Add	145.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	261.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	108.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,728.98	157.13
For Cement Mortar Lining (CML), Add	149.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	268.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,572.71	164.26
For Cement Mortar Lining (CML), Add	132.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	238.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	99.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,846.33	166.71
For Cement Mortar Lining (CML), Add	159.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	286.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	119.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,108.51	173.87
For Cement Mortar Lining (CML), Add	184.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	332.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	138.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,740.17	180.75
For Cement Mortar Lining (CML), Add	246.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	443.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	184.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,933.79	187.90
For Cement Mortar Lining (CML), Add	264.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	476.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	198.68	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,871.72	199.72
For Cement Mortar Lining (CML), Add	256.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	462.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	192.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,905.30	199.96
For Cement Mortar Lining (CML), Add	160.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,093.21	207.12
For Cement Mortar Lining (CML), Add	177.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	320.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	133.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,459.25	214.01
For Cement Mortar Lining (CML), Add	213.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	384.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,745.69	221.16
For Cement Mortar Lining (CML), Add	241.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	433.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	180.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,423.37	232.98
For Cement Mortar Lining (CML), Add	307.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	552.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	230.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,308.61	249.61
For Cement Mortar Lining (CML), Add	293.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	527.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	219.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,982.58	255.92
For Cement Mortar Lining (CML), Add	259.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	467.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,207.62	263.06
For Cement Mortar Lining (CML), Add	280.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	505.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,425.14	269.97
For Cement Mortar Lining (CML), Add	301.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	542.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	226.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,661.61	277.11
For Cement Mortar Lining (CML), Add	324.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	583.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,705.23	288.93
For Cement Mortar Lining (CML), Add	326.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	588.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	245.06	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,747.55 328.46 591.22 246.34	305.56
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,444.35 293.90 529.02 220.42	333.54
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,557.87 300.18 540.33 225.14	366.99
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,635.82 306.89 552.41 230.17	374.15
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,983.30 340.60 613.07 255.45	381.04
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,328.30 374.01 673.23 280.51	388.18
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,374.77 376.87 678.37 282.65	400.00
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,429.95 379.87 683.76 284.90	416.63
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,120.69 444.70 800.47 333.53	444.60
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,876.37 411.86 741.34 308.89	500.14
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,335.43 361.16 650.09 270.87	477.73
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,391.97 365.73 658.32 274.30	484.87



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	Water Utilities	33 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,875.13 413.00 743.40 309.75	491.77
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,097.28 434.14 781.44 325.60	498.91
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,863.51 508.97 916.14 381.73	510.73
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,501.35 570.23 1,026.42 427.67	527.36
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,263.50 642.21 1,155.97 481.66	555.34
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,980.29 705.47 1,269.85 529.10	610.87
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,121.64 611.22 1,100.19 458.41	666.23
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,810.31 796.73 1,434.11 597.54	556.41
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,857.91 900.40 1,620.73 675.30	563.57
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,422.47 955.81 1,720.47 716.86	570.46
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,987.38 1,011.22 1,820.20 758.42	577.60
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,789.31 1,089.63 1,961.33 817.22	589.42

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	12,654.21	606.05
For Cement Mortar Lining (CML), Add	1,173.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,112.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	880.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	12,977.93	634.02
For Cement Mortar Lining (CML), Add	1,201.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,163.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	901.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	13,454.80	689.57
For Cement Mortar Lining (CML), Add	1,241.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,233.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	930.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	14,105.63	744.93
For Cement Mortar Lining (CML), Add	1,297.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,335.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	973.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	15,280.58	784.27
For Cement Mortar Lining (CML), Add	1,409.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,536.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,056.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	16,693.09	639.22
For Cement Mortar Lining (CML), Add	1,572.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,830.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,179.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	17,343.65	651.03
For Cement Mortar Lining (CML), Add	1,635.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,944.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,226.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	17,992.91	667.67
For Cement Mortar Lining (CML), Add	1,698.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,056.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,273.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	19,244.87	695.64
For Cement Mortar Lining (CML), Add	1,819.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,274.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,364.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	20,542.89	751.17
For Cement Mortar Lining (CML), Add	1,940.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,492.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,455.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	22,778.90	806.54
For Cement Mortar Lining (CML), Add	2,155.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,880.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,616.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	25,499.02	845.88
For Cement Mortar Lining (CML), Add	2,421.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,359.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,816.30	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0274 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,388.31 2,906.00 5,230.80 2,179.50	876.69
33 14 13 13-0275 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,744.38 2,555.41 4,599.73 1,916.55	785.62
33 14 13 13-0276 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,423.78 2,614.96 4,706.92 1,961.22	840.98
33 14 13 13-0277 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,288.49 2,795.47 5,031.84 2,096.60	880.32
33 14 13 13-0278 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,462.31 3,208.18 5,774.73 2,406.14	911.13
33 14 13 13-0279 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,420.65 3,801.41 6,842.53 2,851.05	928.34
33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,404.82 2,513.14 4,523.64 1,884.85	840.49
33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,887.54 2,853.02 5,135.43 2,139.76	895.86
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,847.94 3,043.10 5,477.57 2,282.32	935.20
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	36,271.67 3,480.80 6,265.44 2,610.60	966.01
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	47,336.82 4,584.71 8,252.47 3,438.53	983.22
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	51,948.25 5,041.69 9,075.05 3,781.27	1,010.66

33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	306.64 18.42 33.16 13.82	80.79
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	368.85 23.56 42.41 17.67	87.92
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	433.49 29.85 53.72 22.39	89.11
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	518.28 35.13 63.24 26.35	110.15
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	505.63 32.56 58.61 24.42	118.82
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	590.62 36.56 65.81 27.42	148.52
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	521.09 32.42 58.35 24.31	129.96
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	620.36 37.84 68.12 28.38	159.67
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	657.24 39.84 71.72 29.88	170.79
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	631.96 42.27 76.09 31.70	138.10
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	726.65 47.41 85.34 35.56	166.67
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	857.14 58.84 105.91 44.13	177.40



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	926.97 63.84 114.90 47.88	190.46
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	761.35 53.41 96.14 40.06	149.99
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	886.03 61.55 110.79 46.16	178.55
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,257.86 97.11 174.80 72.83	189.28
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,277.72 97.11 174.80 72.83	202.38
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,445.68 112.10 201.79 84.08	214.26
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,474.31 117.67 211.81 88.26	196.40
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,727.62 141.38 254.48 106.04	207.12
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,776.04 144.24 259.62 108.18	220.23
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,874.01 152.23 274.02 114.17	232.11
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,070.99 169.23 304.61 126.92	249.97
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,684.96 134.95 242.92 101.22	221.38

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross.....	1,911.13	232.11
For Cement Mortar Lining (CML), Add	155.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	280.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	116.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross.....	2,277.42	245.20
For Cement Mortar Lining (CML), Add	190.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross.....	2,533.09	257.09
For Cement Mortar Lining (CML), Add	214.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	385.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross.....	3,048.53	274.94
For Cement Mortar Lining (CML), Add	263.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	473.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	197.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross.....	3,561.92	299.97
For Cement Mortar Lining (CML), Add	310.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	559.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	233.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross.....	2,754.38	261.78
For Cement Mortar Lining (CML), Add	235.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	424.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross.....	2,910.58	272.50
For Cement Mortar Lining (CML), Add	249.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	449.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross.....	3,047.53	285.59
For Cement Mortar Lining (CML), Add	261.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	470.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	196.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross.....	3,299.75	297.49
For Cement Mortar Lining (CML), Add	284.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	512.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	213.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross.....	3,839.47	315.33
For Cement Mortar Lining (CML), Add	336.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	605.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	252.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross.....	4,088.69	340.31
For Cement Mortar Lining (CML), Add	357.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	643.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	267.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross.....	4,289.84	380.69
For Cement Mortar Lining (CML), Add	371.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	668.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	278.48	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,462.35 296.47 533.64 222.35	328.45
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,619.97 310.61 559.09 232.96	339.18
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,732.65 319.89 575.80 239.92	352.28
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,983.45 343.17 617.70 257.38	364.16
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,057.60 347.88 626.18 260.91	382.02
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,889.47 427.28 769.11 320.46	406.99
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,090.63 441.28 794.30 330.96	447.38
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,518.69 473.98 853.16 355.49	514.01
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,708.28 408.57 735.43 306.43	410.88
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,819.10 418.00 752.40 313.50	421.59
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,001.42 434.28 781.70 325.71	434.69
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,159.38 448.27 806.89 336.21	446.59

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,256.40 455.27 819.49 341.45	464.43
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,458.48 471.70 849.05 353.77	489.42
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,177.68 637.50 1,147.49 478.12	529.80
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,581.46 667.77 1,201.99 500.83	596.49
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,360.41 733.18 1,319.72 549.88	678.93
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,926.40 809.86 1,457.76 607.40	546.31
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,104.76 825.72 1,486.29 619.29	559.42
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,279.87 841.43 1,514.57 631.07	571.30
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,488.26 859.56 1,547.21 644.67	589.16
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,728.91 879.84 1,583.71 659.88	614.13
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,015.75 902.40 1,624.33 676.80	654.53
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,386.68 929.39 1,672.91 697.05	721.21



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,312.02 1,209.44 2,176.99 907.08	803.62
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,308.94 1,390.24 2,502.42 1,042.68	928.36
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,403.45 1,150.60 2,071.09 862.95	592.29
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,580.39 1,166.31 2,099.36 874.73	605.38
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,732.65 1,179.74 2,123.53 884.80	617.28
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,916.77 1,195.45 2,151.80 896.58	635.12
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,134.56 1,213.44 2,184.19 910.08	660.12
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,397.13 1,233.58 2,220.44 925.18	700.50
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,745.21 1,258.28 2,264.91 943.71	767.17
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,341.35 1,305.41 2,349.73 979.06	849.60
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,262.99 1,778.67 3,201.61 1,334.01	974.32
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,149.15 1,960.33 3,528.59 1,470.24	1,020.34

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,600.17 1,562.46 2,812.43 1,171.85	643.86
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,748.97 1,774.64 3,194.35 1,330.98	661.72
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,986.38 1,594.59 2,870.27 1,195.95	686.69
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,220.39 1,611.87 2,901.37 1,208.91	727.08
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,557.04 1,635.44 2,943.79 1,226.58	793.77
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,111.77 1,678.42 3,021.16 1,258.82	876.18
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,150.50 2,163.40 3,894.12 1,622.55	1,000.90
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,153.49 2,856.73 5,142.12 2,142.55	1,046.87
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,295.90 3,066.95 5,520.50 2,300.21	1,073.48
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,405.28 2,126.98 3,828.57 1,595.24	749.40
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,560.86 2,139.84 3,851.70 1,604.88	767.25
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,770.08 2,156.97 3,882.55 1,617.73	792.23



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,002.64 2,174.11 3,913.40 1,630.58	832.62
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,319.32 2,195.67 3,952.21 1,646.75	899.30
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,851.19 2,236.37 4,025.47 1,677.28	981.72
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,264.04 2,358.76 4,245.77 1,769.07	1,106.45
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,891.78 2,914.57 5,246.22 2,185.93	1,152.42
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,624.78 3,783.84 6,810.91 2,837.88	1,179.00
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,209.57 4,026.33 7,247.39 3,019.75	1,284.49
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers <small>(33 14 13 13-0002)</small>		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	149.44 8.28 14.91 6.21	43.96
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	174.88 9.14 16.45 6.86	55.10
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	188.85 10.00 17.99 7.50	58.67
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	237.35 13.71 24.68 10.28	66.10
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	262.67 14.57 26.22 10.92	77.23

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	285.28	70.47
For Cement Mortar Lining (CML), Add	17.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	311.51	81.18
For Cement Mortar Lining (CML), Add	18.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	340.90	88.32
For Cement Mortar Lining (CML), Add	20.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	343.23	77.61
For Cement Mortar Lining (CML), Add	22.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	382.31	88.32
For Cement Mortar Lining (CML), Add	24.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	400.28	95.47
For Cement Mortar Lining (CML), Add	25.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	437.86	102.37
For Cement Mortar Lining (CML), Add	28.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	702.96	100.14
For Cement Mortar Lining (CML), Add	55.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	685.24	107.29
For Cement Mortar Lining (CML), Add	52.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	618.58	114.19
For Cement Mortar Lining (CML), Add	44.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	650.81	121.33
For Cement Mortar Lining (CML), Add	46.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	825.26	116.76
For Cement Mortar Lining (CML), Add	64.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.63	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	811.82 62.41 112.33 46.81	123.91
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	799.43 60.12 108.22 45.09	130.81
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	865.95 65.69 118.25 49.27	137.96
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	962.39 73.55 132.38 55.16	149.78
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,031.28 80.12 144.21 60.09	151.89
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,153.13 91.25 164.26 68.44	158.79
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,115.41 86.40 155.52 64.80	165.93
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,183.29 91.40 164.51 68.55	177.75
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,248.47 95.40 171.71 71.55	194.39
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,453.89 113.96 205.13 85.47	207.44
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,398.66 107.39 193.31 80.54	214.32
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,296.66 96.11 173.00 72.08	221.47

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,307.43	233.29
For Cement Mortar Lining (CML), Add	95.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	171.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,352.61	249.91
For Cement Mortar Lining (CML), Add	97.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,616.34	277.89
For Cement Mortar Lining (CML), Add	119.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	215.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,891.79	276.83
For Cement Mortar Lining (CML), Add	147.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,946.84	288.66
For Cement Mortar Lining (CML), Add	150.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	271.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	113.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,992.02	305.28
For Cement Mortar Lining (CML), Add	152.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	275.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	114.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,967.28	333.25
For Cement Mortar Lining (CML), Add	146.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	263.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	109.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,399.89	388.80
For Cement Mortar Lining (CML), Add	181.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	325.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,842.45	344.63
For Cement Mortar Lining (CML), Add	332.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	597.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	249.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,016.22	372.60
For Cement Mortar Lining (CML), Add	345.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	621.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	258.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,909.00	428.13
For Cement Mortar Lining (CML), Add	326.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	586.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	244.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,837.23	483.50
For Cement Mortar Lining (CML), Add	310.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	558.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.85	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,746.48	458.94
For Cement Mortar Lining (CML), Add	505.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	909.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	378.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,789.30	514.30
For Cement Mortar Lining (CML), Add	401.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	721.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	300.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,200.23	553.65
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,415.43	392.65
For Cement Mortar Lining (CML), Add	682.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,227.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	511.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,394.98	420.62
For Cement Mortar Lining (CML), Add	675.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,216.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	506.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,456.29	476.16
For Cement Mortar Lining (CML), Add	673.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,212.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	505.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0426 EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,321.33	531.53
For Cement Mortar Lining (CML), Add	751.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,352.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	563.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427 EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,898.60	570.87
For Cement Mortar Lining (CML), Add	603.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,086.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	452.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428 EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,222.32	601.68
For Cement Mortar Lining (CML), Add	631.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,135.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	473.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429 EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,961.86	420.09
For Cement Mortar Lining (CML), Add	932.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,678.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	699.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,670.07	448.07
For Cement Mortar Lining (CML), Add	899.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,618.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	674.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,240.11	503.60
For Cement Mortar Lining (CML), Add	847.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,525.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	635.78	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,539.64	558.96
For Cement Mortar Lining (CML), Add	869.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,564.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	651.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,380.07	598.31
For Cement Mortar Lining (CML), Add	1,047.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,885.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	785.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,997.23	629.12
For Cement Mortar Lining (CML), Add	904.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,627.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	678.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,963.01	646.34
For Cement Mortar Lining (CML), Add	998.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,797.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	748.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps.....	177.77	92.82
For Cement Mortar Lining (CML), Add	3.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps.....	203.59	108.91
For Cement Mortar Lining (CML), Add	3.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps.....	274.82	136.15
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps.....	349.99	155.61
For Cement Mortar Lining (CML), Add	11.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps.....	504.95	238.07
For Cement Mortar Lining (CML), Add	14.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	25.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps.....	609.14	259.72
For Cement Mortar Lining (CML), Add	21.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps.....	759.88	285.68
For Cement Mortar Lining (CML), Add	32.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps.....	919.37	317.39
For Cement Mortar Lining (CML), Add	43.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.88	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0445	EA			18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,076.60 53.55 96.40 40.16	357.10
33 14 13 13-0446	EA			20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,310.98 69.26 124.67 51.95	408.07
33 14 13 13-0447	EA			24" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,672.52 95.11 171.20 71.33	476.14
33 14 13 13-0448	EA			30" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,040.68 217.50 391.49 163.12	571.36
33 14 13 13-0449	EA			36" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,037.91 395.58 712.04 296.68	714.21
33 14 13 13-0450	EA			42" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,297.92 599.94 1,079.88 449.95	857.04
33 14 13 13-0451	EA			48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,671.78 722.89 1,301.21 542.17	952.28
33 14 13 13-0452				Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0002)</small>		
33 14 13 13-0453	EA			3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	183.48 4.28 7.71 3.21	92.82
33 14 13 13-0454	EA			4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	212.16 4.71 8.48 3.53	108.91
33 14 13 13-0455	EA			6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	297.67 9.14 16.45 6.86	136.15
33 14 13 13-0456	EA			8" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	372.84 13.71 24.68 10.28	155.61
33 14 13 13-0457	EA			10" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	597.77 23.71 42.67 17.78	238.07

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug.....	634.85	259.72
For Cement Mortar Lining (CML), Add	24.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug.....	924.11	285.68
For Cement Mortar Lining (CML), Add	49.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	88.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug.....	543.79	317.39
For Cement Mortar Lining (CML), Add	6.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug.....	1,320.80	357.10
For Cement Mortar Lining (CML), Add	77.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	140.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug.....	1,643.73	408.07
For Cement Mortar Lining (CML), Add	102.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	184.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug.....	2,143.79	476.14
For Cement Mortar Lining (CML), Add	142.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	3,689.02	571.36
For Cement Mortar Lining (CML), Add	282.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	508.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	5,443.49	714.21
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	7,349.34	857.04
For Cement Mortar Lining (CML), Add	605.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,089.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	9,508.63	952.28
For Cement Mortar Lining (CML), Add	806.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,451.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	604.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	306.60	141.09
For Cement Mortar Lining (CML), Add	9.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	347.50	163.37
For Cement Mortar Lining (CML), Add	10.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.50	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0471 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	447.93	204.21
For Cement Mortar Lining (CML), Add	13.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	563.55	233.35
For Cement Mortar Lining (CML), Add	20.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	906.66	357.10
For Cement Mortar Lining (CML), Add	36.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	65.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,058.66	389.57
For Cement Mortar Lining (CML), Add	46.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,393.31	428.53
For Cement Mortar Lining (CML), Add	74.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,571.13	476.14
For Cement Mortar Lining (CML), Add	84.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	152.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,111.15	535.65
For Cement Mortar Lining (CML), Add	129.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	233.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,475.58	612.16
For Cement Mortar Lining (CML), Add	154.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	278.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	116.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,988.62	714.21
For Cement Mortar Lining (CML), Add	190.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,807.35	857.04
For Cement Mortar Lining (CML), Add	350.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	631.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,651.47	1,071.31
For Cement Mortar Lining (CML), Add	502.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	905.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	377.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,865.52	1,224.32
For Cement Mortar Lining (CML), Add	701.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,261.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	525.78	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0483 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	10,944.10	1,428.42
For Cement Mortar Lining (CML), Add	877.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,580.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	658.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0485 EA 3" Mechanical Joint Ductile Iron Long Sleeves.....	292.31	141.09
For Cement Mortar Lining (CML), Add	7.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0486 EA 4" Mechanical Joint Ductile Iron Long Sleeves.....	340.36	163.37
For Cement Mortar Lining (CML), Add	9.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0487 EA 6" Mechanical Joint Ductile Iron Long Sleeves.....	465.07	204.21
For Cement Mortar Lining (CML), Add	15.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0488 EA 8" Mechanical Joint Ductile Iron Long Sleeves.....	609.25	233.35
For Cement Mortar Lining (CML), Add	25.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0489 EA 10" Mechanical Joint Ductile Iron Long Sleeves.....	845.25	357.10
For Cement Mortar Lining (CML), Add	30.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	54.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0490 EA 12" Mechanical Joint Ductile Iron Long Sleeves.....	1,001.54	389.57
For Cement Mortar Lining (CML), Add	41.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0491 EA 14" Mechanical Joint Ductile Iron Long Sleeves.....	1,270.49	428.53
For Cement Mortar Lining (CML), Add	62.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	111.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0492 EA 16" Mechanical Joint Ductile Iron Long Sleeves.....	1,508.29	476.14
For Cement Mortar Lining (CML), Add	78.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	141.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0493 EA 18" Mechanical Joint Ductile Iron Long Sleeves.....	1,818.40	535.65
For Cement Mortar Lining (CML), Add	100.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	181.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0494 EA 20" Mechanical Joint Ductile Iron Long Sleeves.....	2,142.84	612.16
For Cement Mortar Lining (CML), Add	121.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	218.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0495 EA 24" Mechanical Joint Ductile Iron Long Sleeves.....	2,683.01	714.21
For Cement Mortar Lining (CML), Add	160.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.07	
Note: ANSI/AWWA C151/A21.51		



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Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0496 EA 30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,651.69 335.31 603.56 251.48	857.04
33 14 13 13-0497 EA 36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,331.58 470.84 847.51 353.13	1,071.31
33 14 13 13-0498 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,150.80 629.78 1,133.61 472.34	1,222.91
33 14 13 13-0499 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,011.22 884.70 1,592.45 663.52	1,428.42
33 14 13 13-0500 Mechanical Joint Ductile Iron Gland Packs <small>(33 14 13 13-0002)</small> Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0501 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0500)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0502 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	28.56	
33 14 13 13-0503 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	38.45	
33 14 13 13-0504 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	46.46	
33 14 13 13-0505 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	54.47	
33 14 13 13-0506 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	75.30	
33 14 13 13-0507 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	80.11	
33 14 13 13-0508 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	131.38	
33 14 13 13-0509 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	139.39	
33 14 13 13-0510 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	185.85	
33 14 13 13-0511 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	240.32	
33 14 13 13-0512 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	334.85	
33 14 13 13-0513 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	799.48	
33 14 13 13-0514 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,723.92	
33 14 13 13-0515 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	2,516.99	
33 14 13 13-0516 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	3,088.96	
33 14 13 13-0517 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts <small>(33 14 13 13-0500)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0518 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	48.55	
33 14 13 13-0519 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	54.47	
33 14 13 13-0520 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	68.89	
33 14 13 13-0521 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	75.30	
33 14 13 13-0522 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	104.14	
33 14 13 13-0523 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	108.95	
33 14 13 13-0524 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	165.02	
33 14 13 13-0525 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	181.04	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0526 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	240.32	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0527 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	310.82	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0528 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	434.19	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0529 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0500)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0530 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	31.42	
33 14 13 13-0531 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	41.66	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0532 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	49.67	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0533 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	59.28	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0534 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	81.71	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0535 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	86.52	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0536 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	142.59	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0537 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	150.60	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0538 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	203.47	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0539 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	261.15	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0540 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	365.29	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0541 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	874.78	
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0542 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,938.61	
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0543 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,806.98	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0544 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,454.26	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0545 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) <small>(33 14 13 13-0002)</small>		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0546 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	190.87	70.77
33 14 13 13-0547 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	217.87	83.82
33 14 13 13-0548 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	270.26	103.74
33 14 13 13-0549 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	336.86	121.07
33 14 13 13-0550 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	489.87	178.55
33 14 13 13-0551 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	603.21	204.09
33 14 13 13-0552 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	701.60	219.68
33 14 13 13-0553 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	863.13	238.07
33 14 13 13-0554 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,106.63	285.68
33 14 13 13-0555 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,305.27	317.29
33 14 13 13-0556 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,692.97	366.09
33 14 13 13-0557 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,274.35	439.02
33 14 13 13-0558 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,043.80	549.39
33 14 13 13-0559 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	5,960.01	633.91
33 14 13 13-0560 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	7,632.62	815.28
33 14 13 13-0561 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) <small>(33 14 13 13-0002)</small>		
33 14 13 13-0562 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,029.12	57.92
33 14 13 13-0563 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,195.59	72.41
33 14 13 13-0564 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,088.09	107.00
33 14 13 13-0565 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	8,273.28	126.92
33 14 13 13-0566 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	10,430.91	142.52
33 14 13 13-0567 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	13,911.79	167.19
33 14 13 13-0568 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,136.98	187.48
33 14 13 13-0569 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	20,273.59	214.26
33 14 13 13-0570 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,858.78	299.97
33 14 13 13-0571 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	30,751.19	374.95
33 14 13 13-0572 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	42,608.67	499.95
33 14 13 13-0573 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) <small>(33 14 13 13-0002)</small>		
Note: Includes machined bolts and gasket.		
33 14 13 13-0574 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	189.52	70.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0575 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	242.90	83.82
33 14 13 13-0576 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	313.69	103.74
33 14 13 13-0577 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	358.16	121.07
33 14 13 13-0578 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	627.63	185.64
33 14 13 13-0579 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	710.43	212.20
33 14 13 13-0580 Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) <small>(33 14 13 13-0002)</small> Note: Includes nuts, bolts and gasket.		
33 14 13 13-0581 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	274.60	70.77
33 14 13 13-0582 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	341.34	83.82
33 14 13 13-0583 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	471.96	103.74
33 14 13 13-0584 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	680.89	121.07
33 14 13 13-0585 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	986.96	185.64
33 14 13 13-0586 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,226.17	212.20
33 14 13 13-0587 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,884.25	228.40
33 14 13 13-0588 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,636.97	247.53
33 14 13 13-0589 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,983.47	297.04
33 14 13 13-0590 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,295.73	329.89
33 14 13 13-0591 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,986.10	380.64
33 14 13 13-0592 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,126.64	456.47
33 14 13 13-0593 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	7,651.60	571.23
33 14 13 13-0594 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	19,915.81	659.11
33 14 13 13-0595 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	25,509.49	847.68
33 14 13 13-0596 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small> Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets.		
33 14 13 13-0597 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0598 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	365.39	40.40
33 14 13 13-0599 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	437.29	48.38
33 14 13 13-0600 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	677.82	70.89
33 14 13 13-0601 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	923.69	84.39
33 14 13 13-0602 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,263.54	95.22
33 14 13 13-0603 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,599.74	111.46
33 14 13 13-0604 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,265.79	125.53
33 14 13 13-0605 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,746.98	142.85
33 14 13 13-0606 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,326.21	200.19
33 14 13 13-0607 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,146.01	249.97
33 14 13 13-0608 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,856.85	333.29
33 14 13 13-0609 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	9,333.76	357.10
33 14 13 13-0610 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	13,708.56	371.17
33 14 13 13-0611 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	22,540.32	428.53
33 14 13 13-0612 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	29,459.40	455.57
33 14 13 13-0613 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0614 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	349.68	40.40
33 14 13 13-0615 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	410.16	48.38
33 14 13 13-0616 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	630.70	70.89
33 14 13 13-0617 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	850.86	84.39
33 14 13 13-0618 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,109.31	95.22
33 14 13 13-0619 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,461.21	111.46
33 14 13 13-0620 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,968.75	125.53
33 14 13 13-0621 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,355.68	142.85
33 14 13 13-0622 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,793.53	200.19
33 14 13 13-0623 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,393.41	249.97
33 14 13 13-0624 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,473.04	333.29
33 14 13 13-0625 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	8,167.02	357.10
33 14 13 13-0626 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,262.26	371.17
33 14 13 13-0627 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	16,705.18	428.53
33 14 13 13-0628 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	21,362.19	455.57
33 14 13 13-0629 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0630 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	273.99	40.40
33 14 13 13-0631 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	405.87	48.38
33 14 13 13-0632 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	613.56	70.89
33 14 13 13-0633 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	845.15	84.39
33 14 13 13-0634 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,107.88	95.22
33 14 13 13-0635 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,378.38	111.46
33 14 13 13-0636 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,980.17	125.53
33 14 13 13-0637 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,304.27	142.85
33 14 13 13-0638 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,780.68	200.19

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0639 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,511.94	249.97
33 14 13 13-0640 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,378.79	333.29
33 14 13 13-0641 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,277.32	357.10
33 14 13 13-0642 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,905.59	371.17
33 14 13 13-0643 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,150.35	428.53
33 14 13 13-0644 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	18,096.17	455.57
33 14 13 13-0645 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0646 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	273.99	40.40
33 14 13 13-0647 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	484.42	48.38
33 14 13 13-0648 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	619.27	70.89
33 14 13 13-0649 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	819.44	84.39
33 14 13 13-0650 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,105.03	95.22
33 14 13 13-0651 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,339.83	111.46
33 14 13 13-0652 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,130.12	125.53
33 14 13 13-0653 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,374.25	142.85
33 14 13 13-0654 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,186.25	200.19
33 14 13 13-0655 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,389.12	249.97
33 14 13 13-0656 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,380.22	333.29
33 14 13 13-0657 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,371.58	357.10
33 14 13 13-0658 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,635.68	371.17
33 14 13 13-0659 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,764.77	428.53
33 14 13 13-0660 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,993.35	455.57
33 14 13 13-0661 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0662 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	321.12	40.40
33 14 13 13-0663 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	470.14	48.38
33 14 13 13-0664 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	732.09	70.89
33 14 13 13-0665 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	992.24	84.39
33 14 13 13-0666 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,363.51	95.22
33 14 13 13-0667 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,709.70	111.46
33 14 13 13-0668 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,055.52	125.53
33 14 13 13-0669 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,756.29	142.85
33 14 13 13-0670 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,444.05	200.19
33 14 13 13-0671 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,279.56	249.97
33 14 13 13-0672 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,805.10	333.29
33 14 13 13-0673 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0674 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	321.12	40.40
33 14 13 13-0675 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	415.87	48.38
33 14 13 13-0676 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	653.55	70.89
33 14 13 13-0677 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	920.83	84.39
33 14 13 13-0678 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,219.27	95.22
33 14 13 13-0679 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,584.03	111.46
33 14 13 13-0680 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,105.84	125.53
33 14 13 13-0681 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,528.48	142.85
33 14 13 13-0682 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,715.72	200.19
33 14 13 13-0683 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,957.14	249.97
33 14 13 13-0684 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	5,179.94	333.29
33 14 13 13-0685 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee <small>(33 14 13 13-0596)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0686	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	453.11	60.60
33 14 13	13-0687	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	494.80	68.32
33 14 13	13-0688	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	522.16	70.89
33 14 13	13-0689	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	741.66	89.85
33 14 13	13-0690	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	802.95	93.39
33 14 13	13-0691	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	848.40	104.64
33 14 13	13-0692	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	984.00	108.02
33 14 13	13-0693	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,065.14	119.26
33 14 13	13-0694	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,170.65	127.14
33 14 13	13-0695	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,317.09	117.95
33 14 13	13-0696	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,317.61	128.77
33 14 13	13-0697	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,426.98	136.34
33 14 13	13-0698	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,538.82	142.85
33 14 13	13-0699	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,582.93	132.02
33 14 13	13-0700	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,599.15	142.85
33 14 13	13-0701	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,728.51	150.42
33 14 13	13-0702	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,988.89	156.91
33 14 13	13-0703	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,995.42	164.48
33 14 13	13-0704	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,256.19	166.65
33 14 13	13-0705	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,439.82	174.22
33 14 13	13-0706	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,954.39	180.72
33 14 13	13-0707	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,118.01	188.29
33 14 13	13-0708	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,894.57	200.19
33 14 13	13-0709	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,699.21	200.19
33 14 13	13-0710	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,844.38	206.69
33 14 13	13-0711	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,404.64	214.26
33 14 13	13-0712	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,198.39	220.76
33 14 13	13-0713	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,160.26	232.66
33 14 13	13-0714	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,772.74	249.97
33 14 13	13-0715	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,542.39	256.46
33 14 13	13-0716	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,734.58	262.96
33 14 13	13-0717	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,977.81	269.45
33 14 13	13-0718	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,202.85	277.03
33 14 13	13-0719	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,319.30	288.93
33 14 13	13-0720	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,614.40	305.16
33 14 13	13-0721	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,149.48	333.29
33 14 13	13-0722	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,089.12	366.84
33 14 13	13-0723	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,158.50	374.41
33 14 13	13-0724	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,563.10	380.91
33 14 13	13-0725	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,785.29	388.49
33 14 13	13-0726	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,834.61	400.39
33 14 13	13-0727	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,778.40	416.62
33 14 13	13-0728	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,088.93	444.75
33 14 13	13-0729	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,219.11	499.95
33 14 13	13-0730	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,970.93	477.22
33 14 13	13-0731	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,018.90	485.88
33 14 13	13-0732	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,109.33	491.28
33 14 13	13-0733	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,242.95	498.86
33 14 13	13-0734	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,950.62	510.77
33 14 13	13-0735	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,205.74	527.00
33 14 13	13-0736	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,616.23	555.13
33 14 13	13-0737	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,871.75	611.40
33 14 13	13-0738	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,405.82	666.60
33 14 13	13-0739	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,637.51	556.22
33 14 13	13-0740	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,231.33	563.79
33 14 13	13-0741	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,694.49	570.28
33 14 13	13-0742	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,159.44	577.85
33 14 13	13-0743	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,819.99	589.76
33 14 13	13-0744	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,533.51	784.55
33 14 13	13-0745	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,493.07	634.13
33 14 13	13-0746	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,492.96	689.31
33 14 13	13-0747	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,938.15	744.51
33 14 13	13-0748	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,034.21	784.55
33 14 13	13-0749	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,925.91	625.48
33 14 13	13-0750	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,973.16	631.97
33 14 13	13-0751	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,539.49	639.54
33 14 13	13-0752	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,941.57	651.44
33 14 13	13-0753	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,346.63	667.68
33 14 13	13-0754	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,125.89	695.81
33 14 13	13-0755	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,948.36	751.00
33 14 13	13-0756	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,341.80	806.19
33 14 13	13-0757	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,183.65	876.53
33 14 13	13-0758	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,626.64	876.53
33 14 13	13-0759	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,142.34	674.17
33 14 13	13-0760	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,567.24	684.99
33 14 13	13-0761	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,708.85	702.31
33 14 13	13-0762	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,010.11	730.44
33 14 13	13-0763	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,094.26	785.63
33 14 13	13-0764	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,451.21	840.82
33 14 13	13-0765	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,857.84	880.85
33 14 13	13-0766	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,282.66	911.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0845 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	33,384.29	695.81
33 14 13 13-0846 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,626.27	751.00
33 14 13 13-0847 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,534.56	806.19
33 14 13 13-0848 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	44,322.54	846.22
33 14 13 13-0849 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,976.25	876.53
33 14 13 13-0850 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	46,607.55	785.63
33 14 13 13-0851 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	47,749.65	840.82
33 14 13 13-0852 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	51,016.72	880.85
33 14 13 13-0853 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	58,399.44	911.16
33 14 13 13-0854 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	68,969.05	928.47
33 14 13 13-0855 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,939.53	840.82
33 14 13 13-0856 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,064.20	896.00
33 14 13 13-0857 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	55,501.23	934.96
33 14 13 13-0858 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,328.08	966.34
33 14 13 13-0859 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	82,973.13	983.66
33 14 13 13-0860 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	91,136.19	1,010.71
33 14 13 13-0861 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee <small>(33 14 13 13-0596)</small>		
33 14 13 13-0862 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	901.24	104.64
33 14 13 13-0863 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,119.41	119.26
33 14 13 13-0864 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,603.23	128.77
33 14 13 13-0865 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,844.78	142.85
33 14 13 13-0866 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,437.55	166.65
33 14 13 13-0867 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,969.22	200.19
33 14 13 13-0868 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	3,506.69	256.46
33 14 13 13-0869 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	4,716.05	366.84
33 14 13 13-0870 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	5,506.10	477.22
33 14 13 13-0871 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	9,978.48	556.22
33 14 13 13-0872 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross <small>(33 14 13 13-0596)</small>		
33 14 13 13-0873 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	506.57	80.79
33 14 13 13-0874 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	631.62	87.92
33 14 13 13-0875 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	787.65	88.88
33 14 13 13-0876 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	836.74	110.20
33 14 13 13-0877 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	978.33	119.26
33 14 13 13-0878 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,081.88	148.52
33 14 13 13-0879 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,039.49	130.52
33 14 13 13-0880 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,225.87	159.77
33 14 13 13-0881 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,214.20	171.02
33 14 13 13-0882 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,223.19	138.51
33 14 13 13-0883 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,372.14	166.65
33 14 13 13-0884 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,628.30	177.46
33 14 13 13-0885 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,763.83	190.46
33 14 13 13-0886 EA 12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,569.65	150.42
33 14 13 13-0887 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,817.14	178.55
33 14 13 13-0888 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,971.90	189.38
33 14 13 13-0889 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,298.80	202.36
33 14 13 13-0890 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,623.85	214.26
33 14 13 13-0891 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,711.03	195.87
33 14 13 13-0892 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,212.82	206.69
33 14 13 13-0893 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,291.23	220.76
33 14 13 13-0894 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,473.46	231.58
33 14 13 13-0895 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,848.95	249.97
33 14 13 13-0896 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,034.49	221.84
33 14 13 13-0897 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,470.60	231.58
33 14 13 13-0898 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,183.07	245.64
33 14 13 13-0899 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,676.64	257.54
33 14 13 13-0900 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,679.05	274.86
33 14 13 13-0901 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,928.25	299.76
33 14 13 13-0902 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,232.10	261.88
33 14 13 13-0903 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,535.39	272.70
33 14 13 13-0904 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,795.16	285.68
33 14 13 13-0905 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,294.43	297.58
33 14 13 13-0906 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,372.54	314.90
33 14 13 13-0907 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,843.11	339.79
33 14 13 13-0908 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,191.35	380.91
33 14 13 13-0909 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,578.42	328.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT
UNIT COST DEMOLITION
UNIT COST

33 14 13 13-0910	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,884.56	338.70
33 14 13 13-0911	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,094.35	352.78
33 14 13 13-0912	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,589.35	364.68
33 14 13 13-0913	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,713.49	382.00
33 14 13 13-0914	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,379.35	406.88
33 14 13 13-0915	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,727.60	446.92
33 14 13 13-0916	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,499.83	514.01
33 14 13 13-0917	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,002.51	411.21
33 14 13 13-0918	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,211.87	422.04
33 14 13 13-0919	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,565.57	435.02
33 14 13 13-0920	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,870.62	446.92
33 14 13 13-0921	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,040.47	464.24
33 14 13 13-0922	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,415.34	489.12
33 14 13 13-0923	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,876.80	530.24
33 14 13 13-0924	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,599.05	596.25
33 14 13 13-0925	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,066.33	678.50
33 14 13 13-0926	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,963.24	546.48
33 14 13 13-0927	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,240.13	559.46
33 14 13 13-0928	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,512.35	571.36
33 14 13 13-0929	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,833.57	588.68
33 14 13 13-0930	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,201.31	614.65
33 14 13 13-0931	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,628.10	654.69
33 14 13 13-0932	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,166.12	720.70
33 14 13 13-0933	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,833.72	804.02
33 14 13 13-0934	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	23,954.55	928.47
33 14 13 13-0935	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,559.56	591.93
33 14 13 13-0936	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,833.61	604.91
33 14 13 13-0937	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,070.12	616.81
33 14 13 13-0938	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,351.35	635.21
33 14 13 13-0939	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,680.53	660.10
33 14 13 13-0940	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,068.77	700.14
33 14 13 13-0941	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,571.09	767.23
33 14 13 13-0942	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,459.98	849.47
33 14 13 13-0943	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,324.89	973.91
33 14 13 13-0944	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	33,340.67	1,020.45
33 14 13 13-0945	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,316.83	643.87
33 14 13 13-0946	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,865.11	661.19
33 14 13 13-0947	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,184.30	687.15
33 14 13 13-0948	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,626.81	727.19
33 14 13 13-0949	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	28,424.73	794.29
33 14 13 13-0950	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,110.50	876.53
33 14 13 13-0951	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,604.45	1,000.97
33 14 13 13-0952	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	47,920.24	1,046.42
33 14 13 13-0953	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	51,369.34	1,073.48
33 14 13 13-0954	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,633.59	749.92
33 14 13 13-0955	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,869.14	767.23
33 14 13 13-0956	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,184.04	792.12
33 14 13 13-0957	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,523.70	832.16
33 14 13 13-0958	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,974.62	899.26
33 14 13 13-0959	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	37,759.26	981.50
33 14 13 13-0960	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	39,933.28	1,105.94
33 14 13 13-0961	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	49,018.40	1,152.47
33 14 13 13-0962	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	63,156.68	1,179.53
33 14 13 13-0963	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	67,249.52	1,284.49

33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0964)

33 14 13 13-0965	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	359.37	43.96
33 14 13 13-0966	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	501.91	55.10
33 14 13 13-0967	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	551.58	58.51
33 14 13 13-0968	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	722.89	66.38
33 14 13 13-0969	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	752.51	77.64
33 14 13 13-0970	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	885.07	70.34
33 14 13 13-0971	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	927.01	81.16
33 14 13 13-0972	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	964.97	88.73
33 14 13 13-0973	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,022.99	77.91
33 14 13 13-0974	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,132.05	88.73
33 14 13 13-0975	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,151.45	95.22
33 14 13 13-0976	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,203.31	102.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0977 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,766.88	100.64
33 14 13 13-0978 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,777.72	107.13
33 14 13 13-0979 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,549.69	114.71
33 14 13 13-0980 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,581.92	121.20
33 14 13 13-0981 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,117.67	116.87
33 14 13 13-0982 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,055.68	124.44
33 14 13 13-0983 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,931.90	130.94
33 14 13 13-0984 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,909.87	137.43
33 14 13 13-0985 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,159.12	149.34
33 14 13 13-0986 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,305.13	151.50
33 14 13 13-0987 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,598.35	159.07
33 14 13 13-0988 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,483.51	165.56
33 14 13 13-0989 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,966.96	177.46
33 14 13 13-0990 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,602.29	194.78
33 14 13 13-0991 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,070.47	207.77
33 14 13 13-0992 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,095.22	214.26
33 14 13 13-0993 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,814.71	221.84
33 14 13 13-0994 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,814.05	233.74
33 14 13 13-0995 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,747.84	249.97
33 14 13 13-0996 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,248.64	278.11
33 14 13 13-0997 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,869.68	277.03
33 14 13 13-0998 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,927.59	288.93
33 14 13 13-0999 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,998.48	305.16
33 14 13 13-1000 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,940.89	333.29
33 14 13 13-1001 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,546.29	388.49
33 14 13 13-1002 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,042.77	344.12
33 14 13 13-1003 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,343.65	372.25
33 14 13 13-1004 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,082.19	428.53
33 14 13 13-1005 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,015.05	483.71
33 14 13 13-1006 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,289.55	458.82
33 14 13 13-1007 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,643.69	514.01
33 14 13 13-1008 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,228.84	554.05
33 14 13 13-1009 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,714.69	392.82
33 14 13 13-1010 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,637.12	420.95
33 14 13 13-1011 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,677.00	476.14
33 14 13 13-1012 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,216.45	531.32
33 14 13 13-1013 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,631.26	571.36
33 14 13 13-1014 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,172.04	601.66
33 14 13 13-1015 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,276.49	419.87
33 14 13 13-1016 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,721.93	448.00
33 14 13 13-1017 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,889.25	503.19
33 14 13 13-1018 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,357.30	559.46

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1019 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,594.38	598.42
33 14 13 13-1020 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,956.26	628.72
33 14 13 13-1021 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,644.65	646.03
33 14 13 13-1022 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0596)</small>		
33 14 13 13-1023 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	336.29	92.82
33 14 13 13-1024 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	404.95	109.14
33 14 13 13-1025 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	589.00	136.15
33 14 13 13-1026 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	785.55	155.27
33 14 13 13-1027 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,053.33	238.07
33 14 13 13-1028 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,321.75	259.72
33 14 13 13-1029 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,501.05	285.68
33 14 13 13-1030 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,821.92	317.06
33 14 13 13-1031 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,131.95	357.10
33 14 13 13-1032 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,567.70	407.96
33 14 13 13-1033 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,284.82	476.14
33 14 13 13-1034 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	5,913.97	571.36
33 14 13 13-1035 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	9,659.18	714.21
33 14 13 13-1036 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	13,894.23	857.04
33 14 13 13-1037 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	16,533.35	952.28
33 14 13 13-1038 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0596)</small>		
33 14 13 13-1039 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	337.72	92.82
33 14 13 13-1040 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	419.23	109.14
33 14 13 13-1041 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	626.13	136.15
33 14 13 13-1042 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	822.68	155.27
33 14 13 13-1043 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,266.11	238.07
33 14 13 13-1044 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,370.31	259.72
33 14 13 13-1045 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,810.95	285.68
33 14 13 13-1046 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,180.37	317.06
33 14 13 13-1047 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,590.36	357.10
33 14 13 13-1048 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,187.49	407.96
33 14 13 13-1049 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,167.38	476.14
33 14 13 13-1050 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	7,133.55	571.36
33 14 13 13-1051 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	10,417.49	714.21
33 14 13 13-1052 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	13,989.91	857.04
33 14 13 13-1053 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,562.65	952.28
33 14 13 13-1054 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0596)</small>		
33 14 13 13-1055 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	460.83	141.09
33 14 13 13-1056 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	605.98	163.14
33 14 13 13-1057 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	830.66	204.78
33 14 13 13-1058 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,086.22	232.91
33 14 13 13-1059 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,609.27	357.10
33 14 13 13-1060 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,915.51	389.57
33 14 13 13-1061 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,491.50	428.53
33 14 13 13-1062 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,826.41	476.14
33 14 13 13-1063 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,693.47	535.65
33 14 13 13-1064 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,282.10	612.48
33 14 13 13-1065 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,179.29	714.21
33 14 13 13-1066 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,103.36	857.04
33 14 13 13-1067 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	11,007.11	1,071.31
33 14 13 13-1068 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	14,937.73	1,223.89
33 14 13 13-1069 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	18,550.05	1,428.42



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1070 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves <small>(33 14 13 13-0596)</small>		
33 14 13 13-1071 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	477.96	141.09
33 14 13 13-1072 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	584.56	163.14
33 14 13 13-1073 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	854.94	204.78
33 14 13 13-1074 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,151.92	232.91
33 14 13 13-1075 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,517.88	357.10
33 14 13 13-1076 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,829.82	389.57
33 14 13 13-1077 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,308.71	428.53
33 14 13 13-1078 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,729.30	476.14
33 14 13 13-1079 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,253.62	535.65
33 14 13 13-1080 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,786.56	612.48
33 14 13 13-1081 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,725.16	714.21
33 14 13 13-1082 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	7,867.73	857.04
33 14 13 13-1083 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,220.24	1,071.31
33 14 13 13-1084 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,276.18	1,222.81
33 14 13 13-1085 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	19,656.81	1,428.42
33 14 13 13-1086 Push-On Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small>		
33 14 13 13-1087 Push-On Joint Ductile Iron Pipe <small>(33 14 13 13-1086)</small>		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1088 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	33.20	9.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.40	
For Cement Mortar Lining (CML), Add	1.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.34	
For Fusion Bonded Epoxy Lining (206N), Add	3.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.44	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.66	
For Class 51, Add	2.78	
For Class 52, Add	6.00	
For Class 53, Add	10.78	
For Class 54, Add	15.37	
For Class 55, Add	17.69	
For Class 56, Add	19.97	
33 14 13 13-1089 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....	36.41	10.24
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.70	
For Cement Mortar Lining (CML), Add	2.10	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	11.34	
For Fusion Bonded Epoxy Lining (206N), Add	3.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.58	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.82	
For Class 51, Add	3.05	
For Class 52, Add	6.58	
For Class 53, Add	11.83	
For Class 54, Add	16.86	
For Class 55, Add	19.41	
For Class 56, Add	21.91	
33 14 13 13-1090 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	45.58	11.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.10	
For Cement Mortar Lining (CML), Add	2.87	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.50	
For Fusion Bonded Epoxy Lining (206N), Add	5.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.15	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.28	
For Class 51, Add	4.12	
For Class 52, Add	8.89	
For Class 53, Add	16.02	
For Class 54, Add	22.85	
For Class 55, Add	26.28	
For Class 56, Add	29.65	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1091 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	64.84	16.13
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.29	
For Cement Mortar Lining (CML), Add	4.05	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.25	
For Fusion Bonded Epoxy Lining (206N), Add	7.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.24	
For Class 51, Add	5.82	
For Class 52, Add	12.56	
For Class 53, Add	22.61	
For Class 54, Add	32.25	
For Class 55, Add	37.09	
For Class 56, Add	41.85	
33 14 13 13-1092 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	75.34	17.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.14	
For Cement Mortar Lining (CML), Add	4.83	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	19.31	
For Fusion Bonded Epoxy Lining (206N), Add	8.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.62	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.77	
For Class 51, Add	6.92	
For Class 52, Add	14.92	
For Class 53, Add	26.89	
For Class 54, Add	38.35	
For Class 55, Add	44.11	
For Class 56, Add	49.75	
33 14 13 13-1093 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	91.95	20.12
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.08	
For Cement Mortar Lining (CML), Add	6.15	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.92	
For Fusion Bonded Epoxy Lining (206N), Add	11.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.62	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.60	
For Class 51, Add	8.77	
For Class 52, Add	18.92	
For Class 53, Add	34.12	
For Class 54, Add	48.68	
For Class 55, Add	55.96	
For Class 56, Add	63.11	
33 14 13 13-1094 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	109.04	22.94
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.46	
For Cement Mortar Lining (CML), Add	7.43	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.03	
For Fusion Bonded Epoxy Lining (206N), Add	13.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.57	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.45	
For Class 51, Add	10.56	
For Class 52, Add	22.79	
For Class 53, Add	41.12	
For Class 54, Add	58.68	
For Class 55, Add	67.44	
For Class 56, Add	76.05	
33 14 13 13-1095 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	126.87	26.84
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.38	
For Cement Mortar Lining (CML), Add	8.63	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.75	
For Fusion Bonded Epoxy Lining (206N), Add	15.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.34	
For Class 51, Add	12.27	
For Class 52, Add	26.48	
For Class 53, Add	47.76	
For Class 54, Add	68.16	
For Class 55, Add	78.34	
For Class 56, Add	88.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1096 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	146.30	32.14
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	37.09	
For Cement Mortar Lining (CML), Add	9.76	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.33	
For Fusion Bonded Epoxy Lining (206N), Add	17.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.32	
For Class 51, Add	13.91	
For Class 52, Add	30.02	
For Class 53, Add	54.14	
For Class 54, Add	77.24	
For Class 55, Add	88.79	
For Class 56, Add	100.14	
33 14 13 13-1097 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	185.12	40.15
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	38.50	
For Cement Mortar Lining (CML), Add	12.42	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.08	
For Fusion Bonded Epoxy Lining (206N), Add	22.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.26	
For Class 51, Add	17.69	
For Class 52, Add	38.17	
For Class 53, Add	68.84	
For Class 54, Add	98.23	
For Class 55, Add	112.92	
For Class 56, Add	127.34	
33 14 13 13-1098 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	219.51	42.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	47.92	
For Cement Mortar Lining (CML), Add	15.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.59	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-10.98	
For Class 51, Add	21.88	
For Class 52, Add	47.24	
For Class 53, Add	85.27	
For Class 54, Add	121.72	
For Class 55, Add	139.86	
For Class 56, Add	157.67	
33 14 13 13-1099 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	272.53	45.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	63.08	
For Cement Mortar Lining (CML), Add	20.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	36.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.63	
For Class 51, Add	28.60	
For Class 52, Add	61.78	
For Class 53, Add	111.64	
For Class 54, Add	159.41	
For Class 55, Add	183.08	
For Class 56, Add	206.33	
33 14 13 13-1100 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	332.53	48.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	80.44	
For Cement Mortar Lining (CML), Add	25.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.46	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.63	
For Class 51, Add	36.28	
For Class 52, Add	78.40	
For Class 53, Add	141.79	
For Class 54, Add	202.52	
For Class 55, Add	232.52	
For Class 56, Add	261.97	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1101 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	400.64	50.86
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	100.28	
For Cement Mortar Lining (CML), Add	32.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-20.03	
For Class 51, Add	45.06	
For Class 52, Add	97.39	
For Class 53, Add	176.25	
For Class 54, Add	251.78	
For Class 55, Add	289.01	
For Class 56, Add	325.56	
33 14 13 13-1102 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	508.46	53.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	132.46	
For Cement Mortar Lining (CML), Add	42.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	76.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-25.42	
For Class 51, Add	59.26	
For Class 52, Add	128.13	
For Class 53, Add	232.03	
For Class 54, Add	331.54	
For Class 55, Add	380.46	
For Class 56, Add	428.47	
33 14 13 13-1103 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1104 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	190.70	36.23
For Cement Mortar Lining (CML), Add	13.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1105 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	276.76	53.45
For Cement Mortar Lining (CML), Add	19.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1106 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	367.72	63.46
For Cement Mortar Lining (CML), Add	27.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	557.75	71.20
For Cement Mortar Lining (CML), Add	41.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	715.72	83.54
For Cement Mortar Lining (CML), Add	54.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	97.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron	1,384.78	93.71
For Cement Mortar Lining (CML), Add	119.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	214.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron	1,565.96	107.13
For Cement Mortar Lining (CML), Add	134.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	242.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.85	
Note: ANSI/AWWA C151/A21.51		



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1111 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,431.79 212.19 381.94 159.14	149.99
33 14 13 13-1112 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,741.65 236.36 425.45 177.27	189.04
33 14 13 13-1113 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,423.46 295.09 531.16 221.32	236.34
33 14 13 13-1114 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1115 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	159.82 10.49 18.88 7.87	36.23
33 14 13 13-1116 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	235.24 15.42 27.76 11.57	53.45
33 14 13 13-1117 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	323.05 22.69 40.83 17.01	63.46
33 14 13 13-1118 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	496.07 34.88 62.78 26.16	71.20
33 14 13 13-1119 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	637.13 46.45 83.61 34.84	83.54
33 14 13 13-1120 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	894.06 70.03 126.05 52.52	93.71
33 14 13 13-1121 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,309.00 108.77 195.78 81.57	107.13
33 14 13 13-1122 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,517.67 120.78 217.40 90.58	149.99
33 14 13 13-1123 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,115.79 173.77 312.79 130.33	189.04

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1124 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron	2,626.33	236.34
For Cement Mortar Lining (CML), Add	215.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	387.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	161.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1125 Push-On Joint Ductile Iron Tee (33 14 13 13-1086)		
33 14 13 13-1126 EA 4" Tee, Push-On Joint Ductile Iron	290.98	53.45
For Cement Mortar Lining (CML), Add	21.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1127 EA 6" Tee, Push-On Joint Ductile Iron	406.35	78.54
For Cement Mortar Lining (CML), Add	28.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1128 EA 8" Tee, Push-On Joint Ductile Iron	551.66	95.18
For Cement Mortar Lining (CML), Add	40.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1129 EA 10" Tee, Push-On Joint Ductile Iron	803.25	108.22
For Cement Mortar Lining (CML), Add	64.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1130 EA 12" Tee, Push-On Joint Ductile Iron	997.65	124.77
For Cement Mortar Lining (CML), Add	80.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	145.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1131 EA 14" Tee, Push-On Joint Ductile Iron	1,590.66	149.99
For Cement Mortar Lining (CML), Add	136.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	245.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1132 EA 16" Tee, Push-On Joint Ductile Iron	2,290.00	187.53
For Cement Mortar Lining (CML), Add	200.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1133 EA 18" Tee, Push-On Joint Ductile Iron	2,882.85	250.19
For Cement Mortar Lining (CML), Add	250.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	450.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 20" Tee, Push-On Joint Ductile Iron	3,400.46	305.26
For Cement Mortar Lining (CML), Add	293.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	528.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135 EA 24" Tee, Push-On Joint Ductile Iron	4,448.04	381.56
For Cement Mortar Lining (CML), Add	387.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	696.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	290.25	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1086)



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1137 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	373.27 18.29 32.91 13.71	125.67
33 14 13 13-1138 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	457.39 22.17 39.90 16.62	155.61
33 14 13 13-1139 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	593.66 31.86 57.35 23.90	181.48
33 14 13 13-1140 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	821.39 41.56 74.81 31.17	267.83
33 14 13 13-1141 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	990.18 52.64 94.75 39.48	306.14
33 14 13 13-1142 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,136.68 63.72 114.70 47.79	329.62
33 14 13 13-1143 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,344.54 80.35 144.62 60.26	357.10
33 14 13 13-1144 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,591.28 94.20 169.56 70.65	428.53
33 14 13 13-1145 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,843.51 112.21 201.98 84.16	476.14
33 14 13 13-1146 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,300.81 146.84 264.31 110.13	549.39
33 14 13 13-1147 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,634.28 263.54 474.37 197.65	659.23
33 14 13 13-1148 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,008.86 376.03 676.85 282.02	824.05

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1149 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron	6,311.88	952.28
For Cement Mortar Lining (CML), Add	486.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	876.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	365.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1150 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron	8,057.88	1,224.32
For Cement Mortar Lining (CML), Add	620.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,116.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	465.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1151 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron	9,777.33	1,428.74
For Cement Mortar Lining (CML), Add	761.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,370.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	570.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints <small>(33 14 13 13-1086)</small>		
Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1153 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	41.18	19.56
33 14 13 13-1154 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	54.67	25.53
33 14 13 13-1155 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	72.04	26.48
33 14 13 13-1156 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	83.82	28.13
33 14 13 13-1157 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	98.75	31.24
33 14 13 13-1158 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	122.80	35.15
33 14 13 13-1159 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	144.31	40.17
33 14 13 13-1160 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	161.89	43.53
33 14 13 13-1161 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	189.42	52.23
33 14 13 13-1162 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	223.98	54.24
33 14 13 13-1163 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	283.34	60.26
33 14 13 13-1164 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	364.14	65.27
33 14 13 13-1165 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	445.79	71.42
33 14 13 13-1166 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	524.35	80.35
33 14 13 13-1167 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	714.62	87.13
33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) <small>(33 14 13 13-1086)</small>		
33 14 13 13-1169 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	226.11	73.05
33 14 13 13-1170 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	297.49	89.16
33 14 13 13-1171 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	382.39	108.76
33 14 13 13-1172 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000)	572.94	132.67
33 14 13 13-1173 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	710.34	161.78
33 14 13 13-1174 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	1,215.86	197.38
33 14 13 13-1175 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,389.76	240.88
33 14 13 13-1176 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,579.89	293.80
33 14 13 13-1177 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	2,143.19	358.51
33 14 13 13-1178 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	2,731.41	437.29
33 14 13 13-1179 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	4,690.61	533.60
33 14 13 13-1180 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	6,643.96	650.90
33 14 13 13-1181 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	12,027.16	794.18
33 14 13 13-1182 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	15,553.16	968.84
33 14 13 13-1183 Ductile Iron Pipe Repair <small>(33 14 13 13-0001)</small>		
See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
33 14 13 13-1184 Ductile Iron Pipe Repair <small>(33 14 13 13-1183)</small>		
Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1185 EA 30" Diameter Mechanical Ductile Iron Push Joint	2,986.67	
33 14 13 13-1186 EA 36" Diameter Mechanical Ductile Iron Push Joint	3,776.77	
33 14 13 13-1187 EA 42" Diameter Mechanical Ductile Iron Push Joint	4,748.23	
33 14 13 13-1188 EA 48" Diameter Mechanical Ductile Iron Push Joint	5,951.86	
33 14 13 13-1189 EA 54" Diameter Mechanical Ductile Iron Push Joint	8,584.84	
33 14 13 13-1190 WEKO Seals <small>(33 14 13 13-1183)</small>		
Note: Internal joint seal.		
33 14 13 13-1191 EA 16" WEKO Internal Joint Seal	1,647.28	220.50
For Extra Wide Seals, Add	86.71	
33 14 13 13-1192 EA 18" WEKO Internal Joint Seal	1,754.24	232.83
For Extra Wide Seals, Add	87.64	
33 14 13 13-1193 EA 20" WEKO Internal Joint Seal	1,860.99	245.16
For Extra Wide Seals, Add	88.57	
33 14 13 13-1194 EA 24" WEKO Internal Joint Seal	1,973.45	264.77
For Extra Wide Seals, Add	90.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1195 EA 30" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,041.19 91.55	284.38
33 14 13 13-1196 EA 36" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,145.42 93.40	308.91
33 14 13 13-1197 EA 42" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,290.64 95.63	338.32
33 14 13 13-1198 EA 48" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,473.16 97.49	362.83
33 14 13 13-1199 EA 54" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,567.74 98.97	382.45
33 14 13 13-1200 EA 60" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,681.66 101.20	411.87
 33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23) Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0002 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	9.06	3.40
33 14 13 23-0004 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	12.85	4.12
33 14 13 23-0005 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	17.22	4.63
33 14 13 23-0006 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	22.29	5.14
33 14 13 23-0007 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	28.50	5.76
33 14 13 23-0008 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0009 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	9.87	3.40
33 14 13 23-0010 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	14.53	4.12
33 14 13 23-0011 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	20.05	4.63
33 14 13 23-0012 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	26.70	5.14
33 14 13 23-0013 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	34.65	5.76
33 14 13 23-0014 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0015 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	10.67	3.40
33 14 13 23-0016 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	16.20	4.12
33 14 13 23-0017 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	22.89	4.63
33 14 13 23-0018 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	31.02	5.14
33 14 13 23-0019 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	40.81	5.76
33 14 13 23-0020 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0021 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	44.63	8.64
33 14 13 23-0022 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	54.31	10.29
33 14 13 23-0023 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	72.32	12.35
33 14 13 23-0024 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	103.25	14.41
33 14 13 23-0025 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	141.29	16.46
33 14 13 23-0026 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	177.80	17.49
33 14 13 23-0027 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	223.99	18.83
33 14 13 23-0028 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0029 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	32.95	6.48
33 14 13 23-0030 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	41.03	7.20
33 14 13 23-0031 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	50.79	8.64
33 14 13 23-0032 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	62.31	10.29
33 14 13 23-0033 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	84.66	12.35
33 14 13 23-0034 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	120.95	14.41
33 14 13 23-0035 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	164.99	16.46
33 14 13 23-0036 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	217.22	17.49
33 14 13 23-0037 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	275.13	18.83
33 14 13 23-0038 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0039 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	37.70	6.48
33 14 13 23-0040 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	47.61	7.20
33 14 13 23-0041 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	58.96	8.64
33 14 13 23-0042 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	72.91	10.29
33 14 13 23-0043 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	99.88	12.35
33 14 13 23-0044 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	143.82	14.41
33 14 13 23-0045 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	198.39	16.46
33 14 13 23-0046 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	256.78	17.49
33 14 13 23-0047 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	326.75	18.83
33 14 13 23-0048 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0049 LF 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	45.80	6.48
33 14 13 23-0050 LF 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	57.24	7.20
33 14 13 23-0051 LF 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	71.35	8.64

33	Utilities
33 10	Water Utilities
33 14	Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0052 LF 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	87.88	10.29
33 14 13 23-0053 LF 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	121.46	12.35
33 14 13 23-0054 LF 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	177.69	14.41
33 14 13 23-0055 LF 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	250.46	16.46
33 14 13 23-0056 LF 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	333.14	17.49
33 14 13 23-0057 LF 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	429.23	18.83
33 14 13 23-0058 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0001)</small>		
33 14 13 23-0059 LF 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	51.89	6.48
33 14 13 23-0060 LF 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	65.16	7.20
33 14 13 23-0061 LF 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	81.35	8.64
33 14 13 23-0062 LF 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	100.32	10.29
33 14 13 23-0063 LF 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	139.37	12.35
33 14 13 23-0064 LF 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	205.24	14.41
33 14 13 23-0065 LF 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	290.70	16.46
33 14 13 23-0066 LF 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	388.30	17.49
33 14 13 23-0067 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0001)</small>		
33 14 13 23-0068 LF 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	57.83	6.48
33 14 13 23-0069 LF 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	72.87	7.20
33 14 13 23-0070 LF 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	91.06	8.64
33 14 13 23-0071 LF 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	112.44	10.29
33 14 13 23-0072 LF 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	156.79	12.35
33 14 13 23-0073 LF 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	232.04	14.41
33 14 13 23-0074 LF 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	329.85	16.46
33 14 13 23-0075 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings <small>(33 14 13 23)</small>		
Note: Includes rubber gaskets.		
33 14 13 23-0076 90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0077 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	194.39	13.54
For DR 25, Deduct	-10.04	
33 14 13 23-0078 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	395.67	15.23
For DR 25, Deduct	-21.91	
33 14 13 23-0079 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	593.24	16.93
For DR 25, Deduct	-33.56	
33 14 13 23-0080 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	908.13	27.88
For DR 25, Deduct	-51.14	
33 14 13 23-0081 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,184.34	46.47
For DR 25, Deduct	-65.49	
33 14 13 23-0082 EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,775.69	58.08
For DR 25, Deduct	-99.57	
33 14 13 23-0083 EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,119.17	69.70
For DR 25, Deduct	-118.79	
33 14 13 23-0084 EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,629.82	92.94
For DR 25, Deduct	-206.64	
33 14 13 23-0085 EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,468.87	116.16
For DR 25, Deduct	-254.19	
33 14 13 23-0086 EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,409.34	156.83
For DR 25, Deduct	-425.74	
33 14 13 23-0087 45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0088 EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	172.54	13.54
For DR 25, Deduct	-8.73	
33 14 13 23-0089 EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	296.60	15.23
For DR 25, Deduct	-15.97	
33 14 13 23-0090 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	375.41	16.93
For DR 25, Deduct	-20.49	
33 14 13 23-0091 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	533.53	27.88
For DR 25, Deduct	-28.67	
33 14 13 23-0092 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	715.61	46.47
For DR 25, Deduct	-37.36	
33 14 13 23-0093 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,367.96	58.08
For DR 25, Deduct	-75.11	
33 14 13 23-0094 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,732.90	69.70
For DR 25, Deduct	-95.61	
33 14 13 23-0095 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,984.00	92.94
For DR 25, Deduct	-167.89	
33 14 13 23-0096 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,706.45	116.16
For DR 25, Deduct	-208.45	
33 14 13 23-0097 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,228.76	156.83
For DR 25, Deduct	-294.91	
33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		



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Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0099	EA	4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	169.89	13.54
		<i>For DR 25, Deduct</i>	-8.57	
33 14 13 23-0100	EA	6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	296.61	15.23
		<i>For DR 25, Deduct</i>	-15.97	
33 14 13 23-0101	EA	8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	375.42	16.93
		<i>For DR 25, Deduct</i>	-20.49	
33 14 13 23-0102	EA	10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	533.54	27.88
		<i>For DR 25, Deduct</i>	-28.67	
33 14 13 23-0103	EA	12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	715.62	46.47
		<i>For DR 25, Deduct</i>	-37.36	
33 14 13 23-0104	EA	14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,363.30	55.76
		<i>For DR 25, Deduct</i>	-75.11	
33 14 13 23-0105	EA	16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,732.88	69.70
		<i>For DR 25, Deduct</i>	-95.61	
33 14 13 23-0106	EA	18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,984.00	92.94
		<i>For DR 25, Deduct</i>	-167.89	
33 14 13 23-0107	EA	20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,706.45	116.16
		<i>For DR 25, Deduct</i>	-208.45	
33 14 13 23-0108	EA	24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,228.76	156.83
		<i>For DR 25, Deduct</i>	-294.91	
33 14 13 23-0109		11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0110	EA	4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	150.33	13.54
		<i>For DR 25, Deduct</i>	-7.40	
33 14 13 23-0111	EA	6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	296.61	15.23
		<i>For DR 25, Deduct</i>	-15.97	
33 14 13 23-0112	EA	8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	375.42	16.93
		<i>For DR 25, Deduct</i>	-20.49	
33 14 13 23-0113	EA	10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	533.54	27.88
		<i>For DR 25, Deduct</i>	-28.67	
33 14 13 23-0114	EA	12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	715.62	46.47
		<i>For DR 25, Deduct</i>	-37.36	
33 14 13 23-0115	EA	14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,363.30	55.76
		<i>For DR 25, Deduct</i>	-75.11	
33 14 13 23-0116	EA	16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,732.88	69.70
		<i>For DR 25, Deduct</i>	-95.61	
33 14 13 23-0117	EA	18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,984.00	92.94
		<i>For DR 25, Deduct</i>	-167.89	
33 14 13 23-0118	EA	20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,706.45	116.16
		<i>For DR 25, Deduct</i>	-208.45	
33 14 13 23-0119	EA	24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,228.76	156.83
		<i>For DR 25, Deduct</i>	-294.91	
33 14 13 23-0120		Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0121	EA	4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	230.86	15.23
		<i>For DR 25, Deduct</i>	-12.02	
33 14 13 23-0122	EA	6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	443.54	16.93
		<i>For DR 25, Deduct</i>	-24.58	
33 14 13 23-0123	EA	8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	618.11	19.19
		<i>For DR 25, Deduct</i>	-34.79	
33 14 13 23-0124	EA	10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,275.84	34.85
		<i>For DR 25, Deduct</i>	-72.37	
33 14 13 23-0125	EA	12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,564.04	69.70
		<i>For DR 25, Deduct</i>	-85.48	
33 14 13 23-0126	EA	14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,814.96	87.12
		<i>For DR 25, Deduct</i>	-158.45	
33 14 13 23-0127	EA	16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,485.78	104.55
		<i>For DR 25, Deduct</i>	-196.60	
33 14 13 23-0128	EA	18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,400.11	139.40
		<i>For DR 25, Deduct</i>	-247.28	
33 14 13 23-0129	EA	20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,285.71	174.25
		<i>For DR 25, Deduct</i>	-296.23	
33 14 13 23-0130	EA	24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,221.47	118.49
		<i>For DR 25, Deduct</i>	-419.07	
33 14 13 23-0131		Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0132	EA	6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	442.62	22.00
		<i>For DR 25, Deduct</i>	-23.92	
33 14 13 23-0133	EA	8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	600.88	23.70
		<i>For DR 25, Deduct</i>	-33.21	
33 14 13 23-0134	EA	8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	615.97	24.54
		<i>For DR 25, Deduct</i>	-34.01	
33 14 13 23-0135	EA	10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	802.14	34.85
		<i>For DR 25, Deduct</i>	-43.95	
33 14 13 23-0136	EA	10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,083.48	35.72
		<i>For DR 25, Deduct</i>	-60.72	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0137	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,158.67	36.59
		<i>For DR 25, Deduct</i>	-65.13	
33 14 13 23-0138	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,232.07	53.44
		<i>For DR 25, Deduct</i>	-67.51	
33 14 13 23-0139	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,412.53	54.31
		<i>For DR 25, Deduct</i>	-78.24	
33 14 13 23-0140	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,497.94	55.18
		<i>For DR 25, Deduct</i>	-83.25	
33 14 13 23-0141	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,527.21	60.40
		<i>For DR 25, Deduct</i>	-84.38	
33 14 13 23-0142	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,312.06	62.73
		<i>For DR 25, Deduct</i>	-131.20	
33 14 13 23-0143	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,404.65	63.60
		<i>For DR 25, Deduct</i>	-136.65	
33 14 13 23-0144	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,497.45	64.48
		<i>For DR 25, Deduct</i>	-142.11	
33 14 13 23-0145	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,598.45	69.70
		<i>For DR 25, Deduct</i>	-147.54	
33 14 13 23-0146	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,707.93	79.00
		<i>For DR 25, Deduct</i>	-153.00	
33 14 13 23-0147	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,884.96	76.67
		<i>For DR 25, Deduct</i>	-163.90	
33 14 13 23-0148	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,975.77	76.67
		<i>For DR 25, Deduct</i>	-169.35	
33 14 13 23-0149	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,068.36	77.54
		<i>For DR 25, Deduct</i>	-174.80	
33 14 13 23-0150	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,160.96	78.41
		<i>For DR 25, Deduct</i>	-180.25	
33 14 13 23-0151	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,280.82	92.94
		<i>For DR 25, Deduct</i>	-185.70	
33 14 13 23-0152	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,380.94	97.58
		<i>For DR 25, Deduct</i>	-191.15	
33 14 13 23-0153	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,566.64	99.90
		<i>For DR 25, Deduct</i>	-202.01	
33 14 13 23-0154	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,659.86	100.78
		<i>For DR 25, Deduct</i>	-207.50	
33 14 13 23-0155	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,752.44	101.64
		<i>For DR 25, Deduct</i>	-212.95	
33 14 13 23-0156	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,853.72	106.87
		<i>For DR 25, Deduct</i>	-218.40	
33 14 13 23-0157	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,963.12	116.16
		<i>For DR 25, Deduct</i>	-223.85	
33 14 13 23-0158	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,062.63	120.81
		<i>For DR 25, Deduct</i>	-229.26	
33 14 13 23-0159	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,189.37	127.78
		<i>For DR 25, Deduct</i>	-236.03	
33 14 13 23-0160	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,522.71	123.13
		<i>For DR 25, Deduct</i>	-256.59	
33 14 13 23-0161	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,679.56	124.01
		<i>For DR 25, Deduct</i>	-265.89	
33 14 13 23-0162	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,741.42	124.88
		<i>For DR 25, Deduct</i>	-269.50	
33 14 13 23-0163	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,812.09	130.11
		<i>For DR 25, Deduct</i>	-273.11	
33 14 13 23-0164	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,890.84	139.40
		<i>For DR 25, Deduct</i>	-276.72	
33 14 13 23-0165	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,997.66	144.05
		<i>For DR 25, Deduct</i>	-282.57	
33 14 13 23-0166	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,109.13	151.02
		<i>For DR 25, Deduct</i>	-288.43	
33 14 13 23-0167	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,197.41	162.63
		<i>For DR 25, Deduct</i>	-292.33	
33 14 13 23-0168	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,329.84	163.80
		<i>For DR 25, Deduct</i>	-300.14	
33 14 13 23-0169	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,396.67	164.66
		<i>For DR 25, Deduct</i>	-304.04	
33 14 13 23-0170	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,463.47	165.54
		<i>For DR 25, Deduct</i>	-307.94	
33 14 13 23-0171	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,738.50	170.77
		<i>For DR 25, Deduct</i>	-323.82	
33 14 13 23-0172	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,021.66	180.06
		<i>For DR 25, Deduct</i>	-339.69	
33 14 13 23-0173	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,295.54	184.70
		<i>For DR 25, Deduct</i>	-355.57	
33 14 13 23-0174	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,574.07	191.67
		<i>For DR 25, Deduct</i>	-371.44	
33 14 13 23-0175	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,861.89	203.29
		<i>For DR 25, Deduct</i>	-387.32	
33 14 13 23-0176	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,149.70	214.91
		<i>For DR 25, Deduct</i>	-403.19	

33 14 13 23-0177 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0178 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	321.37	27.08
<i>For DR 25, Deduct</i>	-16.03	
33 14 13 23-0179 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	573.75	30.47
<i>For DR 25, Deduct</i>	-30.77	
33 14 13 23-0180 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	792.76	33.85
<i>For DR 25, Deduct</i>	-43.50	
33 14 13 23-0181 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,618.55	55.76
<i>For DR 25, Deduct</i>	-90.42	
33 14 13 23-0182 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,920.58	69.70
<i>For DR 25, Deduct</i>	-106.87	
33 14 13 23-0183 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,486.95	92.94
<i>For DR 25, Deduct</i>	-198.07	
33 14 13 23-0184 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,327.49	116.16
<i>For DR 25, Deduct</i>	-245.72	
33 14 13 23-0185 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,524.15	185.87
<i>For DR 25, Deduct</i>	-309.15	
33 14 13 23-0186 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,636.28	232.34
<i>For DR 25, Deduct</i>	-370.30	
33 14 13 23-0187 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,357.39	313.65
<i>For DR 25, Deduct</i>	-523.81	
33 14 13 23-0188 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride		
(PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0189 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	556.21	28.77
<i>For DR 25, Deduct</i>	-29.92	
33 14 13 23-0190 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	753.65	30.47
<i>For DR 25, Deduct</i>	-41.56	
33 14 13 23-0191 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	773.09	32.16
<i>For DR 25, Deduct</i>	-42.53	
33 14 13 23-0192 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,160.89	41.82
<i>For DR 25, Deduct</i>	-64.64	
33 14 13 23-0193 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,352.33	43.56
<i>For DR 25, Deduct</i>	-75.91	
33 14 13 23-0194 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,484.95	45.30
<i>For DR 25, Deduct</i>	-83.66	
33 14 13 23-0195 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,527.78	60.40
<i>For DR 25, Deduct</i>	-84.42	
33 14 13 23-0196 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,754.13	62.14
<i>For DR 25, Deduct</i>	-97.79	
33 14 13 23-0197 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,862.20	63.89
<i>For DR 25, Deduct</i>	-104.07	
33 14 13 23-0198 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,906.54	74.34
<i>For DR 25, Deduct</i>	-105.47	
33 14 13 23-0199 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,872.64	69.70
<i>For DR 25, Deduct</i>	-163.99	
33 14 13 23-0200 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,989.32	71.45
<i>For DR 25, Deduct</i>	-170.79	
33 14 13 23-0201 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,107.27	73.19
<i>For DR 25, Deduct</i>	-177.65	
33 14 13 23-0202 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,242.16	83.64
<i>For DR 25, Deduct</i>	-184.49	
33 14 13 23-0203 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,392.45	102.23
<i>For DR 25, Deduct</i>	-191.28	
33 14 13 23-0204 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,581.26	83.64
<i>For DR 25, Deduct</i>	-204.84	
33 14 13 23-0205 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,699.49	85.38
<i>For DR 25, Deduct</i>	-211.72	
33 14 13 23-0206 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,816.45	87.12
<i>For DR 25, Deduct</i>	-218.53	
33 14 13 23-0207 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,951.24	97.58
<i>For DR 25, Deduct</i>	-225.36	
33 14 13 23-0208 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,020.67	116.16
<i>For DR 25, Deduct</i>	-227.30	
33 14 13 23-0209 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,233.49	125.46
<i>For DR 25, Deduct</i>	-238.95	
33 14 13 23-0210 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,422.85	106.87
<i>For DR 25, Deduct</i>	-252.55	
33 14 13 23-0211 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,540.80	108.61
<i>For DR 25, Deduct</i>	-259.41	
33 14 13 23-0212 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,657.94	110.36
<i>For DR 25, Deduct</i>	-266.23	
33 14 13 23-0213 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,791.03	120.81
<i>For DR 25, Deduct</i>	-272.96	
33 14 13 23-0214 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,942.67	139.40
<i>For DR 25, Deduct</i>	-279.83	
33 14 13 23-0215 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,074.39	148.69
<i>For DR 25, Deduct</i>	-286.62	
33 14 13 23-0216 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,243.04	162.63
<i>For DR 25, Deduct</i>	-295.07	
33 14 13 23-0217 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,606.29	130.11
<i>For DR 25, Deduct</i>	-320.76	
33 14 13 23-0218 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,803.33	131.85
<i>For DR 25, Deduct</i>	-332.38	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0219 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,882.54	133.59
For DR 25, Deduct	-336.92	
33 14 13 23-0220 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,978.38	144.05
For DR 25, Deduct	-341.42	
33 14 13 23-0221 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,090.47	162.63
For DR 25, Deduct	-345.91	
33 14 13 23-0222 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,230.14	171.92
For DR 25, Deduct	-353.18	
33 14 13 23-0223 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,381.50	185.87
For DR 25, Deduct	-360.59	
33 14 13 23-0224 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,509.05	209.10
For DR 25, Deduct	-365.45	
33 14 13 23-0225 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,558.23	170.77
For DR 25, Deduct	-373.00	
33 14 13 23-0226 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,679.56	172.51
For DR 25, Deduct	-380.07	
33 14 13 23-0227 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,764.72	174.25
For DR 25, Deduct	-384.97	
33 14 13 23-0228 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,115.98	184.70
For DR 25, Deduct	-404.79	
33 14 13 23-0229 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,483.61	203.29
For DR 25, Deduct	-424.62	
33 14 13 23-0230 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,832.60	212.59
For DR 25, Deduct	-444.45	
33 14 13 23-0231 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,192.30	226.53
For DR 25, Deduct	-464.36	
33 14 13 23-0232 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,568.46	249.75
For DR 25, Deduct	-484.14	
33 14 13 23-0233 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,946.04	272.99
For DR 25, Deduct	-504.00	
33 14 13 23-0234 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0235 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	117.18	13.54
For DR 25, Deduct	-5.41	
33 14 13 23-0236 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	216.45	15.23
For DR 25, Deduct	-11.16	
33 14 13 23-0237 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	260.26	16.93
For DR 25, Deduct	-13.58	
33 14 13 23-0238 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	372.47	27.88
For DR 25, Deduct	-19.00	
33 14 13 23-0239 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	590.09	34.85
For DR 25, Deduct	-31.22	
33 14 13 23-0240 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,020.24	46.47
For DR 25, Deduct	-55.64	
33 14 13 23-0241 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,209.34	58.08
For DR 25, Deduct	-65.59	
33 14 13 23-0242 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,883.50	92.94
For DR 25, Deduct	-161.86	
33 14 13 23-0243 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,235.64	116.16
For DR 25, Deduct	-180.20	
33 14 13 23-0244 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,554.13	156.83
For DR 25, Deduct	-254.43	
33 14 13 23-0245 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0246 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	144.62	13.54
For DR 25, Deduct	-7.05	
33 14 13 23-0247 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	195.86	15.23
For DR 25, Deduct	-9.92	
33 14 13 23-0248 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	283.71	16.93
For DR 25, Deduct	-14.99	
33 14 13 23-0249 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	390.75	27.88
For DR 25, Deduct	-20.10	
33 14 13 23-0250 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	626.65	46.47
For DR 25, Deduct	-32.02	
33 14 13 23-0251 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,646.26	55.76
For DR 25, Deduct	-92.08	
33 14 13 23-0252 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,227.01	69.70
For DR 25, Deduct	-125.26	
33 14 13 23-0253 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,745.78	92.94
For DR 25, Deduct	-153.59	
33 14 13 23-0254 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,281.76	116.16
For DR 25, Deduct	-182.97	
33 14 13 23-0255 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,457.90	156.83
For DR 25, Deduct	-248.66	
33 14 13 23-0256 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping <small>(33 14 13 23)</small>		
33 14 13 23-0257 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <small>(33 14 13 23-0256)</small>		



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0258 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 2.65 0.90 <i>For >1,000, Deduct -0.13</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.06</i>		
33 14 13 23-0259 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 2.95 0.97 <i>For >1,000, Deduct -0.15</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.08</i>		
33 14 13 23-0260 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 3.47 1.06 <i>For >1,000, Deduct -0.17</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.12</i>		
33 14 13 23-0261 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 4.05 1.17 <i>For >1,000, Deduct -0.20</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.17</i>		
33 14 13 23-0262 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 5.34 1.31 <i>For >1,000, Deduct -0.27</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.31</i>		
33 14 13 23-0263 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 7.00 1.49 <i>For >1,000, Deduct -0.35</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.49</i>		
33 14 13 23-0264 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 8.45 1.59 <i>For >1,000, Deduct -0.42</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.67</i>		
33 14 13 23-0265 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 12.20 1.96 <i>For >1,000, Deduct -0.61</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 1.10</i>		
33 14 13 23-0266 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 22.16 2.49 <i>For >1,000, Deduct -1.11</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 2.39</i>		
33 14 13 23-0267 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 36.30 3.72 <i>For >1,000, Deduct -1.82</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 4.05</i>		
33 14 13 23-0268 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 54.42 4.97 <i>For >1,000, Deduct -2.72</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 6.30</i>		
33 14 13 23-0269 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 75.90 6.69 <i>For >1,000, Deduct -3.80</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 8.88</i>		
33 14 13 23-0270 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0271 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 27.53 10.83		
33 14 13 23-0272 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 34.85 13.54		
33 14 13 23-0273 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 43.99 16.93		
33 14 13 23-0274 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 70.05 18.73		
33 14 13 23-0275 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 75.46 20.99		
33 14 13 23-0276 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 89.86 23.81		
33 14 13 23-0277 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 97.73 25.49		
33 14 13 23-0278 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 138.55 31.30		
33 14 13 23-0279 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 203.38 39.76		
33 14 13 23-0280 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 328.24 52.20		
33 14 13 23-0281 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 411.84 69.84		
33 14 13 23-0282 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 543.20 94.00		
33 14 13 23-0283 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0284 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 28.15 10.83		
33 14 13 23-0285 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 35.30 13.54		
33 14 13 23-0286 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 44.26 16.93		
33 14 13 23-0287 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 61.89 18.73		
33 14 13 23-0288 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 76.22 20.99		
33 14 13 23-0289 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 92.94 23.81		
33 14 13 23-0290 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 96.43 25.49		
33 14 13 23-0291 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 135.74 31.30		
33 14 13 23-0292 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 197.72 39.76		
33 14 13 23-0293 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 327.45 52.20		
33 14 13 23-0294 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 367.11 69.84		
33 14 13 23-0295 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 481.30 94.00		
33 14 13 23-0296 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0297 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 41.24 16.25		
33 14 13 23-0298 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 52.12 20.42		
33 14 13 23-0299 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 65.43 25.50		
33 14 13 23-0300 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 95.04 28.22		
33 14 13 23-0301 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 108.56 31.37		
33 14 13 23-0302 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 126.83 35.78		
33 14 13 23-0303 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 150.05 38.13		
33 14 13 23-0304 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 199.51 46.99		
33 14 13 23-0305 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 344.15 59.74		
33 14 13 23-0306 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 523.99 78.30		
33 14 13 23-0307 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 629.38 119.30		
33 14 13 23-0308 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 781.50 160.54		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0310 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	18.45	7.23
33 14 13 23-0311 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	24.93	9.71
33 14 13 23-0312 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	33.43	12.75
33 14 13 23-0313 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	48.81	14.11
33 14 13 23-0314 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	53.72	15.69
33 14 13 23-0315 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	61.10	17.83
33 14 13 23-0316 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	68.22	19.06
33 14 13 23-0317 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	95.65	23.45
33 14 13 23-0318 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	139.51	29.87
33 14 13 23-0319 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	245.72	39.15
33 14 13 23-0320 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	297.14	59.71
33 14 13 23-0321 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	376.58	80.27
33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0322)		
33 14 13 23-0324 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	2.96	0.90
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.11	
33 14 13 23-0325 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	3.55	0.97
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0326 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	4.61	1.17
For >1,000, Deduct	-0.23	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.25	
33 14 13 23-0327 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	5.55	1.31
For >1,000, Deduct	-0.28	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.34	
33 14 13 23-0328 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	7.33	1.49
For >1,000, Deduct	-0.37	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.54	
33 14 13 23-0329 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	8.66	1.59
For >1,000, Deduct	-0.43	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.70	
33 14 13 23-0330 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	11.63	1.96
For >1,000, Deduct	-0.58	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.01	
33 14 13 23-0331 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	17.99	2.49
For >1,000, Deduct	-0.90	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.77	
33 14 13 23-0332 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0333 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	27.75	10.83
33 14 13 23-0334 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	34.99	13.54
33 14 13 23-0335 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	48.73	18.73
33 14 13 23-0336 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	55.21	20.99
33 14 13 23-0337 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	67.12	23.81
33 14 13 23-0338 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	72.84	25.49
33 14 13 23-0339 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	96.90	31.30
33 14 13 23-0340 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	158.78	39.76
33 14 13 23-0341 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0342 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	27.70	10.83
33 14 13 23-0343 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	34.93	13.54
33 14 13 23-0344 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	48.76	18.73
33 14 13 23-0345 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	55.00	20.99
33 14 13 23-0346 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	66.53	23.81
33 14 13 23-0347 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	72.16	25.49
33 14 13 23-0348 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	95.52	31.30
33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	154.39	39.76
33 14 13 23-0350 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	41.48	16.25
33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	52.30	20.42
33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	72.83	28.22
33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	82.06	31.37
33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	101.01	35.78
33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	112.05	38.13
33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	139.75	46.99
33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	242.36	59.74
33 14 13 23-0359 Couplings, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	18.56	7.23
33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	25.02	9.71
33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	36.28	14.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	41.01	15.69
33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	48.48	17.83
33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	53.60	19.06
33 14 13 23-0366 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	66.52	23.45
33 14 13 23-0367 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	101.64	29.87
33 14 13 23-0368 Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0369 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	55.51	21.67
33 14 13 23-0370 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	69.66	27.19
33 14 13 23-0371 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	97.09	37.58
33 14 13 23-0372 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	109.41	41.87
33 14 13 23-0373 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	134.62	47.63
33 14 13 23-0374 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	149.32	50.87
33 14 13 23-0375 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	186.19	62.59
33 14 13 23-0376 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	322.60	79.62
33 14 13 23-0377 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0378 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0377)		
33 14 13 23-0379 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.89	0.97
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0380 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	5.29	1.17
For >1,000, Deduct	-0.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.35	
33 14 13 23-0381 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.71	1.31
For >1,000, Deduct	-0.34	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.52	
33 14 13 23-0382 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	8.83	1.49
For >1,000, Deduct	-0.44	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.77	
33 14 13 23-0383 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	10.77	1.59
For >1,000, Deduct	-0.54	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.02	
33 14 13 23-0384 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	14.86	1.96
For >1,000, Deduct	-0.74	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.50	
33 14 13 23-0385 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	25.16	2.49
For >1,000, Deduct	-1.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.84	
33 14 13 23-0386 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0387 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	36.77	13.54
33 14 13 23-0388 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	48.73	18.73
33 14 13 23-0389 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	57.00	20.99
33 14 13 23-0390 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	70.91	23.81
33 14 13 23-0391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.36	25.49
33 14 13 23-0392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	97.74	31.30
33 14 13 23-0393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	154.76	39.76
33 14 13 23-0394 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0395 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	44.08	13.54
33 14 13 23-0396 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	55.78	18.73
33 14 13 23-0397 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	63.78	20.99
33 14 13 23-0398 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	83.62	23.81
33 14 13 23-0399 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	92.91	25.49
33 14 13 23-0400 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	131.01	31.30
33 14 13 23-0401 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	152.53	39.76
33 14 13 23-0402 Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0403 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	56.05	20.42
33 14 13 23-0404 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	84.20	28.22
33 14 13 23-0405 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	95.62	31.37
33 14 13 23-0406 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	108.19	35.78
33 14 13 23-0407 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	118.92	38.13
33 14 13 23-0408 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	144.70	46.99
33 14 13 23-0409 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	242.18	59.74
33 14 13 23-0410 Couplings, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0411 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	27.69	9.71
33 14 13 23-0412 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	40.87	14.11
33 14 13 23-0413 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	45.33	15.69
33 14 13 23-0414 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	59.58	17.83
33 14 13 23-0415 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	64.79	19.06
33 14 13 23-0416 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	80.13	23.45

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0417 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	120.64	29.87
33 14 13 23-0418 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0419 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross	74.63	27.19
33 14 13 23-0420 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	112.18	37.58
33 14 13 23-0421 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross	127.40	41.87
33 14 13 23-0422 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	144.15	47.63
33 14 13 23-0423 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross	158.44	50.87
33 14 13 23-0424 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross	192.76	62.59
33 14 13 23-0425 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross	322.36	79.62
33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)		
33 14 13 23-0428 LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	7.66	2.68
For SDR 19, Add	0.20	
For SDR 17, Add	0.50	
For SDR 15.5, Add	0.74	
For SDR 13.5, Add	1.15	
For SDR 11, Add	1.85	
33 14 13 23-0429 LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.03	3.40
For SDR 26, Deduct	-0.41	
For SDR 19, Add	0.20	
For SDR 17, Add	0.50	
For SDR 15.5, Add	0.73	
For SDR 13.5, Add	1.14	
For SDR 11, Add	1.83	
33 14 13 23-0430 LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	13.07	4.12
For SDR 26, Deduct	-0.89	
For SDR 19, Add	0.44	
For SDR 17, Add	1.08	
For SDR 15.5, Add	1.57	
For SDR 13.5, Add	2.46	
For SDR 11, Add	3.96	
33 14 13 23-0431 LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	17.48	4.63
For SDR 26, Deduct	-1.51	
For SDR 19, Add	0.74	
For SDR 17, Add	1.83	
For SDR 15.5, Add	2.67	
For SDR 13.5, Add	4.17	
For SDR 11, Add	6.72	
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	23.06	5.14
For SDR 26, Deduct	-2.34	
For SDR 19, Add	1.15	
For SDR 17, Add	2.84	
For SDR 15.5, Add	4.16	
For SDR 13.5, Add	6.49	
For SDR 11, Add	10.44	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	29.84	57.63
For SDR 26, Deduct	-3.38	
For SDR 19, Add	1.66	
For SDR 17, Add	4.09	
For SDR 15.5, Add	5.99	
For SDR 13.5, Add	9.36	
For SDR 11, Add	15.06	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	34.51	6.48
For SDR 26, Deduct	-3.97	
For SDR 19, Add	1.95	
For SDR 17, Add	4.81	
For SDR 15.5, Add	7.04	
For SDR 13.5, Add	11.00	
For SDR 11, Add	17.70	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	42.69	7.20
For SDR 26, Deduct	-5.18	
For SDR 19, Add	2.55	
For SDR 17, Add	6.28	
For SDR 15.5, Add	9.20	
For SDR 13.5, Add	14.36	
For SDR 11, Add	23.12	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	53.08	8.64
For SDR 26, Deduct	-6.55	
For SDR 19, Add	3.22	
For SDR 17, Add	7.94	
For SDR 15.5, Add	11.63	
For SDR 13.5, Add	18.15	
For SDR 11, Add	29.22	
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	93.61	10.29
For SDR 26, Deduct	-13.39	
For SDR 19, Add	6.57	
For SDR 17, Add	16.23	
For SDR 15.5, Add	23.76	
For SDR 13.5, Add	37.09	
For SDR 11, Add	59.70	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	88.29	12.35
For SDR 26, Deduct	-11.66	
For SDR 19, Add	5.72	
For SDR 17, Add	14.13	
For SDR 15.5, Add	20.70	
For SDR 13.5, Add	32.30	
For SDR 11, Add	51.99	
33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping^(33 14)		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	63.47	16.93
For SDR 26, Deduct	-2.33	
For SDR 19, Add	1.14	
For SDR 17, Add	2.82	
For SDR 15.5, Add	4.13	
For SDR 13.5, Add	6.45	
For SDR 11, Add	10.37	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	71.54	18.82
For SDR 26, Deduct	-2.77	
For SDR 19, Add	1.36	
For SDR 17, Add	3.36	
For SDR 15.5, Add	4.92	
For SDR 13.5, Add	7.68	
For SDR 11, Add	12.36	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	104.66	21.50
For SDR 26, Deduct	-7.37	
For SDR 19, Add	3.62	
For SDR 17, Add	8.93	
For SDR 15.5, Add	13.08	
For SDR 13.5, Add	20.42	
For SDR 11, Add	32.87	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	159.31	25.10
For SDR 26, Deduct	-15.41	
For SDR 19, Add	7.56	
For SDR 17, Add	18.68	
For SDR 15.5, Add	27.35	
For SDR 13.5, Add	42.69	
For SDR 11, Add	68.71	
33 14 13 23-0444 EA 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	240.60	33.52
For SDR 26, Deduct	-25.71	
For SDR 19, Add	12.63	
For SDR 17, Add	31.17	
For SDR 15.5, Add	45.65	
For SDR 13.5, Add	71.25	
For SDR 11, Add	114.68	
33 14 13 23-0445 EA 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	355.84	50.16
For SDR 26, Deduct	-37.65	
For SDR 19, Add	18.49	
For SDR 17, Add	45.64	
For SDR 15.5, Add	66.84	
For SDR 13.5, Add	104.33	
For SDR 11, Add	167.93	
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	445.60	66.94
For SDR 26, Deduct	-44.89	
For SDR 19, Add	22.04	
For SDR 17, Add	54.41	
For SDR 15.5, Add	79.68	
For SDR 13.5, Add	124.37	
For SDR 11, Add	200.19	
33 14 13 23-0447 EA 16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	594.09	100.32
For SDR 26, Deduct	-53.75	
For SDR 19, Add	26.39	
For SDR 17, Add	65.16	
For SDR 15.5, Add	95.42	
For SDR 13.5, Add	148.94	
For SDR 11, Add	239.73	
33 14 13 23-0448 EA 18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	737.62	112.85
For SDR 26, Deduct	-73.15	
For SDR 19, Add	35.92	
For SDR 17, Add	88.67	
For SDR 15.5, Add	129.85	
For SDR 13.5, Add	202.68	
For SDR 11, Add	326.23	
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	988.29	128.08
For SDR 26, Deduct	-110.00	
For SDR 19, Add	54.01	
For SDR 17, Add	133.34	
For SDR 15.5, Add	195.28	
For SDR 13.5, Add	304.80	
For SDR 11, Add	490.59	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0450	EA		24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,252.54	150.54
			<i>For SDR 26, Deduct</i>	-146.85	
			<i>For SDR 19, Add</i>	72.10	
			<i>For SDR 17, Add</i>	178.02	
			<i>For SDR 15.5, Add</i>	260.69	
			<i>For SDR 13.5, Add</i>	406.90	
			<i>For SDR 11, Add</i>	654.94	
33 14 13 23-0451			Tees, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23-0426)</small>		
33 14 13 23-0452	EA		3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	69.63	17.72
			<i>For SDR 26, Deduct</i>	-3.04	
			<i>For SDR 19, Add</i>	1.49	
			<i>For SDR 17, Add</i>	3.69	
			<i>For SDR 15.5, Add</i>	5.40	
			<i>For SDR 13.5, Add</i>	8.43	
			<i>For SDR 11, Add</i>	13.56	
33 14 13 23-0453	EA		4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	79.69	20.07
			<i>For SDR 26, Deduct</i>	-3.58	
			<i>For SDR 19, Add</i>	1.76	
			<i>For SDR 17, Add</i>	4.34	
			<i>For SDR 15.5, Add</i>	6.36	
			<i>For SDR 13.5, Add</i>	9.92	
			<i>For SDR 11, Add</i>	15.97	
33 14 13 23-0454	EA		6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	120.46	23.16
			<i>For SDR 26, Deduct</i>	-9.36	
			<i>For SDR 19, Add</i>	4.59	
			<i>For SDR 17, Add</i>	11.34	
			<i>For SDR 15.5, Add</i>	16.61	
			<i>For SDR 13.5, Add</i>	25.93	
			<i>For SDR 11, Add</i>	41.73	
33 14 13 23-0455	EA		8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	211.55	27.37
			<i>For SDR 26, Deduct</i>	-23.74	
			<i>For SDR 19, Add</i>	11.66	
			<i>For SDR 17, Add</i>	28.78	
			<i>For SDR 15.5, Add</i>	42.14	
			<i>For SDR 13.5, Add</i>	65.78	
			<i>For SDR 11, Add</i>	105.87	
33 14 13 23-0456	EA		10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	291.02	40.18
			<i>For SDR 26, Deduct</i>	-31.28	
			<i>For SDR 19, Add</i>	15.36	
			<i>For SDR 17, Add</i>	37.91	
			<i>For SDR 15.5, Add</i>	55.52	
			<i>For SDR 13.5, Add</i>	86.66	
			<i>For SDR 11, Add</i>	139.49	
33 14 13 23-0457	EA		12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	413.58	60.26
			<i>For SDR 26, Deduct</i>	-42.71	
			<i>For SDR 19, Add</i>	20.97	
			<i>For SDR 17, Add</i>	51.77	
			<i>For SDR 15.5, Add</i>	75.81	
			<i>For SDR 13.5, Add</i>	118.34	
			<i>For SDR 11, Add</i>	190.47	
33 14 13 23-0458	EA		14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	499.79	75.27
			<i>For SDR 26, Deduct</i>	-50.24	
			<i>For SDR 19, Add</i>	24.67	
			<i>For SDR 17, Add</i>	60.91	
			<i>For SDR 15.5, Add</i>	89.19	
			<i>For SDR 13.5, Add</i>	139.22	
			<i>For SDR 11, Add</i>	224.08	
33 14 13 23-0459	EA		16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	664.20	112.85
			<i>For SDR 26, Deduct</i>	-59.66	
			<i>For SDR 19, Add</i>	29.30	
			<i>For SDR 17, Add</i>	72.33	
			<i>For SDR 15.5, Add</i>	105.92	
			<i>For SDR 13.5, Add</i>	165.32	
			<i>For SDR 11, Add</i>	266.10	
33 14 13 23-0460	EA		18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	846.60	131.46
			<i>For SDR 26, Deduct</i>	-82.90	
			<i>For SDR 19, Add</i>	40.70	
			<i>For SDR 17, Add</i>	100.49	
			<i>For SDR 15.5, Add</i>	147.17	
			<i>For SDR 13.5, Add</i>	229.71	
			<i>For SDR 11, Add</i>	369.73	
33 14 13 23-0461	EA		20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,168.31	155.28
			<i>For SDR 26, Deduct</i>	-127.81	
			<i>For SDR 19, Add</i>	62.75	
			<i>For SDR 17, Add</i>	154.93	
			<i>For SDR 15.5, Add</i>	226.89	
			<i>For SDR 13.5, Add</i>	354.13	
			<i>For SDR 11, Add</i>	570.00	
33 14 13 23-0462	EA		24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,506.47	188.23
			<i>For SDR 26, Deduct</i>	-172.71	
			<i>For SDR 19, Add</i>	84.80	
			<i>For SDR 17, Add</i>	209.36	
			<i>For SDR 15.5, Add</i>	306.60	
			<i>For SDR 13.5, Add</i>	478.56	
			<i>For SDR 11, Add</i>	770.27	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping <small>(33 14 13)</small> See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
33 14 13 36 Steel Public Water Utility Distribution Piping <small>(33 14 13)</small>		
33 14 13 36-0001 Steel Piping <small>(33 14 13 36)</small>		
33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0001)</small> Note: ASTM A252 steel pipe.		
33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	110.73	28.99
For <100, Add	12.13	
For >1,000, Deduct	-5.54	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	132.00	28.99
For <100, Add	13.19	
For >1,000, Deduct	-6.60	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	131.57	31.62
For <100, Add	13.77	
For >1,000, Deduct	-6.58	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	158.46	31.62
For <100, Add	15.11	
For >1,000, Deduct	-7.92	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	158.93	33.13
For <100, Add	15.48	
For >1,000, Deduct	-7.95	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	179.85	33.13
For <100, Add	16.52	
For >1,000, Deduct	-8.99	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	192.34	36.62
For <100, Add	17.94	
For >1,000, Deduct	-9.62	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	209.05	36.62
For <100, Add	18.78	
For >1,000, Deduct	-10.45	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	204.12	38.65
For <100, Add	18.99	
For >1,000, Deduct	-10.21	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	217.03	38.65
For <100, Add	19.64	
For >1,000, Deduct	-10.85	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	252.67	43.49
For <100, Add	22.52	
For >1,000, Deduct	-12.63	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	273.82	43.49
For <100, Add	23.57	
For >1,000, Deduct	-13.69	
33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	221.43	59.44
For <100, Add	20.41	
For >1,000, Deduct	-11.07	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	262.40	65.38
For <100, Add	23.44	
For >1,000, Deduct	-13.12	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	291.20	68.35
For <100, Add	25.46	
For >1,000, Deduct	-14.56	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	328.50	77.27
For <100, Add	28.68	
For >1,000, Deduct	-16.43	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	342.84	77.27
For <100, Add	29.40	
For >1,000, Deduct	-17.14	
33 14 13 36-0022 LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	356.10	77.27
For <100, Add	30.06	
For >1,000, Deduct	-17.81	
33 14 13 36-0023 LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	371.40	77.27
For <100, Add	30.83	
For >1,000, Deduct	-18.57	
33 14 13 36-0024 LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	430.39	89.15
For <100, Add	35.53	
For >1,000, Deduct	-21.52	
33 14 13 36-0025 LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	477.71	89.15
For <100, Add	37.90	
For >1,000, Deduct	-23.89	
33 14 13 36-0026 LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	593.86	89.15
For <100, Add	43.70	
For >1,000, Deduct	-29.69	
33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	534.38	104.01
For <100, Add	43.06	
For >1,000, Deduct	-26.72	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0028	LF		30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	553.74	104.01
			<i>For <100, Add</i>	44.03	
			<i>For >1,000, Deduct</i>	-27.69	
33 14 13 36-0029	LF		30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	736.33	104.01
			<i>For <100, Add</i>	53.16	
			<i>For >1,000, Deduct</i>	-36.82	
33 14 13 36-0030	LF		36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	634.76	104.01
			<i>For <100, Add</i>	48.08	
			<i>For >1,000, Deduct</i>	-31.74	
33 14 13 36-0031	LF		36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	744.50	124.81
			<i>For <100, Add</i>	56.84	
			<i>For >1,000, Deduct</i>	-37.23	
33 14 13 36-0032	LF		36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	886.11	124.81
			<i>For <100, Add</i>	63.92	
			<i>For >1,000, Deduct</i>	-44.31	
33 14 13 36-0033	LF		36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	850.74	124.81
			<i>For <100, Add</i>	62.15	
			<i>For >1,000, Deduct</i>	-42.54	
33 14 13 36-0034	LF		42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,298.45	139.67
			<i>For <100, Add</i>	86.71	
			<i>For >1,000, Deduct</i>	-64.92	
33 14 13 36-0035	LF		42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	793.45	139.67
			<i>For <100, Add</i>	61.46	
			<i>For >1,000, Deduct</i>	-39.67	
33 14 13 36-0036	LF		48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,488.69	157.50
			<i>For <100, Add</i>	98.95	
			<i>For >1,000, Deduct</i>	-74.43	
33 14 13 36-0037	LF		48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	870.88	157.50
			<i>For <100, Add</i>	68.06	
			<i>For >1,000, Deduct</i>	-43.54	
33 14 13 36-0038	LF		54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,561.04	178.30
			<i>For <100, Add</i>	106.07	
			<i>For >1,000, Deduct</i>	-78.05	
33 14 13 36-0039	LF		54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,722.36	178.30
			<i>For <100, Add</i>	114.14	
			<i>For >1,000, Deduct</i>	-86.12	
33 14 13 36-0040	LF		60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,926.76	208.02
			<i>For <100, Add</i>	129.03	
			<i>For >1,000, Deduct</i>	-96.34	
33 14 13 36-0041	LF		66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,353.17	208.02
			<i>For <100, Add</i>	100.35	
			<i>For >1,000, Deduct</i>	-67.66	
33 14 13 36-0042	LF		72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,506.09	169.88
			<i>For <100, Add</i>	126.27	
			<i>For >1,000, Deduct</i>	-75.30	
33 14 13 36-0043	LF		78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,801.46	169.88
			<i>For <100, Add</i>	191.04	
			<i>For >1,000, Deduct</i>	-140.07	
33 14 13 36-0044			Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)		
33 14 13 36-0045	EA		2" Dresser Coupling For Plain End Welded Steel Pipe.....	123.22	33.71
33 14 13 36-0046	EA		3" Dresser Coupling For Plain End Welded Steel Pipe.....	190.63	64.84
33 14 13 36-0047	EA		4" Dresser Coupling For Plain End Welded Steel Pipe.....	253.78	85.59
33 14 13 36-0048	EA		6" Dresser Coupling For Plain End Welded Steel Pipe.....	400.33	129.67
33 14 13 36-0049	EA		8" Dresser Coupling For Plain End Welded Steel Pipe.....	519.94	163.39
33 14 13 36-0050	EA		10" Dresser Coupling For Plain End Welded Steel Pipe.....	629.60	162.32
33 14 13 36-0051	EA		12" Dresser Coupling For Plain End Welded Steel Pipe.....	750.08	203.44
33 14 13 36-0052	EA		14" Dresser Coupling For Plain End Welded Steel Pipe.....	807.01	203.44
33 14 13 36-0053	EA		16" Dresser Coupling For Plain End Welded Steel Pipe.....	853.56	232.66
33 14 13 36-0054	EA		18" Dresser Coupling For Plain End Welded Steel Pipe.....	933.93	248.89
33 14 13 36-0055	EA		20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,018.43	281.35
33 14 13 36-0056	EA		24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,273.43	297.58
33 14 13 36-0057	EA		30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,518.14	324.64
33 14 13 36-0058	EA		36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,776.17	365.22
33 14 13 36-0059	EA		42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,046.21	411.21
33 14 13 36-0060	EA		48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,380.67	473.43
33 14 13 36-0061	EA		54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,644.71	541.07
33 14 13 36-0062	EA		60" Dresser Coupling For Plain End Welded Steel Pipe.....	3,059.48	676.33
33 14 13 36-0063	EA		66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,534.35	822.42
33 14 13 36-0064	EA		72" Dresser Coupling For Plain End Welded Steel Pipe.....	4,214.44	973.91
33 14 13 39			Copper Public Water Utility Distribution Piping (33 14 13)		
33 14 13 39-0001			Type L Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0002	LF		1/2" Type L Copper Water Distribution Pipe.....	7.52	2.26
33 14 13 39-0003	LF		3/4" Type L Copper Water Distribution Pipe.....	9.20	2.54
33 14 13 39-0004	LF		1" Type L Copper Water Distribution Pipe.....	12.06	2.82
33 14 13 39-0005	LF		1-1/4" Type L Copper Water Distribution Pipe.....	14.91	3.38
33 14 13 39-0006	LF		1-1/2" Type L Copper Water Distribution Pipe.....	18.26	4.51
33 14 13 39-0007	LF		2" Type L Copper Water Distribution Pipe.....	26.01	5.63
33 14 13 39-0008	LF		2-1/2" Type L Copper Water Distribution Pipe.....	33.24	6.77
33 14 13 39-0009	LF		3" Type L Copper Water Distribution Pipe.....	41.23	7.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	55.54	9.36
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	73.10	11.83
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	115.54	14.77
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	148.66	17.81
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	250.76	19.94
33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	7.93	2.26
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	10.66	2.54
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	13.51	2.82
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	15.81	3.38
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	19.59	4.51
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	27.80	5.63
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	38.21	6.77
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	48.66	7.44
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	64.28	9.36
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	86.36	11.83
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	142.98	14.77
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	198.00	17.81
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	341.81	19.94
33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)		
33 14 13 43-0001 Pipe Coatings (33 14 13 43)		
33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)		
Note: Applied at fabrication shop.		
33 14 13 43-0003 LF 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.22	
33 14 13 43-0004 LF 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.83	
33 14 13 43-0005 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.52	
33 14 13 43-0006 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.00	
33 14 13 43-0007 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.85	
33 14 13 43-0008 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.20	
33 14 13 43-0009 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.75	
33 14 13 43-0010 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	9.03	
33 14 13 43-0011 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	11.86	
33 14 13 43-0012 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	18.73	
33 14 13 43-0013 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	40.38	
33 14 13 43-0014 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	46.15	
33 14 13 43-0015 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	51.92	
33 14 13 43-0016 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	57.69	
33 14 13 43-0017 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	63.46	
33 14 13 43-0018 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	69.20	
33 14 13 43-0019 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	75.00	
33 14 13 43-0020 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)		
Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0021 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	11.32	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0022 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	13.93	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0023 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	17.42	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0024 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	19.40	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0025 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	21.91	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0026 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	25.64	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0027 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh	29.13	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0028 LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh	32.87	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0029 LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh	36.53	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0030 LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh	43.82	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0031 LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh	54.78	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0032 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh	65.73	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0033 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh	25.10	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0034 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh	28.68	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0035 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh	32.27	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0036 LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh	35.85	
Note: Reinforcing applied at fabrication shop.		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0037	LF		66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038	LF		72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039	LF		78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0040			Pipe Lining <small>(33 14 13 43)</small>		
33 14 13 43-0041			Cement Pipe Lining <small>(33 14 13 43-0040)</small> Note: Shop applied.		
33 14 13 43-0042	LF		4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	14.40 1.51	
33 14 13 43-0043	LF		6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	17.85 1.86	
33 14 13 43-0044	LF		8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	21.89 2.32	
33 14 13 43-0045	LF		10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	28.21 2.90	
33 14 13 43-0046	LF		12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	34.59 3.49	
33 14 13 43-0047	LF		14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	43.55 4.09	
33 14 13 43-0048	LF		16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	55.31 4.64	
33 14 13 43-0049	LF		18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	65.57 4.45	
33 14 13 43-0050	LF		20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	78.33 4.95	
33 14 13 43-0051	LF		24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	94.84 5.93	
33 14 13 43-0052	LF		30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	114.71 7.42	
33 14 13 43-0053	LF		36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	137.99 8.90	
33 14 13 43-0054	LF		42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	161.02 7.64	
33 14 13 43-0055	LF		48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	183.96 8.73	
33 14 13 43-0056	LF		54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	206.99 9.82	
33 14 13 43-0057	LF		60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	230.01 10.91	
33 14 13 43-0058	LF		66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	252.96 6.40	
33 14 13 43-0059	LF		72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	275.98 6.98	
33 14 13 43-0060	LF		78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	299.01 7.57	
33 14 13 43-0061			Cement Fitting Lining <small>(33 14 13 43-0040)</small> Note: Shop applied.		
33 14 13 43-0062	EA		4" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	14.40 1.51	
33 14 13 43-0063	EA		6" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	17.85 1.86	
33 14 13 43-0064	EA		8" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	27.93 3.02	
33 14 13 43-0065	EA		10" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	45.48 4.64	
33 14 13 43-0066	EA		12" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	69.16 6.98	
33 14 13 43-0067	EA		14" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	100.93 9.40	
33 14 13 43-0068	EA		16" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	145.97 12.07	
33 14 13 43-0069	EA		18" Outside Diameter, 5/16" Thick Cement Fittings Lining..... <i>For 1/2" Thick, Add</i>	196.71 13.35	
33 14 13 43-0070	EA		20" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	260.97 16.48	
33 14 13 43-0071	EA		24" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	379.39 23.74	
33 14 13 43-0072			8 Mil Polyethylene Encasement Tubing <small>(33 14 13 43)</small> Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0073	LF		3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.30	
33 14 13 43-0074	LF		10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.14	
33 14 13 43-0075	LF		14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.64	
33 14 13 43-0076	LF		18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.35	
33 14 13 43-0077	LF		24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.59	
33 14 13 43-0078	LF		30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 43-0079	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.54	
33 14 13 43-0080	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	8.97	
33 14 13 43-0081	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.66	
33 14 13 43-0082	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	11.70	

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)

33 14 13 53-0001 Double Stud Stainless Steel Service Saddles (33 14 13 53)

Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.

33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	262.40	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	363.58	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	376.12	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	312.31	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	390.59	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	326.68	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	409.24	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	366.77	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	431.16	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	382.78	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	441.99	

33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.

33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	223.17	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	223.32	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	237.63	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	226.76	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	242.55	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	267.49	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	284.41	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	260.72	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	285.87	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	300.48	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	275.16	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	301.07	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	315.61	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	290.07	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	315.25	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	329.63	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	472.12	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	484.66	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	313.42	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	343.62	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	357.04	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	556.50	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	349.23	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	385.20	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	619.21	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	378.89	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	416.87	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	432.01	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	688.78	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	438.95	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	468.97	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	503.93	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	840.48	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	451.50	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	511.20	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	532.44	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	902.06	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	471.65	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	533.53	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	555.29	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	938.55	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	520.02	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	598.72	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	589.41	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	651.36	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	615.31	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	692.66	

33	Utilities
33 10	Water Utilities
33 14	Water Utility Transmission and Distribution



MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0061	Double Bale Bronze Service Saddles <small>(33 14 13 53)</small>	
33 14 13 53-0062	EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	304.20
33 14 13 53-0063	EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	331.87
33 14 13 53-0064	EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	345.45
33 14 13 53-0065	EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	373.36
33 14 13 53-0066	EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	383.49
33 14 13 53-0067	EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	403.02
33 14 13 53-0068	EA 10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	373.69
33 14 13 53-0069	EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	397.05
33 14 13 53-0070	EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	468.31
33 14 13 53-0071	EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	505.45
33 14 13 53-0072	EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	691.89
33 14 13 53-0073	EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	779.14
33 14 13 53-0074	EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	802.46
33 14 13 53-0075	EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	893.34

33 14 13 53-0076	Stainless Steel Double Straps, Bronze Body Service Saddle <small>(33 14 13 53)</small>	
Note: Taps are compression or NPT.		
33 14 13 53-0077	EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	318.58
33 14 13 53-0078	EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	350.02
33 14 13 53-0079	EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	362.43
33 14 13 53-0080	EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	392.77
33 14 13 53-0081	EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	404.49
33 14 13 53-0082	EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	425.15
33 14 13 53-0083	EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	453.74
33 14 13 53-0084	EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	485.00
33 14 13 53-0085	EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	487.56
33 14 13 53-0086	EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	527.17
33 14 13 53-0087	EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	739.58
33 14 13 53-0088	EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	846.58
33 14 13 53-0089	EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	859.04
33 14 13 53-0090	EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	934.41
33 14 13 53-0091	EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,627.90
33 14 13 53-0092	EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,627.90
33 14 13 53-0093	EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,693.43
33 14 13 53-0094	EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,693.43
33 14 13 53-0095	EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,816.91
33 14 13 53-0096	EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,816.91

33 14 13 53-0097	Ductile Iron Mechanical Joint Tapping Sleeve <small>(33 14 13 53)</small>	
33 14 13 53-0098	EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,393.65
33 14 13 53-0099	EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,684.19
33 14 13 53-0100	EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,010.81
33 14 13 53-0101	EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,125.18
33 14 13 53-0102	EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,194.89
33 14 13 53-0103	EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,353.94
33 14 13 53-0104	EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,423.59
33 14 13 53-0105	EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,383.02
33 14 13 53-0106	EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,541.46
33 14 13 53-0107	EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,923.93
33 14 13 53-0108	EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,022.87
33 14 13 53-0109	EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,662.06
33 14 13 53-0110	EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,840.76
33 14 13 53-0111	EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,922.49
33 14 13 53-0112	EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,959.03
33 14 13 53-0113	EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,213.89
33 14 13 53-0114	EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,206.45
33 14 13 53-0115	EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,231.54
33 14 13 53-0116	EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,430.94
33 14 13 53-0117	EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,479.85
33 14 13 53-0118	EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,533.45
33 14 13 53-0119	EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,477.07
33 14 13 53-0120	EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,903.27
33 14 13 53-0121	EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,995.58
33 14 13 53-0122	EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,442.69
33 14 13 53-0123	EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,575.44
33 14 13 53-0124	EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,969.35
33 14 13 53-0125	EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,387.36
33 14 13 53-0126	EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,052.06
33 14 13 53-0127	EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,224.13
33 14 13 53-0128	EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,292.84
33 14 13 53-0129	EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,625.24
33 14 13 53-0130	EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,952.77
33 14 13 53-0131	EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,210.43
33 14 13 53-0132	EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,329.02
33 14 13 53-0133	EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,487.36
33 14 13 53-0134	EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,533.80



MINOR	TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,896.49
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,103.15
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,153.33
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,594.70
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,807.00
33 14 13 53-0140	Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve ^(33 14 13 53)		
33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,147.81
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,224.08
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,335.85
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,378.67
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,435.50
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,642.31
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,507.17
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,562.57
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,744.61
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,386.03
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,697.94
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,778.16
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,957.34
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,532.18
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,756.27
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,219.79
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,286.54
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,668.46
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,141.43
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,449.79
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,631.31
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,700.14
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,953.74
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,629.26
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,790.62
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,798.98
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,921.89
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,091.74
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,886.25
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,047.42
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,370.14
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,438.83
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,817.23
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,455.55
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,727.70
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,641.93
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,789.81
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,988.71
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,893.77
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,061.72
33 14 13 53-0181	Stainless Steel Flange, Stainless Steel Tapping Sleeve ^(33 14 13 53)		
33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,320.62
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,442.34
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,526.04
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,561.24
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,657.30
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,939.84
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,789.82
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,896.10
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,149.56
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,880.79
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,044.93
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,189.00
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,523.13
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,957.78
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,290.60
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,334.12
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,510.33
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,886.28
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,321.34
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,552.52
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,838.99
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,079.06
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,262.55
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,730.17
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,048.11
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,134.20
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,491.92
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,683.30
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,094.50
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,637.80

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0212 EA 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,389.94	
33 14 13 53-0213 EA 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,746.73	
33 14 13 53-0214 EA 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,902.64	
33 14 13 53-0215 EA 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,665.91	
33 14 13 53-0216 EA 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,091.76	
33 14 13 53-0217 EA 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,007.51	
33 14 13 53-0218 EA 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,060.19	
33 14 13 53-0219 EA 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,246.70	
33 14 13 53-0220 EA 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,157.37	
33 14 13 53-0221 EA 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,644.44	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0223 EA 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	350.61	75.42
33 14 13 53-0224 EA 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	439.58	95.11
33 14 13 53-0225 EA 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	580.84	131.17
33 14 13 53-0226 EA 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	745.41	154.13
33 14 13 53-0227 EA 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,138.97	173.82
33 14 13 53-0228 EA 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,273.60	196.77
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0230 EA 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	495.57	75.42
33 14 13 53-0231 EA 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	588.73	95.11
33 14 13 53-0232 EA 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	788.02	131.17
33 14 13 53-0233 EA 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	961.03	154.13
33 14 13 53-0234 EA 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,166.63	173.82
33 14 13 53-0235 EA 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,356.78	196.77
33 14 13 53-0236 EA 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,603.94	216.45
33 14 13 53-0237 EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,890.25	236.12
33 14 13 53-0238 EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,223.47	259.73
33 14 13 53-0239 EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,617.69	285.71
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)		
33 14 13 53-0241 EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	449.27	95.11
33 14 13 53-0242 EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	604.77	131.17
33 14 13 53-0243 EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	673.80	154.13
33 14 13 53-0244 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	959.94	173.82
33 14 13 53-0245 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,211.19	196.77
33 14 13 53-0246 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,356.50	216.45
33 14 13 53-0247 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,586.03	236.12
33 14 13 53-0248 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,777.45	259.73
33 14 13 53-0249 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,123.83	285.71
33 14 13 53-0250 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,544.45	314.30
33 14 13 53-0251 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,155.83	345.66
33 14 13 53-0252 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	6,918.15	380.29
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	167.08	52.47
33 14 13 53-0255 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	204.96	62.31
33 14 13 53-0256 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	252.94	75.42
33 14 13 53-0257 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	317.82	95.11
33 14 13 53-0258 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	426.02	131.17
33 14 13 53-0259 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	515.16	154.13
33 14 13 53-0260 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	634.86	173.82
33 14 13 53-0261 EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	739.40	196.77
33 14 13 53-0262 EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,011.50	216.45
33 14 13 53-0263 EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,246.03	236.12
33 14 19 Valves and Hydrants for Water Utility Service (33 14)		
Note: Flanged valves excludes bolt and gasket set. See CSI section 23 21 13 23-0669 for bolt and gasket sets.		
33 14 19 00-0001 Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0002 Angle Valves (33 14 19 00-0001)		
Note: For connecting meters to water service.		
33 14 19 00-0003 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0002)		
Note: Nibco T-335Y		
33 14 19 00-0004 EA 1/2" Threaded, Class 150, Bronze Angle Valve	105.99	22.54
33 14 19 00-0005 EA 3/4" Threaded, Class 150, Bronze Angle Valve	142.92	30.28
33 14 19 00-0006 EA 1" Threaded, Class 150, Bronze Angle Valve	190.42	37.32
33 14 19 00-0007 EA 1-1/4" Threaded, Class 150, Bronze Angle Valve	244.79	46.90
33 14 19 00-0008 EA 1-1/2" Threaded, Class 150, Bronze Angle Valve	303.45	54.22
33 14 19 00-0009 EA 2" Threaded, Class 150, Bronze Angle Valve	444.25	63.38
33 14 19 00-0010 EA 2-1/2" Threaded, Class 150, Bronze Angle Valve	703.43	86.49
33 14 19 00-0011 EA 3" Threaded, Class 150, Bronze Angle Valve	1,052.01	99.85



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0012 Butterfly Valves <small>(33 14 19 00-0001)</small>		
33 14 19 00-0013 Lug Type Flanged, Cast Iron Disc, Butterfly Valves <small>(33 14 19 00-0012)</small>		
Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0014 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,386.77	239.44
33 14 19 00-0015 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,655.76	239.44
33 14 19 00-0016 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,575.58	370.50
33 14 19 00-0017 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,844.57	370.50
33 14 19 00-0018 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,927.40	415.01
33 14 19 00-0019 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	3,196.39	415.01
33 14 19 00-0020 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	3,316.20	530.29
33 14 19 00-0021 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	3,585.19	530.29
33 14 19 00-0022 EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	4,153.07	645.57
33 14 19 00-0023 EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	4,153.07	645.57
33 14 19 00-0024 EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	4,750.96	782.49
33 14 19 00-0025 EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	5,019.94	782.49
33 14 19 00-0026 EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12).....	6,421.16	1,040.46
33 14 19 00-0027 EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12).....	7,129.53	1,040.46
33 14 19 00-0028 EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16).....	7,459.57	1,144.51
33 14 19 00-0029 EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20).....	8,329.90	1,144.51
33 14 19 00-0030 EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24).....	9,326.72	1,269.37
33 14 19 00-0031 EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24).....	10,240.70	1,269.37
33 14 19 00-0032 EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24).....	10,556.37	1,430.64
33 14 19 00-0033 EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24).....	11,470.35	1,430.64
33 14 19 00-0034 Lug Type Flanged, Ductile Iron Disc, Butterfly Valves <small>(33 14 19 00-0012)</small>		
Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0035 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20).....	17,460.70	1,755.78
33 14 19 00-0036 EA 24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10).....	27,262.47	1,755.78
33 14 19 00-0037 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20).....	17,398.74	1,755.78
33 14 19 00-0038 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24).....	37,102.94	2,809.73
33 14 19 00-0039 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24).....	43,726.60	3,746.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0040 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	55,154.38	5,619.46
33 14 19 00-0041 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	75,022.62	7,024.32
33 14 19 00-0042 EA 54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24)	119,468.49	8,429.19
33 14 19 00-0043 EA 60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36)	149,851.63	10,115.03
33 14 19 00-0044 EA 72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36)	215,463.78	12,138.03
33 14 19 00-0045 LF 3/16" Link, 316 Stainless Steel Chain For Use With Dezurik Chainwheel	22.53	
33 14 19 00-0046 EA 316 Stainless Steel Closing Link For Use With Dezurik Chainwheel	9.86	
Note: One required per valve.		
33 14 19 00-0047	Check Valves (33 14 19 00-0001)	
33 14 19 00-0048	Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0047)	
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0049 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve	904.25	188.03
33 14 19 00-0050 EA 3" Flanged, Swing Type Gravity Operated Check Valve	944.38	220.45
33 14 19 00-0051 EA 4" Flanged, Swing Type Gravity Operated Check Valve	1,378.19	278.80
33 14 19 00-0052 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve	1,815.46	419.50
33 14 19 00-0053 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve	1,903.01	468.50
33 14 19 00-0054 EA 6" Flanged, Swing Type Gravity Operated Check Valve	1,825.87	466.83
33 14 19 00-0055 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,342.95	530.65
33 14 19 00-0056 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,465.80	596.51
33 14 19 00-0057 EA 8" Flanged, Swing Type Gravity Operated Check Valve	2,556.33	596.51
33 14 19 00-0058 EA 10" Flanged, Swing Type Gravity Operated Check Valve	4,164.95	726.18
33 14 19 00-0059 EA 12" Flanged, Swing Type Gravity Operated Check Valve	6,187.99	544.64
33 14 19 00-0060 EA 14" Flanged, Swing Type Gravity Operated Check Valve	8,512.18	1,040.46
33 14 19 00-0061 EA 16" Flanged, Swing Type Gravity Operated Check Valve	11,204.69	1,144.51
33 14 19 00-0062 EA 18" Flanged, Swing Type Gravity Operated Check Valve	16,063.15	1,269.37
33 14 19 00-0063 EA 20" Flanged, Swing Type Gravity Operated Check Valve	18,678.56	1,430.64
33 14 19 00-0064	Combination Air Release Valves (33 14 19 00-0001)	
33 14 19 00-0065 EA 1" Combination Air Release Valve	451.82	27.23
33 14 19 00-0066 EA 2" Combination Air Release Valve	732.00	46.68
33 14 19 00-0067	Corporation Stop And Curb Valve (33 14 19 00-0001)	
Note: AWWA C800		
33 14 19 00-0068	Ball Corporation Valves (33 14 19 00-0067)	
Note: Mueller B-25000.		
33 14 19 00-0069 EA 3/4" Ball Corporation Valve (Mueller B-25000)	89.71	27.23
33 14 19 00-0070 EA 1" Ball Corporation Valve (Mueller B-25000)	112.30	33.71
33 14 19 00-0071 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	194.15	49.28
33 14 19 00-0072 EA 2" Ball Corporation Valve (Mueller B-25000)	282.71	58.35
33 14 19 00-0073	Gate Valve, AWWA C500 And C509 (33 14 19 00-0001)	
33 14 19 00-0074	Gate Valve, Flanged (33 14 19 00-0073)	
Note: Mueller A-2380-6.		
33 14 19 00-0075 EA 2" Gate Valve, Flanged	593.28	172.86
33 14 19 00-0076 EA 2-1/2" Gate Valve, Flanged	686.11	188.03
33 14 19 00-0077 EA 3" Gate Valve, Flanged	810.33	220.45
33 14 19 00-0078 EA 4" Gate Valve, Flanged	1,149.62	276.21
33 14 19 00-0079 EA 6" Gate Valve, Flanged	1,383.98	466.83
33 14 19 00-0080 EA 8" Gate Valve, Flanged	1,988.56	596.51
33 14 19 00-0081 EA 10" Gate Valve, Flanged	2,890.23	726.18
33 14 19 00-0082 EA 12" Gate Valve, Flanged	3,482.88	544.64
33 14 19 00-0083 EA 14" Gate Valve, Flanged	7,017.11	1,040.46
33 14 19 00-0084 EA 16" Gate Valve, Flanged	9,069.61	1,144.51
33 14 19 00-0085 EA 18" Gate Valve, Flanged	14,090.37	1,269.37
33 14 19 00-0086 EA 20" Gate Valve, Flanged	16,805.44	1,430.64
33 14 19 00-0087	Resilient Wedge Gate Valve, Flanged (33 14 19 00-0073)	
Note: Mueller A-2360-6.		
33 14 19 00-0088 EA 2" Resilient Wedge Gate Valve, Flanged	571.95	172.86
33 14 19 00-0089 EA 2-1/2" Resilient Wedge Gate Valve, Flanged	660.62	188.03
33 14 19 00-0090 EA 3" Resilient Wedge Gate Valve, Flanged	780.08	220.45
33 14 19 00-0091 EA 4" Resilient Wedge Gate Valve, Flanged	1,115.81	276.21
33 14 19 00-0092 EA 6" Resilient Wedge Gate Valve, Flanged	1,338.78	466.83
33 14 19 00-0093 EA 8" Resilient Wedge Gate Valve, Flanged	1,917.95	596.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0094 EA 10" Resilient Wedge Gate Valve, Flanged.....	2,778.02	726.18
33 14 19 00-0095 EA 12" Resilient Wedge Gate Valve, Flanged.....	3,347.40	544.64
33 14 19 00-0096 Gate Valve, Mechanical Joint (33 14 19 00-0073)		
Note: Mueller A-2380-20.		
33 14 19 00-0097 EA 2" Gate Valve, Mechanical Joint.....	706.50	138.10
33 14 19 00-0098 EA 2-1/2" Gate Valve, Mechanical Joint.....	787.89	173.11
33 14 19 00-0099 EA 3" Gate Valve, Mechanical Joint.....	982.23	209.43
33 14 19 00-0100 EA 4" Gate Valve, Mechanical Joint.....	1,196.83	276.21
33 14 19 00-0101 EA 6" Gate Valve, Mechanical Joint.....	1,482.54	324.19
33 14 19 00-0102 EA 8" Gate Valve, Mechanical Joint.....	2,075.78	389.02
33 14 19 00-0103 EA 10" Gate Valve, Mechanical Joint.....	2,924.47	453.86
33 14 19 00-0104 EA 12" Gate Valve, Mechanical Joint.....	3,638.37	544.64
33 14 19 00-0105 EA 14" Gate Valve, Mechanical Joint.....	7,415.17	637.28
33 14 19 00-0106 EA 16" Gate Valve, Mechanical Joint.....	9,504.06	715.31
33 14 19 00-0107 EA 18" Gate Valve, Mechanical Joint.....	14,868.83	793.36
33 14 19 00-0108 EA 20" Gate Valve, Mechanical Joint.....	17,645.07	894.15
33 14 19 00-0109 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0073)		
Note: Mueller A-2360-20.		
33 14 19 00-0110 EA 2" Resilient Wedge Gate Valve, Mechanical Joint.....	682.14	138.10
33 14 19 00-0111 EA 3" Resilient Wedge Gate Valve, Mechanical Joint.....	950.34	209.43
33 14 19 00-0112 EA 4" Resilient Wedge Gate Valve, Mechanical Joint.....	1,160.35	276.21
33 14 19 00-0113 EA 6" Resilient Wedge Gate Valve, Mechanical Joint.....	1,435.33	324.19
33 14 19 00-0114 EA 8" Resilient Wedge Gate Valve, Mechanical Joint.....	2,002.34	389.02
33 14 19 00-0115 EA 10" Resilient Wedge Gate Valve, Mechanical Joint.....	2,810.32	453.86
33 14 19 00-0116 EA 12" Resilient Wedge Gate Valve, Mechanical Joint.....	3,494.06	544.64
33 14 19 00-0117 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0073)		
Note: Mueller A-2361.		
33 14 19 00-0118 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	6,889.16	1,040.46
33 14 19 00-0119 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	7,493.88	1,144.51
33 14 19 00-0120 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	11,509.54	1,269.37
33 14 19 00-0121 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	13,708.58	1,430.64
33 14 19 00-0122 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	19,377.13	1,755.78
33 14 19 00-0123 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0073)		
Note: NIBCO T-113.		
33 14 19 00-0124 EA 1/4" Gate Valve, Bronze, Threaded.....	65.43	22.68
33 14 19 00-0125 EA 3/8" Gate Valve, Bronze, Threaded.....	67.59	22.68
33 14 19 00-0126 EA 1/2" Gate Valve, Bronze, Threaded.....	67.55	22.68
33 14 19 00-0127 EA 3/4" Gate Valve, Bronze, Threaded.....	87.57	30.63
33 14 19 00-0128 EA 1" Gate Valve, Bronze, Threaded.....	107.68	37.04
33 14 19 00-0129 EA 1-1/4" Gate Valve, Bronze, Threaded.....	144.84	46.90
33 14 19 00-0130 EA 1-1/2" Gate Valve, Bronze, Threaded.....	167.93	54.22
33 14 19 00-0131 EA 2" Gate Valve, Bronze, Threaded.....	203.01	63.38
33 14 19 00-0132 EA 2-1/2" Gate Valve, Bronze, Threaded.....	374.73	86.49
33 14 19 00-0133 EA 3" Gate Valve, Bronze, Threaded.....	447.47	99.20
33 14 19 00-0134 Globe Valve, AWWA (33 14 19 00-0001)		
33 14 19 00-0135 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0134)		
Note: NIBCO T-235.		
33 14 19 00-0136 EA 1/8" Globe Valve, Threaded.....	89.76	22.68
33 14 19 00-0137 EA 1/4" Globe Valve, Threaded.....	85.41	22.68
33 14 19 00-0138 EA 3/8" Globe Valve, Threaded.....	87.57	22.68
33 14 19 00-0139 EA 1/2" Globe Valve, Threaded.....	89.76	22.68
33 14 19 00-0140 EA 3/4" Globe Valve, Threaded.....	121.81	30.63
33 14 19 00-0141 EA 1" Globe Valve, Threaded.....	168.28	37.04
33 14 19 00-0142 EA 1-1/4" Globe Valve, Threaded.....	242.77	46.90
33 14 19 00-0143 EA 1-1/2" Globe Valve, Threaded.....	289.00	54.22
33 14 19 00-0144 EA 2" Globe Valve, Threaded.....	397.79	63.38
33 14 19 00-0145 EA 2-1/2" Globe Valve, Threaded.....	716.85	86.49
33 14 19 00-0146 EA 3" Globe Valve, Threaded.....	973.14	99.72
33 14 19 00-0147 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0001)		
33 14 19 00-0148 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0147)		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0149 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	796.62	172.86
33 14 19 00-0150 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,025.19	220.45
33 14 19 00-0151 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,357.16	276.21
33 14 19 00-0152 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,701.12	466.83
33 14 19 00-0153 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,395.30	596.51
33 14 19 00-0154 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	3,384.51	726.18
33 14 19 00-0155 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	4,874.69	544.64

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0156 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	8,448.72	1,040.46
33 14 19 00-0157 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	10,585.57	1,144.51
33 14 19 00-0158 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	16,778.41	1,269.37
33 14 19 00-0159 Accessories For Valves (33 14 19)		
33 14 19 00-0160 EA 1' Valve Extension Stem.....	115.65	
For Each Additional LF, Add	7.94	
33 14 19 00-0161 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	1,407.97	129.67
Note: Excludes valve.		
33 14 19 00-0162 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly.....	1,594.30	142.64
Note: Excludes valve.		
33 14 19 00-0163 EA Adjust Water Valve Box To Grade.....	129.67	
33 14 19 00-0164 Utility Box (33 14 19)		
Note: Christy Concrete Products.		
33 14 19 00-0165 B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0164)		
33 14 19 00-0166 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	108.11	64.06
33 14 19 00-0167 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	87.26	7.12
33 14 19 00-0168 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box.....	39.93	7.12
33 14 19 00-0169 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	183.49	7.12
33 14 19 00-0170 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box.....	60.19	14.24
33 14 19 00-0171 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box.....	81.10	14.24
33 14 19 00-0172 B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0164)		
33 14 19 00-0173 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	134.49	85.42
33 14 19 00-0174 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	102.39	8.54
33 14 19 00-0175 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box.....	44.86	8.54
33 14 19 00-0176 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	192.19	7.12
33 14 19 00-0177 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	65.94	14.24
33 14 19 00-0178 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box.....	90.30	21.36
33 14 19 00-0179 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	119.00	39.15
33 14 19 00-0180 B12 Utility Box, 12" x 20" (33 14 19 00-0164)		
33 14 19 00-0181 EA 12" x 20" Precast Concrete Utility Box.....	147.26	92.53
33 14 19 00-0182 EA Cast Iron Lid For 12" x 20" Utility Box.....	180.29	10.68
33 14 19 00-0183 EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	62.58	14.24
33 14 19 00-0184 EA Steel Checkered Plate Cover For 12" x 20" Utility Box.....	262.54	14.24
33 14 19 00-0185 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box.....	154.11	49.83
33 14 19 00-0186 B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0164)		
33 14 19 00-0187 EA 12" x 22-1/4" Precast Concrete Utility Box.....	170.23	108.19
33 14 19 00-0188 EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	205.59	14.24
33 14 19 00-0189 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	74.44	14.24
33 14 19 00-0190 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box.....	263.95	14.24
33 14 19 00-0191 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	108.17	24.21
33 14 19 00-0192 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	156.08	49.83
33 14 19 00-0193 B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0164)		
33 14 19 00-0194 EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX).....	204.13	128.13
33 14 19 00-0195 EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	103.38	22.78
33 14 19 00-0196 EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	327.10	18.51
33 14 19 00-0197 EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	108.17	24.21
33 14 19 00-0198 EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	168.13	39.87
33 14 19 00-0199 EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	127.77	27.05
33 14 19 00-0200 EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	201.80	64.06
33 14 19 00-0201 B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0164)		
33 14 19 00-0202 EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	264.53	162.29
33 14 19 00-0203 EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D).....	170.22	39.15
33 14 19 00-0204 EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	413.36	27.05
33 14 19 00-0205 EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	167.19	51.25
33 14 19 00-0206 EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....	257.18	56.94
33 14 19 00-0207 EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	266.87	82.57
33 14 19 00-0208 B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0164)		
33 14 19 00-0209 EA 24-1/2" x 36" Precast Concrete Utility Box.....	510.46	250.56
33 14 19 00-0210 EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	454.41	93.96
33 14 19 00-0211 EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	589.61	41.28
33 14 19 00-0212 EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....	381.43	88.27
33 14 19 00-0213 EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....	403.73	92.53



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 14 19 00-0214		B48 Utility Box, 30-1/4" x 48-1/4" <small>(33 14 19 00-0164)</small>		
33 14 19 00-0215	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box.....	671.09	284.72
33 14 19 00-0216	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	648.55	155.17
33 14 19 00-0217	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	782.72	155.17
33 14 19 00-0218	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	938.47	71.19
33 14 19 00-0219	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	609.59	192.19
33 14 19 00-0220	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	512.12	129.55
33 14 19 00-0221		Fire Hydrants <small>(33 14 19)</small>		
		Note: Breakaway type.		
33 14 19 00-0222		Three Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0221)</small>		
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0223	EA	1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,603.69	322.78
33 14 19 00-0224	EA	2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,670.20	322.78
33 14 19 00-0225	EA	2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,736.88	322.78
33 14 19 00-0226	EA	3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,826.30	345.84
33 14 19 00-0227	EA	3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,892.88	345.84
33 14 19 00-0228	EA	4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,988.34	374.66
33 14 19 00-0229	EA	4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,054.81	374.66
33 14 19 00-0230	EA	5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,150.29	403.48
33 14 19 00-0231	EA	5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,216.86	403.48
33 14 19 00-0232	EA	6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,312.15	432.30
33 14 19 00-0233	EA	6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,407.52	461.12
33 14 19 00-0234	EA	7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,531.60	518.75
33 14 19 00-0235	EA	1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,664.39	322.78
33 14 19 00-0236	EA	2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,750.70	322.78
33 14 19 00-0237	EA	2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,836.80	322.78
33 14 19 00-0238	EA	3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,945.96	345.84
33 14 19 00-0239	EA	3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,032.06	345.84
33 14 19 00-0240	EA	4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,147.30	374.66
33 14 19 00-0241	EA	4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,233.29	374.66
33 14 19 00-0242	EA	5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,348.30	403.48
33 14 19 00-0243	EA	5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,434.38	403.48
33 14 19 00-0244	EA	6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,549.15	432.30
33 14 19 00-0245	EA	6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,664.28	461.12
33 14 19 00-0246	EA	7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,807.86	518.75
33 14 19 00-0247		Two Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0221)</small>		
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0248	EA	1-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,238.61	322.78
33 14 19 00-0249	EA	2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,304.89	322.78
33 14 19 00-0250	EA	2-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,371.55	322.78
33 14 19 00-0251	EA	3" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,461.25	345.84
33 14 19 00-0252	EA	3-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,527.61	345.84
33 14 19 00-0253	EA	4" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,622.92	374.66
33 14 19 00-0254	EA	4-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,689.49	374.66
33 14 19 00-0255	EA	5" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,785.03	403.48
33 14 19 00-0256	EA	5-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,851.46	403.48
33 14 19 00-0257	EA	6" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,947.11	432.30
33 14 19 00-0258	EA	6-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,042.06	461.12
33 14 19 00-0259	EA	7" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,166.28	518.75
33 14 19 00-0260	EA	1-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,332.37	322.78
33 14 19 00-0261	EA	2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,418.49	322.78
33 14 19 00-0262	EA	2-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,504.48	322.78
33 14 19 00-0263	EA	3" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,613.86	345.84
33 14 19 00-0264	EA	3-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,699.74	345.84
33 14 19 00-0265	EA	4" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,814.83	374.66
33 14 19 00-0266	EA	4-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,900.76	374.66
33 14 19 00-0267	EA	5" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,016.05	403.48
33 14 19 00-0268	EA	5-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,101.93	403.48
33 14 19 00-0269	EA	6" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,217.00	432.30
33 14 19 00-0270	EA	6-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,331.71	461.12
33 14 19 00-0271	EA	7" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,475.76	518.75
33 14 19 00-0272		Three Way, Modern Model Fire Hydrant <small>(33 14 19 00-0221)</small>		
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0273	EA	1-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,758.91	322.78
33 14 19 00-0274	EA	2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,844.90	322.78
33 14 19 00-0275	EA	2-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,931.15	322.78
33 14 19 00-0276	EA	3" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,040.36	345.84
33 14 19 00-0277	EA	3-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,126.41	345.84
33 14 19 00-0278	EA	4" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,241.33	374.66
33 14 19 00-0279	EA	4-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,327.50	374.66
33 14 19 00-0280	EA	5" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,442.44	403.48
33 14 19 00-0281	EA	5-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,528.52	403.48
33 14 19 00-0282	EA	6" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,643.44	403.48
33 14 19 00-0283	EA	6-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,758.62	461.12

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0284 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,901.30	461.12
33 14 19 00-0285 Two Way, Modern Model Fire Hydrant <small>(33 14 19 00-0221)</small>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0286 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,680.65	322.78
33 14 19 00-0287 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,746.09	322.78
33 14 19 00-0288 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,812.26	322.78
33 14 19 00-0289 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,899.99	345.84
33 14 19 00-0290 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,965.41	345.84
33 14 19 00-0291 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,059.65	374.66
33 14 19 00-0292 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,125.05	374.66
33 14 19 00-0293 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,219.37	403.48
33 14 19 00-0294 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,284.60	403.48
33 14 19 00-0295 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,378.86	432.30
33 14 19 00-0296 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,473.19	461.12
33 14 19 00-0297 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,595.43	518.75
33 14 19 00-0298 Fire Hydrant Extension Kits <small>(33 14 19 00-0221)</small>		
33 14 19 00-0299 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	562.48	28.82
33 14 19 00-0300 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	668.85	36.02
33 14 19 00-0301 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	730.69	43.23
33 14 19 00-0302 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	831.76	53.32
33 14 19 00-0303 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,248.63	55.48
33 14 19 00-0304 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,333.14	57.64
33 14 19 00-0305 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,354.00	60.52
33 14 19 00-0306 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,430.39	64.84
33 14 19 00-0307 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,578.82	77.82
33 14 19 00-0308 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,669.52	93.66
33 14 19 00-0309 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	625.61	32.28
33 14 19 00-0310 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	741.49	39.20
33 14 19 00-0311 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	851.42	47.26
33 14 19 00-0312 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	953.48	58.79
33 14 19 00-0313 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,299.83	61.10
33 14 19 00-0314 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,385.45	63.40
33 14 19 00-0315 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,444.85	66.86
33 14 19 00-0316 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,688.11	71.47
33 14 19 00-0317 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,852.21	85.30
33 14 19 00-0318 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,950.12	102.60
33 14 19 00-0319 Removal And Reinstallation Of Standard Fire Hydrant <small>(33 14 19 00-0221)</small>		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0320 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	922.23	
33 14 19 00-0321 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,344.92	
33 14 19 00-0322 EA Reset Fire Hydrant Upper Barrel.....	1,143.85	
Note: Includes Safety Repair Kit		
33 14 19 00-0323 Yard Hydrants <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0324 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	379.12	42.26
33 14 19 00-0325 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	405.28	42.26
33 14 19 00-0326 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	431.44	42.26
33 14 19 00-0327 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	319.33	53.52
33 14 19 00-0328 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	331.54	53.52
33 14 19 00-0329 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	343.76	53.52
33 14 19 00-0330 Sanitary Yard Hydrants <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0331 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,627.65	88.03
33 14 19 00-0332 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,709.42	88.03
33 14 19 00-0333 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,791.18	88.03
33 14 19 00-0334 Flushing Hydrants <small>(33 14 19)</small>		
33 14 19 00-0335 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth.....	751.61	54.10
33 14 23 Enclosures for Water Utility Piping and Valves <small>(33 14)</small>		
See CSI section 22 11 19 00-0385 for Enclosures.		
33 14 23 00-0001 Roadway Or Curb Valve Boxes <small>(33 14 23)</small>		
See CSI section 22 05 19 00-0000 for metering.		
33 14 23 00-0002 Round Head, Cast Iron Service, Roadway Or Valve Boxes <small>(33 14 23 00-0001)</small>		
33 14 23 00-0003 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	234.78	17.11
Note: Includes cover, top section and bottom section.		



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0004 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	271.27	17.11
Note: Includes cover, top section and bottom section.		
33 14 23 00-0005 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	272.95	17.11
Note: Includes cover, top section and bottom section.		
33 14 23 00-0006 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	72.40	8.56
33 14 23 00-0007 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	82.06	8.56
33 14 23 00-0008 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	96.60	8.56
33 14 23 00-0009 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	351.66	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0010 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	605.29	29.95
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0011 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	673.36	29.95
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0012 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	365.17	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0013 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	381.43	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0014 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	369.01	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0015 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	134.17	8.56
33 14 23 00-0016 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	230.52	35.21
33 14 23 00-0017 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	237.91	36.62
33 14 23 00-0018 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	264.64	38.02
33 14 23 00-0019 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	358.23	40.14
33 14 23 00-0020 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	430.31	42.26
33 14 23 00-0021 EA 18" Cast Iron Service Box Extension Section	99.80	
33 14 23 00-0022 Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0001)		
33 14 23 00-0023 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	396.97	49.30
33 14 23 00-0024 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	298.95	35.21
33 14 23 00-0025 EA Cast Iron Lid For Plastic Meter Box	89.89	
33 14 23 00-0026 Traffic Valve Box And Lid (33 14 23 00-0001)		
33 14 23 00-0027 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	210.42	
33 14 23 00-0028 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	620.70	
33 16 Water Utility Storage Tanks (33 10)		
33 16 23 Ground-Level Steel Water Storage Tanks (33 16)		
See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.		
33 19 Water Utility Metering Equipment (33 10)		
33 19 13 Positive Displacement Water Meters (33 19)		
33 19 13 23 Nutating Disc Water Meters (33 19 13)		
33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)		
33 19 13 23-0002 EA 5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	317.41	73.24
33 19 13 23-0003 EA 3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	398.06	87.32
33 19 13 23-0004 EA 1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	531.44	100.00
33 19 13 23-0005 EA 1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,025.85	149.29
33 19 13 23-0006 EA 2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,388.67	194.36
33 19 13 23-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)		
33 19 13 23-0008 EA 5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i).....	489.97	73.24
For Owner Furnished Material, Deduct	-415.84	
33 19 13 23-0009 EA 3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	559.75	87.32
For Owner Furnished Material, Deduct	-471.72	
33 19 13 23-0010 EA 1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	824.41	100.00
For Owner Furnished Material, Deduct	-723.80	
33 19 13 23-0011 EA 1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,389.12	149.29
For Owner Furnished Material, Deduct	-1,239.29	
33 19 13 23-0012 EA 2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,722.78	194.36
For Owner Furnished Material, Deduct	-1,527.16	
33 19 13 23-0013 EA Electronic Transmitter.....	389.60	35.21
Note: For use with transmitting meter valve.		
For Owner Furnished Material, Deduct	-354.39	
33 19 16 Velocity-Type Water Meters (33 19)		
33 19 16 23 Turbine Water Meters (33 19 16)		
33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)		
33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0003 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	657.00	136.16
33 19 16 23-0004 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	909.42	172.86

33 Utilities**33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 16 23-0005	EA		3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	1,502.49	220.45
33 19 16 23-0006	EA		4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	2,335.82	417.55
33 19 16 23-0007	EA		6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	4,212.07	466.83
33 19 16 23-0008			Horizontal Turbine Meters <small>(33 19 16 23-0001)</small>		
33 19 16 23-0009	EA		1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....	981.25	136.16
33 19 16 23-0010	EA		2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,372.32	172.86
33 19 16 23-0011	EA		3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,688.08	220.45
33 19 16 23-0012	EA		4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	2,581.14	417.55
33 19 16 23-0013	EA		6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	5,105.88	466.83
33 19 16 23-0014	EA		8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	6,822.75	596.51
33 19 16 23-0015	EA		10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	9,513.05	726.18
33 19 16 23-0016	EA		12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	12,469.66	1,465.33
33 19 19			Compound Water Meters <small>(33 19)</small>		
33 19 19 00-0001			Flanged Compound Type Water Service Meter <small>(33 19 19)</small>		
33 19 19 00-0002	EA		2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	2,483.72	172.86
33 19 19 00-0003	EA		3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	2,906.14	220.45
33 19 19 00-0004	EA		4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	4,893.53	417.55
33 19 19 00-0005	EA		6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	6,714.31	466.83
33 19 19 00-0006	EA		8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	13,753.52	596.51
33 19 19 00-0007	EA		10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	23,519.64	726.18
33 19 23			Magnetic Water Meters <small>(33 19)</small>		
33 19 23 00-0001			Flanged Electromagnetic Flow (EMF) Water Meter <small>(33 19 23)</small>		
33 19 23 00-0002	EA		2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	7,086.98	172.86
33 19 23 00-0003	EA		3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	9,792.52	220.45
33 19 23 00-0004	EA		4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	11,290.33	417.55
33 30			Sanitary Sewerage Utilities <small>(33)</small>		
33 31			Sanitary Sewerage Piping <small>(33 30)</small>		
33 31 11			Public Sanitary Sewerage Gravity Piping <small>(33 31)</small>		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.					
33 31 11 00-0001			Plastic Sewer And Drain Piping <small>(33 31 11)</small>		
33 31 11 00-0002			Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe <small>(33 31 11 00-0001)</small>		
33 31 11 00-0003	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	8.63	3.71
33 31 11 00-0004	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	10.39	4.38
33 31 11 00-0005	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	13.96	5.31
33 31 11 00-0006	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	17.18	6.20
33 31 11 00-0007	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	22.77	7.20
33 31 11 00-0008	LF		8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	29.79	8.38
33 31 11 00-0009	LF		10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	39.10	8.68
33 31 11 00-0010	LF		12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	49.95	8.99
33 31 11 00-0011			Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe <small>(33 31 11 00-0001)</small>		
Note: D-2729 PVC pipe.					
33 31 11 00-0012	LF		3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	12.28	5.31
33 31 11 00-0013	LF		4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	14.46	6.20
33 31 11 00-0014	LF		6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	18.48	7.20
33 31 11 00-0015			Polyvinyl Chloride (PVC) Sewer And Drain Fittings <small>(33 31 11 00-0001)</small>		
33 31 11 00-0016			1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0017	EA		1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	26.46	15.01
33 31 11 00-0018	EA		2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.06	19.41
33 31 11 00-0019	EA		3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.69	26.07
33 31 11 00-0020	EA		4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	78.08	30.13
33 31 11 00-0021	EA		6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	259.23	39.16
33 31 11 00-0022	EA		8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	422.33	52.70
33 31 11 00-0023	EA		10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	557.98	70.19
33 31 11 00-0024			1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0025	EA		1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	27.37	15.01
33 31 11 00-0026	EA		2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.98	19.41
33 31 11 00-0027	EA		3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	53.33	26.07
33 31 11 00-0028	EA		4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.42	30.13
33 31 11 00-0029	EA		6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	242.27	39.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0030 EA 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	382.90	52.70
33 31 11 00-0031 EA 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	442.01	70.19
33 31 11 00-0032 EA 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	650.07	93.48
33 31 11 00-0033 Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0034 EA 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	37.23	14.79
33 31 11 00-0035 EA 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.42	19.41
33 31 11 00-0036 EA 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.91	26.64
33 31 11 00-0037 EA 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	111.62	32.50
33 31 11 00-0038 EA 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	198.80	37.58
33 31 11 00-0039 EA 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	331.56	42.88
33 31 11 00-0040 EA 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	526.36	49.99
33 31 11 00-0041 EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	782.68	58.27
33 31 11 00-0042 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0043 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	29.31	15.01
33 31 11 00-0044 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	35.95	19.41
33 31 11 00-0045 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.98	26.07
33 31 11 00-0046 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	81.93	30.13
33 31 11 00-0047 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	315.65	39.16
33 31 11 00-0048 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	504.47	52.70
33 31 11 00-0049 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	576.69	70.19
33 31 11 00-0050 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	605.18	93.48
33 31 11 00-0051 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0052 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.61	17.13
33 31 11 00-0053 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	55.83	20.44
33 31 11 00-0054 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.90	22.55
33 31 11 00-0055 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	78.66	24.64
33 31 11 00-0056 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	85.52	27.96
33 31 11 00-0057 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	228.63	34.61
33 31 11 00-0058 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	467.73	45.89
33 31 11 00-0059 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	147.27	50.11
33 31 11 00-0060 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	194.44	54.65
33 31 11 00-0061 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	188.58	61.38
33 31 11 00-0062 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	498.53	66.34
33 31 11 00-0063 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	528.55	73.07
33 31 11 00-0064 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	562.66	81.83
33 31 11 00-0065 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0066 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.03	22.68
33 31 11 00-0067 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.00	29.34
33 31 11 00-0068 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	84.91	38.71
33 31 11 00-0069 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	123.17	48.07
33 31 11 00-0070 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	376.29	52.70
33 31 11 00-0071 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	489.66	70.19
33 31 11 00-0072 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0073 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	48.07	22.68
33 31 11 00-0074 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.09	29.34
33 31 11 00-0075 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	90.14	38.71
33 31 11 00-0076 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	131.73	48.07
33 31 11 00-0077 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	344.19	52.70
33 31 11 00-0078 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	428.67	70.19
33 31 11 00-0079 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	564.73	93.66
33 31 11 00-0080 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	876.52	124.99
33 31 11 00-0081 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	59.12	22.68
33 31 11 00-0083 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	68.84	29.34
33 31 11 00-0084 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	82.87	38.71
33 31 11 00-0085 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	119.99	48.07
33 31 11 00-0086 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	128.02	48.07
33 31 11 00-0087 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0088 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	73.92	29.34
33 31 11 00-0089 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	96.65	38.71
33 31 11 00-0090 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	177.90	52.25
33 31 11 00-0091 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	296.69	63.19
33 31 11 00-0092 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	93.32	38.71
33 31 11 00-0093 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	152.45	52.25
33 31 11 00-0094 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	254.66	63.19

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 31 11 00-0095	Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0096	EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	56.85	22.68
33 31 11 00-0097	EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.80	29.34
33 31 11 00-0098	EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	131.33	38.71
33 31 11 00-0099	EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	224.11	48.07
33 31 11 00-0100	EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	101.63	29.34
33 31 11 00-0101	EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.36	38.71
33 31 11 00-0102	EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	120.76	38.71
33 31 11 00-0103	EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	211.44	48.07
33 31 11 00-0104	EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	223.03	48.07
33 31 11 00-0105	Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0106	EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	80.73	29.34
33 31 11 00-0107	EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	97.41	38.71
33 31 11 00-0108	EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	146.62	52.25
33 31 11 00-0109	EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	454.65	63.19
33 31 11 00-0110	EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	1,411.34	69.96
33 31 11 00-0111	Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0112	EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	395.10	114.90
33 31 11 00-0113	EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	869.52	148.24
33 31 11 00-0114	EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	1,119.19	208.89
33 31 11 00-0115	EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	1,572.80	336.02
33 31 11 00-0116	Couplings, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0117	EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	26.00	15.01
33 31 11 00-0118	EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	32.75	19.30
33 31 11 00-0119	EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	48.69	25.84
33 31 11 00-0120	EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	61.36	30.13
33 31 11 00-0121	EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	148.31	39.16
33 31 11 00-0122	EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	337.59	52.70
33 31 11 00-0123	EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	506.05	70.19
33 31 11 00-0124	EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	823.01	93.48
33 31 11 00-0125	Adapters, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0126	EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting.....	148.67	91.03
33 31 11 00-0127	EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	107.89	69.25
33 31 11 00-0128	EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	109.66	69.25
33 31 11 00-0129	EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	114.38	69.25
33 31 11 00-0130	EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	149.97	91.03
33 31 11 00-0131	EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	146.20	91.03
33 31 11 00-0132	EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	139.99	91.03
33 31 11 00-0133	EA 4" Drain Grate, Drain And Sewer Fitting	74.75	46.81
33 31 11 00-0134	Caps, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0135	EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	35.04	16.14
33 31 11 00-0136	EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	54.61	20.09
33 31 11 00-0137	EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	97.51	25.96
33 31 11 00-0138	Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>		
33 31 11 00-0139	EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	24.67	15.01
33 31 11 00-0140	EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.02	19.41
33 31 11 00-0141	EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	46.16	26.07
33 31 11 00-0142	EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.61	30.13
33 31 11 00-0143	EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	94.33	39.16
33 31 11 00-0144	EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	307.90	52.70
33 31 11 00-0145	Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0001)</small>		
	Note: ASTM 3034.		
33 31 11 00-0146	LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	16.12	6.20
33 31 11 00-0147	LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	21.54	7.20
33 31 11 00-0148	LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	28.87	8.38
33 31 11 00-0149	LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	35.52	8.68
33 31 11 00-0150	LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	43.54	8.98
33 31 11 00-0151	LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	56.97	9.30
33 31 11 00-0152	LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	72.33	9.63
33 31 11 00-0153	LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	94.08	10.47
33 31 11 00-0154	LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	114.20	11.29



Utilities	33	CS
Sanitary Sewerage Utilities	33 30	
Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0155 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	142.05	13.25
33 31 11 00-0156 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0001)</small>		
Note: ASTM 3034.		
33 31 11 00-0157 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	16.26	6.20
33 31 11 00-0158 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	22.17	7.20
33 31 11 00-0159 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	30.31	8.38
33 31 11 00-0160 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings <small>(33 31 11 00-0001)</small>		
Note: ASTM 3034.		
33 31 11 00-0161 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0162 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	75.18	26.31
33 31 11 00-0163 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	108.62	30.59
33 31 11 00-0164 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	217.53	34.66
33 31 11 00-0165 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	604.21	40.78
33 31 11 00-0166 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	780.52	52.00
33 31 11 00-0167 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0168 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	68.74	26.31
33 31 11 00-0169 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	101.52	30.59
33 31 11 00-0170 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	199.58	34.66
33 31 11 00-0171 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	435.12	40.78
33 31 11 00-0172 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	619.76	52.00
33 31 11 00-0173 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,316.06	73.40
33 31 11 00-0174 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,083.92	103.99
33 31 11 00-0175 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,465.18	137.63
33 31 11 00-0176 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,723.45	183.50
33 31 11 00-0177 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0178 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	113.68	39.46
33 31 11 00-0179 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	176.63	43.73
33 31 11 00-0180 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	197.41	45.87
33 31 11 00-0181 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	217.08	48.02
33 31 11 00-0182 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	247.03	50.16
33 31 11 00-0183 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	459.06	52.30
33 31 11 00-0184 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	583.62	53.52
33 31 11 00-0185 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	659.98	56.08
33 31 11 00-0186 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	966.63	58.21
33 31 11 00-0187 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,255.18	61.17
33 31 11 00-0188 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	717.89	65.15
33 31 11 00-0189 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	761.50	67.29
33 31 11 00-0190 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,078.04	69.43
33 31 11 00-0191 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,546.05	72.38
33 31 11 00-0192 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,741.14	77.99
33 31 11 00-0193 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0194 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	108.68	39.46
33 31 11 00-0195 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	159.97	43.73
33 31 11 00-0196 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	175.04	45.87
33 31 11 00-0197 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	209.94	48.02
33 31 11 00-0198 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	238.51	50.16
33 31 11 00-0199 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	357.28	52.30
33 31 11 00-0200 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	535.42	53.93
33 31 11 00-0201 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	546.51	56.08
33 31 11 00-0202 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	813.86	58.21
33 31 11 00-0203 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	899.54	61.17
33 31 11 00-0204 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	677.56	65.15
33 31 11 00-0205 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	698.86	67.29
33 31 11 00-0206 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	992.19	69.43
33 31 11 00-0207 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,191.93	72.38
33 31 11 00-0208 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,245.29	77.99
33 31 11 00-0209 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,533.95	93.80
33 31 11 00-0210 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,700.33	99.40
33 31 11 00-0211 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,121.32	110.10
33 31 11 00-0212 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0213 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	74.61	26.31
33 31 11 00-0214 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	112.42	30.59
33 31 11 00-0215 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	162.46	34.86
33 31 11 00-0216 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	299.59	40.78
33 31 11 00-0217 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	423.17	52.00
33 31 11 00-0218 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	818.57	73.40
33 31 11 00-0219 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,528.61	103.99
33 31 11 00-0220 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,539.15	137.63

33 Utilities
33 30 Sanitary Sewerage Utilities
33 31 Sanitary Sewerage Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0221	EA		24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,670.67	183.50
33 31 11 00-0222			Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0223	EA		6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	135.72	28.45
33 31 11 00-0224	EA		8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	191.19	30.59
33 31 11 00-0225	EA		8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	201.76	32.72
33 31 11 00-0226	EA		10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	442.21	35.68
33 31 11 00-0227	EA		10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	507.21	37.82
33 31 11 00-0228	EA		12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	566.42	41.29
33 31 11 00-0229	EA		12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	648.81	43.43
33 31 11 00-0230	EA		12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	742.83	46.39
33 31 11 00-0231	EA		15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,116.09	62.69
33 31 11 00-0232			Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0233	EA		6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	114.58	
33 31 11 00-0234	EA		8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	150.15	
33 31 11 00-0235	EA		8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	153.24	
33 31 11 00-0236	EA		10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	247.82	
33 31 11 00-0237	EA		10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	260.74	
33 31 11 00-0238	EA		10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	482.92	
33 31 11 00-0239	EA		12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	283.33	
33 31 11 00-0240	EA		12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	307.54	
33 31 11 00-0241	EA		12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	666.25	
33 31 11 00-0242	EA		12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	782.82	
33 31 11 00-0243	EA		15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	329.59	
33 31 11 00-0244	EA		15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	350.72	
33 31 11 00-0245			Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0246	EA		6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	121.82	
33 31 11 00-0247	EA		8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	150.15	
33 31 11 00-0248	EA		8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	163.08	
33 31 11 00-0249	EA		10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	228.67	
33 31 11 00-0250	EA		10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	259.19	
33 31 11 00-0251	EA		10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	386.48	
33 31 11 00-0252	EA		12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	281.79	
33 31 11 00-0253	EA		12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	306.08	
33 31 11 00-0254	EA		12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	450.32	
33 31 11 00-0255	EA		12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	544.46	
33 31 11 00-0256	EA		15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	328.64	
33 31 11 00-0257	EA		15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	343.56	
33 31 11 00-0258	EA		15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	556.84	
33 31 11 00-0259	EA		15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	613.65	
33 31 11 00-0260	EA		15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	857.82	
33 31 11 00-0261			Couplings And Plug Fittings <small>(33 31 11)</small>		
33 31 11 00-0262			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings <small>(33 31 11 00-0261)</small>		
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.					
33 31 11 00-0263	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	25.14	8.54
33 31 11 00-0264	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	27.44	9.96
33 31 11 00-0265	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	31.96	11.39
33 31 11 00-0266	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	36.42	12.10
33 31 11 00-0267	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	45.26	12.81
33 31 11 00-0268	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	54.15	14.24
33 31 11 00-0269	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	70.00	15.66
33 31 11 00-0270	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	87.46	16.37
33 31 11 00-0271	EA		12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	148.28	17.08
33 31 11 00-0272	EA		15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	203.98	18.51
33 31 11 00-0273	EA		18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	399.82	19.22
33 31 11 00-0274	EA		21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	465.39	20.29
33 31 11 00-0275	EA		24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	516.07	21.36
33 31 11 00-0276	EA		27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	619.09	22.78
33 31 11 00-0277			Cast Iron Service Saddles With U Bolt <small>(33 31 11)</small>		
33 31 11 00-0278	EA		2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	122.01	
33 31 11 00-0279	EA		3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	122.56	
33 31 11 00-0280	EA		3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	135.09	
33 31 11 00-0281	EA		4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	130.34	
33 31 11 00-0282	EA		4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	146.58	
33 31 11 00-0283	EA		4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	164.20	
33 31 11 00-0284	EA		4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	194.23	
33 31 11 00-0285	EA		6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	163.45	
33 31 11 00-0286	EA		6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	178.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0287 EA 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt.....	206.38	
33 31 11 00-0288 EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	133.40	
33 31 11 00-0289 EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	145.93	
33 31 11 00-0290 EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt.....	171.35	
33 31 11 00-0291 EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	203.02	
33 31 11 00-0292 EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	217.33	

33 32 Sanitary Sewerage Equipment (33 30)

33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)

33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)

33 32 16 00-0002 EA 2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,330.62	422.81
<i>Note: Zoeller 840 series.</i>		
33 32 16 00-0003 EA 2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,299.92	422.81
<i>Note: Zoeller 840 series.</i>		
33 32 16 00-0004 EA Simplex Control Panel With Auto Reversing Switch.....	1,078.90	140.89
<i>Note: For Zoeller 840 series grinder pump.</i>		
33 32 16 00-0005 EA Duplex Control Panel With Auto Reversing Switch.....	1,649.39	140.89
<i>Note: For Zoeller 840 series grinder pump.</i>		
33 32 16 00-0006 EA Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	10,965.10	

33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0008 EA 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	3,942.71	766.29
33 32 16 00-0009 EA 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	5,849.95	894.00
33 32 16 00-0010 EA 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	7,173.15	1,149.44

33 34 Onsite Wastewater Disposal (33 30)

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)

33 34 13 13 Concrete Septic Tanks (33 34 13)

33 34 13 13-0001 Precast Concrete Septic Tank (33 34 13 13)

Note: Includes external coating.

33 34 13 13-0002 EA 1,000 Gallon Precast Septic Tank.....	3,570.49	766.29
<i>For Non-Traffic Rated, Deduct</i>		
	-657.36	
33 34 13 13-0003 EA 1,250 Gallon Precast Septic Tank.....	4,273.55	845.86
<i>For Non-Traffic Rated, Deduct</i>		
	-808.77	
33 34 13 13-0004 EA 1,500 Gallon Precast Septic Tank.....	4,950.24	925.30
<i>For Non-Traffic Rated, Deduct</i>		
	-953.55	
33 34 13 13-0005 EA 2,000 Gallon Precast Septic Tank.....	6,311.25	1,005.75
<i>For Non-Traffic Rated, Deduct</i>		
	-1,270.00	
33 34 13 13-0006 EA 2,500 Gallon Precast Septic Tank.....	7,563.93	1,388.90
<i>For Non-Traffic Rated, Deduct</i>		
	-1,466.14	
33 34 13 13-0007 EA 4,000 Gallon Precast Septic Tank.....	19,704.74	1,915.72
<i>For Non-Traffic Rated, Deduct</i>		
	-4,338.70	
33 34 13 13-0008 EA 5,000 Gallon Precast Septic Tank.....	35,687.95	2,873.59
<i>For Non-Traffic Rated, Deduct</i>		
	-8,043.27	
33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank.....	40,195.05	4,023.02
<i>For Non-Traffic Rated, Deduct</i>		
	-8,824.83	
33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank.....	49,262.88	4,813.32
<i>For Non-Traffic Rated, Deduct</i>		
	-10,847.00	
33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank.....	58,290.16	5,962.76
<i>For Non-Traffic Rated, Deduct</i>		
	-12,736.64	

33 34 13 23 Fiberglass Septic Tank (33 34 13)

33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)

33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank.....	1,848.77	574.71
33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank.....	2,261.68	766.29
33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank.....	2,424.14	694.52
33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank.....	3,661.08	751.86
33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank.....	4,689.83	1,042.16
33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank.....	7,233.33	1,436.79
33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank.....	10,761.94	2,155.19
33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank.....	14,797.97	3,017.26
33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank.....	18,093.63	3,606.29

33 34 13 33 Polyethylene Septic Tank (33 34 13)

33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)

33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,209.61	259.35
33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,804.35	291.77
33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,482.26	356.61
33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,561.37	389.02

33	Utilities
33 30	Sanitary Sewerage Utilities
33 34	Onsite Wastewater Disposal



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,952.30	421.45
33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,514.42	453.86
33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,480.60	324.19
33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,724.42	389.02
33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,184.64	421.45
33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,718.23	453.86
33 34 51 Drainage Field System (33 34)		
33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)		
Note: Includes external coating.		
33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit	1,146.79	112.39
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,628.86	159.64
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	2,169.50	191.57
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	3,522.94	319.29
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	5,164.34	447.01
33 34 53 Distribution Chambers (33 34)		
33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)		
33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)		
Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box.....	335.61	85.27
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box.....	392.15	102.32
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box.....	656.56	119.38
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	1,281.60	204.65
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	1,318.84	82.55
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,593.38	112.58
33 34 56 Drainage Field Dosing Chambers (33 34)		
33 34 56 00-0001 Dosing Siphon (33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	4,862.27	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon	3,321.75	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon	3,192.99	
33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
33 41 16 13 Subdrainage Piping (33 41 16)		
See CSI section 33 42 11 00-0227 for polyethylene drain pipe.		
33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0001)		
Note: Excludes couplings and gaskets.		
33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0004 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.32	4.42
For <100, Add	0.93	
For >1,000, Deduct	-0.49	
33 41 16 13-0005 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	6.76	4.74
For <100, Add	1.05	
For >1,000, Deduct	-0.58	
33 41 16 13-0006 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	8.54	4.97
For <100, Add	1.17	
For >1,000, Deduct	-0.68	
33 41 16 13-0007 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.72	5.13
For <100, Add	1.36	
For >1,000, Deduct	-0.84	
33 41 16 13-0008 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	13.82	5.60
For <100, Add	1.53	
For >1,000, Deduct	-0.97	
33 41 16 13-0009 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.29	6.32
For <100, Add	1.86	
For >1,000, Deduct	-1.23	
33 41 16 13-0010 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	29.24	10.50
For <100, Add	3.04	
For >1,000, Deduct	-1.99	
33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	40.79	11.52
For <100, Add	3.77	
For >1,000, Deduct	-2.62	



Utilities	33	CS
Stormwater Utilities	33 40	
Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0002)</small>		
33 41 16 13-0013 LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.19	4.42
For <100, Add	0.92	
For >1,000, Deduct	-0.48	
33 41 16 13-0014 LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	6.70	4.74
For <100, Add	1.05	
For >1,000, Deduct	-0.57	
33 41 16 13-0015 LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	10.99	4.97
For <100, Add	1.30	
For >1,000, Deduct	-0.80	
33 41 16 13-0016 LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.01	5.13
For <100, Add	1.42	
For >1,000, Deduct	-0.91	
33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.24	5.60
For <100, Add	1.60	
For >1,000, Deduct	-1.04	
33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.14	6.32
For <100, Add	1.86	
For >1,000, Deduct	-1.22	
33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	28.31	10.50
For <100, Add	2.99	
For >1,000, Deduct	-1.94	
33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	39.31	11.52
For <100, Add	3.69	
For >1,000, Deduct	-2.54	
33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 41 16 13-0001)</small>		
Note: Excludes couplings and gaskets.		
33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	43.63	24.48
33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	51.72	28.56
33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	80.55	34.68
33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	102.90	42.84
33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	149.09	51.01
33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	310.86	66.64
33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	374.67	89.76
33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	689.05	102.00
33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	44.66	24.48
33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	55.10	28.56
33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	115.86	34.68
33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	29.44	16.32
33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	30.52	16.32
33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	38.85	19.04
33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	56.21	23.12
33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	73.52	28.56
33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 <small>(33 41 16 13)</small>		
Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	7.97	4.58
For <100, Add	1.09	
For >1,000, Deduct	-0.63	
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.72	4.95
For <100, Add	1.18	
For >1,000, Deduct	-0.68	
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	12.43	5.94
For <100, Add	1.51	
For >1,000, Deduct	-0.92	
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	19.54	7.42
For <100, Add	2.09	
For >1,000, Deduct	-1.35	
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	31.96	7.73
For <100, Add	2.76	
For >1,000, Deduct	-1.98	

33	Utilities
33 40	Stormwater Utilities
33 41	Subdrainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	40.88	8.43
For <100, Add	3.31	
For >1,000, Deduct	-2.47	
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	47.88	9.51
For <100, Add	3.82	
For >1,000, Deduct	-2.87	
33 41 16 13-0050 Perforated Non Reinforced Concrete Drainage Piping, C444 <small>(33 41 16 13)</small>		
33 41 16 13-0051 LF 6" Perforated Non Reinforced Concrete Drainage Pipe	28.74	11.09
For Extra Strength, Add	1.52	
For >1,000, Deduct	-1.44	
33 41 16 13-0052 LF 8" Perforated Non Reinforced Concrete Drainage Pipe	33.52	12.33
For Extra Strength, Add	1.87	
For >1,000, Deduct	-1.68	
33 41 16 13-0053 LF 10" Perforated Non Reinforced Concrete Drainage Pipe	37.88	13.56
For Extra Strength, Add	2.17	
For >1,000, Deduct	-1.89	
33 41 16 13-0054 LF 12" Perforated Non Reinforced Concrete Drainage Pipe	44.33	14.79
For Extra Strength, Add	2.73	
For >1,000, Deduct	-2.22	
33 41 16 13-0055 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	24.04	11.09
For >1,000, Deduct	-1.20	
33 41 16 13-0057 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	26.62	12.33
For >1,000, Deduct	-1.33	
33 41 16 13-0058 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	29.36	13.56
For >1,000, Deduct	-1.47	
33 41 16 13-0059 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	33.43	14.09
For >1,000, Deduct	-1.67	
33 41 16 13-0060 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	38.76	15.84
For >1,000, Deduct	-1.94	
33 41 16 13-0061 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	47.98	20.25
For >1,000, Deduct	-2.40	
33 41 16 13-0062 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	59.96	25.97
For >1,000, Deduct	-3.00	
33 41 16 13-0063 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	73.08	31.70
For >1,000, Deduct	-3.65	
33 41 16 13-0064 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
33 41 16 13-0065 LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	22.49	11.09
For >1,000, Deduct	-1.12	
33 41 16 13-0066 LF 8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	28.34	12.33
For >1,000, Deduct	-1.42	
33 41 16 13-0067 LF 10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	35.58	13.56
For >1,000, Deduct	-1.78	
33 41 16 13-0068 LF 12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	42.95	14.79
For >1,000, Deduct	-2.15	
33 41 16 13-0069 LF 15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	49.13	16.45
For >1,000, Deduct	-2.46	
33 41 16 13-0070 LF 18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	63.56	20.52
For >1,000, Deduct	-3.18	
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 <small>(33 41 16 13)</small>		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe	24.76	12.33
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe	29.95	13.87
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe	35.02	13.87
33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe	47.65	16.95
33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe	57.36	18.49
33 41 16 13-0077 Geotextile Filter Fabric Sock <small>(33 41 16 13)</small>		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock	0.70	
33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock	0.93	
33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock	1.42	
33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock	1.89	
33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock	2.83	
33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock	3.87	
33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock	4.64	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe <small>(33 41 16 13)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	20.91	5.28
For Full Perforated, Add	1.03	



	Utilities	33
	Stormwater Utilities	33 40
	Subdrainage	33 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	26.44	6.40
<i>For Full Perforated, Add</i>	1.36	
33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	33.34	8.13
<i>For Full Perforated, Add</i>	1.71	
33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	37.08	9.60
<i>For Full Perforated, Add</i>	1.79	
33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	42.34	9.95
<i>For Full Perforated, Add</i>	2.25	
33 41 16 13-0091 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	47.73	10.30
<i>For Full Perforated, Add</i>	2.71	
33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	54.53	11.12
<i>For Full Perforated, Add</i>	3.23	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)		
<i>Note: Perforations are located in the bottom quarter points of the pipe.</i>		
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	22.57	5.28
<i>For Full Perforated, Add</i>	1.20	
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	28.69	6.40
<i>For Full Perforated, Add</i>	1.59	
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	36.09	8.13
<i>For Full Perforated, Add</i>	1.98	
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	39.76	9.60
<i>For Full Perforated, Add</i>	2.06	
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	45.65	9.95
<i>For Full Perforated, Add</i>	2.58	
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	51.66	10.30
<i>For Full Perforated, Add</i>	3.11	
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	59.10	11.12
<i>For Full Perforated, Add</i>	3.69	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)		
<i>Note: Perforations are located in the bottom quarter points of the pipe.</i>		
33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	23.11	5.28
<i>For Full Perforated, Add</i>	1.25	
33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	29.38	6.40
<i>For Full Perforated, Add</i>	1.66	
33 41 16 13-0104 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	36.97	8.13
<i>For Full Perforated, Add</i>	2.07	
33 41 16 13-0105 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	46.36	9.60
<i>For Full Perforated, Add</i>	2.72	
33 41 16 13-0106 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	53.86	9.95
<i>For Full Perforated, Add</i>	3.40	
33 41 16 13-0107 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	61.62	10.30
<i>For Full Perforated, Add</i>	4.10	
33 41 16 13-0108 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	70.71	11.12
<i>For Full Perforated, Add</i>	4.85	
33 41 16 13-0109 Prefabricated Composite Drains (33 41 16 13)		
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) (33 41 16 13-0109)		
<i>Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.</i>		
33 41 16 13-0111 LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	9.50	2.06
<i>For External Typar Geotextile Wrap, Add</i>	1.69	
33 41 16 13-0112 EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	42.55	
33 41 16 13-0113 EA End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	42.55	
33 41 16 13-0114 EA Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	81.72	
33 41 16 13-0115 EA End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	81.72	
33 41 16 13-0116 LF 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	15.09	2.57
<i>For External Typar Geotextile Wrap, Add</i>	2.53	
33 41 16 13-0117 EA Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	62.66	
33 41 16 13-0118 EA End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	62.66	
33 41 16 13-0119 EA Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	107.13	
33 41 16 13-0120 EA End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	107.13	
33 41 19 Underslab Drainage (33 41)		
33 41 19 13 Underslab Drainage Piping (33 41 19)		
33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)		
<i>Note: Consists of a layer of fine granular material overlying a coarse layer.</i>		
33 41 19 13-0002 CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	92.25	
33 41 19 13-0003 CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	89.90	
33 41 19 13-0004 CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	88.96	
33 41 19 13-0005 CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	87.55	

33 42 Stormwater Conveyance (33 40)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

36-0016 for backfill.

33 42 11 Stormwater Gravity Piping (33 42)**33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)****33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)**

33 42 11 00-0003	LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	42.79	14.79
	For >1,000, Deduct	-2.14	
	For Class 4, Add	2.06	
	For Class 5, Add	4.33	
33 42 11 00-0004	LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	51.25	16.45
	For >1,000, Deduct	-2.56	
	For Class 4, Add	2.64	
	For Class 5, Add	5.55	
33 42 11 00-0005	LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	58.49	20.52
	For >1,000, Deduct	-2.92	
	For Class 4, Add	2.77	
	For Class 5, Add	5.83	
33 42 11 00-0006	LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	74.89	25.89
	For >1,000, Deduct	-3.74	
	For Class 4, Add	3.60	
	For Class 5, Add	7.58	
33 42 11 00-0007	LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	87.79	31.43
	For >1,000, Deduct	-4.39	
	For Class 4, Add	4.08	
	For Class 5, Add	8.58	
33 42 11 00-0008	LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	111.25	39.97
	For >1,000, Deduct	-5.56	
	For Class 4, Add	5.14	
	For Class 5, Add	10.83	
33 42 11 00-0009	LF 30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	118.23	41.28
	For >1,000, Deduct	-5.91	
	For Class 4, Add	5.56	
	For Class 5, Add	11.71	
33 42 11 00-0010	LF 36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	145.75	46.91
	For >1,000, Deduct	-7.29	
	For Class 4, Add	7.55	
	For Class 5, Add	15.89	
33 42 11 00-0011	LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	187.92	51.59
	For >1,000, Deduct	-9.40	
	For Class 4, Add	10.92	
	For Class 5, Add	22.99	
33 42 11 00-0012	LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	224.64	57.46
	For >1,000, Deduct	-11.23	
	For Class 4, Add	13.54	
	For Class 5, Add	28.51	
33 42 11 00-0013	LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	278.91	65.67
	For >1,000, Deduct	-13.95	
	For Class 4, Add	17.58	
	For Class 5, Add	37.02	
33 42 11 00-0014	LF 60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	336.46	76.18
	For >1,000, Deduct	-16.82	
	For Class 4, Add	21.63	
	For Class 5, Add	45.53	
33 42 11 00-0015	LF 66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	515.01	84.43
	For >1,000, Deduct	-25.75	
	For Class 4, Add	37.52	
	For Class 5, Add	78.99	
33 42 11 00-0016	LF 72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	600.17	91.93
	For >1,000, Deduct	-30.01	
	For Class 4, Add	44.54	
	For Class 5, Add	93.77	
33 42 11 00-0017	LF 78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	720.96	103.19
	For >1,000, Deduct	-36.05	
	For Class 4, Add	54.45	
	For Class 5, Add	114.64	
33 42 11 00-0018	LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	926.71	114.92
	For >1,000, Deduct	-46.34	
	For Class 4, Add	72.44	
	For Class 5, Add	152.51	

33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)

33 42 11 00-0020	LF 12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....	71.71	23.32
	For >1,000, Deduct	-3.59	
	For Horizontal Elliptical - II (HE- II), Add	3.84	
	For Horizontal Elliptical - III (HE- III), Add	8.45	
	For Horizontal Elliptical - IV (HE- IV), Add	18.43	
33 42 11 00-0021	LF 14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	102.11	27.29
	For >1,000, Deduct	-5.11	
	For Horizontal Elliptical - II (HE- II), Add	6.31	
	For Horizontal Elliptical - III (HE- III), Add	13.89	
	For Horizontal Elliptical - IV (HE- IV), Add	30.30	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0022 LF 19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	142.31	41.79
For >1,000, Deduct	-7.12	
For Horizontal Elliptical - II (HE- II), Add	8.26	
For Horizontal Elliptical - III (HE- III), Add	18.17	
For Horizontal Elliptical - IV (HE- IV), Add	39.64	
33 42 11 00-0023 LF 22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	168.27	53.16
For >1,000, Deduct	-8.41	
For Horizontal Elliptical - II (HE- II), Add	9.23	
For Horizontal Elliptical - III (HE- III), Add	20.31	
For Horizontal Elliptical - IV (HE- IV), Add	44.31	
33 42 11 00-0024 LF 24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	178.52	55.55
For >1,000, Deduct	-8.93	
For Horizontal Elliptical - II (HE- II), Add	9.92	
For Horizontal Elliptical - III (HE- III), Add	21.82	
For Horizontal Elliptical - IV (HE- IV), Add	47.60	
33 42 11 00-0025 LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	204.37	58.65
For >1,000, Deduct	-10.22	
For Horizontal Elliptical - II (HE- II), Add	12.06	
For Horizontal Elliptical - III (HE- III), Add	26.53	
For Horizontal Elliptical - IV (HE- IV), Add	57.88	
33 42 11 00-0026 LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	230.22	61.75
For >1,000, Deduct	-11.51	
For Horizontal Elliptical - II (HE- II), Add	14.20	
For Horizontal Elliptical - III (HE- III), Add	31.24	
For Horizontal Elliptical - IV (HE- IV), Add	68.16	
33 42 11 00-0027 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	279.76	67.95
For >1,000, Deduct	-13.99	
For Horizontal Elliptical - II (HE- II), Add	18.27	
For Horizontal Elliptical - III (HE- III), Add	40.19	
For Horizontal Elliptical - IV (HE- IV), Add	87.69	
33 42 11 00-0028 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	336.45	76.42
For >1,000, Deduct	-16.82	
For Horizontal Elliptical - II (HE- II), Add	22.73	
For Horizontal Elliptical - III (HE- III), Add	50.00	
For Horizontal Elliptical - IV (HE- IV), Add	109.09	
33 42 11 00-0029 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	383.05	87.34
For >1,000, Deduct	-19.15	
For Horizontal Elliptical - II (HE- II), Add	25.83	
For Horizontal Elliptical - III (HE- III), Add	56.82	
For Horizontal Elliptical - IV (HE- IV), Add	123.97	
33 42 11 00-0030 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	473.61	101.32
For >1,000, Deduct	-23.68	
For Horizontal Elliptical - II (HE- II), Add	32.89	
For Horizontal Elliptical - III (HE- III), Add	72.35	
For Horizontal Elliptical - IV (HE- IV), Add	157.86	
33 42 11 00-0031 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	540.11	111.63
33 42 11 00-0032 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	653.54	121.95
33 42 11 00-0033 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	779.75	137.91
33 42 11 00-0034 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	844.55	152.91
33 42 11 00-0035 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,077.71	160.42
33 42 11 00-0036 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,247.03	167.92
33 42 11 00-0037 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0038 EA 12" Concrete Reducing Wye Without Gaskets	508.90	56.34
33 42 11 00-0039 EA 15" Concrete Reducing Wye Without Gaskets	610.41	68.67
33 42 11 00-0040 EA 18" Concrete Reducing Wye Without Gaskets	753.34	75.71
33 42 11 00-0041 EA 21" Concrete Reducing Wye Without Gaskets	865.28	93.32
33 42 11 00-0042 EA 24" Concrete Reducing Wye Without Gaskets	978.60	112.68
33 42 11 00-0043 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0044 EA 12" Diameter Concrete Pipe Joint Gasket	4.80	
33 42 11 00-0045 EA 15" Diameter Concrete Pipe Joint Gasket	5.68	
33 42 11 00-0046 EA 18" Diameter Concrete Pipe Joint Gasket	6.58	
33 42 11 00-0047 EA 21" Diameter Concrete Pipe Joint Gasket	7.96	
33 42 11 00-0048 EA 24" Diameter Concrete Pipe Joint Gasket	9.32	
33 42 11 00-0049 EA 27" Diameter Concrete Pipe Joint Gasket	10.39	
33 42 11 00-0050 EA 30" Diameter Concrete Pipe Joint Gasket	11.41	
33 42 11 00-0051 EA 36" Diameter Concrete Pipe Joint Gasket	13.94	
33 42 11 00-0052 EA 42" Diameter Concrete Pipe Joint Gasket	16.17	
33 42 11 00-0053 EA 48" Diameter Concrete Pipe Joint Gasket	18.64	
33 42 11 00-0054 EA 54" Diameter Concrete Pipe Joint Gasket	22.85	
33 42 11 00-0055 EA 60" Diameter Concrete Pipe Joint Gasket	33.83	
33 42 11 00-0056 EA 66" Diameter Concrete Pipe Joint Gasket	35.17	
33 42 11 00-0057 EA 72" Diameter Concrete Pipe Joint Gasket	36.46	
33 42 11 00-0058 EA 78" Diameter Concrete Pipe Joint Gasket	41.99	
33 42 11 00-0059 EA 84" Diameter Concrete Pipe Joint Gasket	50.34	
33 42 11 00-0060 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0061 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	275.11	165.11
33 42 11 00-0062 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	338.93	204.51

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0063	EA		18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	417.76	258.92
33 42 11 00-0064	EA		21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	492.83	309.58
33 42 11 00-0065	EA		24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	565.93	358.26
33 42 11 00-0066	EA		27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	689.90	457.81
33 42 11 00-0067	EA		30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	887.15	630.42
33 42 11 00-0068	EA		36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,101.32	795.53
33 42 11 00-0069	EA		42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,352.38	997.97
33 42 11 00-0070	EA		48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,509.79	1,124.80
33 42 11 00-0071	EA		54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,683.22	1,260.83
33 42 11 00-0072	EA		60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,858.20	1,400.61
33 42 11 00-0073	EA		66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,931.47	1,454.08
33 42 11 00-0074	EA		72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,995.98	1,500.99
33 42 11 00-0075	EA		78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,060.47	1,547.89
33 42 11 00-0076	EA		84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,127.18	1,594.80
33 42 11 00-0077			Strap Assembly <small>(33 42 11 00-0001)</small>		
			Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0078	EA		Up To 24" Diameter Pipe, 12' Strap Assembly.....	212.79	
33 42 11 00-0079	EA		>24" Diameter Pipe, 12' Strap Assembly.....	300.15	
33 42 11 00-0080			Prestressed Concrete Cylinder Piping <small>(33 42 11)</small>		
33 42 11 00-0081			150 PSI Prestressed Concrete Cylinder Pipe And Fittings <small>(33 42 11 00-0080)</small>		
33 42 11 00-0082			150 PSI Prestressed Concrete Cylinder Pipe With Gaskets <small>(33 42 11 00-0081)</small>		
			Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0083	LF		12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	114.45	14.79
			For >1,000, Deduct	-5.72	
			For 100 PSI, Deduct	-23.33	
33 42 11 00-0084	LF		15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	122.23	16.45
			For >1,000, Deduct	-6.11	
			For 100 PSI, Deduct	-24.68	
33 42 11 00-0085	LF		18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	133.44	20.52
			For >1,000, Deduct	-6.67	
			For 100 PSI, Deduct	-26.03	
33 42 11 00-0086	LF		21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	146.49	25.89
			For >1,000, Deduct	-7.32	
			For 100 PSI, Deduct	-27.38	
33 42 11 00-0087	LF		24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	159.82	31.43
			For >1,000, Deduct	-7.99	
			For 100 PSI, Deduct	-28.73	
33 42 11 00-0088	LF		30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	188.34	41.28
			For >1,000, Deduct	-9.42	
			For 100 PSI, Deduct	-32.17	
33 42 11 00-0089	LF		36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	208.75	46.91
			For >1,000, Deduct	-10.44	
			For 100 PSI, Deduct	-35.61	
33 42 11 00-0090	LF		42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	241.94	51.59
			For >1,000, Deduct	-12.10	
			For 100 PSI, Deduct	-42.24	
33 42 11 00-0091	LF		48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	277.56	57.46
			For >1,000, Deduct	-13.88	
			For 100 PSI, Deduct	-48.87	
33 42 11 00-0092	LF		54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	368.45	75.02
			For >1,000, Deduct	-18.42	
			For 100 PSI, Deduct	-65.32	
33 42 11 00-0093	LF		60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	443.55	87.02
			For >1,000, Deduct	-22.18	
			For 100 PSI, Deduct	-79.81	
33 42 11 00-0094	LF		66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	498.17	96.46
			For >1,000, Deduct	-24.91	
			For 100 PSI, Deduct	-90.25	
33 42 11 00-0095	LF		72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	555.22	105.03
			For >1,000, Deduct	-27.76	
			For 100 PSI, Deduct	-101.30	
33 42 11 00-0096	LF		78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	630.46	117.88
			For >1,000, Deduct	-31.52	
			For 100 PSI, Deduct	-115.42	
33 42 11 00-0097	LF		84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	705.70	131.28
			For >1,000, Deduct	-35.29	
			For 100 PSI, Deduct	-129.54	
33 42 11 00-0098	LF		90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	870.45	153.25
			For >1,000, Deduct	-43.52	
			For 100 PSI, Deduct	-162.69	
33 42 11 00-0099	LF		96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,023.58	175.00
			For >1,000, Deduct	-51.18	
			For 100 PSI, Deduct	-193.39	
33 42 11 00-0100	LF		102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,193.24	190.64
			For >1,000, Deduct	-59.66	
			For 100 PSI, Deduct	-230.22	
33 42 11 00-0101	LF		108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,345.16	202.45
			For >1,000, Deduct	-67.26	
			For 100 PSI, Deduct	-263.99	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0102 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For >1,000, Deduct</i> <i>For 100 PSI, Deduct</i>	1,619.88 -80.99 -328.45	214.26
33 42 11 00-0103 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For >1,000, Deduct</i> <i>For 100 PSI, Deduct</i>	1,880.89 -94.04 -389.84	225.07
33 42 11 00-0104 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For >1,000, Deduct</i> <i>For 100 PSI, Deduct</i>	2,048.58 -102.43 -427.91	235.87
33 42 11 00-0105 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For >1,000, Deduct</i> <i>For 100 PSI, Deduct</i>	2,218.73 -110.94 -466.58	246.68
33 42 11 00-0106 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For >1,000, Deduct</i> <i>For 100 PSI, Deduct</i>	2,387.65 -119.38 -504.95	257.49
33 42 11 00-0107 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For >1,000, Deduct</i> <i>For 100 PSI, Deduct</i>	2,556.58 -127.83 -543.32	268.30
33 42 11 00-0108 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets ⁽³³⁾ <small>42 11 00-0081</small>		
33 42 11 00-0109 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	402.55	138.65
33 42 11 00-0110 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	558.23	198.08
33 42 11 00-0111 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	719.74	264.10
33 42 11 00-0112 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	881.27	330.13
33 42 11 00-0113 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,071.82	410.24
33 42 11 00-0114 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,370.29	550.22
33 42 11 00-0115 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,706.02	656.69
33 42 11 00-0116 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,987.18	766.45
33 42 11 00-0117 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,239.84	875.27
33 42 11 00-0118 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,758.61	1,092.91
33 42 11 00-0119 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,657.54	1,500.35
33 42 11 00-0120 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,080.51	1,661.10
33 42 11 00-0121 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,503.49	1,821.85
33 42 11 00-0122 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,392.59	2,089.78
33 42 11 00-0123 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,275.77	2,357.70
33 42 11 00-0124 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,416.70	2,679.20
33 42 11 00-0125 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,551.72	3,000.71
33 42 11 00-0126 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,422.39	3,832.81
33 42 11 00-0127 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,198.92	4,599.38
33 42 11 00-0128 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,490.27	6,132.51
33 42 11 00-0129 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,709.07	7,665.63
33 42 11 00-0130 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,538.48	8,267.93
33 42 11 00-0131 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,371.96	8,870.22
33 42 11 00-0132 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	36,533.76	9,472.53
33 42 11 00-0133 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	34,095.22	10,074.83
33 42 11 00-0134 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets ⁽³³⁾ <small>42 11 00-0081</small>		
33 42 11 00-0135 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	377.50	138.65
33 42 11 00-0136 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	525.81	198.08
33 42 11 00-0137 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	681.44	264.10
33 42 11 00-0138 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	837.07	330.13
33 42 11 00-0139 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,021.73	410.24
33 42 11 00-0140 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,301.53	513.24
33 42 11 00-0141 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,627.44	656.69
33 42 11 00-0142 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,896.32	766.45
33 42 11 00-0143 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,142.11	875.27
33 42 11 00-0144 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,615.91	1,092.91
33 42 11 00-0145 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,525.25	1,500.35
33 42 11 00-0146 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,938.64	1,661.10
33 42 11 00-0147 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,352.04	1,821.85
33 42 11 00-0148 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,039.05	2,089.78
33 42 11 00-0149 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,720.15	2,357.70
33 42 11 00-0150 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,715.50	2,679.20
33 42 11 00-0151 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,704.94	3,000.71
33 42 11 00-0152 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,011.17	3,750.88
33 42 11 00-0153 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,550.99	4,599.38
33 42 11 00-0154 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,441.40	6,132.51
33 42 11 00-0155 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,259.26	7,665.63
33 42 11 00-0156 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,549.28	8,267.93
33 42 11 00-0157 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,843.37	10,074.83
33 42 11 00-0158 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,144.42	9,472.53
33 42 11 00-0159 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,741.57	10,074.83
33 42 11 00-0160 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints ^(33 42 11 00-0080)		
33 42 11 00-0161 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints ^(33 42 11 00-0160)		
Note: AWWA C301		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0162	LF		30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	220.64	41.28
			<i>For >1,000, Deduct</i>	-11.03	
33 42 11 00-0163	LF		36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	268.40	46.91
			<i>For >1,000, Deduct</i>	-13.42	
33 42 11 00-0164	LF		42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	312.75	51.59
			<i>For >1,000, Deduct</i>	-15.64	
33 42 11 00-0165			400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints		
			Joints <small>(33 42 11 00-0160)</small>		
			Note: AWWA C301		
33 42 11 00-0166	LF		48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	419.79	57.41
			<i>For >1,000, Deduct</i>	-20.99	
33 42 11 00-0167	LF		54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	504.96	75.02
			<i>For >1,000, Deduct</i>	-25.25	
33 42 11 00-0168	LF		60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	582.21	87.02
			<i>For >1,000, Deduct</i>	-29.11	
33 42 11 00-0169	LF		66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	655.18	96.46
			<i>For >1,000, Deduct</i>	-32.76	
33 42 11 00-0170	LF		72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	791.86	105.03
			<i>For >1,000, Deduct</i>	-39.59	
33 42 11 00-0171			Welded Joints For Prestressed Concrete Cylinder Pipe <small>(33 42 11 00-0160)</small>		
			Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0172	EA		30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,501.43	
33 42 11 00-0173	EA		36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,612.65	
33 42 11 00-0174	EA		42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,668.26	
33 42 11 00-0175	EA		48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,890.69	
33 42 11 00-0176	EA		54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,946.30	
33 42 11 00-0177	EA		60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,057.52	
33 42 11 00-0178	EA		66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,113.12	
33 42 11 00-0179	EA		72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,168.73	
33 42 11 00-0180	EA		30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,780.43	
33 42 11 00-0181	EA		36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,780.43	
33 42 11 00-0182	EA		42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,169.69	
33 42 11 00-0183	EA		48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,169.69	
33 42 11 00-0184	EA		54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,392.12	
33 42 11 00-0185	EA		60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,392.12	
33 42 11 00-0186	EA		66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,670.16	
33 42 11 00-0187	EA		72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,670.16	
33 42 11 00-0188			Quick Test Joints <small>(33 42 11 00-0160)</small>		
33 42 11 00-0189	EA		30" Quick Test Joint.....	500.93	
33 42 11 00-0190	EA		36" Quick Test Joint.....	505.63	
33 42 11 00-0191	EA		42" Quick Test Joint.....	510.32	
33 42 11 00-0192	EA		48" Quick Test Joint.....	520.88	
33 42 11 00-0193	EA		54" Quick Test Joint.....	546.73	
33 42 11 00-0194	EA		60" Quick Test Joint.....	567.21	
33 42 11 00-0195	EA		66" Quick Test Joint.....	597.47	
33 42 11 00-0196	EA		72" Quick Test Joint.....	627.73	
33 42 11 00-0197			Harnessed Joints <small>(33 42 11 00-0160)</small>		
33 42 11 00-0198			Harness Clamp Restrained Joints <small>(33 42 11 00-0197)</small>		
33 42 11 00-0199	EA		30" Harness Clamp Restrained Joint.....	2,881.37	
33 42 11 00-0200	EA		36" Harness Clamp Restrained Joint.....	2,994.00	
33 42 11 00-0201	EA		42" Harness Clamp Restrained Joint.....	3,106.63	
33 42 11 00-0202	EA		48" Harness Clamp Restrained Joint.....	3,219.25	
33 42 11 00-0203	EA		54" Harness Clamp Restrained Joint.....	3,345.23	
33 42 11 00-0204	EA		60" Harness Clamp Restrained Joint.....	3,517.85	
33 42 11 00-0205	EA		66" Harness Clamp Restrained Joint.....	3,636.51	
33 42 11 00-0206	EA		72" Harness Clamp Restrained Joint.....	3,895.48	
33 42 11 00-0207			Snap Ring Restrained Joints <small>(33 42 11 00-0197)</small>		
33 42 11 00-0208	EA		30" Snap Ring Restrained Joint.....	506.78	
33 42 11 00-0209	EA		36" Snap Ring Restrained Joint.....	576.24	
33 42 11 00-0210	EA		42" Snap Ring Restrained Joint.....	764.42	
33 42 11 00-0211	EA		48" Snap Ring Restrained Joint.....	866.26	
33 42 11 00-0212	EA		54" Snap Ring Restrained Joint.....	981.44	
33 42 11 00-0213	EA		60" Snap Ring Restrained Joint.....	1,110.89	
33 42 11 00-0214	EA		66" Snap Ring Restrained Joint.....	1,229.54	
33 42 11 00-0215	EA		72" Snap Ring Restrained Joint.....	1,369.79	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0216 Pipe Repairs <small>(33 42 11 00-0160)</small>		
Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
33 42 11 00-0217 Lined Cylinder Pipe Repair <small>(33 42 11 00-0216)</small>		
33 42 11 00-0218 EA 30" Lined Cylinder Pipe Repair	6,855.77	
33 42 11 00-0219 EA 36" Lined Cylinder Pipe Repair	8,513.13	
33 42 11 00-0220 EA 42" Lined Cylinder Pipe Repair	8,512.86	
33 42 11 00-0221 Embedded Cylinder Pipe Repair <small>(33 42 11 00-0216)</small>		
Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0222 EA 48" Embedded Cylinder Pipe Repair	12,620.57	
33 42 11 00-0223 EA 54" Embedded Cylinder Pipe Repair	14,648.25	
33 42 11 00-0224 EA 60" Embedded Cylinder Pipe Repair	16,691.63	
33 42 11 00-0225 EA 66" Embedded Cylinder Pipe Repair	18,857.30	
33 42 11 00-0226 EA 72" Embedded Cylinder Pipe Repair	22,651.71	
33 42 11 00-0227 High Density Polyethylene (HDPE) Drainage Piping <small>(33 42 11)</small>		
33 42 11 00-0228 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0227)</small>		
Note: Excludes couplings and gaskets.		
33 42 11 00-0229 Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0228)</small>		
33 42 11 00-0230 LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	13.86	6.20
For <100, Add	2.48	
For >1,000, Deduct	-1.31	
33 42 11 00-0231 LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.16	7.20
For <100, Add	2.88	
For >1,000, Deduct	-1.63	
33 42 11 00-0232 LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	22.37	8.38
For <100, Add	3.35	
For >1,000, Deduct	-1.96	
33 42 11 00-0233 LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	25.44	8.68
For <100, Add	3.47	
For >1,000, Deduct	-2.14	
33 42 11 00-0234 LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.75	8.98
For <100, Add	3.59	
For >1,000, Deduct	-2.24	
33 42 11 00-0235 LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	30.39	9.30
For <100, Add	3.72	
For >1,000, Deduct	-2.45	
33 42 11 00-0236 LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	36.86	9.63
For <100, Add	3.86	
For >1,000, Deduct	-2.81	
33 42 11 00-0237 LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	50.58	11.29
For <100, Add	4.52	
For >1,000, Deduct	-3.66	
33 42 11 00-0238 LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	71.77	15.20
For <100, Add	6.08	
For >1,000, Deduct	-5.11	
33 42 11 00-0239 LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	94.34	19.21
For <100, Add	7.68	
For >1,000, Deduct	-6.64	
33 42 11 00-0240 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0228)</small>		
33 42 11 00-0241 LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.60	8.98
For <100, Add	3.59	
For >1,000, Deduct	-2.23	
33 42 11 00-0242 LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.01	9.30
For <100, Add	3.72	
For >1,000, Deduct	-2.48	
33 42 11 00-0243 LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	37.79	9.63
For <100, Add	3.86	
For >1,000, Deduct	-2.85	
33 42 11 00-0244 LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	52.05	11.29
For <100, Add	4.52	
For >1,000, Deduct	-3.73	
33 42 11 00-0245 LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	75.80	15.20
For <100, Add	6.08	
For >1,000, Deduct	-5.31	
33 42 11 00-0246 LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	97.34	19.21
For <100, Add	7.68	
For >1,000, Deduct	-6.79	
33 42 11 00-0247 LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	126.97	20.96
For <100, Add	8.38	
For >1,000, Deduct	-8.44	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0248 LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	138.45 9.46 -9.29	23.64
33 42 11 00-0249 Perforated, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227) Note: Excludes couplings and gaskets.		
33 42 11 00-0250 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)		
33 42 11 00-0251 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	14.64 2.48 -1.35	6.20
33 42 11 00-0252 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	18.18 2.88 -1.63	7.20
33 42 11 00-0253 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	22.37 3.35 -1.96	8.38
33 42 11 00-0254 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	25.47 3.47 -2.14	8.68
33 42 11 00-0255 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	26.75 3.59 -2.24	8.98
33 42 11 00-0256 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	30.42 3.72 -2.45	9.30
33 42 11 00-0257 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	36.89 3.86 -2.81	9.63
33 42 11 00-0258 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	50.58 4.52 -3.66	11.29
33 42 11 00-0259 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	72.02 6.08 -5.12	15.20
33 42 11 00-0260 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	94.34 7.68 -6.64	19.21
33 42 11 00-0261 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)		
33 42 11 00-0262 LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	26.62 3.59 -2.23	8.98
33 42 11 00-0263 LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	31.04 3.72 -2.48	9.30
33 42 11 00-0264 LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	37.82 3.86 -2.86	9.63
33 42 11 00-0265 LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	52.05 4.52 -3.73	11.29
33 42 11 00-0266 LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	75.80 6.08 -5.31	15.20
33 42 11 00-0267 LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	97.34 7.68 -6.79	19.21
33 42 11 00-0268 LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	126.97 8.38 -8.44	20.96
33 42 11 00-0269 LF 48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	138.45 9.46 -9.29	23.64
33 42 11 00-0270 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227) Note: Excludes couplings and gaskets.		
33 42 11 00-0271 Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0272	EA		4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	60.42	24.48
33 42 11 00-0273	EA		6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	75.30	28.56
33 42 11 00-0274	EA		8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	118.40	34.68
33 42 11 00-0275	EA		10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	177.79	42.84
33 42 11 00-0276	EA		12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	275.89	51.01
33 42 11 00-0277	EA		15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	387.90	66.64
33 42 11 00-0278	EA		18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	556.14	89.76
33 42 11 00-0279	EA		24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	709.13	102.46
33 42 11 00-0280	EA		30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,222.34	118.33
33 42 11 00-0281	EA		36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,565.62	136.68
33 42 11 00-0282	EA		42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,588.42	163.20
33 42 11 00-0283	EA		48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	3,245.83	193.81
33 42 11 00-0284			Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0270)</small>		
33 42 11 00-0285	EA		4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	85.36	24.48
33 42 11 00-0286	EA		6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	102.68	28.56
33 42 11 00-0287	EA		8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	135.68	34.68
33 42 11 00-0288	EA		10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	196.84	42.84
33 42 11 00-0289	EA		12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	337.18	51.01
33 42 11 00-0290	EA		15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	369.09	66.64
33 42 11 00-0291	EA		18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	519.57	89.76
33 42 11 00-0292			22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0270)</small>		
33 42 11 00-0293	EA		4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	37.15	16.32
33 42 11 00-0294	EA		6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	45.53	19.04
33 42 11 00-0295	EA		8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	65.10	23.12
33 42 11 00-0296	EA		10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	81.77	28.56
33 42 11 00-0297	EA		12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	116.52	34.00
33 42 11 00-0298	EA		15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	181.17	43.52
33 42 11 00-0299	EA		18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	240.73	59.84
33 42 11 00-0300	EA		24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	443.83	68.00
33 42 11 00-0301	EA		30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	612.23	78.88
33 42 11 00-0302	EA		36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	717.08	91.12
33 42 11 00-0303	EA		42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	914.23	108.80
33 42 11 00-0304	EA		48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,230.81	129.20
33 42 11 00-0305			45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0270)</small>		
33 42 11 00-0306	EA		4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	39.88	16.32
33 42 11 00-0307	EA		6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	51.22	19.04
33 42 11 00-0308	EA		8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	68.00	23.12
33 42 11 00-0309	EA		10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	105.39	28.56
33 42 11 00-0310	EA		12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	116.52	34.00
33 42 11 00-0311	EA		15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	180.70	43.52
33 42 11 00-0312	EA		18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	278.81	59.84
33 42 11 00-0313	EA		24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	473.25	68.00
33 42 11 00-0314	EA		30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	613.63	78.88
33 42 11 00-0315	EA		36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	780.49	91.12
33 42 11 00-0316	EA		42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,158.96	108.80
33 42 11 00-0317	EA		48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,450.16	129.20
33 42 11 00-0318			Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 42 11 00-0227)</small>		
			Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0319			Couplings, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0318)</small>		
33 42 11 00-0320	EA		4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.63	
33 42 11 00-0321	EA		6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	2.92	
33 42 11 00-0322	EA		8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	4.50	
33 42 11 00-0323	EA		10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.53	
33 42 11 00-0324	EA		12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.95	
33 42 11 00-0325	EA		15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	8.47	
33 42 11 00-0326	EA		18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	12.52	
33 42 11 00-0327	EA		24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	19.94	
33 42 11 00-0328	EA		30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	30.61	
33 42 11 00-0329	EA		36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	40.06	
33 42 11 00-0330	EA		42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	62.97	
33 42 11 00-0331	EA		48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	85.17	
33 42 11 00-0332			Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0318)</small>		
33 42 11 00-0333	EA		4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	86.24	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 11 00-0334	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	90.29	
	33 42 11 00-0335	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	94.54	
	33 42 11 00-0336	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	98.99	
	33 42 11 00-0337	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	117.41	
	33 42 11 00-0338	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	121.22	
	33 42 11 00-0339	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	126.43	
	33 42 11 00-0340	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	144.01	
	33 42 11 00-0341	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	230.86	
	33 42 11 00-0342	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	252.86	
	33 42 11 00-0343	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	275.52	
	33 42 11 00-0344	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	334.62	
	33 42 11 00-0345		End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)		
	33 42 11 00-0346	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	28.71	
	33 42 11 00-0347	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	33.51	
	33 42 11 00-0348	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	53.18	
	33 42 11 00-0349	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	89.13	
	33 42 11 00-0350	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	103.50	
	33 42 11 00-0351	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	139.27	
	33 42 11 00-0352	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	144.60	
	33 42 11 00-0353		Vitrified Clay Piping (33 42 11)		
	33 42 11 00-0354		Extra Strength Vitrified Clay Piping (33 42 11 00-0353)		
	33 42 11 00-0355		Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354)		
			Note: ASTM C700.		
	33 42 11 00-0356	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	22.06	
			For 3' Lengths, Add	2.16	
			For 2' Lengths, Add	2.88	
			For Standard Strength, Deduct	-0.72	
			For >1,000, Deduct	-1.10	
	33 42 11 00-0357	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	36.52	
			For 3' Lengths, Add	3.36	
			For 2' Lengths, Add	4.48	
			For Standard Strength, Deduct	-1.12	
			For >1,000, Deduct	-1.83	
	33 42 11 00-0358	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	44.14	
			For 3' Lengths, Add	4.80	
			For 2' Lengths, Add	6.40	
			For Standard Strength, Deduct	-1.60	
			For >1,000, Deduct	-2.21	
	33 42 11 00-0359	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	54.27	
			For 3' Lengths, Add	7.35	
			For 2' Lengths, Add	9.80	
			For Standard Strength, Deduct	-2.45	
			For >1,000, Deduct	-2.71	
	33 42 11 00-0360	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	67.08	
			For 3' Lengths, Add	10.38	
			For 2' Lengths, Add	13.84	
			For Standard Strength, Deduct	-3.46	
			For >1,000, Deduct	-3.35	
	33 42 11 00-0361	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	101.01	
			For 3' Lengths, Add	19.47	
			For 2' Lengths, Add	25.96	
			For Standard Strength, Deduct	-6.49	
			For >1,000, Deduct	-5.05	
	33 42 11 00-0362	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	138.05	
			For 3' Lengths, Add	27.90	
			For 2' Lengths, Add	37.20	
			For Standard Strength, Deduct	-9.30	
			For >1,000, Deduct	-6.90	
	33 42 11 00-0363	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	205.81	
			For 3' Lengths, Add	44.70	
			For 2' Lengths, Add	59.60	
			For Standard Strength, Deduct	-14.90	
			For >1,000, Deduct	-10.29	
	33 42 11 00-0364	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	263.64	
			For 3' Lengths, Add	58.40	
			For 2' Lengths, Add	77.86	
			For Standard Strength, Deduct	-19.47	
			For >1,000, Deduct	-13.18	
	33 42 11 00-0365	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	326.48	
			For 3' Lengths, Add	72.82	
			For 2' Lengths, Add	97.09	
			For Standard Strength, Deduct	-24.27	
			For >1,000, Deduct	-16.32	
	33 42 11 00-0366	LF	36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	394.91	
			For 3' Lengths, Add	87.96	
			For 2' Lengths, Add	117.28	
			For Standard Strength, Deduct	-29.32	
			For >1,000, Deduct	-19.75	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0367 Compression Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0354)</small>		
Note: ASTM C425.		
33 42 11 00-0368 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	31.01	
For 3' Lengths, Add	2.55	
For 2' Lengths, Add	3.40	
For Standard Strength, Deduct	-0.85	
For >1,000, Deduct	-1.55	
33 42 11 00-0369 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	39.21	
For 3' Lengths, Add	4.17	
For 2' Lengths, Add	5.56	
For Standard Strength, Deduct	-1.39	
For >1,000, Deduct	-1.96	
33 42 11 00-0370 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	47.74	
For 3' Lengths, Add	5.88	
For 2' Lengths, Add	7.84	
For Standard Strength, Deduct	-1.96	
For >1,000, Deduct	-2.39	
33 42 11 00-0371 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	61.96	
For 3' Lengths, Add	9.66	
For 2' Lengths, Add	12.88	
For Standard Strength, Deduct	-3.22	
For >1,000, Deduct	-3.10	
33 42 11 00-0372 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	74.77	
For 3' Lengths, Add	12.69	
For 2' Lengths, Add	16.92	
For Standard Strength, Deduct	-4.23	
For >1,000, Deduct	-3.74	
33 42 11 00-0373 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	113.26	
For 3' Lengths, Add	23.14	
For 2' Lengths, Add	30.86	
For Standard Strength, Deduct	-7.71	
For >1,000, Deduct	-5.66	
33 42 11 00-0374 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	158.00	
For 3' Lengths, Add	33.89	
For 2' Lengths, Add	45.18	
For Standard Strength, Deduct	-11.30	
For >1,000, Deduct	-7.90	
33 42 11 00-0375 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	228.64	
For 3' Lengths, Add	51.55	
For 2' Lengths, Add	68.73	
For Standard Strength, Deduct	-17.18	
For >1,000, Deduct	-11.43	
33 42 11 00-0376 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	299.69	
For 3' Lengths, Add	69.21	
For 2' Lengths, Add	92.28	
For Standard Strength, Deduct	-23.07	
For >1,000, Deduct	-14.98	
33 42 11 00-0377 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	485.09	
For 3' Lengths, Add	120.40	
For 2' Lengths, Add	160.53	
For Standard Strength, Deduct	-40.13	
For >1,000, Deduct	-24.25	
33 42 11 00-0378 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	692.91	
For 3' Lengths, Add	177.36	
For 2' Lengths, Add	236.48	
For Standard Strength, Deduct	-59.12	
For >1,000, Deduct	-34.65	
33 42 11 00-0379 Extra Strength, Vitrified Clay Pipe Fittings <small>(33 42 11 00-0353)</small>		
33 42 11 00-0380 1/8 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0379)</small>		
33 42 11 00-0381 Plain End 1/8 Bend, Extra Strength, Vitrified Clay <small>(33 42 11 00-0380)</small>		
33 42 11 00-0382 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	96.01	
33 42 11 00-0383 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	131.02	
33 42 11 00-0384 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	190.19	
33 42 11 00-0385 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	266.21	
33 42 11 00-0386 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	354.31	
33 42 11 00-0387 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	865.32	
33 42 11 00-0388 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,223.19	
33 42 11 00-0389 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,914.71	
33 42 11 00-0390 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,208.28	
33 42 11 00-0391 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,561.60	
33 42 11 00-0392 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,858.35	
33 42 11 00-0393 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0380)</small>		
33 42 11 00-0394 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	107.89	
33 42 11 00-0395 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	155.86	
33 42 11 00-0396 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	213.62	
33 42 11 00-0397 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	291.52	
33 42 11 00-0398 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	372.30	

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0399	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	969.40	
33 42 11 00-0400	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,414.43	
33 42 11 00-0401	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,448.33	
33 42 11 00-0402	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	2,830.55	
33 42 11 00-0403	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	3,147.27	
33 42 11 00-0404	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	4,691.61	
33 42 11 00-0405		1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0379)</small>		
33 42 11 00-0406		Plain End 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0405)</small>		
33 42 11 00-0407	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	110.86	
33 42 11 00-0408	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	148.91	
33 42 11 00-0409	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	211.11	
33 42 11 00-0410	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	289.26	
33 42 11 00-0411	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	380.29	
33 42 11 00-0412	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	894.21	
33 42 11 00-0413	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,259.22	
33 42 11 00-0414	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,960.17	
33 42 11 00-0415	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,263.48	
33 42 11 00-0416	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,630.42	
33 42 11 00-0417	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	3,934.86	
33 42 11 00-0418		Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0405)</small>		
33 42 11 00-0419	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	125.71	
33 42 11 00-0420	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	177.32	
33 42 11 00-0421	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	238.73	
33 42 11 00-0422	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	319.17	
33 42 11 00-0423	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	403.46	
33 42 11 00-0424	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,004.07	
33 42 11 00-0425	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,457.68	
33 42 11 00-0426	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,850.03	
33 42 11 00-0427	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,896.78	
33 42 11 00-0428	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	3,229.87	
33 42 11 00-0429	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	4,783.41	
33 42 11 00-0430		Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0379)</small>		
33 42 11 00-0431		Plain End Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0430)</small>		
33 42 11 00-0432	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	120.00	
33 42 11 00-0433	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	158.17	
33 42 11 00-0434	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	218.39	
33 42 11 00-0435	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	295.35	
33 42 11 00-0436	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	376.31	
33 42 11 00-0437	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	898.06	
33 42 11 00-0438	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,260.81	
33 42 11 00-0439	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,827.78	
33 42 11 00-0440	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,550.94	
33 42 11 00-0441	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,690.22	
33 42 11 00-0442	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,889.84	
33 42 11 00-0443		Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0430)</small>		
33 42 11 00-0444	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	146.93	
33 42 11 00-0445	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	204.50	
33 42 11 00-0446	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	272.50	
33 42 11 00-0447	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	359.88	
33 42 11 00-0448	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	452.05	
33 42 11 00-0449	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,092.84	
33 42 11 00-0450	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,581.21	
33 42 11 00-0451	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,356.41	
33 42 11 00-0452	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,127.49	
33 42 11 00-0453	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,612.16	
33 42 11 00-0454	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	5,151.23	
33 42 11 00-0455		Corrugated Metal Piping <small>(33 42 11)</small>		
33 42 11 00-0456		Galvanized Corrugated Steel Piping <small>(33 42 11 00-0455)</small>		
33 42 11 00-0457		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0456)</small>		
33 42 11 00-0458		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0457)</small>		
33 42 11 00-0459	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	31.23	9.24
		For Bituminous Coated Pipe, Add	2.91	
		For Bituminous Coated And 25% Paved, Add	5.95	
		For Smooth-Flo, Add	10.63	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	33

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0460	LF	15'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	35.01 3.66 7.49 13.37	9.68
33 42 11 00-0461	LF	18'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	38.95 4.44 9.08 16.21	10.57
33 42 11 00-0462	LF	21'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	44.17 5.31 10.86 19.39	11.45
33 42 11 00-0463	LF	24'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	48.83 5.97 12.22 21.82	12.33
33 42 11 00-0464	LF	30'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	64.52 7.75 15.85 28.31	15.84
33 42 11 00-0465	LF	36'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	84.17 9.77 19.99 35.70	20.64
33 42 11 00-0466	LF	42'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	95.55 11.57 23.66 42.25	24.39
33 42 11 00-0467	LF	48'	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	107.41 12.95 26.50 47.32	28.14
33 42 11 00-0468			14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ <small>^(42 11 00-0457)</small>		
33 42 11 00-0469	LF	12'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	33.83 2.95 6.84 13.83	9.24
33 42 11 00-0470	LF	15'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	38.22 3.70 8.58 17.35	9.68
33 42 11 00-0471	LF	18'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	42.81 4.48 10.39 21.00	10.57
33 42 11 00-0472	LF	21'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	48.64 5.33 12.36 24.97	11.45
33 42 11 00-0473	LF	24'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	54.02 6.03 13.98 28.26	12.33
33 42 11 00-0474	LF	30'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	70.86 7.75 17.95 36.29	15.84
33 42 11 00-0475	LF	36'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	91.87 9.71 22.51 45.49	20.64
33 42 11 00-0476	LF	42'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	104.37 11.44 26.49 53.55	24.39
33 42 11 00-0477	LF	48'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	117.50 12.85 29.77 60.18	28.14
33 42 11 00-0478	LF	54'	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	140.05 15.80 36.62 74.02	31.89
33 42 11 00-0479			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ <small>^(42 11 00-0457)</small>		
33 42 11 00-0480	LF	18'	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	50.82 5.14 9.27 17.82	10.57

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0481 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.94	11.45
For Bituminous Coated Pipe, Add	6.07	
For Bituminous Coated And 25% Paved, Add	10.96	
For Smooth-Flo, Add	21.06	
33 42 11 00-0482 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	64.63	11.45
For Bituminous Coated Pipe, Add	6.88	
For Bituminous Coated And 25% Paved, Add	12.43	
For Smooth-Flo, Add	23.88	
33 42 11 00-0483 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	83.97	15.84
For Bituminous Coated Pipe, Add	8.75	
For Bituminous Coated And 25% Paved, Add	15.80	
For Smooth-Flo, Add	30.37	
33 42 11 00-0484 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	107.43	20.64
For Bituminous Coated Pipe, Add	10.82	
For Bituminous Coated And 25% Paved, Add	19.54	
For Smooth-Flo, Add	37.55	
33 42 11 00-0485 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	122.34	24.39
For Bituminous Coated Pipe, Add	12.68	
For Bituminous Coated And 25% Paved, Add	22.90	
For Smooth-Flo, Add	44.00	
33 42 11 00-0486 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	138.10	28.14
For Bituminous Coated Pipe, Add	14.32	
For Bituminous Coated And 25% Paved, Add	25.86	
For Smooth-Flo, Add	49.69	
33 42 11 00-0487 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	162.79	31.89
For Bituminous Coated Pipe, Add	17.17	
For Bituminous Coated And 25% Paved, Add	31.00	
For Smooth-Flo, Add	59.58	
33 42 11 00-0488 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	177.94	33.77
For Bituminous Coated Pipe, Add	18.80	
For Bituminous Coated And 25% Paved, Add	33.95	
For Smooth-Flo, Add	65.25	
33 42 11 00-0489 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	215.45	41.28
For Bituminous Coated Pipe, Add	22.89	
For Bituminous Coated And 25% Paved, Add	41.33	
For Smooth-Flo, Add	79.43	
33 42 11 00-0490 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
^{42 11 00-0487} LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	121.99	20.64
For Bituminous Coated Pipe, Add	13.76	
For Bituminous Coated And 25% Paved, Add	22.99	
For Smooth-Flo, Add	32.81	
33 42 11 00-0492 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	139.38	24.39
For Bituminous Coated Pipe, Add	16.13	
For Bituminous Coated And 25% Paved, Add	26.94	
For Smooth-Flo, Add	38.43	
33 42 11 00-0493 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	157.43	28.14
For Bituminous Coated Pipe, Add	18.22	
For Bituminous Coated And 25% Paved, Add	30.44	
For Smooth-Flo, Add	43.44	
33 42 11 00-0494 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	184.45	31.89
For Bituminous Coated Pipe, Add	21.58	
For Bituminous Coated And 25% Paved, Add	36.06	
For Smooth-Flo, Add	51.45	
33 42 11 00-0495 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	202.04	33.77
For Bituminous Coated Pipe, Add	23.71	
For Bituminous Coated And 25% Paved, Add	39.60	
For Smooth-Flo, Add	56.50	
33 42 11 00-0496 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	241.94	41.28
For Bituminous Coated Pipe, Add	28.36	
For Bituminous Coated And 25% Paved, Add	47.37	
For Smooth-Flo, Add	67.59	
33 42 11 00-0497 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	292.40	60.04
For Bituminous Coated Pipe, Add	30.45	
For Bituminous Coated And 25% Paved, Add	50.86	
For Smooth-Flo, Add	72.57	
33 42 11 00-0498 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0498)		
33 42 11 00-0499 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0499)		
33 42 11 00-0500 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	97.52	20.64
For Bituminous Coated Pipe, Add	10.75	
For Bituminous Coated And 25% Paved, Add	24.40	
For Smooth-Flo, Add	48.58	
33 42 11 00-0501 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	110.86	24.39
For Bituminous Coated Pipe, Add	12.62	
For Bituminous Coated And 25% Paved, Add	28.65	
For Smooth-Flo, Add	57.04	
33 42 11 00-0502 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	124.66	28.14
For Bituminous Coated Pipe, Add	14.16	
For Bituminous Coated And 25% Paved, Add	32.13	
For Smooth-Flo, Add	63.99	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0503 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	148.26	31.89
For Bituminous Coated Pipe, Add	17.29	
For Bituminous Coated And 25% Paved, Add	39.25	
For Smooth-Flo, Add	78.15	
33 42 11 00-0504 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	161.54	33.77
For Bituminous Coated Pipe, Add	18.84	
For Bituminous Coated And 25% Paved, Add	42.76	
For Smooth-Flo, Add	85.15	
33 42 11 00-0505 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	201.80	41.28
For Bituminous Coated Pipe, Add	24.20	
For Bituminous Coated And 25% Paved, Add	54.92	
For Smooth-Flo, Add	109.37	
33 42 11 00-0506 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	248.35	60.04
For Bituminous Coated Pipe, Add	25.79	
For Bituminous Coated And 25% Paved, Add	58.54	
For Smooth-Flo, Add	116.57	
33 42 11 00-0507 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	268.29	65.67
For Bituminous Coated Pipe, Add	27.39	
For Bituminous Coated And 25% Paved, Add	62.18	
For Smooth-Flo, Add	123.81	
33 42 11 00-0508 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	285.68	70.36
For Bituminous Coated Pipe, Add	28.99	
For Bituminous Coated And 25% Paved, Add	65.81	
For Smooth-Flo, Add	131.04	
33 42 11 00-0509 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	303.10	75.04
For Bituminous Coated Pipe, Add	30.60	
For Bituminous Coated And 25% Paved, Add	69.46	
For Smooth-Flo, Add	138.31	
33 42 11 00-0510 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	321.14	79.74
For Bituminous Coated Pipe, Add	32.19	
For Bituminous Coated And 25% Paved, Add	73.08	
For Smooth-Flo, Add	145.52	
33 42 11 00-0511 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	341.85	84.43
For Bituminous Coated Pipe, Add	33.81	
For Bituminous Coated And 25% Paved, Add	76.74	
For Smooth-Flo, Add	152.81	
33 42 11 00-0512 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0498)		
33 42 11 00-0513 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	161.89	31.89
For Bituminous Coated Pipe, Add	20.02	
For Bituminous Coated And 25% Paved, Add	39.23	
For Smooth-Flo, Add	79.26	
33 42 11 00-0514 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	176.61	33.77
For Bituminous Coated Pipe, Add	21.85	
For Bituminous Coated And 25% Paved, Add	42.83	
For Smooth-Flo, Add	86.53	
33 42 11 00-0515 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	218.38	41.28
For Bituminous Coated Pipe, Add	27.51	
For Bituminous Coated And 25% Paved, Add	53.92	
For Smooth-Flo, Add	108.95	
33 42 11 00-0516 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	266.42	60.04
For Bituminous Coated Pipe, Add	29.40	
For Bituminous Coated And 25% Paved, Add	57.63	
For Smooth-Flo, Add	116.44	
33 42 11 00-0517 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	287.80	65.67
For Bituminous Coated Pipe, Add	31.29	
For Bituminous Coated And 25% Paved, Add	61.34	
For Smooth-Flo, Add	123.92	
33 42 11 00-0518 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	306.74	70.36
For Bituminous Coated Pipe, Add	33.20	
For Bituminous Coated And 25% Paved, Add	65.08	
For Smooth-Flo, Add	131.49	
33 42 11 00-0519 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	325.57	75.04
For Bituminous Coated Pipe, Add	35.09	
For Bituminous Coated And 25% Paved, Add	68.78	
For Smooth-Flo, Add	138.97	
33 42 11 00-0520 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	345.10	79.74
For Bituminous Coated Pipe, Add	36.99	
For Bituminous Coated And 25% Paved, Add	72.49	
For Smooth-Flo, Add	146.46	
33 42 11 00-0521 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	367.25	84.43
For Bituminous Coated Pipe, Add	38.89	
For Bituminous Coated And 25% Paved, Add	76.22	
For Smooth-Flo, Add	154.00	
33 42 11 00-0522 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	391.58	93.81
For Bituminous Coated Pipe, Add	40.79	
For Bituminous Coated And 25% Paved, Add	79.95	
For Smooth-Flo, Add	161.54	
33 42 11 00-0523 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	415.34	103.19
For Bituminous Coated Pipe, Add	42.66	
For Bituminous Coated And 25% Paved, Add	83.61	
For Smooth-Flo, Add	168.93	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0524 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-0525 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	210.05	33.77
For Bituminous Coated Pipe, Add	28.54	
For Bituminous Coated And 25% Paved, Add	54.37	
For Smooth-Flo, Add	88.62	
33 42 11 00-0526 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	255.42	41.28
For Bituminous Coated Pipe, Add	34.92	
For Bituminous Coated And 25% Paved, Add	66.52	
For Smooth-Flo, Add	108.43	
33 42 11 00-0527 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	306.68	60.04
For Bituminous Coated Pipe, Add	37.46	
For Bituminous Coated And 25% Paved, Add	71.35	
For Smooth-Flo, Add	116.30	
33 42 11 00-0528 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	331.33	65.67
For Bituminous Coated Pipe, Add	40.00	
For Bituminous Coated And 25% Paved, Add	76.20	
For Smooth-Flo, Add	124.20	
33 42 11 00-0529 LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	353.50	70.36
For Bituminous Coated Pipe, Add	42.56	
For Bituminous Coated And 25% Paved, Add	81.07	
For Smooth-Flo, Add	132.14	
33 42 11 00-0530 LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	375.60	75.04
For Bituminous Coated Pipe, Add	45.10	
For Bituminous Coated And 25% Paved, Add	85.92	
For Smooth-Flo, Add	140.04	
33 42 11 00-0531 LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	398.41	79.74
For Bituminous Coated Pipe, Add	47.65	
For Bituminous Coated And 25% Paved, Add	90.77	
For Smooth-Flo, Add	147.95	
33 42 11 00-0532 LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	423.83	84.43
For Bituminous Coated Pipe, Add	50.20	
For Bituminous Coated And 25% Paved, Add	95.64	
For Smooth-Flo, Add	155.88	
33 42 11 00-0533 LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	451.36	93.81
For Bituminous Coated Pipe, Add	52.75	
For Bituminous Coated And 25% Paved, Add	100.48	
For Smooth-Flo, Add	163.78	
33 42 11 00-0534 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	478.41	103.19
For Bituminous Coated Pipe, Add	55.27	
For Bituminous Coated And 25% Paved, Add	105.29	
For Smooth-Flo, Add	171.62	
33 42 11 00-0535 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	504.45	112.58
For Bituminous Coated Pipe, Add	57.83	
For Bituminous Coated And 25% Paved, Add	110.16	
For Smooth-Flo, Add	179.56	
33 42 11 00-0536 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-0537 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	344.23	60.04
For Bituminous Coated Pipe, Add	44.97	
For Bituminous Coated And 25% Paved, Add	85.44	
For Smooth-Flo, Add	114.21	
33 42 11 00-0538 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	371.96	65.67
For Bituminous Coated Pipe, Add	48.13	
For Bituminous Coated And 25% Paved, Add	91.44	
For Smooth-Flo, Add	122.24	
33 42 11 00-0539 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	397.21	70.36
For Bituminous Coated Pipe, Add	51.30	
For Bituminous Coated And 25% Paved, Add	97.47	
For Smooth-Flo, Add	130.30	
33 42 11 00-0540 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	422.39	75.04
For Bituminous Coated Pipe, Add	54.46	
For Bituminous Coated And 25% Paved, Add	103.47	
For Smooth-Flo, Add	138.32	
33 42 11 00-0541 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	448.28	79.74
For Bituminous Coated Pipe, Add	57.62	
For Bituminous Coated And 25% Paved, Add	109.48	
For Smooth-Flo, Add	146.36	
33 42 11 00-0542 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	476.78	84.43
For Bituminous Coated Pipe, Add	60.79	
For Bituminous Coated And 25% Paved, Add	115.51	
For Smooth-Flo, Add	154.42	
33 42 11 00-0543 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	507.39	93.81
For Bituminous Coated Pipe, Add	63.95	
For Bituminous Coated And 25% Paved, Add	121.51	
For Smooth-Flo, Add	162.44	
33 42 11 00-0544 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	537.50	103.19
For Bituminous Coated Pipe, Add	67.09	
For Bituminous Coated And 25% Paved, Add	127.47	
For Smooth-Flo, Add	170.41	
33 42 11 00-0545 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	566.65	112.58
For Bituminous Coated Pipe, Add	70.27	
For Bituminous Coated And 25% Paved, Add	133.51	
For Smooth-Flo, Add	178.48	



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Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0546 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	597.49	121.95
For Bituminous Coated Pipe, Add	73.42	
For Bituminous Coated And 25% Paved, Add	139.49	
For Smooth-Flo, Add	186.48	
33 42 11 00-0547 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	630.74	131.33
For Bituminous Coated Pipe, Add	76.59	
For Bituminous Coated And 25% Paved, Add	145.51	
For Smooth-Flo, Add	194.53	
33 42 11 00-0548 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	666.86	140.72
For Bituminous Coated Pipe, Add	79.76	
For Bituminous Coated And 25% Paved, Add	151.55	
For Smooth-Flo, Add	202.60	
33 42 11 00-0549 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0550 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0549)		
33 42 11 00-0551 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	125.05	28.14
For Bituminous Coated Pipe, Add	17.79	
For Bituminous Coated And 25% Paved, Add	40.57	
For Smooth-Flo, Add	64.41	
33 42 11 00-0552 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	149.02	31.89
For Bituminous Coated Pipe, Add	21.80	
For Bituminous Coated And 25% Paved, Add	49.71	
For Smooth-Flo, Add	78.93	
33 42 11 00-0553 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	162.20	33.77
For Bituminous Coated Pipe, Add	23.71	
For Bituminous Coated And 25% Paved, Add	54.06	
For Smooth-Flo, Add	85.84	
33 42 11 00-0554 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	200.23	41.28
For Bituminous Coated Pipe, Add	29.85	
For Bituminous Coated And 25% Paved, Add	68.06	
For Smooth-Flo, Add	108.07	
33 42 11 00-0555 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	246.60	60.04
For Bituminous Coated Pipe, Add	31.80	
For Bituminous Coated And 25% Paved, Add	72.50	
For Smooth-Flo, Add	115.12	
33 42 11 00-0556 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	266.29	65.67
For Bituminous Coated Pipe, Add	33.74	
For Bituminous Coated And 25% Paved, Add	76.93	
For Smooth-Flo, Add	122.14	
33 42 11 00-0557 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	283.42	70.36
For Bituminous Coated Pipe, Add	35.68	
For Bituminous Coated And 25% Paved, Add	81.34	
For Smooth-Flo, Add	129.14	
33 42 11 00-0558 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	300.50	75.04
For Bituminous Coated Pipe, Add	37.60	
For Bituminous Coated And 25% Paved, Add	85.73	
For Smooth-Flo, Add	136.11	
33 42 11 00-0559 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	318.39	79.74
For Bituminous Coated Pipe, Add	39.56	
For Bituminous Coated And 25% Paved, Add	90.19	
For Smooth-Flo, Add	143.19	
33 42 11 00-0560 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	339.04	84.43
For Bituminous Coated Pipe, Add	41.56	
For Bituminous Coated And 25% Paved, Add	94.75	
For Smooth-Flo, Add	150.44	
33 42 11 00-0561 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0549)		
33 42 11 00-0562 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	166.05	31.89
For Bituminous Coated Pipe, Add	20.85	
For Bituminous Coated And 25% Paved, Add	48.99	
For Smooth-Flo, Add	88.71	
33 42 11 00-0563 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	181.14	33.77
For Bituminous Coated Pipe, Add	22.76	
For Bituminous Coated And 25% Paved, Add	53.48	
For Smooth-Flo, Add	96.84	
33 42 11 00-0564 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	220.89	41.28
For Bituminous Coated Pipe, Add	28.01	
For Bituminous Coated And 25% Paved, Add	65.83	
For Smooth-Flo, Add	119.20	
33 42 11 00-0565 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	268.92	60.04
For Bituminous Coated Pipe, Add	29.90	
For Bituminous Coated And 25% Paved, Add	70.27	
For Smooth-Flo, Add	127.24	
33 42 11 00-0566 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	290.64	65.67
For Bituminous Coated Pipe, Add	31.86	
For Bituminous Coated And 25% Paved, Add	74.88	
For Smooth-Flo, Add	135.57	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0567	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	309.67	70.36
			<i>For Bituminous Coated Pipe, Add</i>	33.79	
			<i>For Bituminous Coated And 25% Paved, Add</i>	79.41	
			<i>For Smooth-Flo, Add</i>	143.78	
33 42 11 00-0568	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	327.69	75.04
			<i>For Bituminous Coated Pipe, Add</i>	35.52	
			<i>For Bituminous Coated And 25% Paved, Add</i>	83.47	
			<i>For Smooth-Flo, Add</i>	151.13	
33 42 11 00-0569	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	348.33	79.74
			<i>For Bituminous Coated Pipe, Add</i>	37.63	
			<i>For Bituminous Coated And 25% Paved, Add</i>	88.44	
			<i>For Smooth-Flo, Add</i>	160.12	
33 42 11 00-0570	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	370.58	84.43
			<i>For Bituminous Coated Pipe, Add</i>	39.55	
			<i>For Bituminous Coated And 25% Paved, Add</i>	92.95	
			<i>For Smooth-Flo, Add</i>	168.30	
33 42 11 00-0571	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	394.90	93.81
			<i>For Bituminous Coated Pipe, Add</i>	41.46	
			<i>For Bituminous Coated And 25% Paved, Add</i>	97.42	
			<i>For Smooth-Flo, Add</i>	176.40	
33 42 11 00-0572	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	419.09	103.19
			<i>For Bituminous Coated Pipe, Add</i>	43.41	
			<i>For Bituminous Coated And 25% Paved, Add</i>	102.01	
			<i>For Smooth-Flo, Add</i>	184.70	
33 42 11 00-0573 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping					
			<small>(33 42 11 00-0549)</small>		
33 42 11 00-0574	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	216.60	33.77
			<i>For Bituminous Coated Pipe, Add</i>	29.85	
			<i>For Bituminous Coated And 25% Paved, Add</i>	56.72	
			<i>For Smooth-Flo, Add</i>	102.39	
33 42 11 00-0575	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	259.95	41.28
			<i>For Bituminous Coated Pipe, Add</i>	35.83	
			<i>For Bituminous Coated And 25% Paved, Add</i>	68.07	
			<i>For Smooth-Flo, Add</i>	122.88	
33 42 11 00-0576	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	311.70	60.04
			<i>For Bituminous Coated Pipe, Add</i>	38.46	
			<i>For Bituminous Coated And 25% Paved, Add</i>	73.07	
			<i>For Smooth-Flo, Add</i>	131.92	
33 42 11 00-0577	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	336.71	65.67
			<i>For Bituminous Coated Pipe, Add</i>	41.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	78.04	
			<i>For Smooth-Flo, Add</i>	140.89	
33 42 11 00-0578	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	359.06	70.36
			<i>For Bituminous Coated Pipe, Add</i>	43.67	
			<i>For Bituminous Coated And 25% Paved, Add</i>	82.97	
			<i>For Smooth-Flo, Add</i>	149.78	
33 42 11 00-0579	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	381.58	75.04
			<i>For Bituminous Coated Pipe, Add</i>	46.30	
			<i>For Bituminous Coated And 25% Paved, Add</i>	87.96	
			<i>For Smooth-Flo, Add</i>	158.80	
33 42 11 00-0580	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	404.70	79.74
			<i>For Bituminous Coated Pipe, Add</i>	48.91	
			<i>For Bituminous Coated And 25% Paved, Add</i>	92.92	
			<i>For Smooth-Flo, Add</i>	167.75	
33 42 11 00-0581	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	430.35	84.43
			<i>For Bituminous Coated Pipe, Add</i>	51.51	
			<i>For Bituminous Coated And 25% Paved, Add</i>	97.87	
			<i>For Smooth-Flo, Add</i>	176.67	
33 42 11 00-0582	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	458.30	93.81
			<i>For Bituminous Coated Pipe, Add</i>	54.14	
			<i>For Bituminous Coated And 25% Paved, Add</i>	102.86	
			<i>For Smooth-Flo, Add</i>	185.69	
33 42 11 00-0583	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	485.78	103.19
			<i>For Bituminous Coated Pipe, Add</i>	56.75	
			<i>For Bituminous Coated And 25% Paved, Add</i>	107.82	
			<i>For Smooth-Flo, Add</i>	194.64	
33 42 11 00-0584	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	512.09	112.58
			<i>For Bituminous Coated Pipe, Add</i>	59.36	
			<i>For Bituminous Coated And 25% Paved, Add</i>	112.78	
			<i>For Smooth-Flo, Add</i>	203.59	
33 42 11 00-0585 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping					
			<small>(33 42 11 00-0549)</small>		
33 42 11 00-0586	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	352.66	60.04
			<i>For Bituminous Coated Pipe, Add</i>	46.65	
			<i>For Bituminous Coated And 25% Paved, Add</i>	88.64	
			<i>For Smooth-Flo, Add</i>	139.26	
33 42 11 00-0587	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	381.47	65.67
			<i>For Bituminous Coated Pipe, Add</i>	50.03	
			<i>For Bituminous Coated And 25% Paved, Add</i>	95.05	
			<i>For Smooth-Flo, Add</i>	149.33	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0588 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	407.39	70.36
For Bituminous Coated Pipe, Add	53.33	
For Bituminous Coated And 25% Paved, Add	101.33	
For Smooth-Flo, Add	159.20	
33 42 11 00-0589 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	433.14	75.04
For Bituminous Coated Pipe, Add	56.61	
For Bituminous Coated And 25% Paved, Add	107.56	
For Smooth-Flo, Add	168.97	
33 42 11 00-0590 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	459.76	79.74
For Bituminous Coated Pipe, Add	59.92	
For Bituminous Coated And 25% Paved, Add	113.84	
For Smooth-Flo, Add	178.86	
33 42 11 00-0591 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	488.81	84.43
For Bituminous Coated Pipe, Add	63.20	
For Bituminous Coated And 25% Paved, Add	120.08	
For Smooth-Flo, Add	188.65	
33 42 11 00-0592 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	520.14	93.81
For Bituminous Coated Pipe, Add	66.50	
For Bituminous Coated And 25% Paved, Add	126.36	
For Smooth-Flo, Add	198.51	
33 42 11 00-0593 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	551.06	103.19
For Bituminous Coated Pipe, Add	69.80	
For Bituminous Coated And 25% Paved, Add	132.62	
For Smooth-Flo, Add	208.36	
33 42 11 00-0594 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	580.72	112.58
For Bituminous Coated Pipe, Add	73.08	
For Bituminous Coated And 25% Paved, Add	138.86	
For Smooth-Flo, Add	218.15	
33 42 11 00-0595 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	617.48	121.95
For Bituminous Coated Pipe, Add	77.41	
For Bituminous Coated And 25% Paved, Add	147.09	
For Smooth-Flo, Add	231.08	
33 42 11 00-0596 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	652.73	131.33
For Bituminous Coated Pipe, Add	80.98	
For Bituminous Coated And 25% Paved, Add	153.87	
For Smooth-Flo, Add	241.74	
33 42 11 00-0597 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	691.51	140.72
For Bituminous Coated Pipe, Add	84.69	
For Bituminous Coated And 25% Paved, Add	160.92	
For Smooth-Flo, Add	252.81	
33 42 11 00-0598 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0599 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)		
33 42 11 00-0600 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	44.14	10.57
For Bituminous Coated Pipe, Add	5.48	
33 42 11 00-0601 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	50.27	11.45
For Bituminous Coated Pipe, Add	6.53	
33 42 11 00-0602 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	55.99	12.33
For Bituminous Coated Pipe, Add	7.42	
33 42 11 00-0603 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	73.52	15.84
For Bituminous Coated Pipe, Add	9.56	
33 42 11 00-0604 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	95.19	20.64
For Bituminous Coated Pipe, Add	11.98	
33 42 11 00-0605 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	108.39	24.39
For Bituminous Coated Pipe, Add	14.13	
33 42 11 00-0606 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	122.12	28.14
For Bituminous Coated Pipe, Add	15.90	
33 42 11 00-0607 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	145.39	31.89
For Bituminous Coated Pipe, Add	19.47	
33 42 11 00-0608 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	158.61	33.77
For Bituminous Coated Pipe, Add	21.26	
33 42 11 00-0609 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)		
33 42 11 00-0610 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	48.07	10.57
For Bituminous Coated Pipe, Add	6.34	
33 42 11 00-0611 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	54.86	11.45
For Bituminous Coated Pipe, Add	7.54	
33 42 11 00-0612 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	61.21	12.33
For Bituminous Coated Pipe, Add	8.56	
33 42 11 00-0613 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	80.02	15.84
For Bituminous Coated Pipe, Add	10.98	
33 42 11 00-0614 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	103.02	20.64
For Bituminous Coated Pipe, Add	13.68	
33 42 11 00-0615 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	117.54	24.39
For Bituminous Coated Pipe, Add	16.12	
33 42 11 00-0616 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	132.57	28.14
For Bituminous Coated Pipe, Add	18.18	
33 42 11 00-0617 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	157.14	31.89
For Bituminous Coated Pipe, Add	22.02	
33 42 11 00-0618 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	171.69	33.77
For Bituminous Coated Pipe, Add	24.10	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0619	LF		66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	210.44	41.28
			<i>For Bituminous Coated Pipe, Add</i>	29.94	
33 42 11 00-0620	LF		72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	257.90	60.04
			<i>For Bituminous Coated Pipe, Add</i>	31.99	
33 42 11 00-0621	LF		78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	278.86	65.67
			<i>For Bituminous Coated Pipe, Add</i>	34.08	
33 42 11 00-0622			12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0598)</small>		
33 42 11 00-0623	LF		30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	93.19	15.84
			<i>For Bituminous Coated Pipe, Add</i>	11.47	
33 42 11 00-0624	LF		36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	118.75	20.64
			<i>For Bituminous Coated Pipe, Add</i>	14.17	
33 42 11 00-0625	LF		42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	135.96	24.39
			<i>For Bituminous Coated Pipe, Add</i>	16.67	
33 42 11 00-0626	LF		48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	153.59	28.14
			<i>For Bituminous Coated Pipe, Add</i>	18.85	
33 42 11 00-0627	LF		54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	180.83	31.89
			<i>For Bituminous Coated Pipe, Add</i>	22.49	
33 42 11 00-0628	LF		60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	198.03	33.77
			<i>For Bituminous Coated Pipe, Add</i>	24.70	
33 42 11 00-0629	LF		66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	239.35	41.28
			<i>For Bituminous Coated Pipe, Add</i>	29.96	
33 42 11 00-0630	LF		72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	289.40	60.04
			<i>For Bituminous Coated Pipe, Add</i>	32.13	
33 42 11 00-0631	LF		78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	312.96	65.67
			<i>For Bituminous Coated Pipe, Add</i>	34.33	
33 42 11 00-0632	LF		84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	333.92	70.36
			<i>For Bituminous Coated Pipe, Add</i>	36.51	
33 42 11 00-0633	LF		90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	354.84	75.04
			<i>For Bituminous Coated Pipe, Add</i>	38.70	
33 42 11 00-0634	LF		96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	376.45	79.74
			<i>For Bituminous Coated Pipe, Add</i>	40.88	
33 42 11 00-0635	LF		102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	399.36	84.43
			<i>For Bituminous Coated Pipe, Add</i>	42.82	
33 42 11 00-0636			1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0456)</small>		
33 42 11 00-0637			1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0636)</small>		
33 42 11 00-0638	LF		6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	16.29	5.28
			<i>For Bituminous Coated Pipe, Add</i>	1.40	
33 42 11 00-0639	LF		6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	17.46	5.28
			<i>For Bituminous Coated Pipe, Add</i>	1.69	
33 42 11 00-0640	LF		8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	20.38	6.60
			<i>For Bituminous Coated Pipe, Add</i>	1.85	
33 42 11 00-0641	LF		8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	21.86	6.60
			<i>For Bituminous Coated Pipe, Add</i>	2.22	
33 42 11 00-0642	LF		10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	25.76	7.92
			<i>For Bituminous Coated Pipe, Add</i>	2.33	
33 42 11 00-0643	LF		10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	27.64	7.92
			<i>For Bituminous Coated Pipe, Add</i>	2.79	
33 42 11 00-0644			Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0639)</small>		
33 42 11 00-0645	LF		6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	16.45	5.28
			<i>For Bituminous Coated Pipe, Add</i>	1.38	
33 42 11 00-0646	LF		6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	17.58	5.28
			<i>For Bituminous Coated Pipe, Add</i>	1.65	
33 42 11 00-0647	LF		8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	20.54	6.60
			<i>For Bituminous Coated Pipe, Add</i>	1.82	
33 42 11 00-0648	LF		8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	22.12	6.60
			<i>For Bituminous Coated Pipe, Add</i>	2.19	
33 42 11 00-0649	LF		10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	26.04	7.92
			<i>For Bituminous Coated Pipe, Add</i>	2.30	
33 42 11 00-0650	LF		10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	27.97	7.92
			<i>For Bituminous Coated Pipe, Add</i>	2.75	
33 42 11 00-0651			1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings <small>(33 42 11 00-0636)</small>		
33 42 11 00-0652	EA		6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	8.65	
			<i>For Bituminous Coated Pipe, Add</i>	1.95	
33 42 11 00-0653	EA		8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	11.45	
			<i>For Bituminous Coated Pipe, Add</i>	2.58	
33 42 11 00-0654	EA		10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	14.05	
			<i>For Bituminous Coated Pipe, Add</i>	3.16	
33 42 11 00-0655	EA		6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	31.21	
			<i>For Bituminous Coated Pipe, Add</i>	4.31	
33 42 11 00-0656	EA		6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	7.70	
			<i>For Bituminous Coated Pipe, Add</i>	0.98	
33 42 11 00-0657	EA		8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	9.63	
			<i>For Bituminous Coated Pipe, Add</i>	1.47	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0658 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0456)</small>		
33 42 11 00-0659 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0658)</small>		
33 42 11 00-0660 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	48.41	9.24
33 42 11 00-0661 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	56.66	9.68
33 42 11 00-0662 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	65.20	10.57
33 42 11 00-0663 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	75.54	11.45
33 42 11 00-0664 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	84.18	12.33
33 42 11 00-0665 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	110.31	15.84
33 42 11 00-0666 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	141.99	20.64
33 42 11 00-0667 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	163.94	24.39
33 42 11 00-0668 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	184.03	28.14
33 42 11 00-0669 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0658)</small>		
33 42 11 00-0670 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	54.73	9.24
33 42 11 00-0671 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	64.49	9.68
33 42 11 00-0672 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	74.57	10.57
33 42 11 00-0673 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	86.40	11.45
33 42 11 00-0674 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	96.79	12.33
33 42 11 00-0675 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	125.79	15.84
33 42 11 00-0676 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	160.68	20.64
33 42 11 00-0677 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	185.39	24.39
33 42 11 00-0678 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	208.52	28.14
33 42 11 00-0679 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	252.01	31.89
33 42 11 00-0680 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0658)</small>		
33 42 11 00-0681 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	94.12	10.57
33 42 11 00-0682 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	109.22	11.45
33 42 11 00-0683 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	122.74	12.33
33 42 11 00-0684 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	158.21	15.84
33 42 11 00-0685 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	191.63	20.64
33 42 11 00-0686 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	230.74	24.39
33 42 11 00-0687 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	260.26	28.14
33 42 11 00-0688 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	311.05	31.89
33 42 11 00-0689 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	339.87	33.77
33 42 11 00-0690 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	416.01	41.28
33 42 11 00-0691 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0658)</small>		
33 42 11 00-0692 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	235.12	20.64
33 42 11 00-0693 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	272.05	24.39
33 42 11 00-0694 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	307.19	28.14
33 42 11 00-0695 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	363.62	31.89
33 42 11 00-0696 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	398.38	33.77
33 42 11 00-0697 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	480.28	41.28
33 42 11 00-0698 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	547.68	60.04
33 42 11 00-0699 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0456)</small>		
33 42 11 00-0700 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0699)</small>		
33 42 11 00-0701 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	177.88	20.64
33 42 11 00-0702 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	205.32	24.39
33 42 11 00-0703 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	230.43	28.14
33 42 11 00-0704 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	278.39	31.89
33 42 11 00-0705 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	303.12	33.77
33 42 11 00-0706 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	385.25	41.28
33 42 11 00-0707 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	443.65	60.04
33 42 11 00-0708 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	475.39	65.67
33 42 11 00-0709 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	504.65	70.36
33 42 11 00-0710 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	533.93	75.04
33 42 11 00-0711 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	563.81	79.74
33 42 11 00-0712 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	596.43	84.43
33 42 11 00-0713 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0699)</small>		
33 42 11 00-0714 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	312.18	31.89
33 42 11 00-0715 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	340.48	33.77
33 42 11 00-0716 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	426.40	41.28
33 42 11 00-0717 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	488.40	60.04
33 42 11 00-0718 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	523.79	65.67
33 42 11 00-0719 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	556.85	70.36
33 42 11 00-0720 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	589.68	75.04
33 42 11 00-0721 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	623.18	79.74
33 42 11 00-0722 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	659.49	84.43

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0723 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	697.87	93.81
33 42 11 00-0724 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	735.43	103.19
33 42 11 00-0725 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0699)		
33 42 11 00-0726 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	425.46	33.77
33 42 11 00-0727 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	520.94	41.28
33 42 11 00-0728 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	591.14	60.04
33 42 11 00-0729 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	634.77	65.67
33 42 11 00-0730 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	676.02	70.36
33 42 11 00-0731 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	717.10	75.04
33 42 11 00-0732 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	758.91	79.74
33 42 11 00-0733 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	803.40	84.43
33 42 11 00-0734 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	849.91	93.81
33 42 11 00-0735 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	895.83	103.19
33 42 11 00-0736 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	940.95	112.58
33 42 11 00-0737 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0699)		
33 42 11 00-0738 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	684.75	60.04
33 42 11 00-0739 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	736.01	65.67
33 42 11 00-0740 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	784.95	70.36
33 42 11 00-0741 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	833.69	75.04
33 42 11 00-0742 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	883.20	79.74
33 42 11 00-0743 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	935.37	84.43
33 42 11 00-0744 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	989.58	93.81
33 42 11 00-0745 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,043.14	103.19
33 42 11 00-0746 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,095.94	112.58
33 42 11 00-0747 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,150.30	121.95
33 42 11 00-0748 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,207.23	131.33
33 42 11 00-0749 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,267.03	140.72
33 42 11 00-0750 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0751 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)		
33 42 11 00-0752 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	223.14	28.14
33 42 11 00-0753 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	270.37	31.89
33 42 11 00-0754 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	293.93	33.77
33 42 11 00-0755 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	368.18	41.28
33 42 11 00-0756 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	425.18	60.04
33 42 11 00-0757 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	455.46	65.67
33 42 11 00-0758 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	483.08	70.36
33 42 11 00-0759 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	510.62	75.04
33 42 11 00-0760 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	539.12	79.74
33 42 11 00-0761 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	570.72	84.43
33 42 11 00-0762 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)		
33 42 11 00-0763 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	310.51	31.89
33 42 11 00-0764 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	338.64	33.77
33 42 11 00-0765 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	416.94	41.28
33 42 11 00-0766 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	477.86	60.04
33 42 11 00-0767 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	512.90	65.67
33 42 11 00-0768 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	544.99	70.36
33 42 11 00-0769 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	574.78	75.04
33 42 11 00-0770 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	609.79	79.74
33 42 11 00-0771 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	645.13	84.43
33 42 11 00-0772 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	682.37	93.81
33 42 11 00-0773 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	719.83	103.19
33 42 11 00-0774 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)		
33 42 11 00-0775 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	428.25	33.77
33 42 11 00-0776 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	516.07	41.28
33 42 11 00-0777 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	586.37	60.04
33 42 11 00-0778 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	629.64	65.67
33 42 11 00-0779 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	670.13	70.36
33 42 11 00-0780 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	711.10	75.04
33 42 11 00-0781 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	752.52	79.74
33 42 11 00-0782 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	796.38	84.43
33 42 11 00-0783 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	842.77	93.81
33 42 11 00-0784 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	888.54	103.19
33 42 11 00-0785 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	933.12	112.58



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0786 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0750)</small>		
33 42 11 00-0787 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	684.71	60.04
33 42 11 00-0788 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	737.14	65.67
33 42 11 00-0789 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	786.25	70.36
33 42 11 00-0790 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	834.95	75.04
33 42 11 00-0791 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	884.70	79.74
33 42 11 00-0792 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	936.79	84.43
33 42 11 00-0793 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	991.22	93.81
33 42 11 00-0794 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,045.25	103.19
33 42 11 00-0795 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,097.94	112.58
33 42 11 00-0796 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,165.02	121.95
33 42 11 00-0797 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,225.32	131.33
33 42 11 00-0798 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,290.07	140.72
33 42 11 00-0799 Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0455)</small>		
33 42 11 00-0800 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0801 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0802 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	35.89	9.68
For Bituminous Coated Pipe, Add	3.99	
For Bituminous Coated And 25% Paved, Add	9.64	
For Smooth-Flo, Add	15.90	
33 42 11 00-0803 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	39.73	10.57
For Bituminous Coated Pipe, Add	4.76	
For Bituminous Coated And 25% Paved, Add	11.51	
For Smooth-Flo, Add	18.99	
33 42 11 00-0804 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	45.26	11.45
For Bituminous Coated Pipe, Add	5.73	
For Bituminous Coated And 25% Paved, Add	13.86	
For Smooth-Flo, Add	22.86	
33 42 11 00-0805 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	50.67	12.33
For Bituminous Coated Pipe, Add	6.60	
For Bituminous Coated And 25% Paved, Add	15.97	
For Smooth-Flo, Add	26.33	
33 42 11 00-0806 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	66.18	15.84
For Bituminous Coated Pipe, Add	8.39	
For Bituminous Coated And 25% Paved, Add	20.28	
For Smooth-Flo, Add	33.44	
33 42 11 00-0807 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	87.22	20.64
For Bituminous Coated Pipe, Add	10.82	
For Bituminous Coated And 25% Paved, Add	26.15	
For Smooth-Flo, Add	43.14	
33 42 11 00-0808 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0809 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	39.12	9.68
For Bituminous Coated Pipe, Add	4.14	
For Bituminous Coated And 25% Paved, Add	9.68	
For Smooth-Flo, Add	15.87	
33 42 11 00-0810 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	43.69	10.57
For Bituminous Coated Pipe, Add	4.96	
For Bituminous Coated And 25% Paved, Add	11.61	
For Smooth-Flo, Add	19.04	
33 42 11 00-0811 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	49.67	11.45
For Bituminous Coated Pipe, Add	5.90	
For Bituminous Coated And 25% Paved, Add	13.80	
For Smooth-Flo, Add	22.63	
33 42 11 00-0812 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	55.78	12.33
For Bituminous Coated Pipe, Add	6.80	
For Bituminous Coated And 25% Paved, Add	15.91	
For Smooth-Flo, Add	26.09	
33 42 11 00-0813 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	72.55	15.84
For Bituminous Coated Pipe, Add	8.61	
For Bituminous Coated And 25% Paved, Add	20.15	
For Smooth-Flo, Add	33.04	
33 42 11 00-0814 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	94.80	20.64
For Bituminous Coated Pipe, Add	10.97	
For Bituminous Coated And 25% Paved, Add	25.66	
For Smooth-Flo, Add	42.09	
33 42 11 00-0815 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	108.54	24.39
For Bituminous Coated Pipe, Add	13.07	
For Bituminous Coated And 25% Paved, Add	30.57	
For Smooth-Flo, Add	50.14	
33 42 11 00-0816 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0817	LF		21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	56.64 5.37 11.94 18.36	11.26
33 42 11 00-0818	LF		24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	64.43 6.36 14.16 21.78	12.19
33 42 11 00-0819	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	72.22 7.30 16.25 24.98	13.14
33 42 11 00-0820	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	93.54 9.19 20.46 31.45	16.89
33 42 11 00-0821	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	110.27 11.50 25.60 39.36	20.64
33 42 11 00-0822	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	126.39 13.60 30.27 46.55	24.39
33 42 11 00-0823	LF		57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	147.13 16.13 35.90 55.20	28.14
33 42 11 00-0824	LF		64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	164.79 17.82 39.65 60.96	31.89
33 42 11 00-0825			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0826	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	124.83 13.86 29.18 36.80	20.64
33 42 11 00-0827	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	143.37 16.35 34.42 43.41	24.39
33 42 11 00-0828	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	166.37 19.24 40.50 51.07	28.14
33 42 11 00-0829	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	186.53 21.33 44.90 56.62	31.89
33 42 11 00-0830	LF		71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	204.28 23.42 49.29 62.17	33.77
33 42 11 00-0831			3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0832			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small>		
33 42 11 00-0833	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	164.57 20.55 62.48 69.88	31.89
33 42 11 00-0834	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	179.81 22.49 68.38 76.47	33.77
33 42 11 00-0835	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	222.07 28.25 85.88 96.05	41.28
33 42 11 00-0836	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	270.83 30.29 92.07 102.97	60.04
33 42 11 00-0837	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	293.45 32.42 98.57 110.24	65.67
33 42 11 00-0838	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	313.59 34.57 105.10 117.55	70.36



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0839	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	333.67 36.71 111.61 124.83	75.04
33 42 11 00-0840	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	354.40 38.85 118.09 132.08	79.74
33 42 11 00-0841			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small>		
33 42 11 00-0842	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	213.28 29.19 76.47 90.48	33.77
33 42 11 00-0843	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	259.19 35.67 93.47 110.59	41.28
33 42 11 00-0844	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	311.24 38.37 100.52 118.94	60.04
33 42 11 00-0845	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	337.13 41.16 107.84 127.60	65.67
33 42 11 00-0846	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	360.54 43.96 115.19 136.29	70.36
33 42 11 00-0847	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	383.90 46.76 122.51 144.96	75.04
33 42 11 00-0848	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	407.90 49.55 129.81 153.59	79.74
33 42 11 00-0849	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	434.61 52.36 137.18 162.32	84.43
33 42 11 00-0850	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	463.41 55.16 144.51 170.99	93.81
33 42 11 00-0851	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	493.22 58.23 152.57 180.53	103.19
33 42 11 00-0852			10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small>		
33 42 11 00-0853	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	348.79 45.88 109.19 118.59	60.04
33 42 11 00-0854	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	377.79 49.29 117.31 127.42	65.67
33 42 11 00-0855	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	404.28 52.71 125.45 136.26	70.36
33 42 11 00-0856	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	430.66 56.11 133.55 145.05	75.04
33 42 11 00-0857	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	457.77 59.52 141.66 153.86	79.74
33 42 11 00-0858	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	487.54 62.95 149.81 162.72	84.43
33 42 11 00-0859	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	519.41 66.36 157.93 171.54	93.81

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0860	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	552.06 70.00 166.60 180.96	103.19
33 42 11 00-0861	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	587.19 74.38 177.01 192.26	112.58
33 42 11 00-0862			125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0863			12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0862)</small>		
33 42 11 00-0864	LF		81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	314.93 39.11 95.42 121.42	60.04
33 42 11 00-0865	LF		87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	340.45 41.82 102.05 129.86	65.67
33 42 11 00-0866	LF		95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	363.29 44.51 108.61 138.22	70.36
33 42 11 00-0867	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	386.11 47.20 115.17 146.56	75.04
33 42 11 00-0868	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	409.71 49.91 121.78 154.96	79.74
33 42 11 00-0869	LF		117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	436.12 52.66 128.50 163.52	84.43
33 42 11 00-0870	LF		128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	464.62 55.40 135.18 172.02	93.81
33 42 11 00-0871	LF		137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	496.21 58.83 143.55 182.67	103.19
33 42 11 00-0872			10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0862)</small>		
33 42 11 00-0873	LF		81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	356.49 47.42 107.16 116.41	60.04
33 42 11 00-0874	LF		87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	385.34 50.80 114.81 124.72	65.67
33 42 11 00-0875	LF		95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	411.56 54.17 122.42 132.98	70.36
33 42 11 00-0876	LF		103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	437.85 57.55 130.06 141.29	75.04
33 42 11 00-0877	LF		112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	464.26 60.82 137.45 149.31	79.74
33 42 11 00-0878	LF		117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	494.51 64.34 145.41 157.95	84.43
33 42 11 00-0879	LF		128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	526.45 67.77 153.15 166.37	93.81
33 42 11 00-0880	LF		137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	561.45 71.88 162.45 176.47	103.19



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0881 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	594.14 75.77 171.23 186.01	112.58
33 42 11 00-0882 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0883 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0884 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	56.72	9.68
33 42 11 00-0885 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	64.62	10.57
33 42 11 00-0886 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	75.29	11.45
33 42 11 00-0887 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	85.33	12.33
33 42 11 00-0888 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	110.33	15.84
33 42 11 00-0889 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	144.57	20.64
33 42 11 00-0890 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0891 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	64.15	9.68
33 42 11 00-0892 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	73.70	10.57
33 42 11 00-0893 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	85.43	11.45
33 42 11 00-0894 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	97.12	12.33
33 42 11 00-0895 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	124.99	15.84
33 42 11 00-0896 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	162.00	20.64
33 42 11 00-0897 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	188.76	24.39
33 42 11 00-0898 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0899 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	95.97	10.57
33 42 11 00-0900 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	111.81	11.45
33 42 11 00-0901 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	126.98	12.33
33 42 11 00-0902 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	162.26	15.84
33 42 11 00-0903 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	207.02	20.64
33 42 11 00-0904 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	241.19	24.39
33 42 11 00-0905 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	284.20	28.14
33 42 11 00-0906 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	315.74	31.89
33 42 11 00-0907 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0908 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	242.34	20.64
33 42 11 00-0909 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	282.39	24.39
33 42 11 00-0910 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	330.91	28.14
33 42 11 00-0911 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	368.55	31.89
33 42 11 00-0912 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	403.70	33.77
33 42 11 00-0913 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0914 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0913)</small>		
33 42 11 00-0915 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	318.82	31.89
33 42 11 00-0916 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	348.28	33.77
33 42 11 00-0917 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	435.45	41.28
33 42 11 00-0918 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	499.27	60.04
33 42 11 00-0919 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	537.75	65.67
33 42 11 00-0920 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	573.80	70.36
33 42 11 00-0921 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	609.68	75.04
33 42 11 00-0922 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	646.33	79.74
33 42 11 00-0923 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0913)</small>		
33 42 11 00-0924 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	433.43	33.77
33 42 11 00-0925 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	530.24	41.28
33 42 11 00-0926 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	602.43	60.04
33 42 11 00-0927 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	649.13	65.67
33 42 11 00-0928 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	693.44	70.36
33 42 11 00-0929 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	737.69	75.04
33 42 11 00-0930 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	782.52	79.74
33 42 11 00-0931 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	830.20	84.43
33 42 11 00-0932 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	879.88	93.81
33 42 11 00-0933 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	932.65	103.19
33 42 11 00-0934 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0913)</small>		
33 42 11 00-0935 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	696.02	60.04
33 42 11 00-0936 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	750.46	65.67
33 42 11 00-0937 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	802.50	70.36
33 42 11 00-0938 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	854.27	75.04

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0939 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	906.80	79.74
33 42 11 00-0940 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	962.14	84.43
33 42 11 00-0941 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,019.52	93.81
33 42 11 00-0942 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,079.32	103.19
33 42 11 00-0943 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,147.08	112.58
33 42 11 00-0944 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0799)		
33 42 11 00-0945 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)		
33 42 11 00-0946 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	594.02	60.04
33 42 11 00-0947 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	638.61	65.67
33 42 11 00-0948 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	680.30	70.36
33 42 11 00-0949 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	721.92	75.04
33 42 11 00-0950 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	764.48	79.74
33 42 11 00-0951 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	810.21	84.43
33 42 11 00-0952 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	857.86	93.81
33 42 11 00-0953 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	913.47	103.19
33 42 11 00-0954 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)		
33 42 11 00-0955 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	693.83	60.04
33 42 11 00-0956 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	746.35	65.67
33 42 11 00-0957 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	796.14	70.36
33 42 11 00-0958 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	846.14	75.04
33 42 11 00-0959 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	895.51	79.74
33 42 11 00-0960 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	950.38	84.43
33 42 11 00-0961 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,006.34	93.81
33 42 11 00-0962 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,070.26	103.19
33 42 11 00-0963 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,130.01	112.58
33 42 11 00-0964 Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0455)		
33 42 11 00-0965 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0964)		
33 42 11 00-0966 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0965)		
33 42 11 00-0967 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	33.89	9.24
For 1/2 Bituminous Coated And 25% Paved, Add	5.93	
33 42 11 00-0968 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	38.37	9.68
For 1/2 Bituminous Coated And 25% Paved, Add	7.47	
33 42 11 00-0969 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	43.02	10.57
For 1/2 Bituminous Coated And 25% Paved, Add	9.05	
33 42 11 00-0970 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	49.03	11.45
For 1/2 Bituminous Coated And 25% Paved, Add	10.82	
33 42 11 00-0971 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	54.33	12.33
For 1/2 Bituminous Coated And 25% Paved, Add	12.19	
33 42 11 00-0972 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	71.65	15.84
For 1/2 Bituminous Coated And 25% Paved, Add	15.82	
33 42 11 00-0973 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	93.17	20.64
For 1/2 Bituminous Coated And 25% Paved, Add	19.95	
33 42 11 00-0974 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	106.18	24.39
For 1/2 Bituminous Coated And 25% Paved, Add	23.60	
33 42 11 00-0975 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	119.34	28.14
For 1/2 Bituminous Coated And 25% Paved, Add	26.45	
33 42 11 00-0976 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0965)		
33 42 11 00-0977 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	37.09	9.24
For 1/2 Bituminous Coated And 25% Paved, Add	5.63	
33 42 11 00-0978 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	42.32	9.68
For 1/2 Bituminous Coated And 25% Paved, Add	7.07	
33 42 11 00-0979 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	47.74	10.57
For 1/2 Bituminous Coated And 25% Paved, Add	8.55	
33 42 11 00-0980 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	54.50	11.45
For 1/2 Bituminous Coated And 25% Paved, Add	10.16	
33 42 11 00-0981 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	60.67	12.33
For 1/2 Bituminous Coated And 25% Paved, Add	11.50	
33 42 11 00-0982 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	79.41	15.84
For 1/2 Bituminous Coated And 25% Paved, Add	14.78	
33 42 11 00-0983 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	102.56	20.64
For 1/2 Bituminous Coated And 25% Paved, Add	18.52	
33 42 11 00-0984 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	116.99	24.39
For 1/2 Bituminous Coated And 25% Paved, Add	21.81	
33 42 11 00-0985 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	131.66	28.14
For 1/2 Bituminous Coated And 25% Paved, Add	24.50	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0986 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	157.45 30.13	31.89
33 42 11 00-0987 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0985)</small>		
33 42 11 00-0988 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	57.64 7.96	10.57
33 42 11 00-0989 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	66.07 9.42	11.45
33 42 11 00-0990 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.81 10.68	12.33
33 42 11 00-0991 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	95.81 13.61	15.84
33 42 11 00-0992 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	122.35 16.89	20.64
33 42 11 00-0993 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	139.92 19.81	24.39
33 42 11 00-0994 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	157.82 22.35	28.14
33 42 11 00-0995 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	187.32 26.98	31.89
33 42 11 00-0996 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	204.58 29.50	33.77
33 42 11 00-0997 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	249.59 36.29	41.28
33 42 11 00-0998 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0995)</small>		
33 42 11 00-0999 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.14 18.50	20.64
33 42 11 00-1000 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	160.73 21.69	24.39
33 42 11 00-1001 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	181.44 24.49	28.14
33 42 11 00-1002 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	213.81 29.18	31.89
33 42 11 00-1003 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	234.06 32.01	33.77
33 42 11 00-1004 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	281.97 38.62	41.28
33 42 11 00-1005 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	335.05 41.40	60.04
33 42 11 00-1006 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0964)</small>		
33 42 11 00-1007 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small>		
33 42 11 00-1008 LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	107.15 22.18	20.64
33 42 11 00-1009 LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	122.19 26.05	24.39
33 42 11 00-1010 LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.34 29.21	28.14
33 42 11 00-1011 LF 54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	163.76 35.68	31.89
33 42 11 00-1012 LF 60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	178.42 38.87	33.77
33 42 11 00-1013 LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	223.49 49.93	41.28
33 42 11 00-1014 LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	271.46 53.22	60.04
33 42 11 00-1015 LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	292.82 56.52	65.67
33 42 11 00-1016 LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	311.66 59.83	70.36
33 42 11 00-1017 LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	330.50 63.14	75.04
33 42 11 00-1018 LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	349.99 66.44	79.74
33 42 11 00-1019 LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	372.15 69.77	84.43
33 42 11 00-1020 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small>		
33 42 11 00-1021 LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	179.83 30.92	31.89
33 42 11 00-1022 LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	196.18 33.75	33.77
33 42 11 00-1023 LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	243.03 42.50	41.28

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1024 LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	292.76 45.42	60.04
33 42 11 00-1025 LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	315.83 48.34	65.67
33 42 11 00-1026 LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	336.49 51.29	70.36
33 42 11 00-1027 LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	357.02 54.21	75.04
33 42 11 00-1028 LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	378.23 57.13	79.74
33 42 11 00-1029 LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	402.11 60.08	84.43
33 42 11 00-1030 LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	428.13 63.01	93.81
33 42 11 00-1031 LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	453.58 65.90	103.19
33 42 11 00-1032 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small>		
33 42 11 00-1033 LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	235.66 45.28	33.77
33 42 11 00-1034 LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	286.74 55.39	41.28
33 42 11 00-1035 LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	340.27 59.41	60.04
33 42 11 00-1036 LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	367.22 63.45	65.67
33 42 11 00-1037 LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	391.68 67.51	70.36
33 42 11 00-1038 LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	416.07 71.55	75.04
33 42 11 00-1039 LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	441.13 75.58	79.74
33 42 11 00-1040 LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	468.84 79.63	84.43
33 42 11 00-1041 LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	498.66 83.67	93.81
33 42 11 00-1042 LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	527.98 87.68	103.19
33 42 11 00-1043 LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	556.32 91.73	112.58
33 42 11 00-1044 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small>		
33 42 11 00-1045 LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	384.59 72.93	60.04
33 42 11 00-1046 LF 78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	415.09 78.03	65.67
33 42 11 00-1047 LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	443.21 83.18	70.36
33 42 11 00-1048 LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	471.20 88.30	75.04
33 42 11 00-1049 LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	499.94 93.44	79.74
33 42 11 00-1050 LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	531.31 98.59	84.43
33 42 11 00-1051 LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	564.72 103.70	93.81
33 42 11 00-1052 LF 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	597.67 108.80	103.19
33 42 11 00-1053 LF 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	629.66 113.95	112.58
33 42 11 00-1054 LF 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	663.34 119.06	121.95
33 42 11 00-1055 LF 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	699.43 124.20	131.33
33 42 11 00-1056 LF 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	738.39 129.35	140.72
33 42 11 00-1057 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0964)</small>		
33 42 11 00-1058 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1057)</small>		
33 42 11 00-1059 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.86 36.20	28.14
33 42 11 00-1060 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	164.69 44.34	31.89
33 42 11 00-1061 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	179.24 48.22	33.77
33 42 11 00-1062 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	221.68 60.71	41.28



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1063 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	269.44	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	64.67	
33 42 11 00-1064 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	290.55	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	68.62	
33 42 11 00-1065 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	309.06	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	72.55	
33 42 11 00-1066 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	327.51	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	76.46	
33 42 11 00-1067 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	346.82	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	80.45	
33 42 11 00-1068 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	368.91	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	84.52	
33 42 11 00-1069 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1067)</small>		
33 42 11 00-1070 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	184.78	31.89
For 1/2 Bituminous Coated And 25% Paved, Add	41.81	
33 42 11 00-1071 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	201.62	33.77
For 1/2 Bituminous Coated And 25% Paved, Add	45.65	
33 42 11 00-1072 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	246.05	41.28
For 1/2 Bituminous Coated And 25% Paved, Add	56.18	
33 42 11 00-1073 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	295.81	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	59.98	
33 42 11 00-1074 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	319.28	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	63.90	
33 42 11 00-1075 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	340.03	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	67.77	
33 42 11 00-1076 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	359.62	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	71.24	
33 42 11 00-1077 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	382.13	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	75.47	
33 42 11 00-1078 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	406.13	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	79.33	
33 42 11 00-1079 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	432.18	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	83.15	
33 42 11 00-1080 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	458.11	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	87.06	
33 42 11 00-1081 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1067)</small>		
33 42 11 00-1082 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	243.46	33.77
For 1/2 Bituminous Coated And 25% Paved, Add	50.37	
33 42 11 00-1083 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	292.18	41.28
For 1/2 Bituminous Coated And 25% Paved, Add	60.45	
33 42 11 00-1084 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	346.32	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	64.90	
33 42 11 00-1085 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	373.65	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	69.30	
33 42 11 00-1086 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	398.36	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	73.69	
33 42 11 00-1087 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	423.26	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	78.12	
33 42 11 00-1088 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	448.71	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	82.52	
33 42 11 00-1089 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	476.72	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	86.92	
33 42 11 00-1090 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	507.03	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	91.35	
33 42 11 00-1091 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	536.86	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	95.76	
33 42 11 00-1092 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	565.53	112.58
For 1/2 Bituminous Coated And 25% Paved, Add	100.16	
33 42 11 00-1093 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1067)</small>		
33 42 11 00-1094 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	394.68	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	78.73	
33 42 11 00-1095 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	426.51	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	84.42	
33 42 11 00-1096 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	455.42	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	90.00	
33 42 11 00-1097 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	484.13	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	95.53	
33 42 11 00-1098 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	513.68	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	101.10	
33 42 11 00-1099 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	545.72	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	106.65	
33 42 11 00-1100 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	580.01	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	112.22	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1101 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	613.89 117.79	103.19
33 42 11 00-1102 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	646.51 123.32	112.58
33 42 11 00-1103 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	687.20 130.64	121.95
33 42 11 00-1104 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	725.65 136.66	131.33
33 42 11 00-1105 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	767.75 142.92	140.72
33 42 11 00-1106 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0964)		
33 42 11 00-1107 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1106)		
33 42 11 00-1108 LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	48.43	10.57
33 42 11 00-1109 LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	55.29	11.45
33 42 11 00-1110 LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	61.73	12.33
33 42 11 00-1111 LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	80.68	15.84
33 42 11 00-1112 LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	103.77	20.64
33 42 11 00-1113 LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	118.41	24.39
33 42 11 00-1114 LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	133.57	28.14
33 42 11 00-1115 LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	158.29	31.89
33 42 11 00-1116 LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	172.92	33.77
33 42 11 00-1117 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1106)		
33 42 11 00-1118 LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	53.08	10.57
33 42 11 00-1119 LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	60.72	11.45
33 42 11 00-1120 LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	67.89	12.33
33 42 11 00-1121 LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	88.38	15.84
33 42 11 00-1122 LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	113.04	20.64
33 42 11 00-1123 LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	129.26	24.39
33 42 11 00-1124 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	145.95	28.14
33 42 11 00-1125 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	172.22	31.89
33 42 11 00-1126 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	188.45	33.77
33 42 11 00-1127 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	229.05	41.28
33 42 11 00-1128 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	278.17	60.04
33 42 11 00-1129 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	300.79	65.67
33 42 11 00-1130 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1106)		
33 42 11 00-1131 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	104.00	15.84
33 42 11 00-1132 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	131.74	20.64
33 42 11 00-1133 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	151.16	24.39
33 42 11 00-1134 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	170.93	28.14
33 42 11 00-1135 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	200.31	31.89
33 42 11 00-1136 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	219.71	33.77
33 42 11 00-1137 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	263.36	41.28
33 42 11 00-1138 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	315.56	60.04
33 42 11 00-1139 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	341.30	65.67
33 42 11 00-1140 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	364.40	70.36
33 42 11 00-1141 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	387.53	75.04
33 42 11 00-1142 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	411.25	79.74
33 42 11 00-1143 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	436.09	84.43
33 42 11 00-1144 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0455)		
33 42 11 00-1145 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1144)		
33 42 11 00-1146 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)		
33 42 11 00-1147 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	39.45 9.65	9.68
33 42 11 00-1148 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	43.99 11.53	10.57
33 42 11 00-1149 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	50.36 13.86	11.45
33 42 11 00-1150 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	56.56 15.98	12.33
33 42 11 00-1151 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	73.67 20.30	15.84
33 42 11 00-1152 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	96.88 26.18	20.64
33 42 11 00-1153 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)		



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1154 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	43.41	9.68
For 1/2 Bituminous Coated And 40% Paved, Add	10.00	
33 42 11 00-1155 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	48.79	10.57
For 1/2 Bituminous Coated And 40% Paved, Add	11.98	
33 42 11 00-1156 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	55.77	11.45
For 1/2 Bituminous Coated And 40% Paved, Add	14.25	
33 42 11 00-1157 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	62.81	12.33
For 1/2 Bituminous Coated And 40% Paved, Add	16.43	
33 42 11 00-1158 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	81.47	15.84
For 1/2 Bituminous Coated And 40% Paved, Add	20.81	
33 42 11 00-1159 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	106.16	20.64
For 1/2 Bituminous Coated And 40% Paved, Add	26.51	
33 42 11 00-1160 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	122.07	24.39
For 1/2 Bituminous Coated And 40% Paved, Add	31.58	
33 42 11 00-1161 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1145)</small>		
33 42 11 00-1162 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	58.58	10.57
For 1/2 Bituminous Coated And 40% Paved, Add	10.97	
33 42 11 00-1163 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	67.37	11.45
For 1/2 Bituminous Coated And 40% Paved, Add	13.04	
33 42 11 00-1164 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	75.95	12.33
For 1/2 Bituminous Coated And 40% Paved, Add	14.97	
33 42 11 00-1165 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	97.87	15.84
For 1/2 Bituminous Coated And 40% Paved, Add	18.89	
33 42 11 00-1166 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	125.97	20.64
For 1/2 Bituminous Coated And 40% Paved, Add	23.75	
33 42 11 00-1167 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	145.18	24.39
For 1/2 Bituminous Coated And 40% Paved, Add	28.15	
33 42 11 00-1168 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	169.87	28.14
For 1/2 Bituminous Coated And 40% Paved, Add	33.52	
33 42 11 00-1169 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	189.68	31.89
For 1/2 Bituminous Coated And 40% Paved, Add	36.95	
33 42 11 00-1170 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1145)</small>		
33 42 11 00-1171 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	143.77	20.64
For 1/2 Bituminous Coated And 40% Paved, Add	25.00	
33 42 11 00-1172 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	165.93	24.39
For 1/2 Bituminous Coated And 40% Paved, Add	29.54	
33 42 11 00-1173 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	193.41	28.14
For 1/2 Bituminous Coated And 40% Paved, Add	34.88	
33 42 11 00-1174 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	216.29	31.89
For 1/2 Bituminous Coated And 40% Paved, Add	38.62	
33 42 11 00-1175 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	236.75	33.77
For 1/2 Bituminous Coated And 40% Paved, Add	42.35	
33 42 11 00-1176 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1144)</small>		
33 42 11 00-1177 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1176)</small>		
33 42 11 00-1178 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	183.00	31.89
For 1/2 Bituminous Coated And 40% Paved, Add	55.51	
33 42 11 00-1179 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	199.96	33.77
For 1/2 Bituminous Coated And 40% Paved, Add	60.74	
33 42 11 00-1180 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	247.38	41.28
For 1/2 Bituminous Coated And 40% Paved, Add	76.28	
33 42 11 00-1181 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	297.95	60.04
For 1/2 Bituminous Coated And 40% Paved, Add	81.78	
33 42 11 00-1182 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	322.51	65.67
For 1/2 Bituminous Coated And 40% Paved, Add	87.56	
33 42 11 00-1183 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	344.56	70.36
For 1/2 Bituminous Coated And 40% Paved, Add	93.36	
33 42 11 00-1184 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	366.53	75.04
For 1/2 Bituminous Coated And 40% Paved, Add	99.12	
33 42 11 00-1185 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	389.23	79.74
For 1/2 Bituminous Coated And 40% Paved, Add	104.91	
33 42 11 00-1186 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1176)</small>		
33 42 11 00-1187 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	239.47	33.77
For 1/2 Bituminous Coated And 40% Paved, Add	69.02	
33 42 11 00-1188 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	291.18	41.28
For 1/2 Bituminous Coated And 40% Paved, Add	84.35	
33 42 11 00-1189 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	345.65	60.04
For 1/2 Bituminous Coated And 40% Paved, Add	90.73	
33 42 11 00-1190 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	374.01	65.67
For 1/2 Bituminous Coated And 40% Paved, Add	97.31	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1191	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	399.96 103.96	70.36
33 42 11 00-1192	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	425.83 110.57	75.04
33 42 11 00-1193	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	452.33 117.16	79.74
33 42 11 00-1194	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	481.56 123.81	84.43
33 42 11 00-1195	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	512.86 130.42	93.81
33 42 11 00-1196	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	545.44 137.70	103.19
33 42 11 00-1197			10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1176)</small>		
33 42 11 00-1198	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	389.93 98.20	60.04
33 42 11 00-1199	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	421.98 105.51	65.67
33 42 11 00-1200	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	451.55 112.83	70.36
33 42 11 00-1201	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	480.99 120.11	75.04
33 42 11 00-1202	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	513.59 128.29	79.74
33 42 11 00-1203	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	543.99 134.74	84.43
33 42 11 00-1204	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	578.95 142.05	93.81
33 42 11 00-1205	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	614.83 149.84	103.19
33 42 11 00-1206	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	653.89 159.20	112.58
33 42 11 00-1207			125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1144)</small>		
33 42 11 00-1208			12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1207)</small>		
33 42 11 00-1209	LF		81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	350.12 89.29	60.04
33 42 11 00-1210	LF		87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	378.09 95.50	65.67
33 42 11 00-1211	LF		95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	403.37 101.65	70.36
33 42 11 00-1212	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	428.61 107.78	75.04
33 42 11 00-1213	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	454.63 113.96	79.74
33 42 11 00-1214	LF		117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	483.52 120.24	84.43
33 42 11 00-1215	LF		128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	514.49 126.50	93.81
33 42 11 00-1216	LF		137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	549.16 134.33	103.19
33 42 11 00-1217			10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1207)</small>		
33 42 11 00-1218	LF		81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	399.18 99.04	60.04
33 42 11 00-1219	LF		87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	431.07 106.11	65.67
33 42 11 00-1220	LF		95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	460.31 113.13	70.36
33 42 11 00-1221	LF		103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	489.66 120.20	75.04
33 42 11 00-1222	LF		112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	519.03 127.04	79.74
33 42 11 00-1223	LF		117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	552.42 134.38	84.43
33 42 11 00-1224	LF		128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	587.47 141.55	93.81
33 42 11 00-1225	LF		137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	626.16 150.13	103.19
33 42 11 00-1226	LF		142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	662.34 158.25	112.58
33 42 11 00-1227			Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0455)</small>		



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1228 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1227)		
33 42 11 00-1229 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1228)		
33 42 11 00-1230 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	20.13 1.84	5.28
33 42 11 00-1231 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	25.79 2.49	6.60
33 42 11 00-1232 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	33.35 3.28	7.92
33 42 11 00-1233 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1228)		
33 42 11 00-1234 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	22.23 1.82	5.28
33 42 11 00-1235 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	28.77 2.49	6.60
33 42 11 00-1236 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	37.32 3.29	7.92
33 42 11 00-1237 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1227)		
33 42 11 00-1238 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1237)		
33 42 11 00-1239 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	38.73 3.61	9.24
33 42 11 00-1240 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	44.37 4.53	9.68
33 42 11 00-1241 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	50.38 5.51	10.57
33 42 11 00-1242 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	57.77 6.57	11.45
33 42 11 00-1243 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	64.44 7.45	12.33
33 42 11 00-1244 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1237)		
33 42 11 00-1245 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	43.24 3.53	9.24
33 42 11 00-1246 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	50.12 4.45	9.68
33 42 11 00-1247 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	57.27 5.39	10.57
33 42 11 00-1248 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	65.77 6.40	11.45
33 42 11 00-1249 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	73.62 7.27	12.33
33 42 11 00-1250 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	95.90 9.32	15.84
33 42 11 00-1251 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	122.61 11.59	20.64
33 42 11 00-1252 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1237)		
33 42 11 00-1253 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	91.15 6.90	12.33
33 42 11 00-1254 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	117.73 8.78	15.84
33 42 11 00-1255 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	148.83 10.82	20.64
33 42 11 00-1256 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	171.31 12.73	24.39
33 42 11 00-1257 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	193.73 14.40	28.14
33 42 11 00-1258 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	227.71 17.09	31.89
33 42 11 00-1259 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1237)		
33 42 11 00-1260 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	176.78 10.64	20.64
33 42 11 00-1261 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	203.86 12.49	24.39
33 42 11 00-1262 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	231.04 14.17	28.14

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1263 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	269.69	31.89
<i>For Bituminous Coated Pipe, Add</i>	16.63	
33 42 11 00-1264 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	296.42	33.77
<i>For Bituminous Coated Pipe, Add</i>	18.33	
33 42 11 00-1265 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1227)</small>		
33 42 11 00-1266 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1267 LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	94.47	15.84
33 42 11 00-1268 LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	120.83	20.64
33 42 11 00-1269 LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	138.06	24.39
33 42 11 00-1270 LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	156.32	28.14
33 42 11 00-1271 LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	184.38	31.89
33 42 11 00-1272 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1273 LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	105.97	15.84
33 42 11 00-1274 LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	137.23	20.64
33 42 11 00-1275 LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	157.10	24.39
33 42 11 00-1276 LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	177.10	28.14
33 42 11 00-1277 LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	208.72	31.89
33 42 11 00-1278 LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	228.18	33.77
33 42 11 00-1279 LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	277.43	41.28
33 42 11 00-1280 LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	330.08	60.04
33 42 11 00-1281 LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	356.12	65.67
33 42 11 00-1282 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1283 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	132.82	15.84
33 42 11 00-1284 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	167.42	20.64
33 42 11 00-1285 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	193.18	24.39
33 42 11 00-1286 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	218.48	28.14
33 42 11 00-1287 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	255.17	31.89
33 42 11 00-1288 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	279.62	33.77
33 42 11 00-1289 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	333.84	41.28
33 42 11 00-1290 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	391.60	60.04
33 42 11 00-1291 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	422.67	65.67
33 42 11 00-1292 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	451.28	70.36
33 42 11 00-1293 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	479.80	75.04
33 42 11 00-1294 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	509.01	79.74
33 42 11 00-1295 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1296 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	333.72	33.77
33 42 11 00-1297 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	391.07	41.28
33 42 11 00-1298 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	453.97	60.04
33 42 11 00-1299 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	490.18	65.67
33 42 11 00-1300 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	523.84	70.36
33 42 11 00-1301 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	557.49	75.04
33 42 11 00-1302 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	591.79	79.74
33 42 11 00-1303 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	628.79	84.43
33 42 11 00-1304 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	667.88	93.81
33 42 11 00-1305 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1227)</small>		
Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1306 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1307 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	65.86	10.57
33 42 11 00-1308 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	70.84	11.45
33 42 11 00-1309 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	85.02	12.33
33 42 11 00-1310 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.16	14.09
33 42 11 00-1311 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	110.22	15.84
33 42 11 00-1312 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	122.65	17.61
33 42 11 00-1313 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1314 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	75.59	10.57
33 42 11 00-1315 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	87.15	11.45
33 42 11 00-1316 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.10	12.33
33 42 11 00-1317 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	112.84	14.09
33 42 11 00-1318 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	126.50	15.84



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1319 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	140.59	17.61
33 42 11 00-1320 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	159.56	20.64
33 42 11 00-1321 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	183.81	24.39
33 42 11 00-1322 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	207.97	28.14
33 42 11 00-1323 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1324 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	158.34	15.84
33 42 11 00-1325 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	175.54	17.61
33 42 11 00-1326 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	197.75	20.64
33 42 11 00-1327 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	228.40	24.39
33 42 11 00-1328 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	258.93	28.14
33 42 11 00-1329 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	356.39	31.89
33 42 11 00-1330 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	392.14	33.77
33 42 11 00-1331 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1332 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	362.75	28.14
33 42 11 00-1333 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	420.40	31.89
33 42 11 00-1334 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	463.33	33.77
33 42 11 00-1335 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	538.67	41.28
33 42 11 00-1336 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	613.83	60.04
33 42 11 00-1337 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	662.88	65.67
33 42 11 00-1338 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	709.00	70.36
33 42 11 00-1339 Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-0455)</small>		
33 42 11 00-1340 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1339)</small>		
33 42 11 00-1341 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1342 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	46.43	9.68
<i>For Bituminous Coated Pipe, Add</i>	4.54	
33 42 11 00-1343 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	52.32	10.57
<i>For Bituminous Coated Pipe, Add</i>	5.42	
33 42 11 00-1344 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	59.99	11.45
<i>For Bituminous Coated Pipe, Add</i>	6.46	
33 42 11 00-1345 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1346 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	52.19	9.68
<i>For Bituminous Coated Pipe, Add</i>	4.52	
33 42 11 00-1347 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	57.86	10.57
<i>For Bituminous Coated Pipe, Add</i>	5.22	
33 42 11 00-1348 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	67.98	11.45
<i>For Bituminous Coated Pipe, Add</i>	6.40	
33 42 11 00-1349 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	76.62	12.33
<i>For Bituminous Coated Pipe, Add</i>	7.35	
33 42 11 00-1350 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	98.89	15.84
<i>For Bituminous Coated Pipe, Add</i>	9.29	
33 42 11 00-1351 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1352 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	94.17	12.33
<i>For Bituminous Coated Pipe, Add</i>	7.00	
33 42 11 00-1353 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	120.77	15.84
<i>For Bituminous Coated Pipe, Add</i>	8.83	
33 42 11 00-1354 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	153.98	20.64
<i>For Bituminous Coated Pipe, Add</i>	11.02	
33 42 11 00-1355 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	178.09	24.39
<i>For Bituminous Coated Pipe, Add</i>	13.03	
33 42 11 00-1356 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1357 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	181.89	20.64
<i>For Bituminous Coated Pipe, Add</i>	10.63	
33 42 11 00-1358 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	210.70	24.39
<i>For Bituminous Coated Pipe, Add</i>	12.55	
33 42 11 00-1359 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	244.77	28.14
<i>For Bituminous Coated Pipe, Add</i>	14.70	
33 42 11 00-1360 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	274.20	31.89
<i>For Bituminous Coated Pipe, Add</i>	16.35	
33 42 11 00-1361 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1339)</small>		
33 42 11 00-1362 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1361)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1363 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	213.24	31.89
33 42 11 00-1364 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	233.43	33.77
33 42 11 00-1365 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	283.92	41.28
33 42 11 00-1366 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1361)</small>		
33 42 11 00-1367 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	259.69	31.89
33 42 11 00-1368 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	284.87	33.77
33 42 11 00-1369 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	340.10	41.28
33 42 11 00-1370 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	398.33	60.04
33 42 11 00-1371 LF 95" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	429.88	65.67
33 42 11 00-1372 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	458.96	70.36
33 42 11 00-1373 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1361)</small>		
33 42 11 00-1374 LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	338.89	33.77
33 42 11 00-1375 LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	397.09	41.28
33 42 11 00-1376 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	460.45	60.04
33 42 11 00-1377 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	497.14	65.67
33 42 11 00-1378 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	531.28	70.36
33 42 11 00-1379 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	565.38	75.04
33 42 11 00-1380 Corrugated Steel Pipe Fittings <small>(33 42 11 00-0455)</small>		
Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1381 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings <small>(33 42 11 00-1380)</small>		
Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1382 EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	82.61	
33 42 11 00-1383 EA Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	103.61	
33 42 11 00-1384 EA Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	124.59	
33 42 11 00-1385 EA Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	146.90	
33 42 11 00-1386 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	178.36	
33 42 11 00-1387 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	209.82	
33 42 11 00-1388 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	241.31	
33 42 11 00-1389 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	272.76	
33 42 11 00-1390 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	355.40	
33 42 11 00-1391 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	423.59	
33 42 11 00-1392 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	491.78	
33 42 11 00-1393 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	636.05	
33 42 11 00-1394 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	717.36	
33 42 11 00-1395 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	801.30	
33 42 11 00-1396 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	887.84	
33 42 11 00-1397 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,081.93	
33 42 11 00-1398 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,180.28	
33 42 11 00-1399 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,281.26	
33 42 11 00-1400 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,572.40	
33 42 11 00-1401 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,687.82	
33 42 11 00-1402 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,804.53	
33 42 11 00-1403 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,921.24	
33 42 11 00-1404 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,036.65	
33 42 11 00-1405 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,153.37	
33 42 11 00-1406 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,276.42	
33 42 11 00-1407 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,406.52	
33 42 11 00-1408 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,544.02	
33 42 11 00-1409 Fabricate Corrugated Steel Pipe Tees Or Laterals <small>(33 42 11 00-1380)</small>		
Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1410 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	107.54	
33 42 11 00-1411 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	137.70	
33 42 11 00-1412 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	167.84	
33 42 11 00-1413 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	198.03	
33 42 11 00-1414 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	241.31	
33 42 11 00-1415 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	285.88	
33 42 11 00-1416 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	330.50	
33 42 11 00-1417 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	375.04	
33 42 11 00-1418 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	491.78	
33 42 11 00-1419 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	586.21	
33 42 11 00-1420 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	681.93	
33 42 11 00-1421 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	885.21	
33 42 11 00-1422 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	996.68	
33 42 11 00-1423 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,112.08	
33 42 11 00-1424 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,230.11	
33 42 11 00-1425 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,500.26	
33 42 11 00-1426 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,634.04	
33 42 11 00-1427 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,770.42	
33 42 11 00-1428 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,178.25	
33 42 11 00-1429 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,334.33	
33 42 11 00-1430 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,490.39	
33 42 11 00-1431 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,647.75	
33 42 11 00-1432 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,805.13	
33 42 11 00-1433 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,961.17	
33 42 11 00-1434 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,125.91	
33 42 11 00-1435 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,299.80	
33 42 11 00-1436 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,483.36	

33 42 11 00-1437 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1380)

Note: Applied to pipe tasks.

33 42 11 00-1438 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	41.37	
33 42 11 00-1439 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	52.04	
33 42 11 00-1440 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	65.46	
33 42 11 00-1441 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	80.16	
33 42 11 00-1442 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	101.43	
33 42 11 00-1443 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	124.20	
33 42 11 00-1444 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	145.49	
33 42 11 00-1445 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	169.03	
33 42 11 00-1446 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	207.61	
33 42 11 00-1447 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	247.53	
33 42 11 00-1448 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	295.35	
33 42 11 00-1449 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	363.31	
33 42 11 00-1450 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	411.23	
33 42 11 00-1451 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	463.11	
33 42 11 00-1452 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	561.61	
33 42 11 00-1453 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	622.80	
33 42 11 00-1454 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	759.89	
33 42 11 00-1455 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	827.78	
33 42 11 00-1456 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	899.67	
33 42 11 00-1457 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	970.15	
33 42 11 00-1458 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,042.02	
33 42 11 00-1459 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,115.20	
33 42 11 00-1460 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,187.09	
33 42 11 00-1461 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,258.94	
33 42 11 00-1462 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,335.14	
33 42 11 00-1463 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,415.93	
33 42 11 00-1464 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,501.63	

33 42 11 00-1465 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1380)

33 42 11 00-1466 EA 6" Coupling Band, Corrugated Metal Pipe Fitting.....	10.51	
<i>For Bituminous Coated, Add</i>		3.05

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1467 EA 8" Coupling Band, Corrugated Metal Pipe Fitting.....	13.96	
<i>For Bituminous Coated, Add</i>	4.05	
33 42 11 00-1468 EA 10" Coupling Band, Corrugated Metal Pipe Fitting.....	17.58	
<i>For Bituminous Coated, Add</i>	5.10	
33 42 11 00-1469 EA 12" Coupling Band, Corrugated Metal Pipe Fitting.....	29.18	
<i>For Bituminous Coated, Add</i>	8.46	
33 42 11 00-1470 EA 15" Coupling Band, Corrugated Metal Pipe Fitting.....	36.79	
<i>For Bituminous Coated, Add</i>	10.67	
33 42 11 00-1471 EA 18" Coupling Band, Corrugated Metal Pipe Fitting.....	53.98	
<i>For Bituminous Coated, Add</i>	15.65	
33 42 11 00-1472 EA 21" Coupling Band, Corrugated Metal Pipe Fitting.....	64.07	
<i>For Bituminous Coated, Add</i>	18.58	
33 42 11 00-1473 EA 24" Coupling Band, Corrugated Metal Pipe Fitting.....	72.65	
<i>For Bituminous Coated, Add</i>	21.07	
33 42 11 00-1474 EA 30" Coupling Band, Corrugated Metal Pipe Fitting.....	125.72	
<i>For Bituminous Coated, Add</i>	36.46	
33 42 11 00-1475 EA 36" Coupling Band, Corrugated Metal Pipe Fitting.....	201.15	
<i>For Bituminous Coated, Add</i>	48.28	
33 42 11 00-1476 EA 42" Coupling Band, Corrugated Metal Pipe Fitting.....	236.34	
<i>For Bituminous Coated, Add</i>	56.72	
33 42 11 00-1477 EA 48" Coupling Band, Corrugated Metal Pipe Fitting.....	264.82	
<i>For Bituminous Coated, Add</i>	63.56	
33 42 11 00-1478 EA 54" Coupling Band, Corrugated Metal Pipe Fitting.....	375.56	
<i>For Bituminous Coated, Add</i>	90.13	
33 42 11 00-1479 EA 60" Coupling Band, Corrugated Metal Pipe Fitting.....	537.17	
<i>For Bituminous Coated, Add</i>	96.69	
33 42 11 00-1480 EA 66" Coupling Band, Corrugated Metal Pipe Fitting.....	660.17	
<i>For Bituminous Coated, Add</i>	118.83	
33 42 11 00-1481 EA 72" Coupling Band, Corrugated Metal Pipe Fitting.....	848.03	
<i>For Bituminous Coated, Add</i>	118.72	
33 42 11 00-1482 EA 78" Coupling Band, Corrugated Metal Pipe Fitting.....	907.03	
<i>For Bituminous Coated, Add</i>	126.98	
33 42 11 00-1483 EA 84" Coupling Band, Corrugated Metal Pipe Fitting.....	966.35	
<i>For Bituminous Coated, Add</i>	135.29	
33 42 11 00-1484 EA 90" Coupling Band, Corrugated Metal Pipe Fitting.....	1,025.38	
<i>For Bituminous Coated, Add</i>	143.55	
33 42 11 00-1485 EA 96" Coupling Band, Corrugated Metal Pipe Fitting.....	1,084.55	
<i>For Bituminous Coated, Add</i>	151.84	
33 42 11 00-1486 EA 102" Coupling Band, Corrugated Metal Pipe Fitting.....	1,143.88	
<i>For Bituminous Coated, Add</i>	160.14	
33 42 11 00-1487 EA 108" Coupling Band, Corrugated Metal Pipe Fitting.....	1,202.93	
<i>For Bituminous Coated, Add</i>	168.41	
33 42 11 00-1488 EA 114" Coupling Band, Corrugated Metal Pipe Fitting.....	1,424.74	
<i>For Bituminous Coated, Add</i>	170.97	
33 42 11 00-1489 EA 120" Coupling Band, Corrugated Metal Pipe Fitting.....	1,320.95	
<i>For Bituminous Coated, Add</i>	158.51	
33 42 11 00-1490 EA 126" Coupling Band, Corrugated Metal Pipe Fitting.....	1,379.83	
<i>For Bituminous Coated, Add</i>	165.58	
33 42 11 00-1491 EA 132" Coupling Band, Corrugated Metal Pipe Fitting.....	1,439.12	
<i>For Bituminous Coated, Add</i>	172.69	
33 42 11 00-1492 EA 138" Coupling Band, Corrugated Metal Pipe Fitting.....	1,498.48	
<i>For Bituminous Coated, Add</i>	179.82	

33 42 13 Stormwater Culverts (33 42)**33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)****33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)**

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0792 for crane lifting equipment.

33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert	447.63	46.91
<i>For Each LF Of Cut-Off Section, Add</i>	17.91	
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert	507.19	46.91
<i>For Each LF Of Cut-Off Section, Add</i>	20.29	
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert	603.40	46.91
<i>For Each LF Of Cut-Off Section, Add</i>	24.14	
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert	723.32	58.64
<i>For Each LF Of Cut-Off Section, Add</i>	28.93	
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert	741.64	58.64
<i>For Each LF Of Cut-Off Section, Add</i>	29.67	
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert	750.81	58.64
<i>For Each LF Of Cut-Off Section, Add</i>	30.03	
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert	773.87	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	30.95	
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert	778.45	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	31.14	
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert	860.92	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	34.44	
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert	879.90	70.36
<i>For Each LF Of Cut-Off Section, Add</i>	35.20	
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert	931.11	95.69
<i>For Each LF Of Cut-Off Section, Add</i>	37.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert	865.50	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	34.62	
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert	884.48	70.36
<i>For Each LF Of Cut-Off Section, Add</i>	35.38	
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert	898.23	70.36
<i>For Each LF Of Cut-Off Section, Add</i>	35.93	
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,079.43	93.81
<i>For Each LF Of Cut-Off Section, Add</i>	43.18	
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,083.09	93.81
<i>For Each LF Of Cut-Off Section, Add</i>	43.32	
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,191.91	117.26
<i>For Each LF Of Cut-Off Section, Add</i>	47.68	
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,197.63	93.81
<i>For Each LF Of Cut-Off Section, Add</i>	47.91	
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,258.80	117.26
<i>For Each LF Of Cut-Off Section, Add</i>	50.35	
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,263.39	117.26
<i>For Each LF Of Cut-Off Section, Add</i>	50.54	
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,547.44	117.26
<i>For Each LF Of Cut-Off Section, Add</i>	61.90	
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,613.19	140.72
<i>For Each LF Of Cut-Off Section, Add</i>	64.53	
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,631.51	140.72
<i>For Each LF Of Cut-Off Section, Add</i>	65.26	
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,636.09	140.72
<i>For Each LF Of Cut-Off Section, Add</i>	65.44	
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,642.51	140.72
<i>For Each LF Of Cut-Off Section, Add</i>	65.70	
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,697.26	164.17
<i>For Each LF Of Cut-Off Section, Add</i>	67.89	
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,697.26	164.17
<i>For Each LF Of Cut-Off Section, Add</i>	67.89	
33 42 13 13-0029 LF 12' x 6' Precast Reinforced Concrete Box Culvert	1,697.26	164.17
<i>For Each LF Of Cut-Off Section, Add</i>	67.89	
33 42 13 13-0030 LF 12' x 8' Precast Reinforced Concrete Box Culvert	1,697.26	164.17
<i>For Each LF Of Cut-Off Section, Add</i>	67.89	
33 42 13 13-0031 LF 16' x 10' Precast Reinforced Concrete Box Culvert	2,496.04	187.62
<i>For Each LF Of Cut-Off Section, Add</i>	99.84	
33 42 13 13-0032 LF 24' x 10' Precast Reinforced Concrete Box Culvert	3,503.97	187.62
<i>For Each LF Of Cut-Off Section, Add</i>	140.16	
33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways <small>(33 42 13 13)</small>		
<small>Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0792 for crane lifting equipment.</small>		
33 42 13 13-0034 LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,149.05	46.91
<i>For Each LF Of Cut-Off Section, Add</i>	45.96	
33 42 13 13-0035 LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,237.06	46.91
<i>For Each LF Of Cut-Off Section, Add</i>	49.48	
33 42 13 13-0036 LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,392.83	46.91
<i>For Each LF Of Cut-Off Section, Add</i>	55.71	
33 42 13 13-0037 LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,572.26	58.64
<i>For Each LF Of Cut-Off Section, Add</i>	62.89	
33 42 13 13-0038 LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,728.02	58.64
<i>For Each LF Of Cut-Off Section, Add</i>	69.12	
33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,883.78	58.64
<i>For Each LF Of Cut-Off Section, Add</i>	75.35	
33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,732.76	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	69.31	
33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,888.52	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	75.54	
33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,200.05	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	88.00	
33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,063.27	70.36
<i>For Each LF Of Cut-Off Section, Add</i>	82.53	
33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,425.96	95.69
<i>For Each LF Of Cut-Off Section, Add</i>	97.04	
33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,888.52	60.98
<i>For Each LF Of Cut-Off Section, Add</i>	75.54	
33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,063.27	70.36
<i>For Each LF Of Cut-Off Section, Add</i>	82.53	
33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,219.03	70.36
<i>For Each LF Of Cut-Off Section, Add</i>	88.76	
33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,422.17	93.81
<i>For Each LF Of Cut-Off Section, Add</i>	96.89	
33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,577.94	93.81
<i>For Each LF Of Cut-Off Section, Add</i>	103.12	
33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,936.89	117.26
<i>For Each LF Of Cut-Off Section, Add</i>	117.48	
33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,603.43	93.81
<i>For Each LF Of Cut-Off Section, Add</i>	104.14	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,983.77	117.26
For Each LF Of Cut-Off Section, Add	119.35	
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,949.87	117.26
For Each LF Of Cut-Off Section, Add	117.99	
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,134.83	117.26
For Each LF Of Cut-Off Section, Add	125.39	
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	3,367.19	140.72
For Each LF Of Cut-Off Section, Add	134.69	
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,552.15	140.72
For Each LF Of Cut-Off Section, Add	142.09	
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways	3,737.13	140.72
For Each LF Of Cut-Off Section, Add	149.49	
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways	3,922.09	140.72
For Each LF Of Cut-Off Section, Add	156.88	
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways	3,906.57	164.17
For Each LF Of Cut-Off Section, Add	156.26	
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways	4,116.80	164.17
For Each LF Of Cut-Off Section, Add	164.67	
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways	4,537.35	164.17
For Each LF Of Cut-Off Section, Add	181.49	
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways	4,957.89	164.17
For Each LF Of Cut-Off Section, Add	198.32	
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways	5,939.85	187.62
For Each LF Of Cut-Off Section, Add	237.59	
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways	7,528.55	187.62
For Each LF Of Cut-Off Section, Add	301.14	

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)**33 42 23 00-0001****Headwalls (33 42 23)**

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002**Cast In Place Concrete Headwalls (33 42 23 00-0001)**

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003**Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)**

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,410.84	638.56
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,777.68	681.13
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,321.61	892.18
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,626.11	1,277.11
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,038.15	1,702.81
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,133.21	2,244.50
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	8,452.25	3,096.00
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,048.62	3,648.85
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	12,088.90	4,442.18
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,508.45	5,377.31

33 42 23 00-0014**Precast Concrete Headwalls (33 42 23 00-0001)**

33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	756.48	158.46
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	782.89	167.26
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	861.83	190.16
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	951.97	202.48
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	1,276.98	237.69
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,434.88	246.50
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	1,883.70	289.50
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall	2,079.71	318.96
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall	2,295.13	337.72
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall	2,604.20	337.72
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall	3,147.27	422.15
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall	4,458.25	506.59

33 42 23 00-0027**Precast Concrete Wingwalls (33 42 23 00-0001)**

33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall	4,716.17	1,671.73
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall	4,997.60	1,857.48
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall	5,466.67	2,167.06
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall	5,935.72	2,476.63
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall	5,935.72	2,476.63
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall	6,123.35	2,600.47
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall	10,538.25	2,662.38
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall	10,819.69	2,848.13
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 42 23 00-0036		Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate.....	3,941.10	656.69
33 42 26		End Sections for Stormwater Piping (33 42)		
33 42 26 16		Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001		Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002		Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003		Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	229.76	61.62
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	265.26	66.03
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	308.02	70.43
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	370.95	77.03
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	410.49	83.63
33 42 26 16-0009		Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	651.74	94.64
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	844.48	112.58
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,284.13	131.33
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,566.08	150.10
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,867.83	187.62
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,182.86	225.14
33 42 26 16-0016		Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	239.28	61.62
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	275.05	66.03
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	323.06	70.43
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	389.01	77.03
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	430.97	83.63
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	714.63	94.64
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	921.20	112.58
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,454.65	131.33
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,786.14	150.10
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,090.36	187.62
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,887.68	225.14
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,298.59	337.72
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,874.28	450.30
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,218.24	483.14
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,570.33	515.96
33 42 26 16-0032		Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)		
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	29.24	
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	32.49	
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	36.48	
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	39.65	
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	44.33	
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	76.79	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	82.65	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	112.56	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	120.64	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	147.10	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	150.91	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	161.58	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	185.32	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	207.16	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	212.58	
33 42 26 16-0048		Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0049		Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
		Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	265.26	66.03
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	308.02	70.43
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	370.95	77.03
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	410.49	83.63
33 42 26 16-0054		Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
		Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	257.05	66.03

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	292.82	70.43
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	327.45	77.03
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	368.95	83.63
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	533.33	94.64
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	771.95	112.58
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,190.52	131.33
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,503.71	150.10

33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)

Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.

33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	261.22	66.03
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	301.88	70.43
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	341.62	77.03
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	385.75	83.63
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	561.87	94.64
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	810.88	112.58
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,252.80	131.33
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,575.39	150.10
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,897.28	187.62
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,488.67	225.14
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,479.44	337.72
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,871.88	450.30

33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)

33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	32.49	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	36.48	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	39.65	
33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	44.33	
33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	76.79	
33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	82.65	
33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	112.56	
33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	125.35	
33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	147.10	
33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	152.78	
33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	176.87	
33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	202.14	

33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)**33 42 26 16-0090 Corrugated Aluminum Pipe End Sections** (33 42 26 16-0089)

33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	340.36	61.62
33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	391.19	66.03
33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	462.13	70.43
33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	570.74	77.03
33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	741.83	83.63
33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,105.96	94.64
33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,500.39	112.58
33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,862.24	112.58
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,372.77	131.33
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,379.21	150.10
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,747.32	187.62
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,045.29	225.14
33 42 26 16-0103	EA	66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,731.00	337.72
33 42 26 16-0104	EA	72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,714.12	450.30
33 42 26 16-0105	EA	78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,331.23	483.14
33 42 26 16-0106	EA	84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,737.01	515.96
33 42 26 16-0107	EA	90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,556.56	562.87
33 42 26 16-0108	EA	96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,683.88	609.78

33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)

33 42 26 16-0110	EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	53.27	
33 42 26 16-0111	EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	56.43	
33 42 26 16-0112	EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	61.15	
33 42 26 16-0113	EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	68.76	
33 42 26 16-0114	EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	72.99	
33 42 26 16-0115	EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	94.64	
33 42 26 16-0116	EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	113.56	
33 42 26 16-0117	EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	119.60	
33 42 26 16-0118	EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	131.16	
33 42 26 16-0119	EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	148.25	
33 42 26 16-0120	EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	175.12	
33 42 26 16-0121	EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	243.12	
33 42 26 16-0122	EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	262.74	
33 42 26 16-0123	EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	334.72	
33 42 26 16-0124	EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	362.43	
33 42 26 16-0125	EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	386.27	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	411.27	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	436.62	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	402.89	66.03
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	490.64	70.43
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	532.92	77.03
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	575.16	83.63
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	855.95	94.64
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,517.02	112.58
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,608.76	112.58
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,146.49	131.33
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,291.09	150.10
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,771.24	187.62
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,559.44	225.14
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,630.13	337.72
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,027.54	450.30
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,739.15	483.14
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,123.81	515.96
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,945.10	562.87
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,538.32	609.78
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	56.43	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	61.15	
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	64.53	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	70.67	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	81.34	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	105.92	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	115.55	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	131.16	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	148.25	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	175.12	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	221.69	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	280.68	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	379.57	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	430.71	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	451.40	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	468.42	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	489.12	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	515.21	66.03
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	660.92	70.43
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	807.65	77.03
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	964.69	83.63
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,021.71	94.64
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,334.31	112.58
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,101.29	131.33
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	364.75	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	726.03	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	796.71	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	828.59	
33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	538.97	66.03
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	703.66	70.43
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	933.41	77.03
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,095.40	83.63
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,299.20	94.64
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,579.23	112.58
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,407.72	131.33
33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section.....	706.36	
	33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section.....	750.24	
	33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section.....	825.32	
	33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section.....	868.21	
33 42 26 16-0192	Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section <small>(33 42 26 16-0192)</small>				
	33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	62.73	
	33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	70.28	
	33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	76.48	
	33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	85.35	
	33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	127.54	
	33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	136.88	
	33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	183.26	
33 42 26 16-0200	Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories <small>(33 42 26 16-0200)</small>				
33 42 26 16-0201	4:1 Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0201)</small>				
	33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	610.87	70.43
	33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	764.53	77.03
	33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	903.63	83.63
	33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,692.10	94.64
33 42 26 16-0206	3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections <small>(33 42 26 16-0206)</small>				
	Note: Includes nut and bolt set.				
	33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	433.88	
	33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	786.24	
	33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	828.59	
	33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,217.22	
33 42 26 16-0211	Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0211)</small>				
	33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	63.46	
	33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	71.91	
	33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	78.39	
	33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	93.70	
33 42 26 19	Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping <small>(33 42 26 19)</small>				
33 42 26 19-0001	Corrugated High Density Polyethylene (HDPE) Pipe End Sections <small>(33 42 26 19)</small>				
	33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	58.06	20.39
	33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	106.10	30.59
	33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	143.14	38.23
	33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	225.72	61.17
	33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	266.98	68.82
	33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	283.64	73.92
	33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	336.12	81.56
	33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	431.92	96.85
	33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	865.69	109.60
	33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	1,052.81	122.34
33 42 26 23	Concrete End Sections for Stormwater Piping <small>(33 42 26 23)</small>				
33 42 26 23-0001	Precast Concrete End Sections <small>(33 42 26 23)</small>				
33 42 26 23-0002	Precast Concrete End Sections <small>(33 42 26 23-0002)</small>				
	33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section.....	552.07	103.27
	33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section.....	738.88	127.83
	33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section.....	915.59	161.81
	33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section.....	1,052.33	193.50
	33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section.....	1,122.23	223.96
	33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section.....	1,415.75	279.56
	33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section.....	1,763.78	419.90
	33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section.....	2,180.10	529.85
	33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section.....	2,642.51	664.66
	33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section.....	2,900.56	749.56
	33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section.....	3,168.31	839.61
	33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section.....	3,443.01	933.42
	33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section.....	3,395.02	750.50
	33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section.....	3,904.81	938.10
	33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section.....	4,654.57	1,172.62
	33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section.....	5,511.68	1,407.15



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 23-0019 Flared Precast Concrete End Sections <small>(33 42 26 23-0001)</small>		
33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section.....	689.94	109.30
33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section.....	831.64	136.21
33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section.....	1,011.12	172.43
33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section.....	1,157.29	206.20
33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section.....	1,409.45	238.66
33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section.....	1,719.25	381.16
33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section.....	1,815.54	524.78
33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section.....	2,443.21	662.31
33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section.....	2,939.37	830.98
33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section.....	3,188.50	937.18
33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section.....	3,566.67	1,049.66
33 42 26 23-0031 EA 60" Diameter Pipe, Flared Precast Concrete End Section.....	3,952.41	1,165.90
33 42 26 23-0032 EA 66" Diameter Pipe, Flared Precast Concrete End Section.....	4,606.44	1,343.29
33 42 26 23-0033 EA 72" Diameter Pipe, Flared Precast Concrete End Section.....	5,358.75	1,499.30
33 42 26 23-0034 EA 78" Diameter Pipe, Flared Precast Concrete End Section.....	6,073.81	1,686.64
33 42 26 23-0035 EA 84" Diameter Pipe, Flared Precast Concrete End Section.....	6,991.44	1,873.80
33 42 26 23-0036 Elliptical Precast Concrete End Sections <small>(33 42 26 23-0001)</small>		
33 42 26 23-0037 EA 14" x 23" Elliptical Precast Concrete End Section	1,199.17	172.43
33 42 26 23-0038 EA 19" x 30" Elliptical Precast Concrete End Section	1,672.22	238.66
33 42 26 23-0039 EA 22" x 34" Elliptical Precast Concrete End Section	2,005.99	381.16
33 42 26 23-0040 EA 24" x 38" Elliptical Precast Concrete End Section	2,072.41	524.78
33 42 26 23-0041 EA 27" x 42" Elliptical Precast Concrete End Section	2,438.92	593.83
33 42 26 23-0042 EA 29" x 45" Elliptical Precast Concrete End Section	2,805.42	662.31
33 42 26 23-0043 EA 34" x 53" Elliptical Precast Concrete End Section	3,362.34	830.98
33 42 26 23-0044 EA 38" x 60" Elliptical Precast Concrete End Section	3,633.86	937.18
33 42 26 23-0045 EA 43" x 68" Elliptical Precast Concrete End Section	4,064.35	1,049.66
33 42 26 23-0046 EA 48" x 76" Elliptical Precast Concrete End Section	4,502.72	1,165.90
33 42 26 23-0047 Mitered Precast Concrete End Sections <small>(33 42 26 23-0001)</small>		
33 42 26 23-0048 EA 12" Round Mitered Precast Concrete End Sections	426.44	109.30
33 42 26 23-0049 EA 15" Round Mitered Precast Concrete End Sections	465.84	136.21
33 42 26 23-0050 EA 18" Round Mitered Precast Concrete End Sections	562.28	172.43
33 42 26 23-0051 EA 24" Round Mitered Precast Concrete End Sections.....	813.41	238.66
33 42 26 23-0052 EA 12" x 18" Elliptical Mitered Precast Concrete End Sections.....	498.74	136.21
33 42 26 23-0053 EA 14" x 23" Elliptical Mitered Precast Concrete End Sections.....	620.76	172.43
33 42 26 23-0054 EA 19" x 30" Elliptical Mitered Precast Concrete End Sections.....	884.67	238.66
33 42 31 Stormwater Area Drains and Inlets <small>(33 42)</small>		
33 42 31 00-0001 Storm Drains <small>(33 42 31)</small>		
See CSI section 33 05 61 00-0001 for manhole structures.		
33 42 31 00-0002 Catch Basins And Inlet Basins <small>(33 42 31 00-0001)</small>		
Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0002)</small>		
Note: Inside dimensions.		
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>		
33 42 31 00-0005 EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,831.47	314.08
33 42 31 00-0006 EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,196.45	368.00
33 42 31 00-0007 EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,561.43	421.82
33 42 31 00-0008 EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,926.39	475.75
33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,291.38	529.58
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>		
33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,455.08	312.19
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,013.95	416.25
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,808.73	567.60
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,669.30	662.20
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,303.42	756.81
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,644.72	340.56
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,668.22	473.01
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,436.34	614.91
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,121.71	709.51
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,486.11	908.16
33 42 31 00-0022 Cast In Place, Catch Basin <small>(33 42 31 00-0002)</small>		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		

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33 42	Stormwater Conveyance



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0023			3' x 3', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
		EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,219.85	379.73
		EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,353.16	403.75
		EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,572.19	433.65
		EA	4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,909.60	480.00
		EA	5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,140.00	510.94
		EA	5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,287.31	535.82
		EA	6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,517.88	566.75
		EA	6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,661.68	591.73
		EA	7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,893.49	622.57
		EA	7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,039.57	647.55
		EA	8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,270.06	678.47
		VLF	>8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	533.78	84.76
33 42 31 00-0036			3'-6" x 3'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
		EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,553.42	438.95
		EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,721.58	469.79
		EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,950.56	500.73
		EA	4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,345.03	554.55
		EA	5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,598.05	589.55
		EA	5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,767.81	618.59
		EA	6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,024.17	653.60
		EA	6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,193.93	682.64
		EA	7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,448.08	717.64
		EA	7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,618.82	746.68
		EA	8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,873.07	781.69
		VLF	>8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	609.16	97.72
33 42 31 00-0049			4' x 4', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
		EA	3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,910.28	502.14
		EA	3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,088.39	534.02
		EA	4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,350.99	571.77
		EA	4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,803.09	633.16
		EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,081.99	672.24
		EA	5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,276.30	705.44
		EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,555.20	744.51
		EA	6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,748.52	777.71
		EA	7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,027.43	816.78
		EA	7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,221.74	849.98
		EA	8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,500.64	889.15
		VLF	>8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	687.54	111.16
33 42 31 00-0062			4'-6" x 4'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
		EA	3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,353.47	582.27
		EA	3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,560.44	615.19
		EA	4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,849.78	657.76
		EA	4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,365.48	727.57
		EA	5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,673.88	771.66
		EA	5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,897.82	809.78
		EA	6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,207.21	853.87
		EA	6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,431.13	892.09
		EA	7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,739.54	936.18
		EA	7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,962.25	974.29
		EA	8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,272.86	1,018.38
		VLF	>8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	784.16	127.33
33 42 31 00-0075			5' x 5', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
		EA	4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,309.47	738.55
		EA	4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,883.83	816.12
		EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,218.48	864.46
		EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,467.43	906.85
		EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,798.67	955.09
		EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,048.84	997.47
		EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,382.29	1,045.81
		EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,629.03	1,088.20
		EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,963.70	1,136.44
		VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,243.14	142.09
33 42 31 00-0086			5'-6" x 5'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
		EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,790.73	823.59
		EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,584.94	932.30
		EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,953.66	986.02
		EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,236.65	1,034.18
		EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,607.56	1,088.29



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,891.78	1,136.44
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,260.49	1,190.56
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,543.48	1,238.70
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,912.20	1,292.81
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	989.03	161.58
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,297.85	912.62
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,172.75	1,031.90
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,568.28	1,090.37
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,877.10	1,142.88
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,271.40	1,201.34
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,582.45	1,253.84
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,975.77	1,312.30
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,285.57	1,364.81
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,681.10	1,423.27
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,085.18	177.94
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,827.43	1,005.90
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,986.77	1,165.39
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,419.37	1,230.10
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,767.36	1,288.85
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,199.95	1,353.45
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,547.95	1,412.30
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,980.54	1,476.91
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,328.54	1,535.65
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,763.33	1,600.36
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,220.37	200.08
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,380.86	1,103.23
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,648.73	1,277.30
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,108.69	1,346.55
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,481.97	1,409.74
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,943.06	1,478.89
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,316.35	1,542.18
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,776.32	1,611.34
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,150.82	1,674.63
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,610.69	1,743.78
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,326.38	217.96
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	7,188.08	1,238.23
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,338.15	1,393.75
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,823.30	1,467.45
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,225.19	1,535.18
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,711.46	1,608.88
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,113.35	1,676.61
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,598.50	1,750.30
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,000.38	1,818.04
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,486.75	1,891.74
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,435.81	236.50
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	7,810.91	1,347.21
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,052.66	1,514.75
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,564.31	1,592.89
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,993.58	1,665.16
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,505.13	1,743.31
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,931.95	1,815.58
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,445.94	1,893.72
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,875.21	1,965.99
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,378.36	2,044.14
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,548.35	255.52
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins	718.32	191.22
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins	983.63	286.83
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins	1,233.36	372.89
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins	1,484.23	440.78

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,814.42	559.33
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins.....	2,071.13	645.38
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins.....	142.99	43.03
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin.....	822.48	212.74
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin.....	1,119.86	315.52
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin.....	1,399.19	415.91
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin.....	1,679.35	485.23
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin.....	2,063.42	621.49
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin.....	2,352.51	717.10
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin.....	162.41	51.63
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin.....	1,111.59	250.98
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin.....	1,492.82	370.98
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin.....	1,854.61	490.01
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin.....	2,310.04	611.93
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin.....	2,721.13	729.52
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin.....	3,114.23	849.04
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin.....	212.31	60.65
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin.....	1,365.53	279.19
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin.....	1,759.42	382.45
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin.....	2,303.65	573.68
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin.....	2,874.16	717.10
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin.....	3,387.11	860.51
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin.....	3,878.79	1,003.93
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin.....	263.73	71.71
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin.....	1,832.75	382.45
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin.....	2,466.60	573.68
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin.....	3,103.29	764.90
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin.....	3,780.40	956.13
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin.....	4,444.04	1,147.35
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin.....	5,163.91	1,338.58
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin.....	350.75	95.61
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin.....	2,670.30	573.68
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin.....	3,550.07	860.51
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin.....	4,501.70	1,147.35
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin.....	5,606.77	1,434.19
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin.....	6,671.10	1,721.03
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin.....	7,702.14	2,007.86
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin.....	522.11	143.42
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,373.91	621.49
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....	810.11	76.49
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	421.81	81.27
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring.....	511.86	119.52
For Each Additional Inch In Height, Add	65.38	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring.....	601.68	143.42
For Each Additional Inch In Height, Add	76.36	
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring.....	702.04	167.33
For Each Additional Inch In Height, Add	89.16	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring.....	853.45	239.03
For Each Additional Inch In Height, Add	102.45	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	573.65	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser.....	341.48	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	380.52	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	426.92	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	367.53	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	409.18	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	460.60	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	406.23	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	443.26	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	494.87	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0220			Cast In Place, Storm Drain Cleanout (33 42 31 00-0002) Note: Inside span.		
33 42 31 00-0221	EA		6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,710.08	749.05
33 42 31 00-0222	EA		6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,357.14	854.81
33 42 31 00-0223	EA		6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,072.12	970.13
33 42 31 00-0224	EA		7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	7,293.21	1,163.78
33 42 31 00-0225	EA		8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	8,825.56	1,405.01
33 42 31 00-0226			Precast Concrete Inlet Boxes (33 42 31 00-0002) Note: Inside dimensions.		
33 42 31 00-0227			Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228			24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227) Note: Yard inlet.		
33 42 31 00-0229			24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230	EA		24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	654.16	66.92
33 42 31 00-0231	EA		30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	769.57	81.27
33 42 31 00-0232	EA		36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	884.96	95.61
33 42 31 00-0233	EA		42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,001.56	110.56
33 42 31 00-0234			24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235	EA		6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	167.99	
33 42 31 00-0236	EA		12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	269.04	
33 42 31 00-0237	EA		18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	379.67	
33 42 31 00-0238	EA		24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	490.29	
33 42 31 00-0239	EA		30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	600.92	
33 42 31 00-0240	EA		36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	711.52	
33 42 31 00-0241			22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242			22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243	EA		36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,350.31	187.62
33 42 31 00-0244	EA		42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,520.08	216.94
33 42 31 00-0245	EA		48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,689.84	246.26
33 42 31 00-0246	EA		54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,859.73	275.65
33 42 31 00-0247	EA		60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,029.64	305.03
33 42 31 00-0248	EA		66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,199.55	334.42
33 42 31 00-0249	EA		72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,369.45	363.80
33 42 31 00-0250			22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251	EA		6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	329.23	
33 42 31 00-0252	EA		12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	524.57	
33 42 31 00-0253	EA		18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	572.42	
33 42 31 00-0254	EA		24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	731.34	
33 42 31 00-0255	EA		30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	890.28	
33 42 31 00-0256	EA		36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,042.01	
33 42 31 00-0257	EA		42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,211.78	
33 42 31 00-0258	EA		48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,381.54	
33 42 31 00-0259	EA		54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,551.44	
33 42 31 00-0260	EA		60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,721.34	
33 42 31 00-0261	EA		66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,891.25	
33 42 31 00-0262	EA		72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,061.15	
33 42 31 00-0263			30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264			30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265	EA		36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,306.66	206.39
33 42 31 00-0266	EA		42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,477.22	238.63
33 42 31 00-0267	EA		48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,647.78	270.88
33 42 31 00-0268	EA		54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,818.50	303.21
33 42 31 00-0269	EA		60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,989.23	335.53
33 42 31 00-0270	EA		66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,159.95	367.86
33 42 31 00-0271	EA		72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,330.67	400.18
33 42 31 00-0272			30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273	EA		6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	327.02	
33 42 31 00-0274	EA		12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	515.21	
33 42 31 00-0275	EA		18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	564.01	
33 42 31 00-0276	EA		24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	719.79	
33 42 31 00-0277	EA		30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	875.59	
33 42 31 00-0278	EA		36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,030.44	
33 42 31 00-0279	EA		42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,198.43	

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,365.48	
33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,533.47	
33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,700.52	
33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,868.51	
33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,036.49	
33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,550.51	225.14
33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,750.69	261.73
33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,950.88	299.26
33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,150.12	335.85
33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,350.31	373.37
33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,550.49	409.96
33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,749.74	446.55
33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	359.85	
33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	578.98	
33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	629.17	
33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	805.43	
33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	981.70	
33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,157.97	
33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,346.89	
33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,535.82	
33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,724.74	
33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,913.67	
33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,102.61	
33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,291.53	
33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	881.86	140.72
33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,187.72	250.17
33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,453.80	291.29
33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,719.87	332.41
33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,985.66	373.38
33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,251.44	414.34
33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,517.21	455.31
33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,783.00	496.28
33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	362.08	
33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	570.94	
33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	832.95	
33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,094.97	
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,341.35	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,603.37	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,869.45	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,135.52	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,401.31	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,667.09	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,932.86	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,198.65	
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab.....	958.36	152.45
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,526.72	315.21
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,820.58	367.87
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,114.45	420.53
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,407.73	472.91
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,701.01	525.28
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,994.29	577.65
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,287.57	630.02



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0333)</small>		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	398.68	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	613.47	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	907.09	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,200.69	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,468.02	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,761.63	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,055.49	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,349.35	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,642.64	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,935.91	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,229.20	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,522.48	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0333)</small>		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,065.70	170.74
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0357)</small>		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,169.88	424.97
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,542.29	495.33
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,914.68	564.74
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,286.16	635.10
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,658.55	704.53
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,030.01	773.95
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,403.35	844.31
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0357)</small>		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	535.63	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	810.47	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,176.31	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,542.14	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,880.77	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,246.60	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,619.02	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,991.41	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,362.88	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,735.27	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,106.73	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,479.15	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0357)</small>		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,445.51	187.62
33 42 31 00-0381 Frames And Grates For Inlets <small>(33 42 31 00-0226)</small>		
33 42 31 00-0382 Inlet Frames And Grates <small>(33 42 31 00-0381)</small>		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate	337.37	44.01
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)	436.94	44.01
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)	436.94	44.01
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT	436.94	44.01
Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	478.48	44.01
EA Type B Inlet Dirt Plate (US Foundry 5217 BK)	358.82	88.04
33 42 31 00-0389 EA Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	416.97	88.04
33 42 31 00-0390 EA Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)	519.15	110.04
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".		
33 42 31 00-0391 EA 1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	444.38	110.04
33 42 31 00-0392 EA 2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	452.69	110.04
33 42 31 00-0393 EA 2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	469.31	110.04
33 42 31 00-0394 EA 3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	485.92	110.04
33 42 31 00-0395 EA 2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	469.31	110.04
33 42 31 00-0396 EA 2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	485.92	110.04
33 42 31 00-0397 EA 3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	502.53	110.04
33 42 31 00-0398 EA 2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	718.52	110.04
33 42 31 00-0399 EA 2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	751.75	110.04
33 42 31 00-0400 EA 3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	784.98	110.04
33 42 31 00-0401 EA 2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	535.76	110.04
33 42 31 00-0402 EA 6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	485.92	110.04
33 42 31 00-0403 EA 8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	485.92	110.04

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0404 EA 6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	984.25	110.04
33 42 31 00-0405 EA 8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	984.25	110.04
33 42 31 00-0406 EA Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	408.23	121.05
33 42 31 00-0407 EA 6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)	566.07	121.05
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0408 EA 8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)	566.07	121.05
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0409 EA 10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)	624.22	121.05
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0410 EA Type B Inlet Frame (US Foundry 5216 FRM)	715.60	121.05
33 42 31 00-0411 EA Type D Inlet Frame (US Foundry 2999 FRM)	615.91	121.05
33 42 31 00-0412 EA Type B Inlet Frame (Campbell Foundry 2618-0202).....	873.44	121.05
33 42 31 00-0413 EA Type D Inlet Frame (Campbell Foundry 2617-0002).....	773.75	121.05
33 42 31 00-0414 EA Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,000.10	176.06
33 42 31 00-0415 EA Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,598.22	176.06
33 42 31 00-0416 EA Type A Inlet, Single Frame And Grate (General Foundries 52340)	975.18	176.06
33 42 31 00-0417 EA Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,520.13	176.06
33 42 31 00-0418 EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,633.06	264.10
33 42 31 00-0419 EA Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,681.70	352.14
33 42 31 00-0420 EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	1,842.37	352.14
33 42 31 00-0421 EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	1,842.37	352.14
33 42 31 00-0422 EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,634.69	352.14
33 42 31 00-0423 EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,634.69	352.14
33 42 31 00-0424 EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	1,908.82	352.14
33 42 31 00-0425 Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0426 Cast Iron Frames And Covers (33 42 31 00-0425)		
33 42 31 00-0427 EA 18" Diameter Cast Iron Catch Basin Frame And Cover	410.72	95.61
33 42 31 00-0428 EA 22" Diameter Cast Iron Catch Basin Frame And Cover	506.28	108.04
33 42 31 00-0429 EA 24" Diameter Cast Iron Catch Basin Frame And Cover	561.78	111.86
33 42 31 00-0430 EA 26" Diameter Cast Iron Catch Basin Frame And Cover	628.61	130.03
33 42 31 00-0431 EA 28" Diameter Cast Iron Catch Basin Frame And Cover	722.17	148.20
33 42 31 00-0432 EA 32" Diameter Cast Iron Catch Basin Frame And Cover	1,097.72	154.89
33 42 31 00-0433 EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	615.52	117.61
33 42 31 00-0434 EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	785.65	135.77
33 42 31 00-0435 EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	877.39	141.51
33 42 31 00-0436 EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	836.28	141.51
33 42 31 00-0437 EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	865.42	147.24
33 42 31 00-0438 EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	924.70	152.98
33 42 31 00-0439 EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	1,093.77	164.46
33 42 31 00-0440 Area Yard Drain (33 42 31 00-0001)		
See CSI section 22 14 26 16-0001 for drains.		
33 42 31 00-0441 Ductile Iron Grates (33 42 31 00-0440)		
Note: Not for traffic loading.		
33 42 31 00-0442 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	161.88	38.23
33 42 31 00-0443 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	198.42	40.78
33 42 31 00-0444 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	461.45	50.98
33 42 31 00-0445 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	551.39	61.17
33 42 31 00-0446 Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0447 Type OS Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0448 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,135.93	
33 42 31 00-0449 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,648.03	
33 42 31 00-0450 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,125.34	
33 42 31 00-0451 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,567.87	
33 42 31 00-0452 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,975.61	
33 42 31 00-0453 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	5,348.57	
33 42 31 00-0454 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,277.87	
33 42 31 00-0455 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,490.67	
33 42 31 00-0456 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,612.98	
33 42 31 00-0457 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,646.67	
33 42 31 00-0458 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	11,650.13	
33 42 31 00-0459 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	12,577.55	
33 42 31 00-0460 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	13,428.92	
33 42 31 00-0461 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0462 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,270.20	
33 42 31 00-0463 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,750.48	
33 42 31 00-0464 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,195.97	
33 42 31 00-0465 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,606.68	
33 42 31 00-0466 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,981.63	
33 42 31 00-0467 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,322.76	
33 42 31 00-0468 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,194.76	
33 42 31 00-0469 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,379.93	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0470 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,474.59	
33 42 31 00-0471 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,479.68	
33 42 31 00-0472 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,459.69	
33 42 31 00-0473 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,363.64	
33 42 31 00-0474 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,191.56	
33 42 31 00-0475 Type OL-10 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0476 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,315.51	
33 42 31 00-0477 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,766.67	
33 42 31 00-0478 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,182.09	
33 42 31 00-0479 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,563.67	
33 42 31 00-0480 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,909.50	
33 42 31 00-0481 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,220.57	
33 42 31 00-0482 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,111.66	
33 42 31 00-0483 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,268.23	
33 42 31 00-0484 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,336.18	
33 42 31 00-0485 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,313.64	
33 42 31 00-0486 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,269.23	
33 42 31 00-0487 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,149.74	
33 42 31 00-0488 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,953.25	
33 42 31 00-0489 Type OL-14 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0490 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,805.63	
33 42 31 00-0491 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,214.16	
33 42 31 00-0492 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,587.90	
33 42 31 00-0493 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,926.84	
33 42 31 00-0494 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,231.02	
33 42 31 00-0495 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,500.40	
33 42 31 00-0496 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,410.60	
33 42 31 00-0497 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,527.93	
33 42 31 00-0498 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,555.69	
33 42 31 00-0499 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,493.88	
33 42 31 00-0500 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,417.13	
33 42 31 00-0501 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,263.38	
33 42 31 00-0502 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,033.57	
33 42 31 00-0503 Type OL-21 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0504 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,830.37	
33 42 31 00-0505 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,153.71	
33 42 31 00-0506 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,442.26	
33 42 31 00-0507 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,696.04	
33 42 31 00-0508 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,914.07	
33 42 31 00-0509 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	11,098.27	
33 42 31 00-0510 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,951.16	
33 42 31 00-0511 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,991.30	
33 42 31 00-0512 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,941.90	
33 42 31 00-0513 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,802.92	
33 42 31 00-0514 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,660.61	
33 42 31 00-0515 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,441.28	
33 42 31 00-0516 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,145.92	
33 42 31 00-0517 Type GOL-7 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0518 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,182.07	
33 42 31 00-0519 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,712.64	
33 42 31 00-0520 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,203.46	
33 42 31 00-0521 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,654.51	
33 42 31 00-0522 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,066.78	
33 42 31 00-0523 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,440.24	
33 42 31 00-0524 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,474.60	
33 42 31 00-0525 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,794.89	
33 42 31 00-0526 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,014.53	
33 42 31 00-0527 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,132.61	
33 42 31 00-0528 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,224.59	
33 42 31 00-0529 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,231.10	
33 42 31 00-0530 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,151.18	
33 42 31 00-0531 Type GOL-10 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0532 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,316.34	
33 42 31 00-0533 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,814.13	
33 42 31 00-0534 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,273.12	
33 42 31 00-0535 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,693.31	
33 42 31 00-0536 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,073.75	
33 42 31 00-0537 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,414.43	
33 42 31 00-0538 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,448.79	
33 42 31 00-0539 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,739.19	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0540 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,928.91	
33 42 31 00-0541 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,018.02	
33 42 31 00-0542 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,084.56	
33 42 31 00-0543 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,065.61	
33 42 31 00-0544 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,961.18	
33 42 31 00-0545 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0546 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,112.86	
33 42 31 00-0547 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,529.09	
33 42 31 00-0548 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,916.55	
33 42 31 00-0549 EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,277.17	
33 42 31 00-0550 EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,610.92	
33 42 31 00-0551 EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,915.91	
33 42 31 00-0552 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0553 EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,913.53	
33 42 31 00-0554 EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,382.23	
33 42 31 00-0555 EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,819.11	
33 42 31 00-0556 EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,224.17	
33 42 31 00-0557 EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,597.41	
33 42 31 00-0558 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,937.87	
33 42 31 00-0559 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,685.71	
33 42 31 00-0560 EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,804.84	
33 42 31 00-0561 EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,841.56	
33 42 31 00-0562 EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,795.87	
33 42 31 00-0563 EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,722.31	
33 42 31 00-0564 EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,578.79	
33 42 31 00-0565 EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,364.38	
33 42 31 00-0566 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0567 EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,290.79	
33 42 31 00-0568 EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,701.62	
33 42 31 00-0569 EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,084.63	
33 42 31 00-0570 EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,440.79	
33 42 31 00-0571 EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,768.18	
33 42 31 00-0572 EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,068.73	
33 42 31 00-0573 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0574 EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,824.56	
33 42 31 00-0575 EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,295.96	
33 42 31 00-0576 EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,735.56	
33 42 31 00-0577 EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,142.37	
33 42 31 00-0578 EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,518.30	
33 42 31 00-0579 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,861.45	
33 42 31 00-0580 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,647.50	
33 42 31 00-0581 EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,768.46	
33 42 31 00-0582 EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,806.05	
33 42 31 00-0583 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,761.24	
33 42 31 00-0584 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,688.36	
33 42 31 00-0585 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,545.55	
33 42 31 00-0586 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,332.80	
33 42 31 00-0587 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0588 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,913.53	
33 42 31 00-0589 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,382.23	
33 42 31 00-0590 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,819.11	
33 42 31 00-0591 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,224.17	
33 42 31 00-0592 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,597.41	
33 42 31 00-0593 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,937.87	
33 42 31 00-0594 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,685.71	
33 42 31 00-0595 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,804.84	
33 42 31 00-0596 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,841.56	
33 42 31 00-0597 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,795.87	
33 42 31 00-0598 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,722.31	
33 42 31 00-0599 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,578.79	
33 42 31 00-0600 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,364.38	
33 42 31 00-0601 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0602 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,268.55	
33 42 31 00-0603 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,679.81	
33 42 31 00-0604 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,064.22	
33 42 31 00-0605 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,419.86	
33 42 31 00-0606 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,748.65	
33 42 31 00-0607 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,049.63	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 31 00-0608		Type G-6 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,313.03		
	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,723.42		
	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,106.00		
	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,460.78		
	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,787.73		
	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,087.83		
33 42 31 00-0615		Type GT1 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,869.87		
	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,512.55		
	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,159.56		
	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,667.56		
	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,178.93		
	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,647.50		
33 42 31 00-0622		Type GT2 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,692.77		
	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,392.80		
	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,043.93		
	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,647.09		
	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,201.35		
	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,707.66		
	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,315.09		
	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,965.18		
	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,492.13		
	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,896.90		
	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,262.70		
	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,523.88		
	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,680.43		
33 42 31 00-0636		Type GT3 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,847.63		
	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,490.74		
	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,091.05		
	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,647.58		
	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,159.40		
	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,628.39		
33 42 31 00-0643		Type GT4 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,848.46		
	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,543.52		
	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,190.64		
	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,788.83		
	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,339.08		
	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,841.37		
	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,334.19		
	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,983.85		
	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,510.36		
	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,913.74		
	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,279.19		
	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,540.01		
	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,696.22		
33 42 31 00-0657		Type GO Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,757.84		
	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,209.71		
	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,630.63		
	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,020.59		
	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,379.62		
	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,708.64		
	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,475.58		
	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,561.13		
	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,565.23		
	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,489.80		
	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,388.59		
	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,218.02		
	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,979.99		
33 42 31 00-0671		Type GDO Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>			
	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,602.98		
	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,197.07		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0674	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,750.63	
33 42 31 00-0675	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,264.59	
33 42 31 00-0676	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,737.06	
33 42 31 00-0677	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	6,169.94	
33 42 31 00-0678	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,328.48	
33 42 31 00-0679	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,727.78	
33 42 31 00-0680	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,023.41	
33 42 31 00-0681	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,216.30	
33 42 31 00-0682	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	13,374.71	
33 42 31 00-0683	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	14,445.01	
33 42 31 00-0684	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	15,427.19	

33 42 33 Stormwater Curbside Drains and Inlets (33 42)**33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)****33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)**

33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	750.28	111.86
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	804.82	130.03
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	831.75	130.03
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	911.47	152.98
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	908.70	163.50

33 42 36 Stormwater Trench Drains (33 42)**33 42 36 00-0001 Modular Trench Drains (33 42 36)**

See CSI section 03 31 13 00-0011 for concrete.

33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)

Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.

33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)**33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)****33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)**

33 42 36 00-0006	LF	4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C)	57.39	15.29
		<i>For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i>	54.20	
		<i>For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i>	108.40	
		<i>For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i>	173.43	
		<i>For Type 304 Stainless Steel Top Veneer Frame, Add</i>	43.36	
		<i>For Aluminum Veneer Bronze Anodized Frame, Add</i>	21.68	

33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)

33 42 36 00-0008	EA	Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	43.29	
33 42 36 00-0009	EA	No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	52.86	
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	52.86	

33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)**33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)****33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)**

33 42 36 00-0014	LF	6" Wide, High Density Polyethylene, Modular Trench Drain	123.70	15.29
		<i>For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i>	54.20	
		<i>For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i>	108.40	
		<i>For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i>	173.43	
		<i>For Type 304 Stainless Steel Top Veneer Frame, Add</i>	43.36	
		<i>For Aluminum Veneer Bronze Anodized Frame, Add</i>	21.68	

33 42 36 00-0015 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)

33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains	58.14	
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	67.71	
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	67.71	

33 42 36 00-0019 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)

33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains	103.22	
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains	103.22	
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	481.39	
33 42 36 00-0023	EA	Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains	914.97	
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	108.40	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	174.64	15.29
<i>For Black Acid Resistant Coated Frame, Add</i>	41.19	
<i>For Galvanized Top Frame Assembly, Add</i>	41.19	
<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75	
33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	62.48	
33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.05	
33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.05	
33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	103.22	
33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	103.22	
33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	481.39	
33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	914.97	
33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	108.40	
33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0040 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain	222.34	15.29
<i>For Black Acid Resistant Coated Frame, Add</i>	41.19	
<i>For Galvanized Top Frame Assembly, Add</i>	41.19	
<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75	
33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0042 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	97.16	
33 42 36 00-0043 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	106.73	
33 42 36 00-0044 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	106.73	
33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0046 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	103.22	
33 42 36 00-0047 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	103.22	
33 42 36 00-0048 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	481.39	
33 42 36 00-0049 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	914.97	
33 42 36 00-0050 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	108.40	
33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0052 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0053 LF 6" Wide, Polymer Concrete, Modular Trench Drain	386.44	
33 42 36 00-0054 Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0055 EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	153.59	
33 42 36 00-0056 EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	187.43	
33 42 36 00-0057 EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	60.44	
33 42 36 00-0058 12" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain	226.34	21.03
<i>For Acid Resistant Coated Top Frame, Add</i>	56.37	
<i>For Galvanized Welded Frame Assembly, Add</i>	59.08	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	338.19	
33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	114.37	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	127.13	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	127.13	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	182.20	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	236.40	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	940.71	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	1,807.87	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	216.79	
33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	280.54	21.03
For Acid Resistant Coated Top Frame, Add	56.37	
For Galvanized Welded Frame Assembly, Add	59.08	
For Type 304 Stainless Steel Top Frame, Add	338.19	
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	118.71	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	131.47	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	131.47	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	182.20	
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	236.40	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	940.71	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	1,807.87	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	216.79	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	388.93	21.03
For Acid Resistant Coated Top Frame, Add	56.37	
For Galvanized Welded Frame Assembly, Add	59.08	
For Type 304 Stainless Steel Top Frame, Add	338.19	
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	281.30	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	294.06	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	294.06	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	182.20	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	236.40	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	940.71	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	1,807.87	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	216.79	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0096)		
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain.....	518.29	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0096)		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain.....	260.86	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	449.15	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	105.40	
33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain.....	316.24	28.69
For Acid Resistant Coated Frame, Add	84.55	
For Galvanized Frame Assembly, Add	84.55	
For Type 304 Stainless Steel Top Frame, Add	520.30	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0106)</small>		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	346.18	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	518.56	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	518.56	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0106)</small>		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	408.06	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,853.82	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	3,588.14	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	433.58	
33 42 36 00-0118 Modular Trench Drain Grates <small>(33 42 36 00-0001)</small>		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	35.59	2.87
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	37.40	2.87
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	30.15	2.87
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	80.00	2.87
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	30.15	2.87
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	80.00	2.87
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate.....	108.84	2.87
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate.....	92.47	2.87
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	97.02	2.87
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	84.99	2.87
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	91.50	2.87
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	92.58	2.87
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	92.58	2.87
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	91.50	2.87
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....	80.66	2.87
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	80.66	2.87
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	85.64	2.87
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	85.64	2.87
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	111.01	2.87
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	111.01	2.87
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	202.06	2.87
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	202.06	2.87
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	559.76	2.87
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	76.32	2.87
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate	163.04	2.87
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	297.93	3.10
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	284.92	3.10
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	248.06	3.10
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	260.53	3.10
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	225.30	3.10
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	439.38	3.10
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	439.38	3.10
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	560.24	3.10
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	560.24	3.10
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	714.71	3.10
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	714.71	3.10
33 42 36 00-0158 LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	678.39	3.10
33 42 36 00-0159 LF 12" Wide, Fiberglass, Modular Trench Drain Grate	321.23	3.10
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0161 LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	469.67	3.35
33 42 36 00-0162 LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	395.96	3.35
33 42 36 00-0163 LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	612.75	3.35
33 42 36 00-0164 LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	454.50	3.35
33 44 Storm Utility Water Drains <small>(33 40)</small>		
33 44 36 Oil and Stormwater Separators <small>(33 44)</small>		
33 44 36 00-0001 Oil/Water Separator <small>(33 44 36)</small>		
Note: Complete with internal sensors and detectors.		

33	33 Utilities
	33 40 Stormwater Utilities
	33 44 Storm Utility Water Drains



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 44 36 00-0002	Coalescing Oil Water Separator <small>(33 44 36 00-0001)</small> Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.	
33 44 36 00-0003	Single Wall Steel Coalescing Oil Water Separator <small>(33 44 36 00-0002)</small>	
33 44 36 00-0004	EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	15,382.32
	<i>For Interior Polyurethane Coating, Add</i>	711.00
33 44 36 00-0005	EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	18,796.60
	<i>For Interior Polyurethane Coating, Add</i>	893.70
33 44 36 00-0006	EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	22,490.00
	<i>For Interior Polyurethane Coating, Add</i>	1,340.10
33 44 36 00-0007	Double Wall Steel Coalescing Oil Water Separator <small>(33 44 36 00-0002)</small>	
33 44 36 00-0008	EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	23,833.53
	<i>For Interior Polyurethane Coating, Add</i>	711.00
33 44 36 00-0009	EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	27,397.72
	<i>For Interior Polyurethane Coating, Add</i>	893.70
33 44 36 00-0010	EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	33,431.82
	<i>For Interior Polyurethane Coating, Add</i>	1,340.10
33 44 36 00-0011	EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.	38,892.26
	<i>For Interior Polyurethane Coating, Add</i>	1,550.70
33 44 36 00-0012	EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000. 6' diameter x 28'-8" long tank.	51,631.51
	<i>For Interior Polyurethane Coating, Add</i>	2,057.80
33 44 36 00-0013	Accessories For Coalescing Oil Water Separators <small>(33 44 36 00-0002)</small>	
33 44 36 00-0014	EA Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	1,024.04
33 44 36 00-0015	EA Two Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP2.	1,384.27
33 44 36 00-0016	EA Float Interface Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	803.84
33 44 36 00-0017	EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	603.74
33 44 36 00-0018	EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	228.54
33 44 36 00-0019	EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	3,284.79
33 44 36 00-0020	EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	6,569.58
33 44 36 00-0021	EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	9,854.45
33 44 36 00-0022	EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	605.69
33 44 36 00-0023	EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	712.41
33 44 36 00-0024	EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,424.82
33 44 36 00-0025	EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	3,137.75
33 44 36 00-0026	EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	855.81
33 44 36 00-0027	EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,112.46
33 44 36 00-0028	EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,535.84
33 44 36 00-0029	EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	2,783.15
33 44 36 00-0030	EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,573.55
33 44 36 00-0031	EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	4,480.68
33 44 36 00-0032	EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	5,644.61
33 44 36 00-0033	EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,112.24
33 44 36 00-0034	EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,355.69
33 44 36 00-0035	EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,129.42
33 44 36 00-0036	EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,060.54
33 44 36 00-0037	EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,287.33
33 44 36 00-0038	EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,527.45
33 44 36 00-0039	EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	90.05
33 44 36 00-0040	EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	101.72

33 44 36 00-0041 Oil Skimmers (33 44 36)



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Storm Utility Water Drains	33 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,405.48	778.18
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,641.28	778.18
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,427.32	778.18
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,729.70	778.18
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	5,675.12	778.18
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	5,874.89	778.18
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,726.42	778.18
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,027.72	778.18
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	6,177.85	1,037.80
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	6,430.02	1,037.80
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	6,244.44	1,037.80
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	6,606.87	1,037.80
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	6,815.37	1,037.80
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	7,067.54	1,037.80
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,868.86	1,037.80
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	7,232.38	1,037.80
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	291.23	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	339.26	
33 46 Stormwater Management (33 46)		
33 46 23 Modular Buried Stormwater Storage Units (33 46)		
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)		
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	507.05	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	465.05	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	435.87	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	407.53	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	230.81	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	202.62	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	186.57	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	170.70	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012 EA Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	297.38	
33 46 23 00-0013 EA >10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	270.65	
33 46 23 00-0014 EA >20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	252.66	
33 46 23 00-0015 EA >30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	236.29	
33 46 23 00-0016 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	182.10	
33 46 23 00-0017 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	161.13	
33 46 23 00-0018 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	148.59	
33 46 23 00-0019 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	137.43	
33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)		
33 46 23 00-0021 EA Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	843.77	
33 46 23 00-0022 EA >10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	782.88	
33 46 23 00-0023 EA >20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	735.56	
33 46 23 00-0024 EA >30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	692.85	

33	Utilities
33 40	Stormwater Utilities
33 46	Stormwater Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0025 EA Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	716.70	
33 46 23 00-0026 EA >10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	662.14	
33 46 23 00-0027 EA >20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	620.87	
33 46 23 00-0028 EA >30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	583.89	
33 46 23 00-0029 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)		
33 46 23 00-0030 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	525.27	
33 46 23 00-0031 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	482.37	
33 46 23 00-0032 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	452.32	
33 46 23 00-0033 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	423.15	
33 46 23 00-0034 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	230.81	
33 46 23 00-0035 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	199.18	
33 46 23 00-0036 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	186.57	
33 46 23 00-0037 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	170.70	
33 46 23 00-0038 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)		
33 46 23 00-0039 EA Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	879.80	
33 46 23 00-0040 EA >10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	815.03	
33 46 23 00-0041 EA >20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	763.87	
33 46 23 00-0042 EA >30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	720.34	
33 46 23 00-0043 EA Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,085.54	
33 46 23 00-0044 EA >10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,010.48	
33 46 23 00-0045 EA >20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	949.56	
33 46 23 00-0046 EA >30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	896.74	
33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)		
33 46 23 00-0048 EA Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	63.25	
33 46 23 00-0049 EA Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	81.23	
33 46 23 00-0050 EA Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	105.04	
33 46 23 00-0051 EA Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	132.78	
33 46 23 00-0052 EA 12" x 6" Inspection Port Kit.....	603.80	
Note: (2712AG6IPKIT)		
33 46 53 Stormwater Leaching Pits (33 46)		
33 46 53 00-0001 Drainage Wells (33 46 53)		
Note: Includes augering hole.		
33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner.....	26.66	
33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner.....	32.33	
33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner.....	42.83	
33 50 Hydrocarbon Utilities (33)		
33 52 Hydrocarbon Transmission and Distribution (33 50)		
33 52 16 Gas Hydrocarbon Piping (33 52)		
33 52 16 13 Steel Natural Gas Piping (33 52 16)		
Note: See CSI section 23 05 23 00-0000 for gas valves.		
33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 52 16 13-0002 Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped (33 52 16 13-0001)		
33 52 16 13-0003 LF 1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	18.72	3.27
33 52 16 13-0004 LF 3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	21.44	3.59
33 52 16 13-0005 LF 1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	24.21	3.68



Utilities	33	CS
Hydrocarbon Utilities	33 50	
Hydrocarbon Transmission and Distribution	33 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 13-0006 LF 1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	24.82	3.79
33 52 16 13-0007 LF 1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	25.70	3.83
33 52 16 13-0008 LF 2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	27.26	4.11
33 52 16 13-0009 LF 2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	35.97	4.44
33 52 16 13-0010 LF 3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	44.87	5.61
33 52 16 13-0011 LF 4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	60.02	6.77
33 52 16 13-0012 LF 5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	80.35	7.84
33 52 16 13-0013 LF 6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	100.87	9.58
33 52 16 13-0014 LF 8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	145.87	12.33
33 52 16 13-0015 Gas Line Taps <small>(33 52 16 13-0001)</small>		
Note: Includes material to tap into main and gas valve.		
33 52 16 13-0016 Polyethylene, 60 PSI <small>(33 52 16 13-0015)</small>		
33 52 16 13-0017 EA 2" Polyethylene Hot Tap, With Valve	2,131.15	
33 52 16 13-0018 EA 2-1/2" Polyethylene Hot Tap, With Valve	1,785.18	
33 52 16 13-0019 EA 3" Polyethylene Hot Tap, With Valve	1,891.98	
33 52 16 13-0020 EA 4" Polyethylene Hot Tap, With Valve	3,750.45	
33 52 16 13-0021 EA 6" Polyethylene Hot Tap, With Valve	5,783.08	
33 52 16 13-0022 Steel, Schedule 40 <small>(33 52 16 13-0015)</small>		
Note: For punch steel service tee.		
33 52 16 13-0023 EA 1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,014.27	
33 52 16 13-0024 EA 3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,048.25	
33 52 16 13-0025 EA 3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,101.55	
33 52 16 13-0026 EA 3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,152.59	
33 52 16 13-0027 EA 1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,186.42	
33 52 16 13-0028 EA 1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,372.01	
33 52 16 13-0029 EA 1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,438.31	
33 52 16 13-0030 Protective Pipe And Fitting Wrap <small>(33 52 16 13-0001)</small>		
Note: Includes cleaning and priming pipe.		
33 52 16 13-0031 Corrosion Protection Pipe Wrap For Pipe <small>(33 52 16 13-0030)</small>		
Note: Field applied.		
33 52 16 13-0032 LF 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.39	
33 52 16 13-0033 LF 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.62	
33 52 16 13-0034 LF 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.88	
33 52 16 13-0035 LF 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	6.64	
33 52 16 13-0036 LF 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	7.03	
33 52 16 13-0037 LF 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	8.15	
33 52 16 13-0038 LF 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	10.11	
33 52 16 13-0039 LF 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	12.78	
33 52 16 13-0040 LF 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	16.31	
33 52 16 13-0041 LF 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	22.00	
33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings <small>(33 52 16 13-0030)</small>		
Note: Field applied.		
33 52 16 13-0043 EA 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	25.08	
33 52 16 13-0044 EA 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	25.08	
33 52 16 13-0045 EA 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	30.71	
33 52 16 13-0046 EA 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	35.13	
33 52 16 13-0047 EA 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	35.13	
33 52 16 13-0048 EA 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	41.61	
33 52 16 13-0049 EA 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	55.27	
33 52 16 13-0050 EA 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	79.40	
33 52 16 13-0051 EA 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	80.83	
33 52 16 13-0052 EA 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	93.66	
33 52 16 13-0053 Service Fittings <small>(33 52 16 13-0001)</small>		
33 52 16 13-0054 Brass Fittings <small>(33 52 16 13-0053)</small>		
33 52 16 13-0055 EA 1/2" X 2" Long Nipples, Threaded Both Ends, Brass	37.61	
33 52 16 13-0056 EA 3/4" X 2" Long Nipples, Threaded Both Ends, Brass	43.17	
33 52 16 13-0057 EA 1" X 2" Long Nipples, Threaded Both Ends, Brass	53.96	
33 52 16 13-0058 EA 1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass	65.79	
33 52 16 13-0059 EA 1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass	73.26	
33 52 16 13-0060 EA 2" X 2" Long Nipples, Threaded Both Ends, Brass	92.88	
33 52 16 13-0061 EA 1/2" 90 Degree Elbow, Brass.....	33.84	
33 52 16 13-0062 EA 3/4" 90 Degree Elbow, Brass.....	38.54	
33 52 16 13-0063 EA 1" 90 Degree Elbow, Brass.....	49.15	

33 Utilities**33 50 Hydrocarbon Utilities****33 52 Hydrocarbon Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 13-0064 EA 1-1/4" 90 Degree Elbow, Brass.....	62.16	
33 52 16 13-0065 EA 1-1/2" 90 Degree Elbow, Brass.....	70.41	
33 52 16 13-0066 EA 2" 90 Degree Elbow, Brass.....	91.72	
33 52 16 13-0067 EA 1/2" Diameter Chrome Plated Nipple.....	31.28	
33 52 16 13-0068 EA 3/4" Diameter Chrome Plated Nipple.....	40.20	
33 52 16 13-0069 EA 1" Diameter Chrome Plated Nipple.....	52.37	
33 52 16 13-0070 EA 1-1/4" Diameter Chrome Plated Nipple.....	74.48	
33 52 16 13-0071 EA 1-1/2" Diameter Chrome Plated Nipple.....	90.09	
33 52 16 13-0072 EA 2" Diameter Chrome Plated Nipple.....	120.90	
33 52 16 13-0073 Anodless Gas Riser (33 52 16 13-0053)		
33 52 16 13-0074 EA 3/4" Anodless Gas Riser.....	97.08	
33 52 16 13-0075 EA 1" Anodless Gas Riser.....	119.37	
33 52 16 13-0076 EA 1-1/4" Anodless Gas Riser.....	138.54	
33 52 16 13-0077 EA 1-1/2" Anodless Gas Riser.....	170.30	
33 52 16 13-0078 EA 2" Anodless Gas Riser.....	194.08	
33 52 16 13-0079 Brass Service Adapter (33 52 16 13-0053)		
33 52 16 13-0080 EA 1/2" Brass Service Adapter.....	83.92	
33 52 16 13-0081 EA 3/4" Brass Service Adapter.....	92.34	
33 52 16 13-0082 EA 1" Brass Service Adapter.....	110.77	
33 52 16 13-0083 EA 1-1/4" Brass Service Adapter.....	134.21	
33 52 16 13-0084 EA 1-1/2" Brass Service Adapter.....	160.94	
33 52 16 13-0085 EA 2" Brass Service Adapter.....	193.30	
33 52 16 13-0086 EA 2-1/2" Brass Service Adapter.....	328.26	
33 52 16 13-0087 EA 3" Brass Service Adapter.....	400.96	
33 52 16 13-0088 EA 4" Brass Service Adapter.....	577.34	
33 52 16 23 Medium Density Polyethylene Piping for Natural Gas (33 52 16)		
33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping (33 52 16 23)		
Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.		
33 52 16 23-0002 LF 1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	4.29	2.01
For Colors, Add	0.04	
33 52 16 23-0003 LF 3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	4.72	2.15
For SDR 13.5, Deduct	-0.08	
For Colors, Add	0.05	
33 52 16 23-0004 LF 1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	5.17	2.30
For SDR 13.5, Deduct	-0.10	
For Colors, Add	0.07	
33 52 16 23-0005 LF 1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	5.63	2.44
For SDR 13.5, Deduct	-0.12	
For Colors, Add	0.08	
33 52 16 23-0006 LF 1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	6.34	2.94
For SDR 13.5, Deduct	-0.17	
For Colors, Add	0.11	
33 52 16 23-0007 LF 2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	7.05	3.20
For SDR 13.5, Deduct	-0.23	
For SDR 15.5, Deduct	-0.41	
For Colors, Add	0.15	
33 52 16 23-0008 LF 2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	8.55	3.74
For SDR 13.5, Deduct	-0.38	
For SDR 15.5, Deduct	-0.69	
For Colors, Add	0.24	
33 52 16 23-0009 LF 3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	10.22	4.45
For SDR 13.5, Deduct	-0.51	
For SDR 15.5, Deduct	-0.94	
For Colors, Add	0.33	
33 52 16 23-0010 LF 4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	15.06	4.50
For SDR 13.5, Deduct	-0.95	
For SDR 15.5, Deduct	-1.74	
For Colors, Add	0.61	
33 52 16 23-0011 LF 5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	18.76	4.50
For SDR 13.5, Deduct	-1.31	
For SDR 15.5, Deduct	-2.42	
For Colors, Add	0.85	
33 52 16 23-0012 LF 6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	22.56	4.50
For SDR 13.5, Deduct	-1.68	
For SDR 15.5, Deduct	-3.09	
For Colors, Add	1.08	
33 52 16 23-0013 LF 8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	32.70	5.63
For SDR 13.5, Deduct	-2.80	
For SDR 15.5, Deduct	-5.15	
For Colors, Add	1.81	
33 52 16 26 High Density Polyethylene Piping for Natural Gas (33 52 16)		
33 52 16 26-0001 High Density Polyethylene (HDPE) Gas Distribution Piping (33 52 16 26)		
Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping.		



	Utilities	33
	Hydrocarbon Utilities	33 50
	Hydrocarbon Transmission and Distribution	33 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 26-0002 LF 1/2" Diameter, SDR 9 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	4.34	2.01
33 52 16 26-0003 LF 3/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	4.80	2.15
For SDR 13.5, Deduct	-0.09	
33 52 16 26-0004 LF 1" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	5.24	2.30
For SDR 13.5, Deduct	-0.11	
33 52 16 26-0005 LF 1-1/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	5.73	2.44
For SDR 13.5, Deduct	-0.13	
33 52 16 26-0006 LF 1-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	6.47	2.94
For SDR 13.5, Deduct	-0.19	
33 52 16 26-0007 LF 2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	7.23	3.20
For SDR 13.5, Deduct	-0.25	
For SDR 15.5, Deduct	-0.46	
For SDR 17, Deduct	-0.66	
33 52 16 26-0008 LF 2-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	8.85	3.74
For SDR 13.5, Deduct	-0.41	
For SDR 15.5, Deduct	-0.76	
For SDR 17, Deduct	-1.10	
33 52 16 26-0009 LF 3" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	10.64	4.45
For SDR 13.5, Deduct	-0.56	
For SDR 15.5, Deduct	-1.04	
For SDR 17, Deduct	-1.51	
For SDR 21, Deduct	-2.06	
33 52 16 26-0010 LF 4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	15.83	4.50
For SDR 13.5, Deduct	-1.04	
For SDR 15.5, Deduct	-1.92	
For SDR 17, Deduct	-2.78	
For SDR 21, Deduct	-3.81	
33 52 16 26-0011 LF 6" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	23.92	4.50
For SDR 13.5, Deduct	-1.85	
For SDR 15.5, Deduct	-3.40	
For SDR 17, Deduct	-4.94	
For SDR 21, Deduct	-6.76	
33 52 16 26-0012 LF 8" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	34.96	5.63
For SDR 13.5, Deduct	-3.08	
For SDR 15.5, Deduct	-5.66	
For SDR 17, Deduct	-8.22	
For SDR 21, Deduct	-11.25	

33 53 Hydrocarbon Utility Pressure Regulation (33 50)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)

33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End.....	202.25	22.54
33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End.....	207.37	22.54
33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End.....	219.64	26.76
33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End.....	647.96	30.98
33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End.....	712.63	47.98
33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End.....	1,961.61	107.63
33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End.....	2,711.02	142.64

33 56 Hydrocarbon Storage (33 50)

33 56 13 Aboveground Hydrocarbon Storage Tanks (33 56)

See CSI section 23 13 23 00-0000 for aboveground storage tanks.

33 56 33 Underground Hydrocarbon Storage (33 56)

See CSI section 23 13 13 00-0000 for underground storage tanks.

33 59 Hydrocarbon Utility Metering (33 50)

33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)

33 59 11 00-0001 Diaphragm Meters (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....	549.78	88.18
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....	1,022.16	134.86
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	1,164.53	134.86
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....	2,336.06	168.57
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	2,672.61	207.48
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	

33 Utilities**33 50 Hydrocarbon Utilities****33 59 Hydrocarbon Utility Metering**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	3,353.31 8.40 26.50	168.57
33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	3,767.29 8.40 26.50	207.48
33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	4,892.85 8.40 26.50	220.45
33 59 11 00-0010 EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	6,850.62 8.40 26.50	259.35
33 59 11 00-0011 EA 5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	10,519.03 8.40 26.50	427.93

33 59 16 Hydrocarbons Turbine Meters (33 59)**33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)**

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002 EA 4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	8,530.73	422.93
33 59 16 00-0003 EA 6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	8,675.25	491.15
33 59 16 00-0004 EA 8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	13,319.85	530.29
33 59 16 00-0005 EA 10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	25,725.82	645.57
33 59 16 00-0006 EA 12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	43,128.40	806.95

33 60 Hydronic and Steam Energy Utilities (33)**33 61 Hydronic Energy Distribution (33 60)****33 61 13 Buried Hydronic Energy Distribution (33 61)****33 61 13 00-0001 Glass Lined Steel Piping (33 61 13)****33 61 13 00-0002 Glass Lined Steel Pipe (33 61 13 00-0001)**

Note: 150 PSIG

33 61 13 00-0003 EA 4" X 1' Glass Lined Steel Pipe	1,273.24	
33 61 13 00-0004 EA 4" X 2' Glass Lined Steel Pipe	1,405.48	
33 61 13 00-0005 EA 4" X 3' Glass Lined Steel Pipe	1,405.48	
33 61 13 00-0006 EA 4" X 4' Glass Lined Steel Pipe	1,669.95	
33 61 13 00-0007 EA 4" X 5' Glass Lined Steel Pipe	2,372.46	
33 61 13 00-0008 EA 4" X 10' Glass Lined Steel Pipe	2,747.13	
33 61 13 00-0009 EA 6" X 1' Glass Lined Steel Pipe	1,066.62	
33 61 13 00-0010 EA 6" X 2' Glass Lined Steel Pipe	2,306.34	
33 61 13 00-0011 EA 6" X 3' Glass Lined Steel Pipe	2,306.34	
33 61 13 00-0012 EA 6" X 4' Glass Lined Steel Pipe	2,612.14	
33 61 13 00-0013 EA 6" X 5' Glass Lined Steel Pipe	4,212.76	
33 61 13 00-0014 EA 6" X 10' Glass Lined Steel Pipe	4,875.70	
33 61 13 00-0015 EA 8" X 1' Glass Lined Steel Pipe	2,630.92	
33 61 13 00-0016 EA 8" X 2' Glass Lined Steel Pipe	3,168.13	
33 61 13 00-0017 EA 8" X 3' Glass Lined Steel Pipe	3,168.13	
33 61 13 00-0018 EA 8" X 4' Glass Lined Steel Pipe	3,643.11	
33 61 13 00-0019 EA 8" X 5' Glass Lined Steel Pipe	4,933.55	
33 61 13 00-0020 EA 8" X 10' Glass Lined Steel Pipe	5,606.87	
33 61 13 00-0021 EA 12" X 1' Glass Lined Steel Pipe	7,135.18	
33 61 13 00-0022 EA 12" X 2' Glass Lined Steel Pipe	7,135.18	
33 61 13 00-0023 EA 12" X 3' Glass Lined Steel Pipe	7,394.14	
33 61 13 00-0024 EA 12" X 4' Glass Lined Steel Pipe	7,885.60	
33 61 13 00-0025 EA 12" X 5' Glass Lined Steel Pipe	8,848.16	
33 61 13 00-0026 EA 12" X 10' Glass Lined Steel Pipe	10,929.22	
33 61 13 00-0027 EA 16" X 10' Glass Lined Steel Pipe	14,887.27	

33 61 13 00-0028 90 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0029 EA 4" 90 Degree Elbow, Glass Lined Steel Fittings.....	1,574.87	
33 61 13 00-0030 EA 6" 90 Degree Elbow, Glass Lined Steel Fittings.....	2,564.12	
33 61 13 00-0031 EA 8" 90 Degree Elbow, Glass Lined Steel Fittings.....	4,685.36	
33 61 13 00-0032 EA 10" 90 Degree Elbow, Glass Lined Steel Fittings.....	8,285.74	
33 61 13 00-0033 EA 12" 90 Degree Elbow, Glass Lined Steel Fittings.....	12,297.08	
33 61 13 00-0034 EA 14" 90 Degree Elbow, Glass Lined Steel Fittings.....	14,432.01	
33 61 13 00-0035 EA 16" 90 Degree Elbow, Glass Lined Steel Fittings.....	16,566.56	

33 61 13 00-0036 45 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0037 EA 4" 45 Degree Elbow, Glass Lined Steel Fittings.....	1,544.56	
33 61 13 00-0038 EA 6" 45 Degree Elbow, Glass Lined Steel Fittings.....	2,564.12	
33 61 13 00-0039 EA 8" 45 Degree Elbow, Glass Lined Steel Fittings.....	4,894.74	
33 61 13 00-0040 EA 10" 45 Degree Elbow, Glass Lined Steel Fittings.....	13,674.39	
33 61 13 00-0041 EA 12" 45 Degree Elbow, Glass Lined Steel Fittings.....	12,297.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0042	EA		14" 45 Degree Elbow, Glass Lined Steel Fittings	14,432.01	
33 61 13 00-0043	EA		16" 45 Degree Elbow, Glass Lined Steel Fittings	16,566.56	
33 61 13 00-0044			Tee, Glass Lined Steel Fittings <small>(33 61 13 00-0001)</small>		
			Note: 150 PSIG		
33 61 13 00-0045	EA		4" Tee, Glass Lined Steel Fittings.....	2,449.70	
33 61 13 00-0046	EA		6" Tee, Glass Lined Steel Fittings.....	4,181.70	
33 61 13 00-0047	EA		8" Tee, Glass Lined Steel Fittings.....	6,163.14	
33 61 13 00-0048	EA		10" Tee, Glass Lined Steel Fittings.....	10,614.25	
33 61 13 00-0049	EA		12" Tee, Glass Lined Steel Fittings.....	15,088.00	
33 61 13 00-0050	EA		14" Tee, Glass Lined Steel Fittings.....	17,779.23	
33 61 13 00-0051	EA		16" Tee, Glass Lined Steel Fittings.....	20,416.50	
33 61 13 00-0052			Prefabricated/Preinsulated Pipe <small>(33 61 13)</small>		
			Note: Includes coupling per full length of pipe. Excludes excavation and backfill. See CSI section 23 01 20 91-0041 for purging of existing system, 31 23 16 00-0000 for excavation, 31 23 16 33-0001 for excavation, 31 23 16 36-0016 for backfill.		
33 61 13 00-0053			Preinsulated Schedule 40 Black Steel Pipe <small>(33 61 13 00-0052)</small>		
			Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0054			Standard Black Steel Carrier Pipe <small>(33 61 13 00-0053)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0055	LF		3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	135.44	
			For High Density Polyethylene (HDPE) Jacket, Add	2.17	
			For Schedule 80 Pipe, Add	21.73	
33 61 13 00-0056	LF		1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	148.40	
			For High Density Polyethylene (HDPE) Jacket, Add	2.39	
			For Schedule 80 Pipe, Add	23.89	
33 61 13 00-0057	LF		1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	165.28	
			For High Density Polyethylene (HDPE) Jacket, Add	2.69	
			For Schedule 80 Pipe, Add	26.91	
33 61 13 00-0058	LF		1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	176.86	
			For High Density Polyethylene (HDPE) Jacket, Add	2.89	
			For Schedule 80 Pipe, Add	28.88	
33 61 13 00-0059	LF		2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	185.42	
			For High Density Polyethylene (HDPE) Jacket, Add	3.02	
			For Schedule 80 Pipe, Add	30.19	
33 61 13 00-0060	LF		2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	206.69	
			For High Density Polyethylene (HDPE) Jacket, Add	3.28	
			For Schedule 80 Pipe, Add	32.82	
33 61 13 00-0061	LF		3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	229.20	
			For High Density Polyethylene (HDPE) Jacket, Add	3.54	
			For Schedule 80 Pipe, Add	35.44	
33 61 13 00-0062	LF		4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	289.37	
			For High Density Polyethylene (HDPE) Jacket, Add	4.46	
			For Schedule 80 Pipe, Add	44.63	
33 61 13 00-0063	LF		5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	366.60	
			For High Density Polyethylene (HDPE) Jacket, Add	5.71	
			For Schedule 80 Pipe, Add	57.10	
33 61 13 00-0064	LF		6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	426.46	
			For High Density Polyethylene (HDPE) Jacket, Add	6.63	
			For Schedule 80 Pipe, Add	66.29	
33 61 13 00-0065	LF		8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	597.20	
			For High Density Polyethylene (HDPE) Jacket, Add	9.65	
			For Schedule 80 Pipe, Add	96.48	
33 61 13 00-0066	LF		10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	773.26	
			For High Density Polyethylene (HDPE) Jacket, Add	12.73	
			For Schedule 80 Pipe, Add	127.33	
33 61 13 00-0067	LF		12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	962.29	
			For High Density Polyethylene (HDPE) Jacket, Add	15.88	
			For Schedule 80 Pipe, Add	158.84	
33 61 13 00-0068			Standard Black Steel Carrier Pipe <small>(33 61 13 00-0053)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0069	LF		3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	146.30	
			For High Density Polyethylene (HDPE) Jacket, Add	2.39	
			For Schedule 80 Pipe, Add	23.90	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0070	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	160.34	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.63	
			<i>For Schedule 80 Pipe, Add</i>	26.28	
33 61	13 00-0071	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	178.74	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.96	
			<i>For Schedule 80 Pipe, Add</i>	29.60	
33 61	13 00-0072	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	191.30	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.18	
			<i>For Schedule 80 Pipe, Add</i>	31.77	
33 61	13 00-0073	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	200.52	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.32	
			<i>For Schedule 80 Pipe, Add</i>	33.21	
33 61	13 00-0074	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	223.10	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.61	
			<i>For Schedule 80 Pipe, Add</i>	36.10	
33 61	13 00-0075	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	246.93	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.90	
			<i>For Schedule 80 Pipe, Add</i>	38.99	
33 61	13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	311.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.91	
			<i>For Schedule 80 Pipe, Add</i>	49.10	
33 61	13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	395.15	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.28	
			<i>For Schedule 80 Pipe, Add</i>	62.81	
33 61	13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	459.60	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.29	
			<i>For Schedule 80 Pipe, Add</i>	72.92	
33 61	13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	645.44	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.61	
			<i>For Schedule 80 Pipe, Add</i>	106.13	
33 61	13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	836.93	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.01	
			<i>For Schedule 80 Pipe, Add</i>	140.07	
33 61	13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,041.71	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.47	
			<i>For Schedule 80 Pipe, Add</i>	174.72	
33 61	13 00-0082		Standard Black Steel Carrier Pipe <small>(33 61 13 00-0053)</small>		
			Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	151.73	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.50	
			<i>For Schedule 80 Pipe, Add</i>	24.98	
33 61	13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	166.31	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.75	
			<i>For Schedule 80 Pipe, Add</i>	27.47	
33 61	13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	185.47	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.09	
			<i>For Schedule 80 Pipe, Add</i>	30.95	
33 61	13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	198.52	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.32	
			<i>For Schedule 80 Pipe, Add</i>	33.21	
33 61	13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	208.06	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.47	
			<i>For Schedule 80 Pipe, Add</i>	34.72	
33 61	13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	231.30	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.77	
			<i>For Schedule 80 Pipe, Add</i>	37.74	
33 61	13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	255.79	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.08	
			<i>For Schedule 80 Pipe, Add</i>	40.76	
33 61	13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	322.84	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.13	
			<i>For Schedule 80 Pipe, Add</i>	51.33	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 61	13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	409.43 6.57 65.67	
	33 61	13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	476.18 7.62 76.24	
	33 61	13 00-0093	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	669.56 11.10 110.96	
	33 61	13 00-0094	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	868.76 14.64 146.43	
	33 61	13 00-0095	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,081.42 18.27 182.66	
33 61	13 00-0096	Standard Black Steel Carrier Pipe <small>(33 61 13 00-0093)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
	33 61	13 00-0097	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	159.88 2.66 26.61	
	33 61	13 00-0098	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	175.27 2.93 29.27	
	33 61	13 00-0099	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	195.56 3.30 32.97	
	33 61	13 00-0100	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	209.35 3.54 35.38	
	33 61	13 00-0101	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	219.39 3.70 36.99	
	33 61	13 00-0102	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	243.61 4.02 40.20	
	33 61	13 00-0103	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	269.08 4.34 43.42	
	33 61	13 00-0104	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	339.58 5.47 54.67	
	33 61	13 00-0105	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	430.84 7.00 69.95	
	33 61	13 00-0106	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	501.04 8.12 81.21	
	33 61	13 00-0107	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	705.74 11.82 118.19	
	33 61	13 00-0108	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	916.51 15.60 155.98	
	33 61	13 00-0109	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,140.99 19.46 194.58	
33 61	13 00-0110	Preinsulated Black Steel Fittings <small>(33 61 13 00-0052)</small> Note: No excavation or backfill.				
33 61	13 00-0111	Elbows <small>(33 61 13 00-0110)</small>				
33 61	13 00-0112	Elbows <small>(33 61 13 00-0111)</small> Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0113	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	794.43	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.24	
33 61	13 00-0114	EA	1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	820.25	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.55	
33 61	13 00-0115	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	939.64	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.42	
33 61	13 00-0116	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,047.23	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.82	
33 61	13 00-0117	EA	2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,185.37	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.52	
33 61	13 00-0118	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,363.35	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.22	
33 61	13 00-0119	EA	3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,581.11	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.03	
33 61	13 00-0120	EA	4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,845.08	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.53	
33 61	13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,238.99	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.54	
33 61	13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,486.13	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.82	
33 61	13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,517.15	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	51.79	
33 61	13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,598.25	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	66.19	
33 61	13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,927.48	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	87.61	
33 61	13 00-0126		Elbows <small>(33 61 13 00-0111)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0127	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	844.08	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.23	
33 61	13 00-0128	EA	1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	871.06	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.57	
33 61	13 00-0129	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	997.47	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.58	
33 61	13 00-0130	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,110.31	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.08	
33 61	13 00-0131	EA	2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,251.07	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.84	
33 61	13 00-0132	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,431.68	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.59	
33 61	13 00-0133	EA	3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,659.96	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.60	
33 61	13 00-0134	EA	4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,937.07	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.37	
33 61	13 00-0135	EA	5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,357.26	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.90	
33 61	13 00-0136	EA	6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,620.46	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	38.51	
33 61	13 00-0137	EA	8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,711.35	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	55.67	
33 61	13 00-0138	EA	10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,846.48	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	71.16	
33 61	13 00-0139	EA	12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,256.01	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	94.18	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0140				Elbows <small>(33 61 13 00-0111)</small>		
				Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0141	EA			3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	893.72	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.22	
33 61 13 00-0142	EA			1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	921.87	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.58	
33 61 13 00-0143	EA			1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,055.29	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.73	
33 61 13 00-0144	EA			1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,173.39	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.34	
33 61 13 00-0145	EA			2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,316.78	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.15	
33 61 13 00-0146	EA			2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,500.02	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.96	
33 61 13 00-0147	EA			3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,738.81	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.18	
33 61 13 00-0148	EA			4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,029.06	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.21	
33 61 13 00-0149	EA			5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,475.54	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.27	
33 61 13 00-0150	EA			6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,754.80	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	41.20	
33 61 13 00-0151	EA			8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,905.55	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.55	
33 61 13 00-0152	EA			10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,094.70	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	76.12	
33 61 13 00-0153	EA			12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,584.54	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	100.75	
33 61 13 00-0154				Elbows <small>(33 61 13 00-0111)</small>		
				Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0155	EA			3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	943.37	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.22	
33 61 13 00-0156	EA			1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	972.68	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.60	
33 61 13 00-0157	EA			1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,113.11	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.89	
33 61 13 00-0158	EA			1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,236.47	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.61	
33 61 13 00-0159	EA			2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,382.48	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.46	
33 61 13 00-0160	EA			2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,568.35	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.32	
33 61 13 00-0161	EA			3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,817.65	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.76	
33 61 13 00-0162	EA			4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,121.05	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.05	
33 61 13 00-0163	EA			5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,593.81	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	38.64	
33 61 13 00-0164	EA			6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,889.12	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	43.88	
33 61 13 00-0165	EA			8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,099.75	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	63.44	
33 61 13 00-0166	EA			10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,342.93	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	81.09	
33 61 13 00-0167	EA			12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,913.07	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	107.32	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0168			Tees <small>(33 61 13 00-0110)</small>		
33 61 13 00-0169			Tees <small>(33 61 13 00-0168)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0170	EA		3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,181.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.66	
33 61 13 00-0171	EA		1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,220.01	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.12	
33 61 13 00-0172	EA		1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,397.68	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.90	
33 61 13 00-0173	EA		1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,557.97	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.98	
33 61 13 00-0174	EA		2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,764.33	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.02	
33 61 13 00-0175	EA		2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,030.55	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.06	
33 61 13 00-0176	EA		3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,355.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.22	
33 61 13 00-0177	EA		4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,749.21	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.43	
33 61 13 00-0178	EA		5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,338.33	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	46.84	
33 61 13 00-0179	EA		6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,703.28	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	53.20	
33 61 13 00-0180	EA		8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,235.18	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	76.90	
33 61 13 00-0181	EA		10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,850.01	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	98.30	
33 61 13 00-0182	EA		12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	8,825.50	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	130.10	
33 61 13 00-0183			Tees <small>(33 61 13 00-0168)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0184	EA		3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,255.37	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.13	
33 61 13 00-0185	EA		1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,295.46	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.63	
33 61 13 00-0186	EA		1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,483.54	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.61	
33 61 13 00-0187	EA		1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,651.64	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.85	
33 61 13 00-0188	EA		2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,861.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.97	
33 61 13 00-0189	EA		2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,132.02	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.09	
33 61 13 00-0190	EA		3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,472.99	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.57	
33 61 13 00-0191	EA		4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,885.81	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.16	
33 61 13 00-0192	EA		5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,513.96	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	50.35	
33 61 13 00-0193	EA		6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,902.77	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	57.19	
33 61 13 00-0194	EA		8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,523.56	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	82.67	
33 61 13 00-0195	EA		10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,218.62	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	105.67	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 61	13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,313.37	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	139.86	
33 61	13 00-0197			Tees <small>(33 61 13 00-0168)</small>		
				Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,329.09	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.61	
	33 61	13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,370.92	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.14	
	33 61	13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,569.41	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.33	
	33 61	13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,745.31	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.73	
	33 61	13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,959.47	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.92	
	33 61	13 00-0203	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,233.50	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.12	
	33 61	13 00-0204	EA	3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,590.08	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.91	
	33 61	13 00-0205	EA	4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,022.42	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	41.89	
	33 61	13 00-0206	EA	5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,689.59	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	53.86	
	33 61	13 00-0207	EA	6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,102.25	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	61.18	
	33 61	13 00-0208	EA	8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,811.95	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	88.44	
	33 61	13 00-0209	EA	10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,587.23	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	113.04	
	33 61	13 00-0210	EA	12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,801.25	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	149.61	
33 61	13 00-0211			Tees <small>(33 61 13 00-0168)</small>		
				Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0212	EA	3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,402.82	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.08	
	33 61	13 00-0213	EA	1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,446.38	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.65	
	33 61	13 00-0214	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,655.27	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.05	
	33 61	13 00-0215	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,838.98	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.60	
	33 61	13 00-0216	EA	2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,057.05	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.87	
	33 61	13 00-0217	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,334.98	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.15	
	33 61	13 00-0218	EA	3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,707.17	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	38.25	
	33 61	13 00-0219	EA	4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,159.02	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	44.62	
	33 61	13 00-0220	EA	5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,865.23	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	57.37	
	33 61	13 00-0221	EA	6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,301.74	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	65.17	
	33 61	13 00-0222	EA	8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,100.34	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	94.21	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0223	EA	10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,955.85	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	120.41	
33 61	13 00-0224	EA	12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	10,289.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	159.37	
33 61	13 00-0225		Reducers <small>(33 61 13 00-0110)</small>		
33 61	13 00-0226		Reducers <small>(33 61 13 00-0225)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0227	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	668.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.99	
33 61	13 00-0228	EA	1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	690.77	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.25	
33 61	13 00-0229	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	791.73	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.80	
33 61	13 00-0230	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	883.54	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.96	
33 61	13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,005.36	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.54	
33 61	13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,173.40	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.12	
33 61	13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,353.68	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.45	
33 61	13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,574.43	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.36	
33 61	13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,904.91	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.18	
33 61	13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,112.36	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.73	
33 61	13 00-0237	EA	8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,984.38	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.98	
33 61	13 00-0238	EA	10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,907.29	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	54.94	
33 61	13 00-0239	EA	12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,025.73	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	72.72	
33 61	13 00-0240		Reducers <small>(33 61 13 00-0225)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0241	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	709.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.81	
33 61	13 00-0242	EA	1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	732.94	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.09	
33 61	13 00-0243	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	839.72	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.76	
33 61	13 00-0244	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	935.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.01	
33 61	13 00-0245	EA	2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,059.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.63	
33 61	13 00-0246	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,230.11	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.26	
33 61	13 00-0247	EA	3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,419.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.76	
33 61	13 00-0248	EA	4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,650.78	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.89	
33 61	13 00-0249	EA	5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,003.08	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.14	
33 61	13 00-0250	EA	6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,223.86	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0251 EA 8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,145.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	46.21	
33 61 13 00-0252 EA 10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,113.32	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.06	
33 61 13 00-0253 EA 12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,298.42	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	78.17	
33 61 13 00-0254 Reducers <small>(33 61 13 00-0225)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0255 EA 3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	751.10	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.64	
33 61 13 00-0256 EA 1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	775.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.93	
33 61 13 00-0257 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	887.72	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.72	
33 61 13 00-0258 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	988.25	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.06	
33 61 13 00-0259 EA 2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,114.43	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.72	
33 61 13 00-0260 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,286.83	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.39	
33 61 13 00-0261 EA 3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,484.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.07	
33 61 13 00-0262 EA 4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,727.13	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.41	
33 61 13 00-0263 EA 5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,101.24	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.10	
33 61 13 00-0264 EA 6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,335.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.19	
33 61 13 00-0265 EA 8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,306.75	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	49.43	
33 61 13 00-0266 EA 10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,319.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	63.18	
33 61 13 00-0267 EA 12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,571.10	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	83.62	
33 61 13 00-0268 Reducers <small>(33 61 13 00-0225)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0269 EA 3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	792.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.46	
33 61 13 00-0270 EA 1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	817.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.78	
33 61 13 00-0271 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	935.71	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.68	
33 61 13 00-0272 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,040.61	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.10	
33 61 13 00-0273 EA 2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,168.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.82	
33 61 13 00-0274 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,343.55	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.53	
33 61 13 00-0275 EA 3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,550.01	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.38	
33 61 13 00-0276 EA 4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,803.48	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.94	
33 61 13 00-0277 EA 5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,199.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.07	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0278	EA	6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,446.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.42	
33 61 13 00-0279	EA	8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,467.94	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	52.65	
33 61 13 00-0280	EA	10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,525.37	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	67.30	
33 61 13 00-0281	EA	12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,843.78	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	89.08	
33 61 13 00-0282		Preinsulated Type K Copper Pipe <small>(33 61 13 00-0052)</small>		
		Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0283		Type K Copper Carrier Pipe <small>(33 61 13 00-0282)</small>		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0284	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	46.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.41	
33 61 13 00-0285	LF	1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	50.99	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.45	
33 61 13 00-0286	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	55.59	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.51	
33 61 13 00-0287	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	59.15	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.54	
33 61 13 00-0288	LF	2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	62.35	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.57	
33 61 13 00-0289	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	72.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0290	LF	3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	84.55	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.67	
33 61 13 00-0291	LF	4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	107.21	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.84	
33 61 13 00-0292	LF	5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	133.60	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.07	
33 61 13 00-0293	LF	6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	155.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.25	
33 61 13 00-0294	LF	8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	203.83	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.82	
33 61 13 00-0295	LF	10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	254.35	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.40	
33 61 13 00-0296	LF	12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	315.03	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.99	
33 61 13 00-0297		Type K Copper Carrier Pipe <small>(33 61 13 00-0282)</small>		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0298	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	48.88	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.45	
33 61 13 00-0299	LF	1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	53.23	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.49	
33 61 13 00-0300	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	58.12	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.56	
33 61 13 00-0301	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	61.87	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.60	
33 61 13 00-0302	LF	2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.19	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.63	
33 61 13 00-0303	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	75.92	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.68	
33 61 13 00-0304	LF	3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	87.89	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.73	
33 61 13 00-0305	LF	4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	111.41	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0306 LF 5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	138.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.18	
33 61 13 00-0307 LF 6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	162.18	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.37	
33 61 13 00-0308 LF 8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	212.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.00	
33 61 13 00-0309 LF 10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	266.32	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.64	
33 61 13 00-0310 LF 12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	329.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.29	
33 61 13 00-0311 Type K Copper Carrier Pipe <small>(33 61 13 00-0282)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0312 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	49.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.47	
33 61 13 00-0313 LF 1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	54.36	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.52	
33 61 13 00-0314 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	59.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.58	
33 61 13 00-0315 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	63.23	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.63	
33 61 13 00-0316 LF 2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	66.61	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.65	
33 61 13 00-0317 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	77.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.71	
33 61 13 00-0318 LF 3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	89.56	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.77	
33 61 13 00-0319 LF 4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	113.51	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.97	
33 61 13 00-0320 LF 5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	141.66	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.24	
33 61 13 00-0321 LF 6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	165.30	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.43	
33 61 13 00-0322 LF 8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	217.45	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.09	
33 61 13 00-0323 LF 10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	272.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.76	
33 61 13 00-0324 LF 12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	337.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.44	
33 61 13 00-0325 Type K Copper Carrier Pipe <small>(33 61 13 00-0282)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0326 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	51.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.50	
33 61 13 00-0327 LF 1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	56.04	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.55	
33 61 13 00-0328 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	61.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0329 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	65.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.67	
33 61 13 00-0330 LF 2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	68.74	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.70	
33 61 13 00-0331 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	79.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.76	
33 61 13 00-0332 LF 3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	92.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.82	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0333	LF	4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	116.66	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.03	
33 61	13 00-0334	LF	5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	145.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.32	
33 61	13 00-0335	LF	6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	169.98	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.53	
33 61	13 00-0336	LF	8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	224.26	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.22	
33 61	13 00-0337	LF	10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	281.30	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.94	
33 61	13 00-0338	LF	12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	348.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.66	
33 61	13 00-0339		Preinsulated Copper Fittings (33 61 13 00-0052)		
33 61	13 00-0340		Elbows (33 61 13 00-0339)		
33 61	13 00-0341		Elbows (33 61 13 00-0340)		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0342	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	348.18	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.66	
33 61	13 00-0343	EA	1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	362.57	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.77	
33 61	13 00-0344	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	418.03	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.43	
33 61	13 00-0345	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	475.29	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.92	
33 61	13 00-0346	EA	2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	577.28	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.17	
33 61	13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	713.88	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.41	
33 61	13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	830.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.40	
33 61	13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	969.51	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.63	
33 61	13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,130.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.10	
33 61	13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,234.74	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.61	
33 61	13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,718.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.23	
33 61	13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,285.24	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.30	
33 61	13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,886.96	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.83	
33 61	13 00-0355		Elbows (33 61 13 00-0340)		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	365.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.01	
33 61	13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	380.45	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.13	
33 61	13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	438.38	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.83	
33 61	13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	497.49	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.36	
33 61	13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	600.40	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0361 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	737.93	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.89	
33 61 13 00-0362 EA 3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	858.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.96	
33 61 13 00-0363 EA 4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,001.88	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.28	
33 61 13 00-0364 EA 5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,172.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.93	
33 61 13 00-0365 EA 6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,282.02	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.55	
33 61 13 00-0366 EA 8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,786.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.59	
33 61 13 00-0367 EA 10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,372.60	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.04	
33 61 13 00-0368 EA 12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,002.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.15	
33 61 13 00-0369 Elbows <small>(33 61 13 00-0340)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0370 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	383.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.36	
33 61 13 00-0371 EA 1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	398.34	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.48	
33 61 13 00-0372 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	458.73	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.24	
33 61 13 00-0373 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	519.69	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.81	
33 61 13 00-0374 EA 2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	623.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.09	
33 61 13 00-0375 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	761.98	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.38	
33 61 13 00-0376 EA 3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	886.19	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.51	
33 61 13 00-0377 EA 4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,034.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.93	
33 61 13 00-0378 EA 5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,213.90	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.77	
33 61 13 00-0379 EA 6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,329.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.50	
33 61 13 00-0380 EA 8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,854.65	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.96	
33 61 13 00-0381 EA 10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,459.51	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.79	
33 61 13 00-0382 EA 12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,118.54	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.46	
33 61 13 00-0383 Elbows <small>(33 61 13 00-0340)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0384 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	400.60	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.71	
33 61 13 00-0385 EA 1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	416.22	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.84	
33 61 13 00-0386 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	479.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.65	
33 61 13 00-0387 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	541.89	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.25	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0388	EA	2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	646.66	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.55	
33 61	13 00-0389	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	786.03	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.86	
33 61	13 00-0390	EA	3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	913.94	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.07	
33 61	13 00-0391	EA	4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,066.63	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.58	
33 61	13 00-0392	EA	5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,255.53	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.60	
33 61	13 00-0393	EA	6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,376.87	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.44	
33 61	13 00-0394	EA	8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,923.00	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.33	
33 61	13 00-0395	EA	10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,546.88	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.54	
33 61	13 00-0396	EA	12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,234.17	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.77	
33 61	13 00-0397		Tees <small>(33 61 13 00-0397)</small>		
33 61	13 00-0398		Tees <small>(33 61 13 00-0397)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0399	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	518.73	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.92	
33 61	13 00-0400	EA	1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	540.10	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.08	
33 61	13 00-0401	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	622.78	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.06	
33 61	13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	708.28	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.79	
33 61	13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	860.77	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.16	
33 61	13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,065.35	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.52	
33 61	13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,240.52	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.99	
33 61	13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,447.85	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.82	
33 61	13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,690.76	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.48	
33 61	13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,843.39	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.72	
33 61	13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,561.83	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.07	
33 61	13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,412.27	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.60	
33 61	13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,307.30	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	45.79	
33 61	13 00-0412		Tees <small>(33 61 13 00-0397)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	544.67	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.44	
33 61	13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	566.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.61	
33 61	13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	653.00	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0416 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	741.25	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.45	
33 61 13 00-0417 EA 2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	895.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.84	
33 61 13 00-0418 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,101.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.24	
33 61 13 00-0419 EA 3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,281.73	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.81	
33 61 13 00-0420 EA 4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,495.93	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.78	
33 61 13 00-0421 EA 5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,752.58	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.72	
33 61 13 00-0422 EA 6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,913.60	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.13	
33 61 13 00-0423 EA 8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,663.33	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.10	
33 61 13 00-0424 EA 10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,542.01	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.19	
33 61 13 00-0425 EA 12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,479.01	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	49.22	
33 61 13 00-0426 Tees <small>(33 61 13 00-0397)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0427 EA 3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	570.62	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.96	
33 61 13 00-0428 EA 1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	593.21	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.14	
33 61 13 00-0429 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	683.22	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.27	
33 61 13 00-0430 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	774.21	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.11	
33 61 13 00-0431 EA 2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	929.46	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.53	
33 61 13 00-0432 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,136.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.95	
33 61 13 00-0433 EA 3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,322.94	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.64	
33 61 13 00-0434 EA 4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,544.00	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.74	
33 61 13 00-0435 EA 5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,814.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.96	
33 61 13 00-0436 EA 6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,984.25	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.53	
33 61 13 00-0437 EA 8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,763.66	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.13	
33 61 13 00-0438 EA 10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,669.16	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.79	
33 61 13 00-0439 EA 12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,653.70	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	52.66	
33 61 13 00-0440 Tees <small>(33 61 13 00-0397)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0441 EA 3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	596.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.48	
33 61 13 00-0442 EA 1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	619.77	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.68	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0443	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	713.44	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.87	
33 61	13 00-0444	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	807.18	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.77	
33 61	13 00-0445	EA	2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	963.80	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.22	
33 61	13 00-0446	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,172.49	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.67	
33 61	13 00-0447	EA	3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,364.15	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.46	
33 61	13 00-0448	EA	4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,592.08	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.71	
33 61	13 00-0449	EA	5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,876.20	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.19	
33 61	13 00-0450	EA	6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,054.46	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.94	
33 61	13 00-0451	EA	8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,865.16	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.16	
33 61	13 00-0452	EA	10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,798.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.38	
33 61	13 00-0453	EA	12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,825.40	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	56.09	
33 61	13 00-0454		Reducers <small>(33 61 13 00-0339)</small>		
33 61	13 00-0455		Reducers <small>(33 61 13 00-0454)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0456	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	297.08	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.87	
33 61	13 00-0457	EA	1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	309.59	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.96	
33 61	13 00-0458	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	357.24	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.50	
33 61	13 00-0459	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	406.96	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.91	
33 61	13 00-0460	EA	2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	497.84	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.12	
33 61	13 00-0461	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	628.89	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.32	
33 61	13 00-0462	EA	3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	725.43	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.14	
33 61	13 00-0463	EA	4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	842.10	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.17	
33 61	13 00-0464	EA	5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	978.96	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.21	
33 61	13 00-0465	EA	6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,067.35	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.46	
33 61	13 00-0466	EA	8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,482.62	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.13	
33 61	13 00-0467	EA	10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,975.76	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.34	
33 61	13 00-0468	EA	12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,488.29	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.59	
33 61	13 00-0469		Reducers <small>(33 61 13 00-0454)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0470	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	311.59	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0471 EA 1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	324.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.26	
33 61 13 00-0472 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	374.13	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.84	
33 61 13 00-0473 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	425.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.28	
33 61 13 00-0474 EA 2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	517.04	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.50	
33 61 13 00-0475 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	648.85	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.72	
33 61 13 00-0476 EA 3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	748.46	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.60	
33 61 13 00-0477 EA 4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	868.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.70	
33 61 13 00-0478 EA 5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,013.51	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.90	
33 61 13 00-0479 EA 6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,106.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.25	
33 61 13 00-0480 EA 8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,539.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.26	
33 61 13 00-0481 EA 10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,048.27	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.79	
33 61 13 00-0482 EA 12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,584.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.51	
33 61 13 00-0483 Reducers <small>(33 61 13 00-0454)</small> Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0484 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	326.09	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.45	
33 61 13 00-0485 EA 1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	339.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.55	
33 61 13 00-0486 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	391.02	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.18	
33 61 13 00-0487 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	443.82	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.65	
33 61 13 00-0488 EA 2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	536.23	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.89	
33 61 13 00-0489 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	668.81	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.12	
33 61 13 00-0490 EA 3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	771.49	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.06	
33 61 13 00-0491 EA 4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	895.84	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.24	
33 61 13 00-0492 EA 5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,048.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.60	
33 61 13 00-0493 EA 6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,146.07	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.03	
33 61 13 00-0494 EA 8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,595.67	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.40	
33 61 13 00-0495 EA 10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,120.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.24	
33 61 13 00-0496 EA 12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,680.50	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.43	

33 61 13 00-0497 Reducers (33 61 13 00-0454)
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0498 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	340.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.74	
33 61 13 00-0499 EA 1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	354.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.85	
33 61 13 00-0500 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	407.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.52	
33 61 13 00-0501 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	462.24	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.02	
33 61 13 00-0502 EA 2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	555.42	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.27	
33 61 13 00-0503 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	688.77	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.52	
33 61 13 00-0504 EA 3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	794.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.52	
33 61 13 00-0505 EA 4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	922.72	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.78	
33 61 13 00-0506 EA 5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,082.61	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.29	
33 61 13 00-0507 EA 6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,185.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.82	
33 61 13 00-0508 EA 8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,652.40	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.53	
33 61 13 00-0509 EA 10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,192.92	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.69	
33 61 13 00-0510 EA 12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,776.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.35	
33 61 13 00-0511 Preinsulated Ductile Iron Carrier Pipe <small>(33 61 13 00-0052)</small>		
Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0512 Ductile Iron Carrier Pipe <small>(33 61 13 00-0511)</small>		
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0513 LF 4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	152.54	
33 61 13 00-0514 LF 6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	222.79	
33 61 13 00-0515 LF 8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	297.67	
33 61 13 00-0516 LF 10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	375.99	
33 61 13 00-0517 LF 12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	466.42	
33 61 13 00-0518 Ductile Iron Carrier Pipe <small>(33 61 13 00-0511)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0519 LF 4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	161.35	
33 61 13 00-0520 LF 6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	235.88	
33 61 13 00-0521 LF 8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	316.72	
33 61 13 00-0522 LF 10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	401.13	
33 61 13 00-0523 LF 12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	497.78	
33 61 13 00-0524 LF 14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	543.60	
33 61 13 00-0525 LF 16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	610.20	
33 61 13 00-0526 LF 18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	684.16	
33 61 13 00-0527 LF 20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	751.15	
33 61 13 00-0528 LF 24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	884.60	
33 61 13 00-0529 Preinsulated Ductile Iron Fittings <small>(33 61 13 00-0052)</small>		
33 61 13 00-0530 Elbows <small>(33 61 13 00-0529)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0531			Elbows <small>(33 61 13 00-0530)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,398.72	
	33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,834.30	
	33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,574.84	
	33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,393.80	
	33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,333.34	
33 61 13 00-0537			Elbows <small>(33 61 13 00-0530)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,507.58	
	33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,993.27	
	33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,804.65	
	33 61 13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,687.54	
	33 61 13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,722.12	
	33 61 13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,735.78	
	33 61 13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,763.66	
	33 61 13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	8,436.89	
	33 61 13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	10,715.39	
	33 61 13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	13,946.70	
33 61 13 00-0548			Tees <small>(33 61 13 00-0529)</small>		
33 61 13 00-0549			Tees <small>(33 61 13 00-0548)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61 13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,086.37	
	33 61 13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,735.32	
	33 61 13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,835.84	
	33 61 13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,061.39	
	33 61 13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,458.21	
33 61 13 00-0555			Tees <small>(33 61 13 00-0548)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61 13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,248.02	
	33 61 13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,971.39	
	33 61 13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,177.12	
	33 61 13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,497.60	
	33 61 13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	7,035.56	
	33 61 13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	8,365.46	
	33 61 13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	9,867.65	
	33 61 13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	12,310.68	
	33 61 13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	15,644.42	
	33 61 13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	20,359.16	
33 61 13 00-0566			Reducers <small>(33 61 13 00-0529)</small>		
33 61 13 00-0567			Reducers <small>(33 61 13 00-0566)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61 13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,203.95	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0569 EA 6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,571.34	
33 61 13 00-0570 EA 8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,202.27	
33 61 13 00-0571 EA 10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,907.59	
33 61 13 00-0572 EA 12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,702.60	
33 61 13 00-0573 Reducers <small>(33 61 13 00-0566)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0574 EA 4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,294.31	
33 61 13 00-0575 EA 6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,703.29	
33 61 13 00-0576 EA 8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,393.01	
33 61 13 00-0577 EA 10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,151.40	
33 61 13 00-0578 EA 12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,025.29	
33 61 13 00-0579 EA 14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,780.82	
33 61 13 00-0580 EA 16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,631.47	
33 61 13 00-0581 EA 18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,977.05	
33 61 13 00-0582 EA 20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	8,928.32	
33 61 13 00-0583 EA 24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	11,651.04	
33 61 13 00-0584 Tempered Water Piping Pre-Insulated <small>(33 61 13 00-0052)</small>		
33 61 13 00-0585 Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation <small>(33 61 13 00-0584)</small>		
33 61 13 00-0586 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	103.54	25.56
33 61 13 00-0587 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	132.63	30.99
33 61 13 00-0588 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	178.53	32.35
33 61 13 00-0589 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	242.31	40.44
33 61 13 00-0590 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	309.36	49.88
33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation <small>(33 61 13 00-0584)</small>		
33 61 13 00-0592 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	65.25	30.99
33 61 13 00-0593 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	71.44	30.99
33 61 13 00-0594 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	77.20	30.99
33 61 13 00-0595 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	92.83	36.63
33 61 13 00-0596 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	112.72	46.50
33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation <small>(33 61 13 00-0584)</small>		
33 61 13 00-0598 LF 4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	65.25	30.99
33 61 13 00-0599 LF 6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	71.44	30.99
33 61 13 00-0600 LF 8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	77.20	30.99
33 61 13 00-0601 LF 10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	92.83	36.63
33 61 13 00-0602 LF 12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	112.72	46.50

33 70 Electrical Utilities (33)**33 71 Electrical Utility Transmission and Distribution** (33 70)**33 71 19 Electrical Underground Ducts, Ductbanks and Manholes** (33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes (33 71 19)**33 71 19 13-0001 Electrical Handholes And Pull Boxes** (33 71 19 13)**33 71 19 13-0002 Electrical Pull Boxes** (33 71 19 13-0001)

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003 EA 24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,607.49	
33 71 19 13-0004 EA 24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,898.01	



Utilities	33	CS
Electrical Utilities	33 70	
Electrical Utility Transmission and Distribution	33 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0005 EA 30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,173.34	
33 71 19 13-0006 EA 36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,248.54	
33 71 19 13-0007 EA 36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,435.65	
33 71 19 13-0008 EA 48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,680.09	
33 71 19 13-0009 EA 48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,223.67	
33 71 19 13-0010 Electrical Pull Boxes (CALTRANS) (33 71 19 13-0001)		
33 71 19 13-0011 EA Body, CALTRANS 3-1/2 Precast Concrete Pull Box	118.16	
33 71 19 13-0012 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	46.09	
33 71 19 13-0013 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	71.33	
33 71 19 13-0014 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	148.55	
33 71 19 13-0015 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	228.61	
<i>For Galvanized Steel Cover, Add</i>	38.76	
33 71 19 13-0016 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	59.02	
33 71 19 13-0017 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	59.02	
33 71 19 13-0018 EA Body, CALTRANS 5 Precast Concrete Pull Box	169.43	
33 71 19 13-0019 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	61.25	
33 71 19 13-0020 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	86.49	
33 71 19 13-0021 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	302.50	
<i>For Galvanized Steel Cover, Add</i>	71.06	
33 71 19 13-0022 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box	82.70	
33 71 19 13-0023 EA Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	77.49	
33 71 19 13-0024 EA Body, CALTRANS 6 Precast Concrete Pull Box	184.59	
33 71 19 13-0025 EA Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	81.62	
33 71 19 13-0026 EA Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	106.86	
33 71 19 13-0027 EA Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	414.30	
<i>For Galvanized Steel Cover, Add</i>	99.48	
33 71 19 13-0028 EA 12" Extension, CALTRANS 6 Precast Concrete Pull Box	97.86	
33 71 19 13-0029 EA Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	92.18	
33 71 19 13-0030 EA 6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	126.28	
33 71 19 13-0031 EA Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	256.96	
33 71 19 13-0032 EA Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	363.14	
33 71 19 13-0033 EA 12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	116.81	
33 71 19 13-0034 EA Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	107.33	
33 71 19 13-0035 EA Body, CALTRANS 5-T Precast Concrete Pull Box	336.18	
33 71 19 13-0036 EA Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	524.20	
33 71 19 13-0037 EA 12" Extension, CALTRANS 5-T Precast Concrete Pull Box	139.55	
33 71 19 13-0038 EA Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	135.76	
33 71 19 13-0039 EA Body, CALTRANS 6-T Precast Concrete Pull Box	474.50	
33 71 19 13-0040 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	732.64	
33 71 19 13-0041 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box	234.29	
33 71 19 13-0042 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	183.13	
33 71 19 13-0043 Electrical Property Line Boxes (33 71 19 13)		
33 71 19 13-0044 EA 3'-6" x 2'-9" x 2' Deep Property Line Box	2,829.92	387.40
33 71 19 13-0045 EA 4'-6" x 3'-6" x 4' Deep Property Line Box	3,278.35	401.75
33 71 19 13-0046 EA 6' x 4' x 5' Deep Property Line Box	3,638.68	487.83
33 71 19 13-0047 EA 11'-6" x 4'-6" x 6' Deep Property Line Box	5,545.10	717.41
33 71 19 13-0048 Manhole Accessories (33 71 19 13)		
33 71 19 13-0049 EA 6" Precast Grade Ring Riser Casting	597.96	
33 71 19 13-0050 EA 12" Precast Grade Ring Riser Casting	647.56	
33 71 19 13-0051 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	2,141.38	
33 71 19 13-0052 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1)	2,788.67	
33 71 19 13-0053 EA Cast Iron Adjusting Ring (NEENAH #R-1979)	929.53	
33 71 19 13-0054 EA Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,171.70	
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)		
33 71 19 23-0001 Underground Electrical Concrete Markers (33 71 19 23)		
33 71 19 23-0002 EA 36" x 6" x 6", Underground Electric Concrete Marker	413.77	

END OF SECTION 33

33 Utilities

33 70 Electrical Utilities

33 71 Electrical Utility Transmission and Distribution

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 Transportation

34 40 Transportation Signaling and Control Equipment ⁽³⁴⁾

34 41 Roadway Signaling and Control Equipment ^(34 40)

34 41 13 Traffic Signals ^(34 41)

34 41 13 00-0001 Traffic Signals ^(34 41 13)

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern.....	5,561.25	896.27
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34 41 13 00-0003 Traffic Detector Induction Loop ^(34 41 13)

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	401.08	
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	500.04	
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	579.18	
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	490.92	
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	852.02	
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,032.34	
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,114.26	
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,338.65	
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,458.94	
34 41 13 00-0013	EA	6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,543.65	
34 41 13 00-0014	EA	6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,690.58	
34 41 13 00-0015	LF	In Pavement, Lead Wire For Traffic Signal Detector..... Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	7.13	
34 41 13 00-0016	LF	In Earthwork, Lead Wire For Traffic Signal Detector..... Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	3.41	
34 41 13 00-0017	EA	2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	242.94	
34 41 13 00-0018	EA	4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	656.83	
34 41 13 00-0019	EA	2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	413.98	

34 41 13 00-0020 Overhead Traffic Signals ^(34 41 13)

34 41 13 00-0021	EA	Vehicle Signal Face, LED, 1 - 12" Section.....	565.49	190.45
34 41 13 00-0022	EA	Vehicle Signal Face, LED, 2 - 12" Sections.....	901.43	268.87
34 41 13 00-0023	EA	Vehicle Signal Face, LED, 3 - 12" Sections.....	1,242.06	328.63
34 41 13 00-0024	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	1,187.24	328.63
34 41 13 00-0025	EA	Vehicle Signal Face, LED, 4 - 12" Sections.....	1,554.32	365.97
34 41 13 00-0026	EA	Vehicle Signal Face, LED, 5 - 12" Sections.....	1,836.71	388.38
34 41 13 00-0027	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	1,942.70	388.38
34 41 13 00-0028	EA	Vehicle Signal Face, LED, 1 - 8" Section.....	538.07	190.45
34 41 13 00-0029	EA	Vehicle Signal Face, LED, 2 - 8" Sections.....	846.61	268.87
34 41 13 00-0030	EA	Vehicle Signal Face, LED, 3 - 8" Sections.....	1,108.65	328.63
34 41 13 00-0031	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	1,176.27	328.63
34 41 13 00-0032	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections.....	1,437.36	365.97
34 41 13 00-0033	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,398.98	365.97
34 41 13 00-0034	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections.....	1,635.68	388.38
34 41 13 00-0035	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	1,721.58	388.38
34 41 13 00-0036	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	2,375.11	328.63
34 41 13 00-0037	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	3,076.62	365.97
34 41 13 00-0038	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	3,974.88	388.38
34 41 13 00-0039	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	4,294.70	388.38
34 41 13 00-0040	EA	Bracket Signal Mounting Assembly.....	529.02	149.37
34 41 13 00-0041	EA	Mast Arm Signal Mounting Assembly.....	952.05	298.76
34 41 13 00-0042	EA	Top Pole Signal Mounting Assembly.....	337.36	112.04
34 41 13 00-0043	EA	Pedestrian Signal Head.....	941.55	224.06

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0044 EA Pedestrian Signal Insert.....	569.46	112.04
34 41 13 00-0045 EA Audible Pedestrian Signal.....	1,156.72	
34 41 13 00-0046 EA Junction Box, Pole Or Post Mounted.....	438.05	
34 41 13 00-0047 EA Pedestrian Push Button.....	428.00	
34 41 13 00-0048 EA Illuminated Sign, Bracket Mounted, Symbolic.....	2,967.77	
34 41 13 00-0049 EA Illuminated Sign, Mast Arm Mounted, Symbolic.....	3,121.19	
34 41 13 00-0050 EA Sign, Message, "BLANK OUT", Bracket Mounted.....	3,232.00	
34 41 13 00-0051 EA Sign, Message, "BLANK OUT", Mast Arm Mounted.....	3,453.15	
34 41 13 00-0052 EA Sign, Fiber Optic, Bracket Mounted.....	3,631.80	
34 41 13 00-0053 EA Sign, Fiber Optic, Mast Arm Mounted.....	3,857.74	
34 41 13 00-0054 EA 16" Pedestal With Base Plate And Cover.....	1,530.87	208.78
34 41 13 00-0055 EA 30' Type 15TS Signal And Lighting Standard.....	5,541.26	
Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0056 EA 35' Type 21TS Signal And Lighting Standard.....	6,347.32	
Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0057 EA 17' Type 18-2-100 Signal And Lighting Standard.....	3,226.00	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0058 EA 17' Type 18-3-100 Signal And Lighting Standard.....	3,537.22	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0059 EA 17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard.....	3,656.52	
Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0060 EA 17' Type 23-3-100 Signal And Lighting Standard.....	3,656.52	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0061 EA 17' Type 23-4-100 Signal And Lighting Standard.....	3,719.15	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0062 EA 17' Type 27-3-100 Signal And Lighting Standard.....	4,032.33	
Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0063 EA 17' Type 27-4-100 Signal And Lighting Standard.....	4,104.35	
Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0064 EA 17' Type 28-5-100 Signal And Lighting Standard.....	4,252.01	
Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0065 EA 17' Type 60-5-100 Signal And Lighting Standard.....	4,484.57	
Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0066 EA 18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard.....	3,409.08	
Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0067 EA 30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard.....	5,868.04	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0068 EA 30' Type 19-2-100 Signal And Lighting Standard.....	6,521.60	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0069 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard.....	6,772.13	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0070 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard.....	6,772.13	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0071 EA 30' Type 26-3-100 Signal And Lighting Standard.....	7,561.30	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0072 EA 30' Type 26-4-100 Signal And Lighting Standard.....	7,863.83	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0073 EA 30' Type 29-5-100 Signal And Lighting Standard.....	8,181.46	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0074 EA 30' Type 61-5-100 Signal And Lighting Standard.....	8,681.76	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0075 EA 35' Type 17A-2-100 Signal And Lighting Standard.....	6,810.07	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0076 EA 35' Type 19A-2-100 Signal And Lighting Standard.....	7,572.56	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0077 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard.....	7,864.86	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0078 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard.....	7,864.86	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0079 EA 35' Type 26A-3-100 Signal And Lighting Standard.....	8,785.55	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0080 EA 35' Type 26A-4-100 Signal And Lighting Standard.....	9,138.49	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0081 EA 35' Type 29A-5-100 Signal And Lighting Standard.....	9,509.07	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0082 EA 35' Type 61A-5-100 Signal And Lighting Standard.....	10,092.74	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0083 EA 15' Steel Straight Mast Arm, MONOTUBE.....	2,525.54	
34 41 13 00-0084 EA 20' Steel Straight Mast Arm, MONOTUBE.....	2,658.69	
34 41 13 00-0085 EA 25' Steel Straight Mast Arm, MONOTUBE.....	2,825.95	
34 41 13 00-0086 EA 30' Steel Straight Mast Arm, MONOTUBE.....	3,672.29	
34 41 13 00-0087 EA 35' Steel Straight Mast Arm, MONOTUBE.....	4,358.50	
34 41 13 00-0088 EA 40' Steel Straight Mast Arm, MONOTUBE.....	4,660.15	
34 41 13 00-0089 EA 45' Steel Straight Mast Arm, MONOTUBE.....	5,149.94	
34 41 13 00-0090 EA 4' Steel Curved Luminaire Mast Arm.....	888.40	
34 41 13 00-0091 EA 6' Steel Curved Luminaire Mast Arm.....	1,146.08	
For High Rise Arm, Add	77.81	
34 41 13 00-0092 EA 8' Steel Curved Luminaire Mast Arm.....	1,433.64	
34 41 13 00-0093 EA 10' Steel Curved Luminaire Mast Arm.....	2,044.19	
For High Rise Arm, Add	114.53	
34 41 13 00-0094 EA 12' Steel Curved Luminaire Mast Arm.....	2,222.45	
For High Rise Arm, Add	135.07	
34 41 13 00-0095 EA 15' Steel Curved Luminaire Mast Arm.....	2,284.86	
For High Rise Arm, Add	150.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0096	EA	15' Tubular Aluminum Post.....	957.77	
34 41	13 00-0097	EA	17' Tubular Aluminum Post.....	1,029.35	
34 41	13 00-0098	EA	20' Tubular Aluminum Post.....	1,153.73	
34 41	13 00-0099	EA	CUT-OFF POLE AND CAPPED.....	198.32	
34 41	13 00-0100	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	57.99	
34 41	13 00-0101	EA	PAINT EXISTING TS POST COMPLETE.....	281.19	
34 41	13 00-0102	EA	1 Channel Loop Detector Amplifier.....	1,194.58	
34 41	13 00-0103	EA	4 Channel Loop Detector Amplifier.....	2,185.36	
34 41	13 00-0104	EA	FLASHING BEACON WITH DOWNLIGHT.....	1,955.49	
34 41	13 00-0105	EA	Flashing Beacon, Bracket Mounted.....	781.04	
34 41	13 00-0106	EA	Flashing Beacon, Mast Arm Mounted.....	781.04	
34 41	13 00-0107	EA	Flashing Beacon, Solar Powered, Bracket Mounted.....	15,786.64	
34 41	13 00-0108	EA	Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	3,366.42	
34 41	13 00-0109	EA	Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	1,823.90	
34 41	13 00-0110	EA	Smart Sensor HD (Wavetronix HD125).....	9,557.86	
34 41	13 00-0111	EA	Access Point (Sensys AP240-ES).....	4,438.40	
			Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41	13 00-0112	EA	Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	7,656.56	
34 41	13 00-0113	EA	Mounting Kit for Access Points and Repeaters (KIT-MTG).....	289.00	
34 41	13 00-0114	EA	Repeater (Sensys RP240-B-LL).....	2,034.89	
			Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41	13 00-0115	EA	Wireless Flush Mounted Sensor (Sensys VSN240-F).....	937.14	
			Note: Excludes coring.		
34 41	13 00-0116	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug.....	2,359.17	
34 41	13 00-0117	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	6,088.99	2.00
34 41	13 00-0118	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	7,957.40	2.00
34 41	13 00-0119	EA	Pole Base Foundation for Type 15 and 21 Poles.....	4,759.27	2.00
34 41	13 00-0120	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	6,088.99	2.00
34 41	13 00-0121	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	7,957.40	2.00
34 41	13 00-0122	EA	LED Enhanced Pedestrian Crossing Symbol Sign.....	1,693.64	125.01
			Note: 2 required per system.		
34 41	13 00-0123	EA	42" Height, 8-1/2" Diameter Automatic Bollard Activation System.....	4,989.21	750.10
			Note: 4 required per system.		
34 41	13 00-0124	EA	Power Control Unit With Enclosure (Solar).....	16,466.17	500.06
			Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41	13 00-0125	EA	Power Control Unit With Enclosure (A/C).....	10,651.32	500.06
34 41	13 00-0126	EA	Push Button Assembly With Sign.....	1,042.94	250.03
34 41	13 00-0127	EA	Advanced Warning Signs.....	1,935.68	250.03
34 41	13 00-0128	EA	Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	5,630.27	
34 41	13 00-0129	EA	Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	5,785.61	
34 41	13 00-0130	EA	Traffic Signal Controller Unit, TS 2 Type 2 Econolite Model ASC/2S-2100.....	48,211.02	
34 41	13 00-0131	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	1,077.52	
34 41	13 00-0132	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	1,168.89	
34 41	13 00-0133	EA	Optical Detector For Mast Arm Mounting, 2 Channel.....	1,468.60	
34 41	13 00-0134	EA	2 Channel Phase Selector.....	3,129.47	
34 41	13 00-0135	EA	4 Channel Phase Selector.....	4,856.46	
34 41	13 00-0136	EA	Malfunction Management Unit For Use With NEMA Controller.....	1,598.83	
34 41	13 00-0137	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	1,077.52	273.66
34 41	13 00-0138	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	1,168.89	273.66
34 41	13 00-0139	EA	Optical Detector For Pole-Side Mounting, 2 Channel.....	1,468.60	273.66
34 41	13 00-0140	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	1,077.52	273.66
34 41	13 00-0141	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	1,168.89	273.66
34 41	13 00-0142	EA	Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,468.60	273.66
34 41	13 00-0143	EA	Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	1,077.52	273.66
34 41	13 00-0144	EA	Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	1,168.89	273.66
34 41	13 00-0145	EA	Optical Detector For Span Wire Mounting, 2 Channel.....	1,468.60	273.66
34 41	13 00-0146	EA	Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	1,077.52	273.66
34 41	13 00-0147	EA	Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	1,168.89	273.66
34 41	13 00-0148	EA	Optical Detector For Signal Top Mounting, 2 Channel.....	1,468.60	273.66
34 41	13 00-0149	EA	Time Switch, 1-Circuit.....	285.00	
34 41	13 00-0150	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	322.95	
34 41	13 00-0151	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	419.81	
34 41	13 00-0152	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	593.43	
34 41	13 00-0153	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	743.28	
34 41	13 00-0154	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply.....	2,004.25	
34 41	13 00-0155	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	2,004.25	
34 41	13 00-0156	EA	Power Line Surge Protector - Edco SHP 300-10.....	189.36	
34 41	13 00-0157	EA	Loop Detector Surge Protector - Edco SRA-6LC.....	98.83	
34 41	13 00-0158	EA	Controller Cabinet (Econolite Type "O").....	28,030.89	
34 41	13 00-0159	EA	Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	12,539.17	
34 41	13 00-0160	EA	Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	13,580.85	
34 41	13 00-0161	EA	Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	14,832.68	
34 41	13 00-0162	EA	Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	15,216.46	
34 41	13 00-0163	EA	Speed Limit Beacon Control Cabinet.....	6,361.27	
34 41	13 00-0164	EA	Remote Detector Cabinet.....	3,528.64	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 41 13 00-0165	EA		Traffic Signal Hand Control.....	938.38	
34 41 13 00-0166	EA		Extra Pedestrian Detector Isolation Assembly.....	755.64	
34 41 13 00-0167	EA		Fiber Optic Transceivers-Repeater Module.....	1,090.70	
34 41 13 00-0168	EA		Field Transceiver-Repeater.....	491.45	
34 41 13 00-0169	EA		Load Switch.....	91.79	
34 41 13 00-0170	EA		30" Pedestal With Base Plate And Cover.....	809.35	
34 41 13 00-0171	EA		8" Pedestal With Base Plate And Cover.....	1,173.29	
34 41 13 00-0172	EA		11" Pedestal With Base Plate And Cover.....	1,304.21	
34 41 13 00-0173	EA		15" Pedestal With Base Plate And Cover.....	1,454.73	
34 41 13 00-0174	LF		6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.60	
34 41 13 00-0175	LF		12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.73	
34 41 13 00-0176	LF		24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.97	
34 41 13 00-0177	LF		36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.23	
34 41 13 00-0178	LF		48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.48	
34 41 13 00-0179	LF		72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.88	
34 41 13 00-0180	LF		96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.26	
34 41 13 00-0181	LF		144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.96	
34 41 13 00-0182	LF		3/16" Diameter Messenger Cable.....	0.52	0.10
34 41 13 00-0183	LF		1/4" Diameter Messenger Cable.....	0.60	0.10
34 41 13 00-0184	LF		3/8" Diameter Messenger Cable.....	1.11	0.10
34 41 13 00-0185	LF		1/2" Diameter Messenger Cable.....	2.25	0.21
34 41 13 00-0186	EA		4' Diameter x 10' Concrete Base For Poles.....	3,038.73	
			Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0187	EA		4' Diameter x 16' Concrete Base For Poles.....	4,843.02	
			Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0188	EA		Internally Illuminated Street Name Sign, 1 Line, 4'.....	2,498.11	298.76
34 41 13 00-0189	EA		Internally Illuminated Street Name Sign, 1 Line, 6'.....	3,086.08	373.45
34 41 13 00-0190	EA		Internally Illuminated Street Name Sign, 1 Line, 8'.....	3,381.67	448.13
34 41 13 00-0191	EA		Internally Illuminated Street Name Sign, 1 Line, 10'.....	3,823.44	522.82
34 41 13 00-0192	EA		Internally Illuminated Street Name Sign, 1 Line, 12'.....	4,119.01	597.51
34 41 13 00-0193	EA		Internally Illuminated Street Name Sign, 2 Line, 4'.....	3,879.70	298.76
34 41 13 00-0194	EA		Internally Illuminated Street Name Sign, 2 Line, 6'.....	4,782.00	373.45
34 41 13 00-0195	EA		Internally Illuminated Street Name Sign, 2 Line, 8'.....	5,179.93	448.13
34 41 13 00-0196	EA		Internally Illuminated Street Name Sign, 2 Line, 10'.....	5,797.14	522.82
34 41 13 00-0197	EA		Internally Illuminated Street Name Sign, 2 Line, 12'.....	6,238.91	597.51
34 41 13 00-0198	EA		Photoelectric Controller, Multi-Volt.....	98.56	35.58
34 41 13 00-0199	EA		Photoelectric Controller, 120 Volt.....	105.38	35.58
34 41 13 00-0200	EA		Photoelectric Controller, 480 Volt.....	105.38	35.58
34 41 13 00-0201	EA		Wi-Fi Communication Unit.....	1,302.06	149.37
34 41 13 00-0202	EA		Wi-Fi Communication Unit Mounting Bracket.....	315.44	112.04
34 41 13 00-0203	EA		Wi-Fi Communication Unit Power Supply / POE Injector.....	275.47	74.69
34 41 13 00-0204	EA		Wi-Fi Communication Unit Packet.....	2,341.10	224.06
34 41 13 00-0205	LF		Preemptor Detector Cable.....	2.26	
34 41 13 00-0206	EA		Sno-Shoe Cable Storage Assembly.....	249.29	

34 41 13 00-0207 Traffic Signal Cable (34 41 13)

34 41 13 00-0208	LF		16 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	2.28	1.03
34 41 13 00-0209	LF		16 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.51	1.12
34 41 13 00-0210	LF		16 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.75	1.19
34 41 13 00-0211	LF		16 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.97	1.26
34 41 13 00-0212	LF		16 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	3.23	1.33
34 41 13 00-0213	LF		16 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	3.70	1.49
34 41 13 00-0214	LF		16 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	4.32	1.70
34 41 13 00-0215	LF		16 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	4.93	1.93
34 41 13 00-0216	LF		16 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	5.74	2.15
34 41 13 00-0217	LF		16 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	6.66	2.38
34 41 13 00-0218	LF		14 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	2.33	1.03
34 41 13 00-0219	LF		14 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.59	1.12
34 41 13 00-0220	LF		14 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.85	1.19
34 41 13 00-0221	LF		14 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	3.08	1.26
34 41 13 00-0222	LF		14 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	3.37	1.33
34 41 13 00-0223	LF		14 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	3.88	1.49
34 41 13 00-0224	LF		14 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	4.54	1.70
34 41 13 00-0225	LF		14 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	5.20	1.93
34 41 13 00-0226	LF		14 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	6.10	2.15
34 41 13 00-0227	LF		14 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	7.14	2.38
34 41 13 00-0228	LF		12 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	2.45	1.03
34 41 13 00-0229	LF		12 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.76	1.12
34 41 13 00-0230	LF		12 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	3.07	1.19
34 41 13 00-0231	LF		12 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	3.35	1.26
34 41 13 00-0232	LF		12 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	3.70	1.33
34 41 13 00-0233	LF		12 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	4.32	1.49
34 41 13 00-0234	LF		12 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	5.09	1.70
34 41 13 00-0235	LF		12 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	5.85	1.93
34 41 13 00-0236	LF		12 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	6.96	2.15
34 41 13 00-0237	LF		12 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	8.29	2.38

34 41 13 00-0238 School Zone Flasher Beacons (34 41 13)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0239 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,967.54	225.67
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0240 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,002.25	225.67
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0241 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,591.65	225.67
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0242 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,702.74	225.67
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0243 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ...	10,394.63	225.67
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0244 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ...	10,829.99	225.67
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0245	Traffic Light Control Synchronization <small>(34 41 13)</small>	
34 41 13 00-0246 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	4,360.33	
34 41 13 00-0247 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	3,287.03	
34 41 13 00-0248 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	7,761.57	
34 41 13 00-0249 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	5,204.60	
34 41 13 00-0250 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	5,204.60	
34 41 13 00-0251 EA Solar Cabinet Assembly	14,389.21	
34 41 13 00-0252 EA Data Controller Interface Cable Assembly	593.59	
34 41 13 00-0253 EA 900 MHz Splitter.....	657.43	
34 41 13 00-0254 EA 900 MHz Surge Suppressor.....	233.29	
34 41 13 00-0255 EA Surge-Radio Lead in Cable.....	146.54	
34 41 13 00-0256 EA 12DB GAIN YAGI Antenna	703.15	
34 41 13 00-0257 EA PELCO Antenna Mounting Bracket	491.34	
34 41 13 00-0258 MLF Coaxial Cable, LMR-400.....	3,562.65	
34 41 13 00-0259 EA Perle 16 Port Serial Server.....	4,111.50	
34 41 13 00-0260 EA Serial to Ethernet Card	2,036.25	
34 41 13 00-0261 EA 404 Stand Alone Modem (GDI 404).....	1,798.72	
34 41 13 00-0262	Traffic Signal Controls <small>(34 41 13)</small>	
34 41 13 00-0263 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,635.06	
34 41 13 00-0264 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	630.35	
34 41 13 00-0265 EA AccessBox for contract closure master card (CC-ACC)	225.54	
34 41 13 00-0266 EA Flush Mount Wireless Sensor (ATT VSN240-F)	874.49	
34 41 13 00-0267 EA Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	874.49	
34 41 13 00-0268 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	135.96	
34 41 13 00-0269 EA SNAPS License for each enabled AP (SNAPS-PER-AP).....	365.07	
34 41 13 00-0270	Traffic Signal Devices <small>(34 41 13)</small>	
34 41 13 00-0271 EA 12" Polycarbonate Signal Head Housing (McCain)	851.27	112.51
34 41 13 00-0272 EA 16" Polycarbonate Pedestrian Signal Housing (McCain)	449.00	87.51
34 41 13 00-0273 EA Pedestrian Push Button Cap & Switch (McCain M31334)	387.66	162.52
34 41 13 00-0274 EA Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	537.68	237.53
34 41 13 00-0275 EA Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793).....	415.75	187.52
34 41 13 00-0276 EA 16 Channel Conflict Monitor (McCain 2010 ECLip).....	1,234.96	81.26
34 41 13 00-0277 EA LED Countdown Head (McCain GTX PS7-CFF1-VLA)	261.34	31.25
34 41 13 00-0278 EA Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	2,772.17	137.52
34 41 13 00-0279 EA Camera processor card (Iteris Edge Connect).....	6,271.05	200.02
34 41 13 00-0280 EA Wireless Broadband Radio (Encom BB58)	5,921.18	187.52
34 41 13 00-0281 EA 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900).....	3,924.39	150.02
34 41 13 00-0282 EA Power Adapter (Mean Well DR-120-48)	158.90	46.89
34 41 13 00-0283 LF 14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.01	
34 41 13 00-0284 EA Radar Detection System (Wavetronix Matrix)	11,568.39	475.06
34 41 13 00-0285 EA Pedestrian Audio Push Button (Polaris APS)	393.75	118.77
34 41 13 00-0286 EA Opticom Infrared System - Detector (GTT 711)	921.29	111.51
34 41 13 00-0287 EA Opticom Infrared System - Detector (GTT 721)	1,030.76	124.76
34 41 13 00-0288 EA Opticom Infrared System - Detector (GTT 722)	1,435.63	173.77
34 41 13 00-0289 EA Opticom Multimode Phase Selector (GTT 764)	4,512.51	102.77
34 41 13 00-0290 LF Opticom GPS Installation Cable (GTT 1070)	1.20	
34 41 13 00-0291 EA Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	774.76	
34 41 13 00-0292 EA Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	821.50	
34 41 13 00-0293 EA UPS Module (Alpha Technologies FXM 350)	1,245.18	68.41
Note: For battery backup in traffic signal control cabinet		
34 41 13 00-0294 EA Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual).....	409.90	56.26
Note: To control flashing "School" signs		
34 41 13 00-0295 LF Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR)	8.79	0.57
34 41 13 00-0296 LF Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	2.28	0.49

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0297	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	137.60	56.26
34 41	13 00-0298	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	137.60	56.26
34 41	13 00-0299	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	137.60	56.26
34 41	13 00-0300	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	137.60	56.26
34 41	13 00-0301	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	137.60	56.26
34 41	13 00-0302	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	137.60	56.26
34 41	13 00-0303	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	396.59	143.76
34 41	13 00-0304	EA	EOC Switch (Actellis ML688).....	4,657.82	444.69
34 41	13 00-0305	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,245.91	102.62
34 41	13 00-0306	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	109.79	27.05
34 41	13 00-0307	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	363.27	39.15
34 41	13 00-0308	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	133.15	27.05
34 41	13 00-0309	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	435.59	39.15
34 41	13 00-0310	EA	Battery Back-up (Alpha FXM110 UPS).....	2,939.08	136.83
34 41	13 00-0311	EA	Battery (Alpha AlphaCell 220GXL).....	423.79	34.21
34 41	13 00-0312	EA	BBS Cabinet (Alpha SE48-1616).....	3,458.83	307.86
34 41	13 00-0313	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	6.41	2.67
34 41	13 00-0314	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.85	1.23
34 41	13 00-0315	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,078.21	102.62
34 41	13 00-0316	EA	12" THREE SECTION HOUSING (McCain M22435).....	740.99	68.41
34 41	13 00-0317	EA	12" FOUR SECTION HOUSING (McCain M30883).....	960.44	102.62
34 41	13 00-0318	EA	12" FIVE SECTION HOUSING (McCain M31769).....	1,111.48	102.62
34 41	13 00-0319	EA	12" CLUSTER, WITHOUT MAS (McCain M30987).....	1,187.00	102.62
34 41	13 00-0320	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	740.99	68.41
34 41	13 00-0321	EA	NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polar iN250N0-B).....	740.99	68.41
34 41	13 00-0322	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polar iCCU-C).....	4,254.90	239.45
34 41	13 00-0323	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polar iN2-ICB-C).....	219.45	34.21
34 41	13 00-0324	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polar iN2-150-WPS-C).....	219.45	34.21
34 41	13 00-0325	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polar iN2-c4cable-C).....	480.22	51.31
34 41	13 00-0326	EA	12" Visor (McCain M19302).....	42.46	13.69
34 41	13 00-0327	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	404.70	51.31
34 41	13 00-0328	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	665.47	68.41
34 41	13 00-0329	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,224.76	102.62
34 41	13 00-0330	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	665.47	68.41
34 41	13 00-0331	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	143.93	34.21
34 41	13 00-0332	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	404.70	51.31
34 41	13 00-0333	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	740.99	68.41
34 41	13 00-0334	EA	24L ISOLATOR, EDI (McCain M56812).....	143.93	34.21
34 41	13 00-0335	EA	EDI 222 DETECTOR (McCain M11407).....	181.69	34.21
34 41	13 00-0336	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	2,909.75	171.03
34 41	13 00-0337	EA	GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2).....	499.33	68.41
34 41	13 00-0338	EA	BBS BATTERY, ALPHACELL 165GX (McCain M59884).....	665.47	68.41
34 41	13 00-0339	EA	Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A).....	1,375.80	102.62

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41	16 00-0002	EA	CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	7,718.01	1,032.49
34 41	16 00-0003	EA	CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	7,836.95	1,091.95
34 41	16 00-0004	EA	CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	9,392.68	1,104.79
34 41	16 00-0005	EA	CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	11,185.30	1,341.41
34 41	16 00-0006	EA	CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	8,886.13	661.74
34 41	16 00-0007	EA	CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	9,845.68	724.48
34 41	16 00-0008	EA	CONTROLLER, TS, 12-BAY, "M" CABINET.....	16,179.16	1,139.00
34 41	16 00-0009	EA	CONTROLLER, TS, 12-BAY, "P" CABINET.....	17,255.55	1,262.24
34 41	16 00-0010	EA	CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	24,416.08	1,419.09
34 41	16 00-0011	EA	CONTROLLER, TS, 16-BAY, "P" CABINET.....	19,494.67	1,344.39
34 41	16 00-0012	EA	CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	657.99	157.89
34 41	16 00-0013	EA	CONCRETE BLOCK PEDESTAL.....	932.56	237.07
34 41	16 00-0014	WK	MAINTAIN EXIST TS INSTALLATION.....	380.08	190.03
34 41	16 00-0015	EA	INST SIGN BOARDS, ST. NAME.....	649.30	312.65
34 41	16 00-0016	EA	F.O. ADD-IN FOR LOCAL CONTROLLER.....	8,117.13	427.93
34 41	16 00-0017	EA	F.O. ADD-IN FOR MASTER CONTROLLER.....	19,334.81	642.07
34 41	16 00-0018	EA	PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	871.00	17.81
34 41	16 00-0019	EA	Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU).....	498.47	17.81

34 41 16 00-0020 Transportation Cabinets (34 41 16)**34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)**

34 41	16 00-0022	EA	50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	2,366.70	205.24
34 41	16 00-0023	EA	66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	9,780.60	205.24
34 41	16 00-0024	EA	46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,218.75	205.24
34 41	16 00-0025	EA	50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	2,366.70	205.24
34 41	16 00-0026	EA	60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	10,109.37	205.24
34 41	16 00-0027	EA	55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,561.20	205.24

34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)



Transportation	34
Transportation Signaling and Control Equipment	34 40
Roadway Signaling and Control Equipment	34 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0029 EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017) Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.	5,641.13	239.45
34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)		
34 41 16 00-0031 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,235.43	205.24
34 41 16 00-0032 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	2,769.73	218.92
34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)		
34 41 16 00-0034 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	10,205.97	239.45
34 41 16 00-0035 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	10,205.97	239.45
34 41 16 00-0036 EA ATC ColdFire Controller (McCain 170)	5,301.26	
34 41 16 00-0037 Traffic Control Equipment (34 41 16)		
34 41 16 00-0038 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	290.26	68.41
34 41 16 00-0039 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	373.40	68.41
34 41 16 00-0040 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	426.20	68.41
34 41 16 00-0041 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	336.43	68.41
34 41 16 00-0042 MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	2,686.45	750.10
34 41 16 00-0043 EA Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	119.10	34.21
34 41 16 00-0044 EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	505.30	75.22
34 41 16 00-0045 EA Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	2,580.44	225.67
34 41 16 00-0046 EA Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	465.50	34.21
34 41 16 00-0047 EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	659.83	34.21
34 41 16 00-0048 EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	770.49	68.41
34 41 16 00-0049 EA Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005).....	3,279.79	68.41
34 41 16 00-0050 EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	451.34	225.67
34 41 16 00-0051 EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	493.03	56.41
34 41 16 00-0052 EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	437.71	75.22
34 41 16 00-0053 EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	285.63	75.22
34 41 16 00-0054 EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	296.53	34.21
34 41 16 00-0055 EA 24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202).....	355.67	34.21
34 41 16 00-0056 EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	169.80	34.21
34 41 16 00-0057 EA Power, RS232/RS485 Surge, Wavetronix Smartsensor (Wavetronix WX-CLK-200).....	473.95	34.21
34 41 16 00-0058 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	533.10	34.21
34 41 16 00-0059 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	659.83	34.21
34 41 16 00-0060 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	68.41	34.21
34 41 16 00-0061 EA Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	446.16	75.22
34 41 16 00-0062 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400).....	3,108.89	750.10
34 41 16 00-0063 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	59.64	20.52
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	877.79	82.10
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1).....	862.47	102.62
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	200.10	34.21
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	150.09	34.21
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2).....	462.33	34.21
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	196.75	34.21
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600).....	87.64	34.21
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)..... Note: Input/Output for sign peripherals.	643.76	68.41
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)..... Note: Input/Output for sign peripherals.	643.76	68.41
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)..... Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.	1,192.93	68.41
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,192.93	68.41
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)..... Note: Measures temperature and detects light and reports to CAN Dist Board.	424.09	68.41
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	593.07	68.41
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)..... Note: Measures temperature and detects light and humidity and reports to CAN Dist board.	593.07	68.41
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)..... Note: Measures temperature and detects light and reports to CAN Dist board.	491.68	68.41
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTICIPv1 (Daktronics 0A-1248-0016)	8,151.25	273.66
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	355.67	34.21
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026)..... Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.	667.08	54.73

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014) Note: Sensor that measures ambient temperature.	591.04	54.73
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038) Note: Sensor that measures sign internal temperature.	658.63	54.73
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002) Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.	405.17	54.73
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,192.93	68.41
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,488.64	68.41
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,319.67	68.41
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,826.59	68.41
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,488.64	68.41
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,488.64	68.41
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	812.74	68.41
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	812.74	68.41
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	812.74	68.41
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	812.74	68.41
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).	1,192.93	68.41
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).	1,192.93	68.41
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).	1,192.93	68.41
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016) Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	432.54	68.41
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029) Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	500.13	68.41
34 41 16 00-0100 EA Power Supply (Daktronics A-1593) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,404.15	68.41
34 41 16 00-0101 EA Power Supply (Daktronics A-1648) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,404.15	68.41
34 41 16 00-0102 EA Power Supply (Daktronics A-2307) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	559.27	68.41
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	234.18	41.05
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	462.30	41.05
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	462.30	41.05
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	673.52	41.05
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022) Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.	1,142.24	68.41
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001) Note: Input/Output board for sign peripherals.	1,530.89	68.41
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,023.96	68.41
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	686.00	68.41
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	280.46	68.41
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	8,151.25	273.66
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	593.07	68.41
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	110.65	34.21
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	136.00	34.21
34 41 16 00-0116 EA Display Card 1500, 15" Clear (Ver-Mac PB-AFF-06023A-03 PF) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	770.49	68.41
34 41 16 00-0117 EA Display Card 1500, 30" Amber (Ver-Mac PB-AFF-06023-01 PF) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	770.49	68.41
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	992.96	68.51
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	992.96	68.51
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	5,207.86	68.51
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,272.03	68.51
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	186.81	34.21
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	626.20	68.51
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,574.11	68.51
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	281.80	68.41
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	577.62	68.41
34 41 16 00-0127 EA 12.5kVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	243.53	17.13
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	3,040.58	136.83
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	202.52	34.21
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	2,730.40	68.41
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	6,599.60	338.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	919.70	177.88
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30)	26.61	10.94
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS)	2,277.94	136.83
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60)	52.29	10.94
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820)	1,992.98	75.22
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	134.28	51.99
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469)	343.96	68.41
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT)	558.66	17.81
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H))	601.40	17.81
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	328.76	27.36
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E)	3,937.30	164.19
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FVWM012XLC).....	156.33	31.47
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	39.31	6.84
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,255.61	68.41
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E)	4,350.64	136.83
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000)	2,962.54	225.76
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	855.00	391.33
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S)	596.61	273.66
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	114.96	36.94
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	85.13	24.63
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	69.84	24.63
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	69.84	24.63
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	281.80	68.41
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC)	277.94	34.26
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC)	2,460.82	34.26
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC)	482.10	17.81
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	9,854.33	225.67
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9)	408.46	75.22

34 70 Transportation Construction and Equipment ⁽³⁴⁾

34 71 Roadway Construction ^(34 70)

34 71 13 Vehicle Barriers ^(34 71)

34 71 13 13 Vehicle Median Barriers ^(34 71 13)

34 71 13 13-0001 Concrete Median Barrier ^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	83.14	3.75
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face	110.23	3.75
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face	138.95	3.75
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	55.23	6.32
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	45.14	3.06

34 71 13 16 Vehicle Crash Barriers ^(34 71 13)

34 71 13 16-0001 Impact Barrier, Non-Redirective ^(34 71 13 16)

34 71 13 16-0002 Sand Barrel Impact Attenuator ^(34 71 13 16-0001)

34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel.....	728.13	45.44
Note: Includes containers, inserts, and lid.		

34 71 13 26 Vehicle Guide Rails ^(34 71 13)

34 71 13 26-0001 Mobilize Guide Rail Crew ^(34 71 13 26)

34 71 13 26-0002 EA Mobilize Guide Rail Crew.....	1,160.03	
Note: Excludes equipment mobilization.		

34 71 13 26-0003 Corrugated Beam Guide Rail ^(34 71 13 26)

34 71 13 26-0004 Corrugated Beam Guide Railing ^(34 71 13 26-0003)

34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	16.43	2.07
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	17.72	2.07

34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71	13 26-0009	LF	Shop Curved Corrugated Beam Guide Railing	21.48	2.07
34 71	13 26-0010	LF	Shop Curved Corrugated Beam Guide Railing (Rustic).....	23.26	2.07
34 71	13 26-0011	LF	Shop Curved Corrugated Beam Guide Railing End.....	55.16	2.07
			Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71	13 26-0012	LF	Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	60.19	2.07
			Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
34 71	13 26-0013		Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71	13 26-0014	EA	Corrugated Beam Guide Railing End Section At Anchor Unit.....	123.91	27.34
34 71	13 26-0015	EA	Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	130.79	27.34
34 71	13 26-0016	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section	165.15	27.34
34 71	13 26-0017	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	172.03	27.34
34 71	13 26-0018	EA	Corrugated Beam Guide Railing 225 Degree End Section	165.15	27.34
34 71	13 26-0019	EA	Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	172.03	27.34
34 71	13 26-0020		Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
			Note: Includes mounting hardware.		
34 71	13 26-0021	EA	Standard Post For Corrugated Beam Guide Rail.....	128.76	14.09
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	3.76	
34 71	13 26-0022	EA	Standard Post For (Rustic) Corrugated Beam Guide Rail.....	135.63	14.09
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	3.76	
34 71	13 26-0023	EA	Extra Long Post For Corrugated Beam Guide Rail	142.50	14.09
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	3.76	
34 71	13 26-0024	EA	Extra Long Post (Rustic) for Corrugated Beam Guide Rail	149.38	14.09
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	3.76	
34 71	13 26-0025	EA	6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	128.76	14.09
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	3.76	
34 71	13 26-0026	EA	Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	183.74	14.09
			For Installation In Rock, Add	3.76	
34 71	13 26-0027		Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
			Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71	13 26-0028	EA	Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	128.76	14.09
34 71	13 26-0029	EA	Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	135.63	14.09
34 71	13 26-0030	EA	Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide	142.50	14.09
34 71	13 26-0031	EA	Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	149.38	14.09
			Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71	13 26-0032	EA	Type A Post 1630mm Post	125.32	14.09
			Note: For heavy post blocked out corrugated beam guide rail		
34 71	13 26-0033	EA	Type A Post 1630mm Post (Rustic).....	132.19	14.09
			Note: For heavy post blocked out corrugated beam guide rail		
34 71	13 26-0034	EA	Type B Post 1460mm	118.45	14.09
			Note: For heavy post blocked out corrugated beam guide rail		
34 71	13 26-0035	EA	Type B Post 1460mm (Rustic)	125.32	14.09
			Note: For heavy post blocked out corrugated beam guide rail		
34 71	13 26-0036	EA	Type C Post 1290mm	111.57	14.09
			Note: For heavy post blocked out corrugated beam guide rail		
34 71	13 26-0037	EA	Type C Post 1290mm (Rustic).....	118.45	14.09
			Note: For heavy post blocked out corrugated beam guide rail		
34 71	13 26-0038	EA	Breakaway Wood Or Steel Post In Steel Foundation Tube	473.53	14.09
34 71	13 26-0039	EA	Wood, Metal, Plastic Or Composite Offset Block Or Beam.....	53.15	14.09
			Note: For heavy post blocked out corrugated beam guide rail.		
34 71	13 26-0040		Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71	13 26-0041	EA	Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	110.17	31.07
34 71	13 26-0042		Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)		
			Note: Includes associated hardware.		
34 71	13 26-0043	LF	Removal And Storage Of Corrugated Beam Guide Railing And Post.....	12.15	
34 71	13 26-0044	EA	Install Stored Post For Corrugated Beam Guide Rail.....	41.43	
34 71	13 26-0045	LF	Install Stored Corrugated Beam Guide Railing And Post.....	7.04	
34 71	13 26-0046		Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71	13 26-0047		Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0046)		
			Note: Add additional length for back-up sections.		
34 71	13 26-0048	LF	Corrugated Thrie Beam Guide Railing.....	38.58	2.61
34 71	13 26-0049	LF	Corrugated Thrie Beam Guide Railing (Rustic).....	40.68	2.61
34 71	13 26-0050		Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0046)		
			Note: Add additional length for back-up sections.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0051 LF Shop Curved Corrugated Thrie Beam Guide Railing	46.96	2.61
34 71 13 26-0052 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	49.06	2.61
34 71 13 26-0053 Corrugated Thrie Beam Guide Rail Posts <small>(34 71 13 26-0046)</small>		
<i>Note: Includes hardware for mounting.</i>		
34 71 13 26-0054 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	154.71	2.61
<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
<i>For 32" Soil Plate, Add</i>	7.00	
34 71 13 26-0055 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	161.58	2.61
<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
<i>For 32" Soil Plate, Add</i>	7.00	
34 71 13 26-0056 Timber Guide Rails <small>(34 71 13 26)</small>		
<i>Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.</i>		
34 71 13 26-0057 Timber Guide Rail Posts <small>(34 71 13 26-0056)</small>		
34 71 13 26-0058 EA 6" x 8" Timber Guide Rail Post	93.75	10.36
34 71 13 26-0059 EA 6" x 9" Timber Guide Rail Post	106.96	10.36
34 71 13 26-0060 EA 10" x 10" Timber Guide Rail Post	210.53	10.36
34 71 13 26-0061 EA 10" x 12" Timber Guide Rail Post	222.88	10.36
34 71 13 26-0062 EA 12" x 12" Timber Guide Rail Post	258.09	10.36
34 71 13 26-0063 Timber Guide Rails <small>(34 71 13 26-0056)</small>		
<i>Note: Excludes posts, spacer blocks and steel backup plates.</i>		
34 71 13 26-0064 LF 4" x 9" Timber Guide Rail.....	11.63	1.25
34 71 13 26-0065 LF 6" x 10" Timber Guide Rail.....	16.39	1.25
34 71 13 26-0066 LF 6" x 12" Timber Guide Rail.....	19.18	1.25
34 71 13 26-0067 Spacer Blocks For Timber Guide Rails <small>(34 71 13 26-0056)</small>		
34 71 13 26-0068 EA 4" x 9" Spacer Block For Timber Guide Rails	15.16	1.66
34 71 13 26-0069 EA 6" x 8" Spacer Block For Timber Guide Rails	17.44	1.66
34 71 13 26-0070 EA 8" x 8" Spacer Block For Timber Guide Rails	20.35	1.66
34 71 13 26-0071 Weathering Steel Backup Plates For Timber Guide Rails <small>(34 71 13 26-0056)</small>		
34 71 13 26-0072 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	21.12	1.04
34 71 13 26-0073 Weathering Steel Splice And Bearing Plates For Timber Guide Rails <small>(34 71 13 26-0056)</small>		
34 71 13 26-0074 EA Weathering Steel Splice Plate For Timber Guide Rails	146.73	14.50
34 71 13 26-0075 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	91.99	10.36
34 71 13 26-0076 Cable Guide Rail <small>(34 71 13 26)</small>		
34 71 13 26-0077 Cable Guide Rail <small>(34 71 13 26-0076)</small>		
34 71 13 26-0078 LF Cable (Each Cable)	8.84	2.24
<i>Note: Includes tensioning. Excludes splices.</i>		
34 71 13 26-0079 EA Cable Splice With Wedges	226.91	15.54
34 71 13 26-0080 Cable Guide Rail Posts <small>(34 71 13 26-0076)</small>		
<i>Note: Includes hardware for cable mounting.</i>		
34 71 13 26-0081 EA Standard Post for Cable Guide Rail	165.73	46.97
<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
<i>For Installation In Rock, Add</i>	12.53	
34 71 13 26-0082 EA Standard Post (Rustic) for Cable Guide Rail.....	172.61	46.97
<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
<i>For Installation In Rock, Add</i>	12.53	
34 71 13 26-0083 EA Extra Long Post for Cable Guide Rail	172.61	46.97
<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
<i>For Installation In Rock, Add</i>	12.53	
34 71 13 26-0084 EA Extra Long Post (Rustic) for Cable Guide Rail.....	179.48	46.97
<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
<i>For Installation In Rock, Add</i>	12.53	
34 71 13 26-0085 EA Slip Impact Post Top for Anchor Unit.....	107.53	18.78
34 71 13 26-0086 EA Slip Impact Post Base and Keeper Plate	279.37	18.78
<i>Note: For anchor unit.</i>		
34 71 13 26-0087 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems <small>(34 71 13 26-0076)</small>		
34 71 13 26-0088 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors	510.45	207.56
34 71 13 26-0089 EA Turnbuckle Cable End Assembly.....	151.31	10.38
34 71 13 26-0090 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	488.02	5.15
34 71 13 26-0091 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle.....	501.77	5.15
34 71 13 26-0092 EA Breakaway Anchor Angle.....	192.55	10.38
34 71 13 26-0093 EA Standard End Post Cap Assembly.....	89.36	5.15

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0094 EA Driveway End Post Cap Assembly.....	75.62	5.15
34 71 13 26-0095 EA End Post Ground Support Plates.....	41.25	5.15
34 71 13 26-0096 EA 11" Stud Bolt, Cable Guide Rail.....	36.09	5.15
34 71 13 26-0097 EA 18" Stud Bolt, Cable Guide Rail.....	42.97	5.15
34 71 13 26-0098 EA 25" Stud Bolt, Cable Guide Rail.....	49.84	5.15
34 71 13 26-0099 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	426.25	10.38
34 71 13 26-0100 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	453.74	10.38
34 71 13 26-0101 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	302.53	10.38
34 71 13 26-0102 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	185.59	5.15
34 71 13 26-0103 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	192.55	10.38
34 71 13 26-0104 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	206.29	15.54
34 71 13 26-0105 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0076)		
34 71 13 26-0106 EA Turnbuckle Cable End Assembly..... Note: For use with slip impact post.	343.96	15.68
34 71 13 26-0107 EA Spring Cable End Assembly (Compensating Device)..... Note: For use with slip impact post.	673.89	15.68
34 71 13 26-0108 EA Anchor Angle For Slip Impact Post System.....	199.62	15.68
34 71 13 26-0109 EA Cable End Assembly Rod..... Note: Includes cable end, threaded rod and keeper to anchor angle.	165.25	15.68
34 71 13 26-0110 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0076)		
Note: Includes associated hardware.		
34 71 13 26-0111 LF Retention Existing Cable (Each Cable).....	1.38	
34 71 13 26-0112 LF Removal And Storage Of Cable Guide Railing.....	8.34	
34 71 13 26-0113 EA Install Stored Post For Cable Guide Railing.....	62.63	
34 71 13 26-0114 LF Install Stored Cable, (Each Cable)..... Note: Includes retensioning. Excludes splices.	3.69	
34 71 13 26-0115 6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0116 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0115)		
34 71 13 26-0117 Straight Sections, Box Beam Guide Rail (34 71 13 26-0116)		
34 71 13 26-0118 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices.	46.44	2.61
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0119 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices.	52.72	2.61
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0120 Shop Curved, Box Beam Guide Rail (34 71 13 26-0116)		
34 71 13 26-0121 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices.	70.53	2.61
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0122 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices.	76.82	2.61
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0123 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0115)		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0124 EA Box Beam End Piece Guide Railing Section..... Note: Galvanized excludes splices.	728.78	31.07
34 71 13 26-0125 EA Box Beam End Piece Guide Railing Section (Rustic)..... Note: Excludes splices.	804.39	31.07
34 71 13 26-0126 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized..... Note: Excludes splices.	687.54	31.07
34 71 13 26-0127 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	715.03	31.07
34 71 13 26-0128 Splices For Box Beam Guide Rail (34 71 13 26-0115)		
34 71 13 26-0129 EA Splice For Box Beam Guide Rail.....	195.35	46.12
34 71 13 26-0130 EA Splice For Box Beam Guide Rail (Rustic).....	243.47	46.12
34 71 13 26-0131 Box Beam Guide Rail Posts (34 71 13 26-0115)		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0132 EA Standard Post For Box Beam Guide Rail..... For Installation Without Soil Plate, Deduct	172.61 -5.00	46.97
For Installation In Rock, Add	12.53	
34 71 13 26-0133 EA Standard Post (Rustic) for Box Beam Guide Railing..... For Installation Without Soil Plate, Deduct	179.48 -5.00	46.97
For Installation In Rock, Add	12.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0134 EA Extra Long Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	186.35 -5.00 12.53	46.97
34 71 13 26-0135 EA Extra Long Post (Rustic) For Box Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	193.23 -5.00 12.53	46.97
34 71 13 26-0136 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	165.73 -5.00 12.53	46.97
34 71 13 26-0137 EA Type I End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	172.61 -5.00 12.53	46.97
34 71 13 26-0138 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	158.86 -5.00 12.53	46.97
34 71 13 26-0139 EA Type II End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	165.73 -5.00 12.53	46.97
34 71 13 26-0140 Box Beam Guide Rail Accessories (34 71 13 26-0115)		
34 71 13 26-0141 EA Box Beam Guide Rail End Cover Plate	94.91	9.33
34 71 13 26-0142 EA Box Beam Guide Rail End Cover Plate (Rustic)	101.79	9.33
34 71 13 26-0143 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0115)		
Note: For existing guide rail.		
34 71 13 26-0144 LF Removal And Storage Of Box Beam Guide Rail And Post	4.09	
34 71 13 26-0145 LF Reset Box Beam Guide Rail	11.95	
34 71 13 26-0146 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0147 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0146)		
34 71 13 26-0148 Straight Sections, Box Beam Median Barrier (34 71 13 26-0147)		
34 71 13 26-0149 LF Box Beam Median Barrier Galvanized Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	78.42 1.83	9.33
34 71 13 26-0150 LF Box Beam Median Barrier (Rustic) Excludes Splices <i>For Flush Mounting Directly To Structure, Add</i>	84.71 1.83	9.33
34 71 13 26-0151 Shop Curved, Box Beam Median Barrier (34 71 13 26-0147)		
34 71 13 26-0152 LF Shop Curved Box Beam Median Barrier Galvanized..... Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	94.94 2.44 1.83	9.33
34 71 13 26-0153 LF Shop Curved Box Beam Median Barrier Rustic..... Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	115.57 2.44 1.83	9.33
34 71 13 26-0154 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0146)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0155 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized..... Note: Excludes splices and post.	2,371.55	31.07
34 71 13 26-0156 EA Box Beam Median Barrier Type A End Treatment Section (Rustic)..... Note: Excludes splices and post.	2,426.53	31.07
34 71 13 26-0157 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized..... Note: Excludes splices and post.	2,371.55	31.07
34 71 13 26-0158 EA Box Beam Median Barrier Type B End Treatment Section (Rustic)..... Note: Excludes splices and post.	2,426.53	31.07
34 71 13 26-0159 Splices For Box Beam Median Barrier (34 71 13 26-0146)		
34 71 13 26-0160 EA Splice for Box Beam Median Barrier.....	184.36	24.86
34 71 13 26-0161 EA Splice for Box Beam Median Barrier (Rustic).....	287.46	24.86
34 71 13 26-0162 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0146)		
Note: Includes all associated hardware.		
34 71 13 26-0163 EA Standard Post for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	172.61 -5.00 12.53	46.97
34 71 13 26-0164 EA Standard Post (Rustic) for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	179.48 -5.00 12.53	46.97
34 71 13 26-0165 EA Extra Long Post for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	186.35 -5.00 12.53	46.97

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0166 EA Extra Long Post (Rustic) for Box Beam Median Barrier.....	193.23	46.97
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.53	
34 71 13 26-0167 EA Type B End Treatment or Rub Back Anchor Post for Box Beam.....	158.86	46.97
Note: For median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.53	
34 71 13 26-0168 EA Type B End Treatment or Rub Back Anchor Post (Rustic).....	158.86	46.97
Note: For box beam median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.53	
34 71 13 26-0169 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete.....	186.35	46.97
Note: For median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.53	
34 71 13 26-0170 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier.....	193.23	46.97
Note: For Concrete median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.53	
34 71 13 26-0171 Box Beam Median Barrier Accessories (34 71 13 26-0146)		
34 71 13 26-0172 EA Box Beam Median Barrier End Cover Plate.....	119.06	21.87
34 71 13 26-0173 EA Box Beam Median Barrier End Cover Plate (Rustic).....	125.93	21.87
34 71 13 26-0174 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0146)		
Note: For existing guide rail.		
34 71 13 26-0175 LF Removal And Storage Of Box Beam Median Barrier and Posts.....	4.24	
34 71 13 26-0176 LF Reset Box Beam Median Barrier.....	12.51	
34 71 13 26-0177 Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0178 Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0177)		
Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0179 CY Guide Rail Concrete Anchor Unit.....	702.33	
For Each Additional Set Of Anchor Rods, Add	38.00	
34 71 13 26-0180 EA Reset Existing Anchorage Unit for All Types of Guide Rail.....	475.15	
Note: Includes excavation and backfill.		
34 71 13 26-0181 EA Removal Of Guide Rail Concrete Anchor Unit.....	520.14	
34 71 13 26-0182 Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0177)		
Note: Includes associated hardware.		
34 71 13 26-0183 EA Straighten And Reset Driven Post For Guide Rail.....	62.63	
34 71 13 26-0184 EA Straighten And Reset Post Mounted On Concrete For Guide Rail.....	72.53	
Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0185 Additional Wood and Steel Posts (34 71 13 26-0177)		
34 71 13 26-0186 LF 4" x 6" Wood Post.....	53.56	15.70
For Installation In Rock, Add	4.18	
34 71 13 26-0187 LF 6" x 8" Wood Post.....	63.87	15.70
For Installation In Rock, Add	4.18	
34 71 13 26-0188 LF 6" x 7/8" Galvanized Steel Post.....	40.38	15.70
For Installation In Rock, Add	4.18	
34 71 13 26-0189 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....	370.75	15.68
34 71 13 26-0190 Accessories For All Types of Guide Rail (34 71 13 26-0177)		
34 71 13 26-0191 EA Reflector For Guard Rail.....	44.73	
34 71 13 26-0192 Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0193 Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0192)		
34 71 13 26-0194 EA Box Beam To Corrugated Beam Rail Bolted Section.....	689.16	
34 71 13 26-0195 EA Box Beam To Corrugated Beam Rail Bolted Plate.....	414.22	
Note: For making cable connections.		
34 71 13 26-0196 Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0192)		
34 71 13 26-0197 EA Box Beam Median Barrier To Corrugated Beam Bolted Section.....	702.91	
34 71 13 26-0198 EA Box Beam Median Barrier To Corrugated Beam Harness Plate.....	414.22	
Note: For making cable connections.		
34 71 13 26-0199 Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0192)		
34 71 13 26-0200 EA Box Beam to Cable Guide Rail U-bolt And Plate.....	96.41	16.57



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Transportation Construction and Equipment	34 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0201 Transition Box Beam Median Barrier To Concrete Median Barrier <small>(34 71 13 26-0192)</small>		
34 71 13 26-0202 EA Box Beam Median Barrier To Concrete Barrier End Connection.....	964.10	
34 71 13 26-0203 Transition Thrie Beam To Concrete Median Barrier <small>(34 71 13 26-0192)</small>		
34 71 13 26-0204 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	620.43	
34 71 13 26-0205 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	792.26	
34 71 13 26-0206 Resilient Guard Fence And Light Shield <small>(34 71 13 26)</small>		
34 71 13 26-0207 LF Resilient Guard Fence And Light Shield, Up To 6' High	64.45	6.33
34 71 13 26-0208 Individual Concrete Guard Rail Posts <small>(34 71 13 26)</small>		
34 71 13 26-0209 EA 6'-5" Concrete Guard Rail Posts, Round.....	106.02	6.33
34 71 13 26-0210 EA 6'-5" Concrete Posts, Square.....	118.36	7.11
34 71 13 26-0211 EA 6'-5" Concrete Posts, Triangular.....	114.86	7.11
34 71 16 Impact Attenuating Devices <small>(34 71)</small>		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals <small>(34 71 16)</small>		
Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	27,348.67	3,150.00
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	37,838.36	4,200.01
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	51,459.88	5,512.51
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	57,772.41	6,825.02
34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	29,574.04	3,543.76
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	41,023.00	4,725.01
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	56,149.75	6,300.01
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	64,632.15	7,612.52
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	31,821.38	3,937.50
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	44,228.96	5,250.01
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	60,294.11	6,956.26
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	71,469.06	8,400.01
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	34,513.86	4,331.26
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	47,608.39	5,775.01
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	65,131.00	7,612.52
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	76,873.34	9,187.51
34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	37,270.80	4,725.01
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	51,063.68	6,300.01
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	70,644.88	8,400.01
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	82,411.72	9,975.02
34 71 19 Vehicle Delineators <small>(34 71)</small>		
34 71 19 16 Flexible Vehicle Delineators <small>(34 71 19)</small>		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	78.99	7.90
34 71 19 16-0002 EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	80.08	7.90
34 71 19 16-0003 EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	81.17	7.90
34 71 19 16-0004 EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	82.25	7.90

END OF SECTION 34

34 Transportation

34 70 Transportation Construction and Equipment

34 71 Roadway Construction



MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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35 Waterway and Marine Construction

35 01 Operation and Maintenance of Waterway and Marine Construction⁽³⁵⁾

35 01 70 Operation and Maintenance of Dams^(35 01)

35 01 70 00-0001 Drilling And Pressure Grouting^(35 01 70)

35 01 70 00-0002 From Top Of The Dam^(35 01 70 00-0001)

35 01 70 00-0003	LF	Pressure Grout, Top Of Dam, In Concrete, Drill 3" Nominal Grout Hole.....	107.59
35 01 70 00-0004	LF	Pressure Grout, Top Of Dam, In Rock, Drill 3" Nominal Grout Hole.....	123.49
35 01 70 00-0005	LF	Pressure Grout, Install Guide Sleeves 3-1/2" Inside Diameter, Top Of Dam.....	127.90
35 01 70 00-0006	EA	Pressure Grout, Hydraulic Pressure Test Top Of Dam.....	821.08
35 01 70 00-0007	EA	Pressure Grout, Grout Hook-Up Top Of Dam.....	436.15
35 01 70 00-0008	CWT	Pressure Grout, Portland Cement Top Of Dam.....	66.43
35 01 70 00-0009	CWT	Pressure Grout, Fluidifier In Grout Top Of Dam.....	196.29
35 01 70 00-0010	CF	Pressure Grout, Place Grout Except Hook-Ups, Top Of Dam.....	157.60

35 01 70 00-0011 Large Diameter Holes - Rotary Drilled^(35 01 70 00-0001)

35 01 70 00-0012 From Top Of The Dam^(35 01 70 00-0011)

35 01 70 00-0013	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Vertical.....	157.27
35 01 70 00-0014	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Inclined.....	170.68
35 01 70 00-0015	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Vertical.....	247.76
35 01 70 00-0016	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Inclined.....	273.20

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001 Rubber Dam Repair^(35 05 70)

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	33.00
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	65.67
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	96.26
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material.....	107.45

35 20 Waterway and Marine Construction and Equipment⁽³⁵⁾

35 22 Hydraulic Gates^(35 20)

35 22 26 Sluice Gates^(35 22)

35 22 26 00-0001 Heavy Duty Cast Iron Sluice Gates Self Contained^(35 22 26)

Note: Includes crank operated geared gate lift, anchor bolts, and grouting.

35 22 26 00-0002	EA	18" x 18" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	9,636.68	1,152.97
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,080.60</i>	
35 22 26 00-0003	EA	24" x 24" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	13,806.95	1,729.52
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,195.90</i>	
35 22 26 00-0004	EA	30" x 30" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	16,715.50	1,976.59
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,245.32</i>	
35 22 26 00-0005	EA	36" x 36" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	19,057.44	2,161.89
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,282.38</i>	
35 22 26 00-0006	EA	42" x 42" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	21,390.22	2,470.74
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,344.15</i>	
35 22 26 00-0007	EA	48" x 48" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	29,988.75	3,953.18
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,640.64</i>	
35 22 26 00-0008	EA	54" x 54" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	39,941.02	4,941.47
		<i>For Electric Motor Operated Valve, Add</i>	<i>1,838.29</i>	
35 22 26 00-0009	EA	60" x 60" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	46,631.43	6,547.46
		<i>For Electric Motor Operated Valve, Add</i>	<i>2,159.49</i>	
35 22 26 00-0010	EA	66" x 66" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	58,077.94	8,647.58
		<i>For Electric Motor Operated Valve, Add</i>	<i>2,579.52</i>	
35 22 26 00-0011	EA	72" x 72" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	61,021.91	9,882.94
		<i>For Electric Motor Operated Valve, Add</i>	<i>2,826.59</i>	
35 22 26 00-0012	EA	78" x 78" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	68,385.72	9,882.94
		<i>For Electric Motor Operated Valve, Add</i>	<i>3,226.59</i>	
35 22 26 00-0013	EA	84" x 84" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	79,299.37	11,118.32
		<i>For Electric Motor Operated Valve, Add</i>	<i>3,473.66</i>	
35 22 26 00-0014	EA	90" x 90" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	95,473.59	12,852.91
		<i>For Electric Motor Operated Valve, Add</i>	<i>3,820.58</i>	
35 22 26 00-0015	EA	96" x 96" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	107,573.09	13,464.95
		<i>For Electric Motor Operated Valve, Add</i>	<i>3,942.99</i>	

35	Waterway and Marine Construction
35 20	Waterway and Marine Construction and Equipment
35 22	Hydraulic Gates



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 26 00-0016	EA		108" x 108" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate <i>For Electric Motor Operated Valve, Add</i>	133,273.77 4,432.62	15,913.12
35 22 26 00-0017	EA		120" x 120" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate <i>For Electric Motor Operated Valve, Add</i>	164,647.88 5,167.08	19,585.38
35 22 26 00-0018	EA		132" x 132" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate <i>For Electric Motor Operated Valve, Add</i>	200,808.00 5,656.71	22,033.55
35 22 59 Hydraulic Closure Gates (35 22)					
35 22 59 00-0001 Steel Slide Gates Self Contained (35 22 59)					
Note: Includes anchors and bolts.					
35 22 59 00-0002	EA		12" x 12" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	3,315.05 936.48	432.38
35 22 59 00-0003	EA		18" x 18" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	4,416.94 948.83	494.15
35 22 59 00-0004	EA		24" x 24" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	5,039.98 965.30	576.54
35 22 59 00-0005	EA		30" x 30" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	6,090.29 988.36	691.80
35 22 59 00-0006	EA		36" x 36" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	7,793.55 1,022.95	864.76
35 22 59 00-0007	EA		42" x 42" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	9,136.87 1,080.60	1,152.97
35 22 59 00-0008	EA		48" x 48" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	12,528.64 1,195.90	1,729.52
35 22 59 00-0009	EA		54" x 54" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	19,012.32 1,282.38	2,161.89
35 22 59 00-0010	EA		60" x 60" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	24,810.48 1,541.81	3,459.03
35 22 59 00-0011	EA		72" x 72" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting <i>For Electric Motor Operated Valve, Add</i>	31,639.25 2,003.01	5,765.10
35 22 59 00-0012	SF		Over 36 SF Steel Slide Gates Self Contained Including Anchor <i>For Electric Motor Operated Valve, Add</i>	877.51 1,581.87	159.36
35 22 59 00-0013 Stainless Steel, Slide Gates, Frame Assembly Only (35 22 59)					
35 22 59 00-0014	EA		24" x 24" Stainless Steel Slide Gate, Frame Assembly Only	15,448.09	564.57
35 22 59 00-0015	EA		30" x 30" Stainless Steel Slide Gate, Frame Assembly Only	19,102.46	705.39
35 22 59 00-0016	EA		36" x 36" Stainless Steel Slide Gate, Frame Assembly Only	24,352.10	859.82
35 22 59 00-0017	EA		48" x 48" Stainless Steel Slide Gate, Frame Assembly Only	37,248.15	1,646.74
35 22 59 00-0018	EA		60" x 60" Stainless Steel Slide Gate, Frame Assembly Only	55,150.37	3,593.69
35 22 59 00-0019	EA		72" x 72" Stainless Steel Slide Gate, Frame Assembly Only	72,635.60	5,489.98
35 22 59 00-0020	EA		84" x 84" Stainless Steel Slide Gate, Frame Assembly Only	109,399.06	6,863.71
35 22 59 00-0021	Day		Start Up And Training, Stainless Steel Slide Gate, Frame Assembly	2,869.76	
35 22 59 00-0022 Aluminum Flap Gates (35 22 59)					
35 22 59 00-0023	EA		18" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	3,214.36 936.48	432.38
35 22 59 00-0024	EA		20" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	3,576.58 942.65	463.26
35 22 59 00-0025	EA		24" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	3,935.61 948.83	494.15
35 22 59 00-0026	EA		30" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	5,330.58 965.30	576.54
35 22 59 00-0027	EA		36" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	6,607.10 988.36	691.80
35 22 59 00-0028	EA		42" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	9,345.90 1,022.95	864.76
35 22 59 00-0029	EA		48" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	11,828.42 1,080.60	1,152.97
35 22 59 00-0030	EA		54" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	15,315.96 1,195.90	1,729.52
35 22 59 00-0031	EA		60" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	20,256.35 1,344.15	2,470.74
35 22 59 00-0032	EA		66" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	26,209.28 1,541.81	3,459.03
35 22 59 00-0033	EA		72" Diameter Aluminum Flap Gates <i>For Electric Motor Operated Valve, Add</i>	32,719.29 1,838.29	4,941.47
35 22 59 00-0034 Stainless Steel Flap Gates (35 22 59)					
35 22 59 00-0035	EA		12" x 12" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	6,273.82 924.12	370.62
35 22 59 00-0036	EA		18" x 18" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	8,028.59 936.48	432.38
35 22 59 00-0037	EA		24" x 24" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	10,334.65 948.83	494.15
35 22 59 00-0038	EA		30" x 30" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	13,440.10 965.30	576.92
35 22 59 00-0039	EA		36" x 36" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	19,913.20 988.36	691.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0040 EA 48" x 48" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	29,198.70 1,080.60	1,152.60
35 22 59 00-0041 EA 60" x 60" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	44,884.00 1,344.15	2,470.74
35 22 59 00-0042 EA 72" x 72" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	65,359.93 1,838.29	4,941.47
35 22 59 00-0043 EA 84" x 84" Stainless Steel Flap Gate <i>For Electric Motor Operated Valve, Add</i>	94,557.89 2,826.59	9,882.94
35 22 59 00-0044 Cast Iron Flap Gates <small>(35 22 59)</small>		
35 22 59 00-0045 EA 12" x 12" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	11,087.74 942.65	463.26
35 22 59 00-0046 EA 18" x 18" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	15,558.13 958.10	541.09
35 22 59 00-0047 EA 24" x 24" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	19,851.05 973.54	617.69
35 22 59 00-0048 EA 30" x 30" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	27,812.83 994.13	720.22
35 22 59 00-0049 EA 36" x 36" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	31,416.43 1,022.95	864.76
35 22 59 00-0050 EA 48" x 48" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	39,113.26 1,138.25	1,441.67
35 22 59 00-0051 EA 60" x 60" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	67,010.85 1,393.56	2,717.81
35 22 59 00-0052 EA 72" x 72" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	106,912.16 1,912.42	5,312.09
35 22 59 00-0053 EA 84" x 84" Cast Iron Flap Gate <i>For Electric Motor Operated Valve, Add</i>	124,971.79 2,925.42	10,377.09
35 22 59 00-0054 Steel Knife Gates Including Handwheel Operator <small>(35 22 59)</small>		
Note: ANSI 150 PSI. for hub, flange, or spigot ends.		
35 22 59 00-0055 EA 6" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	1,756.94 888.20	191.00
35 22 59 00-0056 EA 8" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	2,345.26 894.57	222.79
35 22 59 00-0057 EA 10" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	3,306.22 916.85	334.25
35 22 59 00-0058 EA 12" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	4,144.16 939.14	445.72
35 22 59 00-0059 EA 14" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	5,043.63 945.50	477.51
35 22 59 00-0060 EA 16" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	6,477.56 952.85	514.20
35 22 59 00-0061 EA 18" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	8,537.69 956.96	534.80
35 22 59 00-0062 EA 20" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	10,644.63 971.55	607.80
35 22 59 00-0063 EA 24" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	13,592.04 983.70	668.51
35 22 59 00-0064 EA 30" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	24,577.68 1,028.27	891.30
35 22 59 00-0065 EA 36" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	32,774.28 1,117.40	1,337.02
35 22 59 00-0066 Steel Hollow Jet Flow Gate Valve <small>(35 22 59)</small>		
35 22 59 00-0067 EA 6" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	1,578.88 884.59	172.95
35 22 59 00-0068 EA 8" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	2,433.12 890.40	201.99
35 22 59 00-0069 EA 10" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	2,932.22 910.53	302.67
35 22 59 00-0070 EA 12" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	3,741.35 930.68	403.35
35 22 59 00-0071 EA 14" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	5,600.93 936.48	432.38
35 22 59 00-0072 EA 16" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	6,745.89 943.15	465.73
35 22 59 00-0073 EA 18" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	11,287.17 946.86	484.26
35 22 59 00-0074 EA 20" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	14,185.52 960.08	550.35
35 22 59 00-0075 EA 24" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	20,369.33 971.08	605.33
35 22 59 00-0076 EA 30" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	24,963.30 1,011.46	807.31
35 22 59 00-0077 EA 36" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	35,633.30 1,092.09	1,210.66
35 22 59 00-0078 EA 42" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	42,474.63 1,546.56	1,482.44
35 22 59 00-0079 EA 48" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	50,361.90 1,595.90	1,729.52

35	Waterway and Marine Construction
35 20	Waterway and Marine Construction and Equipment
35 22	Hydraulic Gates



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0080 EA 54" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub..... <i>For Electric Motor Operated Valve, Add</i>	66,304.17 1,682.38	2,161.89
35 22 59 00-0081 EA 60" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub..... <i>For Electric Motor Operated Valve, Add</i>	73,876.74 1,769.06	2,594.28
35 22 59 00-0082 EA 66" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub..... <i>For Electric Motor Operated Valve, Add</i>	94,323.77 1,967.05	3,582.57
35 22 59 00-0083 Steel Dish Head Valve (35 22 59)		
35 22 59 00-0084 EA 12" Diameter Dish Head Valve	2,039.86	432.38
35 22 59 00-0085 EA 18" Diameter Dish Head Valve	2,922.22	494.15
35 22 59 00-0086 EA 20" Diameter Dish Head Valve	3,360.71	540.47
35 22 59 00-0087 EA 24" Diameter Dish Head Valve	3,949.84	576.54
35 22 59 00-0088 EA 30" Diameter Dish Head Valve	5,897.56	691.80
35 22 59 00-0089 EA 36" Diameter Dish Head Valve	7,271.14	864.76
35 22 59 00-0090 EA 42" Diameter Dish Head Valve	12,140.44	1,152.97
35 22 59 00-0091 EA 48" Diameter Dish Head Valve	15,929.88	1,729.52
35 22 59 00-0092 EA 54" Diameter Dish Head Valve	22,583.38	2,161.89
35 22 59 00-0093 EA 60" Diameter Dish Head Valve	29,171.26	3,459.03
35 22 59 00-0094 EA 66" Diameter Dish Head Valve	40,301.59	4,323.79
35 22 59 00-0095 EA 72" Diameter Dish Head Valve	49,185.37	5,765.10
35 22 63 Through-Levee Access Gates (35 22)		
35 22 63 00-0001 Cast Iron Canal Gates (35 22 63)		
35 22 63 00-0002 EA 12" Diameter Cast Iron Canal Gates With Fabricated Frame	2,087.88	432.38
<i>For Electric Motor Operated Valve, Add</i>	936.48	
35 22 63 00-0003 EA 18" Diameter Cast Iron Canal Gates With Fabricated Frame	3,001.25	494.15
<i>For Electric Motor Operated Valve, Add</i>	948.83	
35 22 63 00-0004 EA 20" Diameter Cast Iron Canal Gates With Fabricated Frame	3,424.28	540.47
<i>For Electric Motor Operated Valve, Add</i>	958.10	
35 22 63 00-0005 EA 24" Diameter Cast Iron Canal Gates With Fabricated Frame	4,064.14	576.54
<i>For Electric Motor Operated Valve, Add</i>	965.30	
35 22 63 00-0006 EA 30" Diameter Cast Iron Canal Gates With Fabricated Frame	6,082.03	691.80
<i>For Electric Motor Operated Valve, Add</i>	988.36	
35 22 63 00-0007 EA 36" Diameter Cast Iron Canal Gates With Fabricated Frame	7,497.61	864.76
<i>For Electric Motor Operated Valve, Add</i>	1,022.95	
35 22 63 00-0008 EA 42" Diameter Cast Iron Canal Gates With Fabricated Frame	12,542.35	1,152.97
<i>For Electric Motor Operated Valve, Add</i>	1,080.60	
35 22 63 00-0009 EA 48" Diameter Cast Iron Canal Gates With Fabricated Frame	16,439.49	1,729.52
<i>For Electric Motor Operated Valve, Add</i>	1,195.90	
35 22 63 00-0010 EA 54" Diameter Cast Iron Canal Gates With Fabricated Frame	23,329.60	2,161.89
<i>For Electric Motor Operated Valve, Add</i>	1,282.38	
35 22 63 00-0011 EA 60" Diameter Cast Iron Canal Gates With Fabricated Frame	30,080.69	3,459.03
<i>For Electric Motor Operated Valve, Add</i>	1,541.81	
35 22 63 00-0012 EA 66" Diameter Cast Iron Canal Gates With Fabricated Frame	41,595.20	4,323.79
<i>For Electric Motor Operated Valve, Add</i>	1,714.76	
35 22 63 00-0013 EA 72" Diameter Cast Iron Canal Gates With Fabricated Frame	49,077.07	4,941.47
<i>For Electric Motor Operated Valve, Add</i>	1,838.29	
35 24 Dredging (35 20)		
35 24 23 Clamshell Dredging (35 24)		
35 24 23 00-0001 Dredging, Barge Mounted (35 24 23)		
See CSI section 01 74 19 00-0039 for hauling material from shore or barge, 31 23 16 33-0019 for loading.		
35 24 23 00-0002 EA Dredge Excavation Mobilization And Demobilization.....	21,564.89	
<i>For Inlet Rivers And Canals, Deduct</i>	-5,391.22	
35 24 23 00-0003 CY Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles	23.96	
Note: Includes tugboat to move scows or barge.		
35 24 23 00-0004 CY Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore.....	21.56	
Note: Includes tugboat to move barge.		
35 24 23 00-0005 CY Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles.....	23.87	
Note: Includes tugboat to move scows or barge.		
35 24 23 00-0006 CY Hydraulic Dredge Excavation, Pumped 1,000' To Shore	20.03	
Note: Includes tugboat to move barge.		
35 24 26 Backhoe/Dipper Dredging (35 24)		
35 24 26 00-0001 Dredging, Shoreline Excavators (35 24 26)		
35 24 26 00-0002 CY Back Hoe, 1 CY Bucket, Dredging From Shore	13.90	
35 24 26 00-0003 CY Hydraulic Excavator, 2 CY Bucket, Dredging From Shore.....	9.46	

END OF SECTION 35



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001 Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19)

Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.

40 05 19 00-0002 Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)

40 05 19 00-0003 4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)

40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	724.15	257.53
	For Class 52 Rating, Deduct	-36.74	
	For Class 54 Rating, Add	54.78	
	For Class 55 Rating, Add	83.84	
	For Class 56 Rating, Add	112.57	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	766.70	262.02
	For Class 52 Rating, Deduct	-40.67	
	For Class 54 Rating, Add	60.22	
	For Class 55 Rating, Add	91.97	
	For Class 56 Rating, Add	123.35	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	809.26	266.53
	For Class 52 Rating, Deduct	-44.60	
	For Class 54 Rating, Add	65.66	
	For Class 55 Rating, Add	100.10	
	For Class 56 Rating, Add	134.14	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	851.82	271.03
	For Class 52 Rating, Deduct	-48.53	
	For Class 54 Rating, Add	71.10	
	For Class 55 Rating, Add	108.23	
	For Class 56 Rating, Add	144.93	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	894.37	275.54
	For Class 52 Rating, Deduct	-52.46	
	For Class 54 Rating, Add	76.54	
	For Class 55 Rating, Add	116.37	
	For Class 56 Rating, Add	155.71	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	936.91	280.04
	For Class 52 Rating, Deduct	-56.39	
	For Class 54 Rating, Add	81.98	
	For Class 55 Rating, Add	124.50	
	For Class 56 Rating, Add	166.50	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.47	284.54
	For Class 52 Rating, Deduct	-60.32	
	For Class 54 Rating, Add	87.43	
	For Class 55 Rating, Add	132.63	
	For Class 56 Rating, Add	177.28	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,022.03	289.04
	For Class 52 Rating, Deduct	-64.25	
	For Class 54 Rating, Add	92.87	
	For Class 55 Rating, Add	140.76	
	For Class 56 Rating, Add	188.07	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,064.58	293.55
	For Class 52 Rating, Deduct	-68.18	
	For Class 54 Rating, Add	98.31	
	For Class 55 Rating, Add	148.89	
	For Class 56 Rating, Add	198.86	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,107.14	298.05
	For Class 52 Rating, Deduct	-72.11	
	For Class 54 Rating, Add	103.75	
	For Class 55 Rating, Add	157.03	
	For Class 56 Rating, Add	209.64	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,149.69	302.54
	For Class 52 Rating, Deduct	-76.04	
	For Class 54 Rating, Add	109.19	
	For Class 55 Rating, Add	165.16	
	For Class 56 Rating, Add	220.43	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,192.25	307.05
	For Class 52 Rating, Deduct	-79.97	
	For Class 54 Rating, Add	114.64	
	For Class 55 Rating, Add	173.29	
	For Class 56 Rating, Add	231.22	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,234.80	311.55
	For Class 52 Rating, Deduct	-83.90	
	For Class 54 Rating, Add	120.08	
	For Class 55 Rating, Add	181.42	
	For Class 56 Rating, Add	242.01	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA		4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,277.35	316.06
			<i>For Class 52 Rating, Deduct</i>	-87.83	
			<i>For Class 54 Rating, Add</i>	125.52	
			<i>For Class 55 Rating, Add</i>	189.55	
			<i>For Class 56 Rating, Add</i>	252.79	
40 05 19 00-0018	EA		4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,319.90	320.55
			<i>For Class 52 Rating, Deduct</i>	-91.76	
			<i>For Class 54 Rating, Add</i>	130.96	
			<i>For Class 55 Rating, Add</i>	197.69	
			<i>For Class 56 Rating, Add</i>	263.58	
40 05 19 00-0019	EA		4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,362.45	325.06
			<i>For Class 52 Rating, Deduct</i>	-95.69	
			<i>For Class 54 Rating, Add</i>	136.40	
			<i>For Class 55 Rating, Add</i>	205.82	
			<i>For Class 56 Rating, Add</i>	274.36	
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,405.02	329.56
			<i>For Class 52 Rating, Deduct</i>	-99.62	
			<i>For Class 54 Rating, Add</i>	141.84	
			<i>For Class 55 Rating, Add</i>	213.95	
			<i>For Class 56 Rating, Add</i>	285.15	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,447.57	334.07
			<i>For Class 52 Rating, Deduct</i>	-103.56	
			<i>For Class 54 Rating, Add</i>	147.29	
			<i>For Class 55 Rating, Add</i>	222.08	
			<i>For Class 56 Rating, Add</i>	295.94	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,490.12	338.56
			<i>For Class 52 Rating, Deduct</i>	-107.49	
			<i>For Class 54 Rating, Add</i>	152.73	
			<i>For Class 55 Rating, Add</i>	230.21	
			<i>For Class 56 Rating, Add</i>	306.72	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,532.67	343.07
			<i>For Class 52 Rating, Deduct</i>	-111.42	
			<i>For Class 54 Rating, Add</i>	158.17	
			<i>For Class 55 Rating, Add</i>	238.35	
			<i>For Class 56 Rating, Add</i>	317.51	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,575.23	347.57
			<i>For Class 52 Rating, Deduct</i>	-115.35	
			<i>For Class 54 Rating, Add</i>	163.61	
			<i>For Class 55 Rating, Add</i>	246.48	
			<i>For Class 56 Rating, Add</i>	328.30	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,617.78	352.07
			<i>For Class 52 Rating, Deduct</i>	-119.28	
			<i>For Class 54 Rating, Add</i>	169.05	
			<i>For Class 55 Rating, Add</i>	254.61	
			<i>For Class 56 Rating, Add</i>	339.08	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,660.33	356.58
			<i>For Class 52 Rating, Deduct</i>	-123.21	
			<i>For Class 54 Rating, Add</i>	174.49	
			<i>For Class 55 Rating, Add</i>	262.74	
			<i>For Class 56 Rating, Add</i>	349.87	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,702.89	361.07
			<i>For Class 52 Rating, Deduct</i>	-127.14	
			<i>For Class 54 Rating, Add</i>	179.94	
			<i>For Class 55 Rating, Add</i>	270.87	
			<i>For Class 56 Rating, Add</i>	360.66	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,745.45	365.58
			<i>For Class 52 Rating, Deduct</i>	-131.07	
			<i>For Class 54 Rating, Add</i>	185.38	
			<i>For Class 55 Rating, Add</i>	279.01	
			<i>For Class 56 Rating, Add</i>	371.45	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,788.00	370.08
			<i>For Class 52 Rating, Deduct</i>	-135.00	
			<i>For Class 54 Rating, Add</i>	190.82	
			<i>For Class 55 Rating, Add</i>	287.14	
			<i>For Class 56 Rating, Add</i>	382.23	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,830.55	374.59
			<i>For Class 52 Rating, Deduct</i>	-138.93	
			<i>For Class 54 Rating, Add</i>	196.26	
			<i>For Class 55 Rating, Add</i>	295.27	
			<i>For Class 56 Rating, Add</i>	393.02	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,873.10	379.08
			<i>For Class 52 Rating, Deduct</i>	-142.86	
			<i>For Class 54 Rating, Add</i>	201.70	
			<i>For Class 55 Rating, Add</i>	303.40	
			<i>For Class 56 Rating, Add</i>	403.80	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,915.65	383.59
			<i>For Class 52 Rating, Deduct</i>	-146.79	
			<i>For Class 54 Rating, Add</i>	207.14	
			<i>For Class 55 Rating, Add</i>	311.53	
			<i>For Class 56 Rating, Add</i>	414.59	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,958.22	388.09
			<i>For Class 52 Rating, Deduct</i>	-150.72	
			<i>For Class 54 Rating, Add</i>	212.59	
			<i>For Class 55 Rating, Add</i>	319.67	
			<i>For Class 56 Rating, Add</i>	425.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,000.77	392.60
<i>For Class 52 Rating, Deduct</i>	-154.65	
<i>For Class 54 Rating, Add</i>	218.03	
<i>For Class 55 Rating, Add</i>	327.80	
<i>For Class 56 Rating, Add</i>	436.16	
40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,043.32	397.09
<i>For Class 52 Rating, Deduct</i>	-158.58	
<i>For Class 54 Rating, Add</i>	223.47	
<i>For Class 55 Rating, Add</i>	335.93	
<i>For Class 56 Rating, Add</i>	446.95	
40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.87	401.59
<i>For Class 52 Rating, Deduct</i>	-162.51	
<i>For Class 54 Rating, Add</i>	228.91	
<i>For Class 55 Rating, Add</i>	344.06	
<i>For Class 56 Rating, Add</i>	457.74	
40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,128.43	406.10
<i>For Class 52 Rating, Deduct</i>	-166.44	
<i>For Class 54 Rating, Add</i>	234.35	
<i>For Class 55 Rating, Add</i>	352.20	
<i>For Class 56 Rating, Add</i>	468.52	
40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,170.98	410.60
<i>For Class 52 Rating, Deduct</i>	-170.37	
<i>For Class 54 Rating, Add</i>	239.79	
<i>For Class 55 Rating, Add</i>	360.33	
<i>For Class 56 Rating, Add</i>	479.31	
40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,213.53	415.11
<i>For Class 52 Rating, Deduct</i>	-174.30	
<i>For Class 54 Rating, Add</i>	245.24	
<i>For Class 55 Rating, Add</i>	368.46	
<i>For Class 56 Rating, Add</i>	490.10	
40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,256.09	419.60
<i>For Class 52 Rating, Deduct</i>	-178.24	
<i>For Class 54 Rating, Add</i>	250.68	
<i>For Class 55 Rating, Add</i>	376.59	
<i>For Class 56 Rating, Add</i>	500.88	
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,298.65	424.11
<i>For Class 52 Rating, Deduct</i>	-182.17	
<i>For Class 54 Rating, Add</i>	256.12	
<i>For Class 55 Rating, Add</i>	384.72	
<i>For Class 56 Rating, Add</i>	511.67	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,341.20	428.61
<i>For Class 52 Rating, Deduct</i>	-186.10	
<i>For Class 54 Rating, Add</i>	261.56	
<i>For Class 55 Rating, Add</i>	392.86	
<i>For Class 56 Rating, Add</i>	522.46	
40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	915.81	324.16
<i>For Class 52 Rating, Deduct</i>	-46.71	
<i>For Class 54 Rating, Add</i>	69.59	
<i>For Class 55 Rating, Add</i>	106.49	
<i>For Class 56 Rating, Add</i>	142.96	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	966.61	328.66
<i>For Class 52 Rating, Deduct</i>	-51.55	
<i>For Class 54 Rating, Add</i>	76.27	
<i>For Class 55 Rating, Add</i>	116.46	
<i>For Class 56 Rating, Add</i>	156.18	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,017.42	333.17
<i>For Class 52 Rating, Deduct</i>	-56.39	
<i>For Class 54 Rating, Add</i>	82.95	
<i>For Class 55 Rating, Add</i>	126.43	
<i>For Class 56 Rating, Add</i>	169.40	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,068.21	337.67
<i>For Class 52 Rating, Deduct</i>	-61.23	
<i>For Class 54 Rating, Add</i>	89.63	
<i>For Class 55 Rating, Add</i>	136.40	
<i>For Class 56 Rating, Add</i>	182.61	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.01	342.16
<i>For Class 52 Rating, Deduct</i>	-66.06	
<i>For Class 54 Rating, Add</i>	96.31	
<i>For Class 55 Rating, Add</i>	146.37	
<i>For Class 56 Rating, Add</i>	195.83	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,169.82	346.67
<i>For Class 52 Rating, Deduct</i>	-70.90	
<i>For Class 54 Rating, Add</i>	102.99	
<i>For Class 55 Rating, Add</i>	156.34	
<i>For Class 56 Rating, Add</i>	209.05	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,220.61	351.17
<i>For Class 52 Rating, Deduct</i>	-75.74	
<i>For Class 54 Rating, Add</i>	109.66	
<i>For Class 55 Rating, Add</i>	166.31	
<i>For Class 56 Rating, Add</i>	222.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,271.41	355.68
			<i>For Class 52 Rating, Deduct</i>	-80.58	
			<i>For Class 54 Rating, Add</i>	116.34	
			<i>For Class 55 Rating, Add</i>	176.28	
			<i>For Class 56 Rating, Add</i>	235.49	
40 05 19 00-0052	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,322.21	360.17
			<i>For Class 52 Rating, Deduct</i>	-85.41	
			<i>For Class 54 Rating, Add</i>	123.02	
			<i>For Class 55 Rating, Add</i>	186.25	
			<i>For Class 56 Rating, Add</i>	248.71	
40 05 19 00-0053	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,373.02	364.68
			<i>For Class 52 Rating, Deduct</i>	-90.25	
			<i>For Class 54 Rating, Add</i>	129.70	
			<i>For Class 55 Rating, Add</i>	196.23	
			<i>For Class 56 Rating, Add</i>	261.93	
40 05 19 00-0054	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,423.81	369.18
			<i>For Class 52 Rating, Deduct</i>	-95.09	
			<i>For Class 54 Rating, Add</i>	136.38	
			<i>For Class 55 Rating, Add</i>	206.20	
			<i>For Class 56 Rating, Add</i>	275.15	
40 05 19 00-0055	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,474.61	373.69
			<i>For Class 52 Rating, Deduct</i>	-99.93	
			<i>For Class 54 Rating, Add</i>	143.06	
			<i>For Class 55 Rating, Add</i>	216.17	
			<i>For Class 56 Rating, Add</i>	288.37	
40 05 19 00-0056	EA		6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,525.41	378.18
			<i>For Class 52 Rating, Deduct</i>	-104.76	
			<i>For Class 54 Rating, Add</i>	149.74	
			<i>For Class 55 Rating, Add</i>	226.14	
			<i>For Class 56 Rating, Add</i>	301.59	
40 05 19 00-0057	EA		6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,576.21	382.69
			<i>For Class 52 Rating, Deduct</i>	-109.60	
			<i>For Class 54 Rating, Add</i>	156.41	
			<i>For Class 55 Rating, Add</i>	236.11	
			<i>For Class 56 Rating, Add</i>	314.81	
40 05 19 00-0058	EA		6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,627.01	387.19
			<i>For Class 52 Rating, Deduct</i>	-114.44	
			<i>For Class 54 Rating, Add</i>	163.09	
			<i>For Class 55 Rating, Add</i>	246.08	
			<i>For Class 56 Rating, Add</i>	328.03	
40 05 19 00-0059	EA		6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,677.82	391.69
			<i>For Class 52 Rating, Deduct</i>	-119.28	
			<i>For Class 54 Rating, Add</i>	169.77	
			<i>For Class 55 Rating, Add</i>	256.05	
			<i>For Class 56 Rating, Add</i>	341.25	
40 05 19 00-0060	EA		6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,728.62	396.19
			<i>For Class 52 Rating, Deduct</i>	-124.12	
			<i>For Class 54 Rating, Add</i>	176.45	
			<i>For Class 55 Rating, Add</i>	266.02	
			<i>For Class 56 Rating, Add</i>	354.47	
40 05 19 00-0061	EA		6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,779.41	400.69
			<i>For Class 52 Rating, Deduct</i>	-128.95	
			<i>For Class 54 Rating, Add</i>	183.13	
			<i>For Class 55 Rating, Add</i>	275.99	
			<i>For Class 56 Rating, Add</i>	367.68	
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,830.20	405.20
			<i>For Class 52 Rating, Deduct</i>	-133.79	
			<i>For Class 54 Rating, Add</i>	189.81	
			<i>For Class 55 Rating, Add</i>	285.96	
			<i>For Class 56 Rating, Add</i>	380.90	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,881.01	409.70
			<i>For Class 52 Rating, Deduct</i>	-138.63	
			<i>For Class 54 Rating, Add</i>	196.49	
			<i>For Class 55 Rating, Add</i>	295.93	
			<i>For Class 56 Rating, Add</i>	394.12	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,931.81	414.21
			<i>For Class 52 Rating, Deduct</i>	-143.47	
			<i>For Class 54 Rating, Add</i>	203.17	
			<i>For Class 55 Rating, Add</i>	305.91	
			<i>For Class 56 Rating, Add</i>	407.34	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,982.61	418.70
			<i>For Class 52 Rating, Deduct</i>	-148.30	
			<i>For Class 54 Rating, Add</i>	209.84	
			<i>For Class 55 Rating, Add</i>	315.88	
			<i>For Class 56 Rating, Add</i>	420.56	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,033.42	423.21
			<i>For Class 52 Rating, Deduct</i>	-153.14	
			<i>For Class 54 Rating, Add</i>	216.52	
			<i>For Class 55 Rating, Add</i>	325.85	
			<i>For Class 56 Rating, Add</i>	433.78	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,084.21	427.71
			<i>For Class 52 Rating, Deduct</i>	-157.98	
			<i>For Class 54 Rating, Add</i>	223.20	
			<i>For Class 55 Rating, Add</i>	335.82	
			<i>For Class 56 Rating, Add</i>	447.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,135.00	432.22
<i>For Class 52 Rating, Deduct</i>	-162.82	
<i>For Class 54 Rating, Add</i>	229.88	
<i>For Class 55 Rating, Add</i>	345.79	
<i>For Class 56 Rating, Add</i>	460.22	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,185.80	436.71
<i>For Class 52 Rating, Deduct</i>	-167.65	
<i>For Class 54 Rating, Add</i>	236.56	
<i>For Class 55 Rating, Add</i>	355.76	
<i>For Class 56 Rating, Add</i>	473.44	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,238.61	441.21
<i>For Class 52 Rating, Deduct</i>	-172.49	
<i>For Class 54 Rating, Add</i>	243.24	
<i>For Class 55 Rating, Add</i>	365.73	
<i>For Class 56 Rating, Add</i>	486.66	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.41	445.72
<i>For Class 52 Rating, Deduct</i>	-177.33	
<i>For Class 54 Rating, Add</i>	249.92	
<i>For Class 55 Rating, Add</i>	375.70	
<i>For Class 56 Rating, Add</i>	499.88	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.21	450.22
<i>For Class 52 Rating, Deduct</i>	-182.17	
<i>For Class 54 Rating, Add</i>	256.59	
<i>For Class 55 Rating, Add</i>	385.67	
<i>For Class 56 Rating, Add</i>	513.10	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,389.01	454.72
<i>For Class 52 Rating, Deduct</i>	-187.00	
<i>For Class 54 Rating, Add</i>	263.27	
<i>For Class 55 Rating, Add</i>	395.64	
<i>For Class 56 Rating, Add</i>	526.31	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,439.81	459.22
<i>For Class 52 Rating, Deduct</i>	-191.84	
<i>For Class 54 Rating, Add</i>	269.95	
<i>For Class 55 Rating, Add</i>	405.61	
<i>For Class 56 Rating, Add</i>	539.53	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,490.60	463.73
<i>For Class 52 Rating, Deduct</i>	-196.68	
<i>For Class 54 Rating, Add</i>	276.63	
<i>For Class 55 Rating, Add</i>	415.58	
<i>For Class 56 Rating, Add</i>	552.75	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,541.41	468.23
<i>For Class 52 Rating, Deduct</i>	-201.52	
<i>For Class 54 Rating, Add</i>	283.31	
<i>For Class 55 Rating, Add</i>	425.56	
<i>For Class 56 Rating, Add</i>	565.97	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,592.21	472.74
<i>For Class 52 Rating, Deduct</i>	-206.35	
<i>For Class 54 Rating, Add</i>	289.99	
<i>For Class 55 Rating, Add</i>	435.53	
<i>For Class 56 Rating, Add</i>	579.19	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,643.00	477.23
<i>For Class 52 Rating, Deduct</i>	-211.19	
<i>For Class 54 Rating, Add</i>	296.66	
<i>For Class 55 Rating, Add</i>	445.50	
<i>For Class 56 Rating, Add</i>	592.41	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,693.80	481.74
<i>For Class 52 Rating, Deduct</i>	-216.03	
<i>For Class 54 Rating, Add</i>	303.34	
<i>For Class 55 Rating, Add</i>	455.47	
<i>For Class 56 Rating, Add</i>	605.63	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.61	486.24
<i>For Class 52 Rating, Deduct</i>	-220.87	
<i>For Class 54 Rating, Add</i>	310.02	
<i>For Class 55 Rating, Add</i>	465.44	
<i>For Class 56 Rating, Add</i>	618.85	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.41	490.74
<i>For Class 52 Rating, Deduct</i>	-225.70	
<i>For Class 54 Rating, Add</i>	316.70	
<i>For Class 55 Rating, Add</i>	475.41	
<i>For Class 56 Rating, Add</i>	632.07	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,846.20	495.24
<i>For Class 52 Rating, Deduct</i>	-230.54	
<i>For Class 54 Rating, Add</i>	323.38	
<i>For Class 55 Rating, Add</i>	485.38	
<i>For Class 56 Rating, Add</i>	645.29	
40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-0002)</small>		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,252.90	414.21
<i>For Class 52 Rating, Deduct</i>	-68.79	
<i>For Class 54 Rating, Add</i>	101.33	
<i>For Class 55 Rating, Add</i>	154.51	
<i>For Class 56 Rating, Add</i>	207.06	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,320.19	418.70
		<i>For Class 52 Rating, Deduct</i>	-75.44	
		<i>For Class 54 Rating, Add</i>	110.48	
		<i>For Class 55 Rating, Add</i>	168.16	
		<i>For Class 56 Rating, Add</i>	225.15	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,387.49	423.21
		<i>For Class 52 Rating, Deduct</i>	-82.09	
		<i>For Class 54 Rating, Add</i>	119.63	
		<i>For Class 55 Rating, Add</i>	181.81	
		<i>For Class 56 Rating, Add</i>	243.23	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,454.78	427.71
		<i>For Class 52 Rating, Deduct</i>	-88.74	
		<i>For Class 54 Rating, Add</i>	128.79	
		<i>For Class 55 Rating, Add</i>	195.45	
		<i>For Class 56 Rating, Add</i>	261.32	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,522.06	432.22
		<i>For Class 52 Rating, Deduct</i>	-95.39	
		<i>For Class 54 Rating, Add</i>	137.94	
		<i>For Class 55 Rating, Add</i>	209.10	
		<i>For Class 56 Rating, Add</i>	279.40	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,589.35	436.71
		<i>For Class 52 Rating, Deduct</i>	-102.04	
		<i>For Class 54 Rating, Add</i>	147.09	
		<i>For Class 55 Rating, Add</i>	222.75	
		<i>For Class 56 Rating, Add</i>	297.48	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,656.65	441.21
		<i>For Class 52 Rating, Deduct</i>	-108.70	
		<i>For Class 54 Rating, Add</i>	156.24	
		<i>For Class 55 Rating, Add</i>	236.40	
		<i>For Class 56 Rating, Add</i>	315.57	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,723.94	445.72
		<i>For Class 52 Rating, Deduct</i>	-115.35	
		<i>For Class 54 Rating, Add</i>	165.40	
		<i>For Class 55 Rating, Add</i>	250.05	
		<i>For Class 56 Rating, Add</i>	333.65	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,791.23	450.22
		<i>For Class 52 Rating, Deduct</i>	-122.00	
		<i>For Class 54 Rating, Add</i>	174.55	
		<i>For Class 55 Rating, Add</i>	263.70	
		<i>For Class 56 Rating, Add</i>	351.74	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,858.53	454.72
		<i>For Class 52 Rating, Deduct</i>	-128.65	
		<i>For Class 54 Rating, Add</i>	183.70	
		<i>For Class 55 Rating, Add</i>	277.35	
		<i>For Class 56 Rating, Add</i>	369.82	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,925.82	459.22
		<i>For Class 52 Rating, Deduct</i>	-135.30	
		<i>For Class 54 Rating, Add</i>	192.85	
		<i>For Class 55 Rating, Add</i>	290.99	
		<i>For Class 56 Rating, Add</i>	387.90	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,993.10	463.73
		<i>For Class 52 Rating, Deduct</i>	-141.95	
		<i>For Class 54 Rating, Add</i>	202.00	
		<i>For Class 55 Rating, Add</i>	304.64	
		<i>For Class 56 Rating, Add</i>	405.99	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,060.40	468.23
		<i>For Class 52 Rating, Deduct</i>	-148.61	
		<i>For Class 54 Rating, Add</i>	211.16	
		<i>For Class 55 Rating, Add</i>	318.29	
		<i>For Class 56 Rating, Add</i>	424.07	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,127.69	472.74
		<i>For Class 52 Rating, Deduct</i>	-155.26	
		<i>For Class 54 Rating, Add</i>	220.31	
		<i>For Class 55 Rating, Add</i>	331.94	
		<i>For Class 56 Rating, Add</i>	442.16	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,194.98	477.23
		<i>For Class 52 Rating, Deduct</i>	-161.91	
		<i>For Class 54 Rating, Add</i>	229.46	
		<i>For Class 55 Rating, Add</i>	345.59	
		<i>For Class 56 Rating, Add</i>	460.24	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,262.27	481.74
		<i>For Class 52 Rating, Deduct</i>	-168.56	
		<i>For Class 54 Rating, Add</i>	238.61	
		<i>For Class 55 Rating, Add</i>	359.24	
		<i>For Class 56 Rating, Add</i>	478.33	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,329.57	486.24
		<i>For Class 52 Rating, Deduct</i>	-175.21	
		<i>For Class 54 Rating, Add</i>	247.77	
		<i>For Class 55 Rating, Add</i>	372.88	
		<i>For Class 56 Rating, Add</i>	496.41	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,396.86	490.74
		<i>For Class 52 Rating, Deduct</i>	-181.86	
		<i>For Class 54 Rating, Add</i>	256.92	
		<i>For Class 55 Rating, Add</i>	386.53	
		<i>For Class 56 Rating, Add</i>	514.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.14	495.24
<i>For Class 52 Rating, Deduct</i>	-188.52	
<i>For Class 54 Rating, Add</i>	266.07	
<i>For Class 55 Rating, Add</i>	400.18	
<i>For Class 56 Rating, Add</i>	532.58	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,531.44	499.74
<i>For Class 52 Rating, Deduct</i>	-195.17	
<i>For Class 54 Rating, Add</i>	275.22	
<i>For Class 55 Rating, Add</i>	413.83	
<i>For Class 56 Rating, Add</i>	550.66	
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,598.73	504.25
<i>For Class 52 Rating, Deduct</i>	-201.82	
<i>For Class 54 Rating, Add</i>	284.38	
<i>For Class 55 Rating, Add</i>	427.48	
<i>For Class 56 Rating, Add</i>	568.75	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,666.02	508.75
<i>For Class 52 Rating, Deduct</i>	-208.47	
<i>For Class 54 Rating, Add</i>	293.53	
<i>For Class 55 Rating, Add</i>	441.13	
<i>For Class 56 Rating, Add</i>	586.83	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,733.31	513.25
<i>For Class 52 Rating, Deduct</i>	-215.12	
<i>For Class 54 Rating, Add</i>	302.68	
<i>For Class 55 Rating, Add</i>	454.78	
<i>For Class 56 Rating, Add</i>	604.92	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,800.61	517.75
<i>For Class 52 Rating, Deduct</i>	-221.77	
<i>For Class 54 Rating, Add</i>	311.83	
<i>For Class 55 Rating, Add</i>	468.42	
<i>For Class 56 Rating, Add</i>	623.00	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,867.90	522.26
<i>For Class 52 Rating, Deduct</i>	-228.43	
<i>For Class 54 Rating, Add</i>	320.99	
<i>For Class 55 Rating, Add</i>	482.07	
<i>For Class 56 Rating, Add</i>	641.08	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,935.18	526.76
<i>For Class 52 Rating, Deduct</i>	-235.08	
<i>For Class 54 Rating, Add</i>	330.14	
<i>For Class 55 Rating, Add</i>	495.72	
<i>For Class 56 Rating, Add</i>	659.17	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,002.48	531.26
<i>For Class 52 Rating, Deduct</i>	-241.73	
<i>For Class 54 Rating, Add</i>	339.29	
<i>For Class 55 Rating, Add</i>	509.37	
<i>For Class 56 Rating, Add</i>	677.25	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,069.77	535.76
<i>For Class 52 Rating, Deduct</i>	-248.38	
<i>For Class 54 Rating, Add</i>	348.44	
<i>For Class 55 Rating, Add</i>	523.02	
<i>For Class 56 Rating, Add</i>	695.34	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,137.06	540.26
<i>For Class 52 Rating, Deduct</i>	-255.03	
<i>For Class 54 Rating, Add</i>	357.59	
<i>For Class 55 Rating, Add</i>	536.67	
<i>For Class 56 Rating, Add</i>	713.42	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,204.36	544.77
<i>For Class 52 Rating, Deduct</i>	-261.68	
<i>For Class 54 Rating, Add</i>	366.75	
<i>For Class 55 Rating, Add</i>	550.32	
<i>For Class 56 Rating, Add</i>	731.51	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,271.65	549.27
<i>For Class 52 Rating, Deduct</i>	-268.34	
<i>For Class 54 Rating, Add</i>	375.90	
<i>For Class 55 Rating, Add</i>	563.96	
<i>For Class 56 Rating, Add</i>	749.59	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,338.94	553.77
<i>For Class 52 Rating, Deduct</i>	-274.99	
<i>For Class 54 Rating, Add</i>	385.05	
<i>For Class 55 Rating, Add</i>	577.61	
<i>For Class 56 Rating, Add</i>	767.67	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,406.23	558.27
<i>For Class 52 Rating, Deduct</i>	-281.64	
<i>For Class 54 Rating, Add</i>	394.20	
<i>For Class 55 Rating, Add</i>	591.26	
<i>For Class 56 Rating, Add</i>	785.76	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,473.52	562.78
<i>For Class 52 Rating, Deduct</i>	-288.29	
<i>For Class 54 Rating, Add</i>	403.36	
<i>For Class 55 Rating, Add</i>	604.91	
<i>For Class 56 Rating, Add</i>	803.84	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,540.81	567.28
<i>For Class 52 Rating, Deduct</i>	-294.94	
<i>For Class 54 Rating, Add</i>	412.51	
<i>For Class 55 Rating, Add</i>	618.56	
<i>For Class 56 Rating, Add</i>	821.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,608.10	571.78
			<i>For Class 52 Rating, Deduct</i>	-301.59	
			<i>For Class 54 Rating, Add</i>	421.66	
			<i>For Class 55 Rating, Add</i>	632.21	
			<i>For Class 56 Rating, Add</i>	840.01	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,675.40	576.28
			<i>For Class 52 Rating, Deduct</i>	-308.25	
			<i>For Class 54 Rating, Add</i>	430.81	
			<i>For Class 55 Rating, Add</i>	645.86	
			<i>For Class 56 Rating, Add</i>	858.09	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,742.69	580.79
			<i>For Class 52 Rating, Deduct</i>	-314.90	
			<i>For Class 54 Rating, Add</i>	439.97	
			<i>For Class 55 Rating, Add</i>	659.50	
			<i>For Class 56 Rating, Add</i>	876.18	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,809.98	585.29
			<i>For Class 52 Rating, Deduct</i>	-321.55	
			<i>For Class 54 Rating, Add</i>	449.12	
			<i>For Class 55 Rating, Add</i>	673.15	
			<i>For Class 56 Rating, Add</i>	894.26	
40 05 19 00-0123			10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,566.61	504.25
			<i>For Class 52 Rating, Deduct</i>	-88.29	
			<i>For Class 54 Rating, Add</i>	129.56	
			<i>For Class 55 Rating, Add</i>	197.32	
			<i>For Class 56 Rating, Add</i>	264.27	
40 05 19 00-0125	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,653.14	508.75
			<i>For Class 52 Rating, Deduct</i>	-97.05	
			<i>For Class 54 Rating, Add</i>	141.60	
			<i>For Class 55 Rating, Add</i>	215.26	
			<i>For Class 56 Rating, Add</i>	288.03	
40 05 19 00-0126	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,739.67	513.25
			<i>For Class 52 Rating, Deduct</i>	-105.82	
			<i>For Class 54 Rating, Add</i>	153.63	
			<i>For Class 55 Rating, Add</i>	233.19	
			<i>For Class 56 Rating, Add</i>	311.79	
40 05 19 00-0127	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,826.21	517.75
			<i>For Class 52 Rating, Deduct</i>	-114.59	
			<i>For Class 54 Rating, Add</i>	165.67	
			<i>For Class 55 Rating, Add</i>	251.13	
			<i>For Class 56 Rating, Add</i>	335.55	
40 05 19 00-0128	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,912.75	522.26
			<i>For Class 52 Rating, Deduct</i>	-123.36	
			<i>For Class 54 Rating, Add</i>	177.71	
			<i>For Class 55 Rating, Add</i>	269.07	
			<i>For Class 56 Rating, Add</i>	359.31	
40 05 19 00-0129	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,999.27	526.76
			<i>For Class 52 Rating, Deduct</i>	-132.13	
			<i>For Class 54 Rating, Add</i>	189.75	
			<i>For Class 55 Rating, Add</i>	287.01	
			<i>For Class 56 Rating, Add</i>	383.07	
40 05 19 00-0130	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.81	531.26
			<i>For Class 52 Rating, Deduct</i>	-140.90	
			<i>For Class 54 Rating, Add</i>	201.79	
			<i>For Class 55 Rating, Add</i>	304.95	
			<i>For Class 56 Rating, Add</i>	406.83	
40 05 19 00-0131	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,172.34	535.76
			<i>For Class 52 Rating, Deduct</i>	-149.66	
			<i>For Class 54 Rating, Add</i>	213.83	
			<i>For Class 55 Rating, Add</i>	322.89	
			<i>For Class 56 Rating, Add</i>	430.59	
40 05 19 00-0132	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,258.87	540.26
			<i>For Class 52 Rating, Deduct</i>	-158.43	
			<i>For Class 54 Rating, Add</i>	225.87	
			<i>For Class 55 Rating, Add</i>	340.83	
			<i>For Class 56 Rating, Add</i>	454.35	
40 05 19 00-0133	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,345.41	544.77
			<i>For Class 52 Rating, Deduct</i>	-167.20	
			<i>For Class 54 Rating, Add</i>	237.90	
			<i>For Class 55 Rating, Add</i>	358.77	
			<i>For Class 56 Rating, Add</i>	478.11	
40 05 19 00-0134	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,431.94	549.27
			<i>For Class 52 Rating, Deduct</i>	-175.97	
			<i>For Class 54 Rating, Add</i>	249.94	
			<i>For Class 55 Rating, Add</i>	376.71	
			<i>For Class 56 Rating, Add</i>	501.87	
40 05 19 00-0135	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,518.47	553.77
			<i>For Class 52 Rating, Deduct</i>	-184.74	
			<i>For Class 54 Rating, Add</i>	261.98	
			<i>For Class 55 Rating, Add</i>	394.65	
			<i>For Class 56 Rating, Add</i>	525.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,605.00	558.27
<i>For Class 52 Rating, Deduct</i>	-193.50	
<i>For Class 54 Rating, Add</i>	274.02	
<i>For Class 55 Rating, Add</i>	412.59	
<i>For Class 56 Rating, Add</i>	549.39	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,691.53	562.78
<i>For Class 52 Rating, Deduct</i>	-202.27	
<i>For Class 54 Rating, Add</i>	286.06	
<i>For Class 55 Rating, Add</i>	430.53	
<i>For Class 56 Rating, Add</i>	573.15	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,778.06	567.28
<i>For Class 52 Rating, Deduct</i>	-211.04	
<i>For Class 54 Rating, Add</i>	298.10	
<i>For Class 55 Rating, Add</i>	448.46	
<i>For Class 56 Rating, Add</i>	596.91	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,864.59	571.78
<i>For Class 52 Rating, Deduct</i>	-219.81	
<i>For Class 54 Rating, Add</i>	310.13	
<i>For Class 55 Rating, Add</i>	466.40	
<i>For Class 56 Rating, Add</i>	620.67	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,951.13	576.28
<i>For Class 52 Rating, Deduct</i>	-228.58	
<i>For Class 54 Rating, Add</i>	322.17	
<i>For Class 55 Rating, Add</i>	484.34	
<i>For Class 56 Rating, Add</i>	644.43	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,037.66	580.79
<i>For Class 52 Rating, Deduct</i>	-237.34	
<i>For Class 54 Rating, Add</i>	334.21	
<i>For Class 55 Rating, Add</i>	502.28	
<i>For Class 56 Rating, Add</i>	668.19	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,124.19	585.29
<i>For Class 52 Rating, Deduct</i>	-246.11	
<i>For Class 54 Rating, Add</i>	346.25	
<i>For Class 55 Rating, Add</i>	520.22	
<i>For Class 56 Rating, Add</i>	691.95	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,210.72	589.78
<i>For Class 52 Rating, Deduct</i>	-254.88	
<i>For Class 54 Rating, Add</i>	358.29	
<i>For Class 55 Rating, Add</i>	538.16	
<i>For Class 56 Rating, Add</i>	715.71	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,297.25	594.29
<i>For Class 52 Rating, Deduct</i>	-263.65	
<i>For Class 54 Rating, Add</i>	370.33	
<i>For Class 55 Rating, Add</i>	556.10	
<i>For Class 56 Rating, Add</i>	739.47	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,383.78	598.79
<i>For Class 52 Rating, Deduct</i>	-272.42	
<i>For Class 54 Rating, Add</i>	382.37	
<i>For Class 55 Rating, Add</i>	574.04	
<i>For Class 56 Rating, Add</i>	763.23	
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,470.32	603.30
<i>For Class 52 Rating, Deduct</i>	-281.19	
<i>For Class 54 Rating, Add</i>	394.40	
<i>For Class 55 Rating, Add</i>	591.98	
<i>For Class 56 Rating, Add</i>	787.00	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,556.86	607.80
<i>For Class 52 Rating, Deduct</i>	-289.95	
<i>For Class 54 Rating, Add</i>	406.44	
<i>For Class 55 Rating, Add</i>	609.92	
<i>For Class 56 Rating, Add</i>	810.76	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,643.39	612.30
<i>For Class 52 Rating, Deduct</i>	-298.72	
<i>For Class 54 Rating, Add</i>	418.48	
<i>For Class 55 Rating, Add</i>	627.86	
<i>For Class 56 Rating, Add</i>	834.52	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,729.92	616.80
<i>For Class 52 Rating, Deduct</i>	-307.49	
<i>For Class 54 Rating, Add</i>	430.52	
<i>For Class 55 Rating, Add</i>	645.80	
<i>For Class 56 Rating, Add</i>	858.28	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,816.45	621.31
<i>For Class 52 Rating, Deduct</i>	-316.26	
<i>For Class 54 Rating, Add</i>	442.56	
<i>For Class 55 Rating, Add</i>	663.74	
<i>For Class 56 Rating, Add</i>	882.04	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,902.98	625.81
<i>For Class 52 Rating, Deduct</i>	-325.03	
<i>For Class 54 Rating, Add</i>	454.60	
<i>For Class 55 Rating, Add</i>	681.67	
<i>For Class 56 Rating, Add</i>	905.80	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,989.51	630.31
<i>For Class 52 Rating, Deduct</i>	-333.80	
<i>For Class 54 Rating, Add</i>	466.64	
<i>For Class 55 Rating, Add</i>	699.61	
<i>For Class 56 Rating, Add</i>	929.56	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,076.04	634.81
		<i>For Class 52 Rating, Deduct</i>	-342.56	
		<i>For Class 54 Rating, Add</i>	478.67	
		<i>For Class 55 Rating, Add</i>	717.55	
		<i>For Class 56 Rating, Add</i>	953.32	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,162.58	639.31
		<i>For Class 52 Rating, Deduct</i>	-351.33	
		<i>For Class 54 Rating, Add</i>	490.71	
		<i>For Class 55 Rating, Add</i>	735.49	
		<i>For Class 56 Rating, Add</i>	977.08	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,247.74	643.82
		<i>For Class 52 Rating, Deduct</i>	-359.95	
		<i>For Class 54 Rating, Add</i>	502.54	
		<i>For Class 55 Rating, Add</i>	753.13	
		<i>For Class 56 Rating, Add</i>	1,000.43	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,335.64	648.31
		<i>For Class 52 Rating, Deduct</i>	-368.87	
		<i>For Class 54 Rating, Add</i>	514.79	
		<i>For Class 55 Rating, Add</i>	771.37	
		<i>For Class 56 Rating, Add</i>	1,024.60	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,422.18	652.82
		<i>For Class 52 Rating, Deduct</i>	-377.64	
		<i>For Class 54 Rating, Add</i>	526.83	
		<i>For Class 55 Rating, Add</i>	789.31	
		<i>For Class 56 Rating, Add</i>	1,048.36	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,508.70	657.32
		<i>For Class 52 Rating, Deduct</i>	-386.40	
		<i>For Class 54 Rating, Add</i>	538.87	
		<i>For Class 55 Rating, Add</i>	807.25	
		<i>For Class 56 Rating, Add</i>	1,072.12	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,595.23	661.83
		<i>For Class 52 Rating, Deduct</i>	-395.17	
		<i>For Class 54 Rating, Add</i>	550.90	
		<i>For Class 55 Rating, Add</i>	825.19	
		<i>For Class 56 Rating, Add</i>	1,095.88	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,681.76	666.33
		<i>For Class 52 Rating, Deduct</i>	-403.94	
		<i>For Class 54 Rating, Add</i>	562.94	
		<i>For Class 55 Rating, Add</i>	843.13	
		<i>For Class 56 Rating, Add</i>	1,119.64	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,768.30	670.83
		<i>For Class 52 Rating, Deduct</i>	-412.71	
		<i>For Class 54 Rating, Add</i>	574.98	
		<i>For Class 55 Rating, Add</i>	861.07	
		<i>For Class 56 Rating, Add</i>	1,143.40	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,854.83	675.33
		<i>For Class 52 Rating, Deduct</i>	-421.48	
		<i>For Class 54 Rating, Add</i>	587.02	
		<i>For Class 55 Rating, Add</i>	879.00	
		<i>For Class 56 Rating, Add</i>	1,167.16	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,029.73	630.31
		<i>For Class 52 Rating, Deduct</i>	-118.22	
		<i>For Class 54 Rating, Add</i>	172.67	
		<i>For Class 55 Rating, Add</i>	262.58	
		<i>For Class 56 Rating, Add</i>	351.42	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,136.87	634.81
		<i>For Class 52 Rating, Deduct</i>	-129.25	
		<i>For Class 54 Rating, Add</i>	187.80	
		<i>For Class 55 Rating, Add</i>	285.12	
		<i>For Class 56 Rating, Add</i>	381.26	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.03	639.31
		<i>For Class 52 Rating, Deduct</i>	-140.29	
		<i>For Class 54 Rating, Add</i>	202.93	
		<i>For Class 55 Rating, Add</i>	307.66	
		<i>For Class 56 Rating, Add</i>	411.11	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.17	643.82
		<i>For Class 52 Rating, Deduct</i>	-151.33	
		<i>For Class 54 Rating, Add</i>	218.06	
		<i>For Class 55 Rating, Add</i>	330.19	
		<i>For Class 56 Rating, Add</i>	440.95	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,458.32	648.31
		<i>For Class 52 Rating, Deduct</i>	-162.36	
		<i>For Class 54 Rating, Add</i>	233.19	
		<i>For Class 55 Rating, Add</i>	352.73	
		<i>For Class 56 Rating, Add</i>	470.79	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,565.47	652.82
		<i>For Class 52 Rating, Deduct</i>	-173.40	
		<i>For Class 54 Rating, Add</i>	248.32	
		<i>For Class 55 Rating, Add</i>	375.26	
		<i>For Class 56 Rating, Add</i>	500.63	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,672.61	657.32
<i>For Class 52 Rating, Deduct</i>	-184.43	
<i>For Class 54 Rating, Add</i>	263.45	
<i>For Class 55 Rating, Add</i>	397.80	
<i>For Class 56 Rating, Add</i>	530.47	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,779.76	661.83
<i>For Class 52 Rating, Deduct</i>	-195.47	
<i>For Class 54 Rating, Add</i>	278.58	
<i>For Class 55 Rating, Add</i>	420.34	
<i>For Class 56 Rating, Add</i>	560.31	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,886.90	666.33
<i>For Class 52 Rating, Deduct</i>	-206.51	
<i>For Class 54 Rating, Add</i>	293.71	
<i>For Class 55 Rating, Add</i>	442.87	
<i>For Class 56 Rating, Add</i>	590.15	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,994.06	670.83
<i>For Class 52 Rating, Deduct</i>	-217.54	
<i>For Class 54 Rating, Add</i>	308.84	
<i>For Class 55 Rating, Add</i>	465.41	
<i>For Class 56 Rating, Add</i>	620.00	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,101.20	675.33
<i>For Class 52 Rating, Deduct</i>	-228.58	
<i>For Class 54 Rating, Add</i>	323.97	
<i>For Class 55 Rating, Add</i>	487.94	
<i>For Class 56 Rating, Add</i>	649.84	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,208.35	679.84
<i>For Class 52 Rating, Deduct</i>	-239.61	
<i>For Class 54 Rating, Add</i>	339.11	
<i>For Class 55 Rating, Add</i>	510.48	
<i>For Class 56 Rating, Add</i>	679.68	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,315.50	684.34
<i>For Class 52 Rating, Deduct</i>	-250.65	
<i>For Class 54 Rating, Add</i>	354.24	
<i>For Class 55 Rating, Add</i>	533.02	
<i>For Class 56 Rating, Add</i>	709.52	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,422.64	688.83
<i>For Class 52 Rating, Deduct</i>	-261.68	
<i>For Class 54 Rating, Add</i>	369.37	
<i>For Class 55 Rating, Add</i>	555.55	
<i>For Class 56 Rating, Add</i>	739.36	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,529.78	693.34
<i>For Class 52 Rating, Deduct</i>	-272.72	
<i>For Class 54 Rating, Add</i>	384.50	
<i>For Class 55 Rating, Add</i>	578.09	
<i>For Class 56 Rating, Add</i>	769.20	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,636.93	697.84
<i>For Class 52 Rating, Deduct</i>	-283.76	
<i>For Class 54 Rating, Add</i>	399.63	
<i>For Class 55 Rating, Add</i>	600.63	
<i>For Class 56 Rating, Add</i>	799.05	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,744.08	702.35
<i>For Class 52 Rating, Deduct</i>	-294.79	
<i>For Class 54 Rating, Add</i>	414.76	
<i>For Class 55 Rating, Add</i>	623.16	
<i>For Class 56 Rating, Add</i>	828.89	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,851.23	706.84
<i>For Class 52 Rating, Deduct</i>	-305.83	
<i>For Class 54 Rating, Add</i>	429.89	
<i>For Class 55 Rating, Add</i>	645.70	
<i>For Class 56 Rating, Add</i>	858.73	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,958.37	711.35
<i>For Class 52 Rating, Deduct</i>	-316.86	
<i>For Class 54 Rating, Add</i>	445.02	
<i>For Class 55 Rating, Add</i>	668.23	
<i>For Class 56 Rating, Add</i>	888.57	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,065.53	715.85
<i>For Class 52 Rating, Deduct</i>	-327.90	
<i>For Class 54 Rating, Add</i>	460.15	
<i>For Class 55 Rating, Add</i>	690.77	
<i>For Class 56 Rating, Add</i>	918.41	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,172.67	720.36
<i>For Class 52 Rating, Deduct</i>	-338.94	
<i>For Class 54 Rating, Add</i>	475.28	
<i>For Class 55 Rating, Add</i>	713.31	
<i>For Class 56 Rating, Add</i>	948.25	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,279.81	724.85
<i>For Class 52 Rating, Deduct</i>	-349.97	
<i>For Class 54 Rating, Add</i>	490.41	
<i>For Class 55 Rating, Add</i>	735.84	
<i>For Class 56 Rating, Add</i>	978.09	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,386.97	729.36
<i>For Class 52 Rating, Deduct</i>	-361.01	
<i>For Class 54 Rating, Add</i>	505.54	
<i>For Class 55 Rating, Add</i>	758.38	
<i>For Class 56 Rating, Add</i>	1,007.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187	EA		12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,494.11	733.86
			<i>For Class 52 Rating, Deduct</i>	-372.04	
			<i>For Class 54 Rating, Add</i>	520.67	
			<i>For Class 55 Rating, Add</i>	780.92	
			<i>For Class 56 Rating, Add</i>	1,037.78	
40 05 19 00-0188	EA		12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,601.26	738.36
			<i>For Class 52 Rating, Deduct</i>	-383.08	
			<i>For Class 54 Rating, Add</i>	535.80	
			<i>For Class 55 Rating, Add</i>	803.45	
			<i>For Class 56 Rating, Add</i>	1,067.62	
40 05 19 00-0189	EA		12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,708.40	742.87
			<i>For Class 52 Rating, Deduct</i>	-394.11	
			<i>For Class 54 Rating, Add</i>	550.93	
			<i>For Class 55 Rating, Add</i>	825.99	
			<i>For Class 56 Rating, Add</i>	1,097.46	
40 05 19 00-0190	EA		12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,815.56	747.36
			<i>For Class 52 Rating, Deduct</i>	-405.15	
			<i>For Class 54 Rating, Add</i>	566.07	
			<i>For Class 55 Rating, Add</i>	848.53	
			<i>For Class 56 Rating, Add</i>	1,127.30	
40 05 19 00-0191	EA		12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,922.69	751.87
			<i>For Class 52 Rating, Deduct</i>	-416.19	
			<i>For Class 54 Rating, Add</i>	581.20	
			<i>For Class 55 Rating, Add</i>	871.06	
			<i>For Class 56 Rating, Add</i>	1,157.14	
40 05 19 00-0192	EA		12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,029.84	756.37
			<i>For Class 52 Rating, Deduct</i>	-427.22	
			<i>For Class 54 Rating, Add</i>	596.33	
			<i>For Class 55 Rating, Add</i>	893.60	
			<i>For Class 56 Rating, Add</i>	1,186.99	
40 05 19 00-0193	EA		12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,136.99	760.88
			<i>For Class 52 Rating, Deduct</i>	-438.26	
			<i>For Class 54 Rating, Add</i>	611.46	
			<i>For Class 55 Rating, Add</i>	916.13	
			<i>For Class 56 Rating, Add</i>	1,216.83	
40 05 19 00-0194	EA		12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,244.14	765.37
			<i>For Class 52 Rating, Deduct</i>	-449.29	
			<i>For Class 54 Rating, Add</i>	626.59	
			<i>For Class 55 Rating, Add</i>	938.67	
			<i>For Class 56 Rating, Add</i>	1,246.67	
40 05 19 00-0195	EA		12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,351.28	769.88
			<i>For Class 52 Rating, Deduct</i>	-460.33	
			<i>For Class 54 Rating, Add</i>	641.72	
			<i>For Class 55 Rating, Add</i>	961.21	
			<i>For Class 56 Rating, Add</i>	1,276.51	
40 05 19 00-0196	EA		12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,458.43	774.38
			<i>For Class 52 Rating, Deduct</i>	-471.36	
			<i>For Class 54 Rating, Add</i>	656.85	
			<i>For Class 55 Rating, Add</i>	983.74	
			<i>For Class 56 Rating, Add</i>	1,306.35	
40 05 19 00-0197	EA		12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,565.59	778.88
			<i>For Class 52 Rating, Deduct</i>	-482.40	
			<i>For Class 54 Rating, Add</i>	671.98	
			<i>For Class 55 Rating, Add</i>	1,006.28	
			<i>For Class 56 Rating, Add</i>	1,336.20	
40 05 19 00-0198	EA		12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,672.72	783.38
			<i>For Class 52 Rating, Deduct</i>	-493.44	
			<i>For Class 54 Rating, Add</i>	687.11	
			<i>For Class 55 Rating, Add</i>	1,028.82	
			<i>For Class 56 Rating, Add</i>	1,366.03	
40 05 19 00-0199	EA		12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,779.87	787.88
			<i>For Class 52 Rating, Deduct</i>	-504.47	
			<i>For Class 54 Rating, Add</i>	702.24	
			<i>For Class 55 Rating, Add</i>	1,051.35	
			<i>For Class 56 Rating, Add</i>	1,395.88	
40 05 19 00-0200	EA		12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,887.02	792.39
			<i>For Class 52 Rating, Deduct</i>	-515.51	
			<i>For Class 54 Rating, Add</i>	717.37	
			<i>For Class 55 Rating, Add</i>	1,073.89	
			<i>For Class 56 Rating, Add</i>	1,425.72	
40 05 19 00-0201	EA		12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,994.17	796.89
			<i>For Class 52 Rating, Deduct</i>	-526.54	
			<i>For Class 54 Rating, Add</i>	732.50	
			<i>For Class 55 Rating, Add</i>	1,096.43	
			<i>For Class 56 Rating, Add</i>	1,455.56	
40 05 19 00-0202	EA		12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,101.31	801.40
			<i>For Class 52 Rating, Deduct</i>	-537.58	
			<i>For Class 54 Rating, Add</i>	747.63	
			<i>For Class 55 Rating, Add</i>	1,118.96	
			<i>For Class 56 Rating, Add</i>	1,485.40	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,650.89	756.37
<i>For Class 52 Rating, Deduct</i>	-165.54	
<i>For Class 54 Rating, Add</i>	239.48	
<i>For Class 55 Rating, Add</i>	363.09	
<i>For Class 56 Rating, Add</i>	485.20	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,780.03	760.88
<i>For Class 52 Rating, Deduct</i>	-178.99	
<i>For Class 54 Rating, Add</i>	257.91	
<i>For Class 55 Rating, Add</i>	390.53	
<i>For Class 56 Rating, Add</i>	521.52	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,909.17	765.37
<i>For Class 52 Rating, Deduct</i>	-192.45	
<i>For Class 54 Rating, Add</i>	276.34	
<i>For Class 55 Rating, Add</i>	417.97	
<i>For Class 56 Rating, Add</i>	557.85	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,038.30	769.88
<i>For Class 52 Rating, Deduct</i>	-205.90	
<i>For Class 54 Rating, Add</i>	294.77	
<i>For Class 55 Rating, Add</i>	445.41	
<i>For Class 56 Rating, Add</i>	594.18	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,167.44	774.38
<i>For Class 52 Rating, Deduct</i>	-219.36	
<i>For Class 54 Rating, Add</i>	313.20	
<i>For Class 55 Rating, Add</i>	472.85	
<i>For Class 56 Rating, Add</i>	630.51	
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,296.58	778.88
<i>For Class 52 Rating, Deduct</i>	-232.81	
<i>For Class 54 Rating, Add</i>	331.63	
<i>For Class 55 Rating, Add</i>	500.29	
<i>For Class 56 Rating, Add</i>	666.84	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,425.71	783.38
<i>For Class 52 Rating, Deduct</i>	-246.26	
<i>For Class 54 Rating, Add</i>	350.06	
<i>For Class 55 Rating, Add</i>	527.73	
<i>For Class 56 Rating, Add</i>	703.17	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,554.84	787.88
<i>For Class 52 Rating, Deduct</i>	-259.72	
<i>For Class 54 Rating, Add</i>	368.49	
<i>For Class 55 Rating, Add</i>	555.17	
<i>For Class 56 Rating, Add</i>	739.49	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,683.99	792.39
<i>For Class 52 Rating, Deduct</i>	-273.17	
<i>For Class 54 Rating, Add</i>	386.92	
<i>For Class 55 Rating, Add</i>	582.61	
<i>For Class 56 Rating, Add</i>	775.82	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,813.12	796.89
<i>For Class 52 Rating, Deduct</i>	-286.63	
<i>For Class 54 Rating, Add</i>	405.35	
<i>For Class 55 Rating, Add</i>	610.05	
<i>For Class 56 Rating, Add</i>	812.15	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,942.26	801.40
<i>For Class 52 Rating, Deduct</i>	-300.08	
<i>For Class 54 Rating, Add</i>	423.78	
<i>For Class 55 Rating, Add</i>	637.49	
<i>For Class 56 Rating, Add</i>	848.48	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,071.40	805.89
<i>For Class 52 Rating, Deduct</i>	-313.54	
<i>For Class 54 Rating, Add</i>	442.20	
<i>For Class 55 Rating, Add</i>	664.93	
<i>For Class 56 Rating, Add</i>	884.81	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,200.53	810.40
<i>For Class 52 Rating, Deduct</i>	-326.99	
<i>For Class 54 Rating, Add</i>	460.63	
<i>For Class 55 Rating, Add</i>	692.37	
<i>For Class 56 Rating, Add</i>	921.14	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,329.66	814.90
<i>For Class 52 Rating, Deduct</i>	-340.45	
<i>For Class 54 Rating, Add</i>	479.06	
<i>For Class 55 Rating, Add</i>	719.81	
<i>For Class 56 Rating, Add</i>	957.46	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,458.79	819.41
<i>For Class 52 Rating, Deduct</i>	-353.90	
<i>For Class 54 Rating, Add</i>	497.49	
<i>For Class 55 Rating, Add</i>	747.25	
<i>For Class 56 Rating, Add</i>	993.79	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,587.94	823.90
<i>For Class 52 Rating, Deduct</i>	-367.36	
<i>For Class 54 Rating, Add</i>	515.92	
<i>For Class 55 Rating, Add</i>	774.69	
<i>For Class 56 Rating, Add</i>	1,030.12	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,717.07	828.40
<i>For Class 52 Rating, Deduct</i>	-380.81	
<i>For Class 54 Rating, Add</i>	534.35	
<i>For Class 55 Rating, Add</i>	802.13	
<i>For Class 56 Rating, Add</i>	1,066.45	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,846.21	832.91
		<i>For Class 52 Rating, Deduct</i>	-394.27	
		<i>For Class 54 Rating, Add</i>	552.78	
		<i>For Class 55 Rating, Add</i>	829.57	
		<i>For Class 56 Rating, Add</i>	1,102.78	
40 05 19 00-0222	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,975.35	837.41
		<i>For Class 52 Rating, Deduct</i>	-407.72	
		<i>For Class 54 Rating, Add</i>	571.21	
		<i>For Class 55 Rating, Add</i>	857.01	
		<i>For Class 56 Rating, Add</i>	1,139.11	
40 05 19 00-0223	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,104.49	841.91
		<i>For Class 52 Rating, Deduct</i>	-421.17	
		<i>For Class 54 Rating, Add</i>	589.64	
		<i>For Class 55 Rating, Add</i>	884.45	
		<i>For Class 56 Rating, Add</i>	1,175.44	
40 05 19 00-0224	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,233.61	846.41
		<i>For Class 52 Rating, Deduct</i>	-434.63	
		<i>For Class 54 Rating, Add</i>	608.06	
		<i>For Class 55 Rating, Add</i>	911.89	
		<i>For Class 56 Rating, Add</i>	1,211.76	
40 05 19 00-0225	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,362.74	850.92
		<i>For Class 52 Rating, Deduct</i>	-448.08	
		<i>For Class 54 Rating, Add</i>	626.49	
		<i>For Class 55 Rating, Add</i>	939.33	
		<i>For Class 56 Rating, Add</i>	1,248.09	
40 05 19 00-0226	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,491.89	855.42
		<i>For Class 52 Rating, Deduct</i>	-461.54	
		<i>For Class 54 Rating, Add</i>	644.92	
		<i>For Class 55 Rating, Add</i>	966.77	
		<i>For Class 56 Rating, Add</i>	1,284.42	
40 05 19 00-0227	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,621.02	859.92
		<i>For Class 52 Rating, Deduct</i>	-474.99	
		<i>For Class 54 Rating, Add</i>	663.35	
		<i>For Class 55 Rating, Add</i>	994.21	
		<i>For Class 56 Rating, Add</i>	1,320.75	
40 05 19 00-0228	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,750.16	864.42
		<i>For Class 52 Rating, Deduct</i>	-488.45	
		<i>For Class 54 Rating, Add</i>	681.78	
		<i>For Class 55 Rating, Add</i>	1,021.65	
		<i>For Class 56 Rating, Add</i>	1,357.08	
40 05 19 00-0229	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,879.30	868.93
		<i>For Class 52 Rating, Deduct</i>	-501.90	
		<i>For Class 54 Rating, Add</i>	700.21	
		<i>For Class 55 Rating, Add</i>	1,049.09	
		<i>For Class 56 Rating, Add</i>	1,393.40	
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,008.44	873.43
		<i>For Class 52 Rating, Deduct</i>	-515.36	
		<i>For Class 54 Rating, Add</i>	718.64	
		<i>For Class 55 Rating, Add</i>	1,076.53	
		<i>For Class 56 Rating, Add</i>	1,429.73	
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,137.57	877.93
		<i>For Class 52 Rating, Deduct</i>	-528.81	
		<i>For Class 54 Rating, Add</i>	737.07	
		<i>For Class 55 Rating, Add</i>	1,103.97	
		<i>For Class 56 Rating, Add</i>	1,466.06	
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,266.71	882.43
		<i>For Class 52 Rating, Deduct</i>	-542.27	
		<i>For Class 54 Rating, Add</i>	755.50	
		<i>For Class 55 Rating, Add</i>	1,131.41	
		<i>For Class 56 Rating, Add</i>	1,502.39	
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,395.84	886.93
		<i>For Class 52 Rating, Deduct</i>	-555.72	
		<i>For Class 54 Rating, Add</i>	773.93	
		<i>For Class 55 Rating, Add</i>	1,158.85	
		<i>For Class 56 Rating, Add</i>	1,538.72	
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,524.97	891.44
		<i>For Class 52 Rating, Deduct</i>	-569.17	
		<i>For Class 54 Rating, Add</i>	792.35	
		<i>For Class 55 Rating, Add</i>	1,186.29	
		<i>For Class 56 Rating, Add</i>	1,575.05	
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,654.11	895.94
		<i>For Class 52 Rating, Deduct</i>	-582.63	
		<i>For Class 54 Rating, Add</i>	810.78	
		<i>For Class 55 Rating, Add</i>	1,213.73	
		<i>For Class 56 Rating, Add</i>	1,611.38	
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,783.25	900.44
		<i>For Class 52 Rating, Deduct</i>	-596.08	
		<i>For Class 54 Rating, Add</i>	829.21	
		<i>For Class 55 Rating, Add</i>	1,241.17	
		<i>For Class 56 Rating, Add</i>	1,647.70	
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,912.39	904.94
		<i>For Class 52 Rating, Deduct</i>	-609.54	
		<i>For Class 54 Rating, Add</i>	847.64	
		<i>For Class 55 Rating, Add</i>	1,268.61	
		<i>For Class 56 Rating, Add</i>	1,684.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,041.52	909.45
<i>For Class 52 Rating, Deduct</i>	-622.99	
<i>For Class 54 Rating, Add</i>	866.07	
<i>For Class 55 Rating, Add</i>	1,296.05	
<i>For Class 56 Rating, Add</i>	1,720.36	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,170.66	913.95
<i>For Class 52 Rating, Deduct</i>	-636.45	
<i>For Class 54 Rating, Add</i>	884.50	
<i>For Class 55 Rating, Add</i>	1,323.49	
<i>For Class 56 Rating, Add</i>	1,756.69	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,299.79	918.45
<i>For Class 52 Rating, Deduct</i>	-649.90	
<i>For Class 54 Rating, Add</i>	902.93	
<i>For Class 55 Rating, Add</i>	1,350.93	
<i>For Class 56 Rating, Add</i>	1,793.02	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,428.93	922.95
<i>For Class 52 Rating, Deduct</i>	-663.36	
<i>For Class 54 Rating, Add</i>	921.36	
<i>For Class 55 Rating, Add</i>	1,378.37	
<i>For Class 56 Rating, Add</i>	1,829.35	
40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,093.60	864.42
<i>For Class 52 Rating, Deduct</i>	-196.23	
<i>For Class 54 Rating, Add</i>	283.30	
<i>For Class 55 Rating, Add</i>	429.24	
<i>For Class 56 Rating, Add</i>	573.39	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,243.36	868.93
<i>For Class 52 Rating, Deduct</i>	-211.95	
<i>For Class 54 Rating, Add</i>	304.82	
<i>For Class 55 Rating, Add</i>	461.27	
<i>For Class 56 Rating, Add</i>	615.80	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,393.11	873.43
<i>For Class 52 Rating, Deduct</i>	-227.67	
<i>For Class 54 Rating, Add</i>	326.34	
<i>For Class 55 Rating, Add</i>	493.31	
<i>For Class 56 Rating, Add</i>	658.21	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,542.86	877.93
<i>For Class 52 Rating, Deduct</i>	-243.39	
<i>For Class 54 Rating, Add</i>	347.86	
<i>For Class 55 Rating, Add</i>	525.35	
<i>For Class 56 Rating, Add</i>	700.62	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,692.60	882.43
<i>For Class 52 Rating, Deduct</i>	-259.11	
<i>For Class 54 Rating, Add</i>	369.38	
<i>For Class 55 Rating, Add</i>	557.38	
<i>For Class 56 Rating, Add</i>	743.03	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,842.35	886.93
<i>For Class 52 Rating, Deduct</i>	-274.84	
<i>For Class 54 Rating, Add</i>	390.90	
<i>For Class 55 Rating, Add</i>	589.42	
<i>For Class 56 Rating, Add</i>	785.44	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,992.10	891.44
<i>For Class 52 Rating, Deduct</i>	-290.56	
<i>For Class 54 Rating, Add</i>	412.42	
<i>For Class 55 Rating, Add</i>	621.46	
<i>For Class 56 Rating, Add</i>	827.85	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,141.85	895.94
<i>For Class 52 Rating, Deduct</i>	-306.28	
<i>For Class 54 Rating, Add</i>	433.95	
<i>For Class 55 Rating, Add</i>	653.49	
<i>For Class 56 Rating, Add</i>	870.26	
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,291.61	900.44
<i>For Class 52 Rating, Deduct</i>	-322.00	
<i>For Class 54 Rating, Add</i>	455.47	
<i>For Class 55 Rating, Add</i>	685.53	
<i>For Class 56 Rating, Add</i>	912.67	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,411.36	904.94
<i>For Class 52 Rating, Deduct</i>	-337.73	
<i>For Class 54 Rating, Add</i>	476.99	
<i>For Class 55 Rating, Add</i>	717.57	
<i>For Class 56 Rating, Add</i>	955.08	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,591.11	909.45
<i>For Class 52 Rating, Deduct</i>	-353.45	
<i>For Class 54 Rating, Add</i>	498.51	
<i>For Class 55 Rating, Add</i>	749.61	
<i>For Class 56 Rating, Add</i>	997.49	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,740.86	913.95
<i>For Class 52 Rating, Deduct</i>	-369.17	
<i>For Class 54 Rating, Add</i>	520.03	
<i>For Class 55 Rating, Add</i>	781.64	
<i>For Class 56 Rating, Add</i>	1,039.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,890.61	918.45
		<i>For Class 52 Rating, Deduct</i>	-384.89	
		<i>For Class 54 Rating, Add</i>	541.55	
		<i>For Class 55 Rating, Add</i>	813.68	
		<i>For Class 56 Rating, Add</i>	1,082.31	
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,040.36	922.95
		<i>For Class 52 Rating, Deduct</i>	-400.61	
		<i>For Class 54 Rating, Add</i>	563.07	
		<i>For Class 55 Rating, Add</i>	845.72	
		<i>For Class 56 Rating, Add</i>	1,124.72	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,190.11	927.45
		<i>For Class 52 Rating, Deduct</i>	-416.34	
		<i>For Class 54 Rating, Add</i>	584.59	
		<i>For Class 55 Rating, Add</i>	877.75	
		<i>For Class 56 Rating, Add</i>	1,167.13	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,339.87	931.96
		<i>For Class 52 Rating, Deduct</i>	-432.06	
		<i>For Class 54 Rating, Add</i>	606.12	
		<i>For Class 55 Rating, Add</i>	909.79	
		<i>For Class 56 Rating, Add</i>	1,209.54	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,489.62	936.46
		<i>For Class 52 Rating, Deduct</i>	-447.78	
		<i>For Class 54 Rating, Add</i>	627.64	
		<i>For Class 55 Rating, Add</i>	941.83	
		<i>For Class 56 Rating, Add</i>	1,251.95	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,639.37	940.96
		<i>For Class 52 Rating, Deduct</i>	-463.50	
		<i>For Class 54 Rating, Add</i>	649.16	
		<i>For Class 55 Rating, Add</i>	973.87	
		<i>For Class 56 Rating, Add</i>	1,294.36	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,789.11	945.46
		<i>For Class 52 Rating, Deduct</i>	-479.22	
		<i>For Class 54 Rating, Add</i>	670.68	
		<i>For Class 55 Rating, Add</i>	1,005.90	
		<i>For Class 56 Rating, Add</i>	1,336.76	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,938.86	949.97
		<i>For Class 52 Rating, Deduct</i>	-494.95	
		<i>For Class 54 Rating, Add</i>	692.20	
		<i>For Class 55 Rating, Add</i>	1,037.94	
		<i>For Class 56 Rating, Add</i>	1,379.17	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,088.61	954.47
		<i>For Class 52 Rating, Deduct</i>	-510.67	
		<i>For Class 54 Rating, Add</i>	713.72	
		<i>For Class 55 Rating, Add</i>	1,069.97	
		<i>For Class 56 Rating, Add</i>	1,421.58	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,238.37	958.97
		<i>For Class 52 Rating, Deduct</i>	-526.39	
		<i>For Class 54 Rating, Add</i>	735.24	
		<i>For Class 55 Rating, Add</i>	1,102.01	
		<i>For Class 56 Rating, Add</i>	1,463.99	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,388.12	963.47
		<i>For Class 52 Rating, Deduct</i>	-542.11	
		<i>For Class 54 Rating, Add</i>	756.76	
		<i>For Class 55 Rating, Add</i>	1,134.05	
		<i>For Class 56 Rating, Add</i>	1,506.40	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,537.87	967.98
		<i>For Class 52 Rating, Deduct</i>	-557.84	
		<i>For Class 54 Rating, Add</i>	778.29	
		<i>For Class 55 Rating, Add</i>	1,166.09	
		<i>For Class 56 Rating, Add</i>	1,548.81	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,687.62	972.48
		<i>For Class 52 Rating, Deduct</i>	-573.56	
		<i>For Class 54 Rating, Add</i>	799.81	
		<i>For Class 55 Rating, Add</i>	1,198.12	
		<i>For Class 56 Rating, Add</i>	1,591.22	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,837.37	976.97
		<i>For Class 52 Rating, Deduct</i>	-589.28	
		<i>For Class 54 Rating, Add</i>	821.33	
		<i>For Class 55 Rating, Add</i>	1,230.16	
		<i>For Class 56 Rating, Add</i>	1,633.63	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,987.12	981.48
		<i>For Class 52 Rating, Deduct</i>	-605.00	
		<i>For Class 54 Rating, Add</i>	842.85	
		<i>For Class 55 Rating, Add</i>	1,262.20	
		<i>For Class 56 Rating, Add</i>	1,676.04	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,136.87	985.98
		<i>For Class 52 Rating, Deduct</i>	-620.73	
		<i>For Class 54 Rating, Add</i>	864.37	
		<i>For Class 55 Rating, Add</i>	1,294.23	
		<i>For Class 56 Rating, Add</i>	1,718.45	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,286.63	990.49
		<i>For Class 52 Rating, Deduct</i>	-636.45	
		<i>For Class 54 Rating, Add</i>	885.89	
		<i>For Class 55 Rating, Add</i>	1,326.27	
		<i>For Class 56 Rating, Add</i>	1,760.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,436.38	994.98
<i>For Class 52 Rating, Deduct</i>	-652.17	
<i>For Class 54 Rating, Add</i>	907.41	
<i>For Class 55 Rating, Add</i>	1,358.31	
<i>For Class 56 Rating, Add</i>	1,803.27	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,586.13	999.49
<i>For Class 52 Rating, Deduct</i>	-667.89	
<i>For Class 54 Rating, Add</i>	928.94	
<i>For Class 55 Rating, Add</i>	1,390.35	
<i>For Class 56 Rating, Add</i>	1,845.68	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,735.88	1,003.99
<i>For Class 52 Rating, Deduct</i>	-683.61	
<i>For Class 54 Rating, Add</i>	950.46	
<i>For Class 55 Rating, Add</i>	1,422.38	
<i>For Class 56 Rating, Add</i>	1,888.09	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,885.62	1,008.50
<i>For Class 52 Rating, Deduct</i>	-699.34	
<i>For Class 54 Rating, Add</i>	971.98	
<i>For Class 55 Rating, Add</i>	1,454.42	
<i>For Class 56 Rating, Add</i>	1,930.50	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,035.37	1,013.00
<i>For Class 52 Rating, Deduct</i>	-715.06	
<i>For Class 54 Rating, Add</i>	993.50	
<i>For Class 55 Rating, Add</i>	1,486.45	
<i>For Class 56 Rating, Add</i>	1,972.91	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,185.12	1,017.50
<i>For Class 52 Rating, Deduct</i>	-730.78	
<i>For Class 54 Rating, Add</i>	1,015.02	
<i>For Class 55 Rating, Add</i>	1,518.49	
<i>For Class 56 Rating, Add</i>	2,015.32	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,334.88	1,022.00
<i>For Class 52 Rating, Deduct</i>	-746.50	
<i>For Class 54 Rating, Add</i>	1,036.54	
<i>For Class 55 Rating, Add</i>	1,550.53	
<i>For Class 56 Rating, Add</i>	2,057.73	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,484.63	1,026.50
<i>For Class 52 Rating, Deduct</i>	-762.23	
<i>For Class 54 Rating, Add</i>	1,058.06	
<i>For Class 55 Rating, Add</i>	1,582.57	
<i>For Class 56 Rating, Add</i>	2,100.14	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,634.38	1,031.01
<i>For Class 52 Rating, Deduct</i>	-777.95	
<i>For Class 54 Rating, Add</i>	1,079.58	
<i>For Class 55 Rating, Add</i>	1,614.60	
<i>For Class 56 Rating, Add</i>	2,142.55	
40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,578.89	974.28
<i>For Class 52 Rating, Deduct</i>	-231.30	
<i>For Class 54 Rating, Add</i>	333.12	
<i>For Class 55 Rating, Add</i>	504.33	
<i>For Class 56 Rating, Add</i>	673.44	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,750.63	978.78
<i>For Class 52 Rating, Deduct</i>	-249.44	
<i>For Class 54 Rating, Add</i>	357.94	
<i>For Class 55 Rating, Add</i>	541.27	
<i>For Class 56 Rating, Add</i>	722.34	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,922.37	983.28
<i>For Class 52 Rating, Deduct</i>	-267.58	
<i>For Class 54 Rating, Add</i>	382.76	
<i>For Class 55 Rating, Add</i>	578.21	
<i>For Class 56 Rating, Add</i>	771.24	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,094.10	987.79
<i>For Class 52 Rating, Deduct</i>	-285.72	
<i>For Class 54 Rating, Add</i>	407.58	
<i>For Class 55 Rating, Add</i>	615.15	
<i>For Class 56 Rating, Add</i>	820.13	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,265.84	992.29
<i>For Class 52 Rating, Deduct</i>	-303.86	
<i>For Class 54 Rating, Add</i>	432.40	
<i>For Class 55 Rating, Add</i>	652.09	
<i>For Class 56 Rating, Add</i>	869.03	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,437.58	996.78
<i>For Class 52 Rating, Deduct</i>	-322.00	
<i>For Class 54 Rating, Add</i>	457.22	
<i>For Class 55 Rating, Add</i>	689.03	
<i>For Class 56 Rating, Add</i>	917.92	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,609.33	1,001.29
<i>For Class 52 Rating, Deduct</i>	-340.14	
<i>For Class 54 Rating, Add</i>	482.04	
<i>For Class 55 Rating, Add</i>	725.98	
<i>For Class 56 Rating, Add</i>	966.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,781.07	1,005.79
		<i>For Class 52 Rating, Deduct</i>	-358.29	
		<i>For Class 54 Rating, Add</i>	506.86	
		<i>For Class 55 Rating, Add</i>	762.92	
		<i>For Class 56 Rating, Add</i>	1,015.72	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,952.81	1,010.30
		<i>For Class 52 Rating, Deduct</i>	-376.43	
		<i>For Class 54 Rating, Add</i>	531.68	
		<i>For Class 55 Rating, Add</i>	799.86	
		<i>For Class 56 Rating, Add</i>	1,064.61	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,124.56	1,014.79
		<i>For Class 52 Rating, Deduct</i>	-394.57	
		<i>For Class 54 Rating, Add</i>	556.50	
		<i>For Class 55 Rating, Add</i>	836.80	
		<i>For Class 56 Rating, Add</i>	1,113.51	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,296.28	1,019.30
		<i>For Class 52 Rating, Deduct</i>	-412.71	
		<i>For Class 54 Rating, Add</i>	581.32	
		<i>For Class 55 Rating, Add</i>	873.74	
		<i>For Class 56 Rating, Add</i>	1,162.41	
40 05 19 00-0293	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,468.02	1,023.80
		<i>For Class 52 Rating, Deduct</i>	-430.85	
		<i>For Class 54 Rating, Add</i>	606.14	
		<i>For Class 55 Rating, Add</i>	910.68	
		<i>For Class 56 Rating, Add</i>	1,211.30	
40 05 19 00-0294	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,639.76	1,028.31
		<i>For Class 52 Rating, Deduct</i>	-448.99	
		<i>For Class 54 Rating, Add</i>	630.96	
		<i>For Class 55 Rating, Add</i>	947.62	
		<i>For Class 56 Rating, Add</i>	1,260.20	
40 05 19 00-0295	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,811.51	1,032.81
		<i>For Class 52 Rating, Deduct</i>	-467.13	
		<i>For Class 54 Rating, Add</i>	655.78	
		<i>For Class 55 Rating, Add</i>	984.56	
		<i>For Class 56 Rating, Add</i>	1,309.10	
40 05 19 00-0296	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,983.25	1,037.31
		<i>For Class 52 Rating, Deduct</i>	-485.27	
		<i>For Class 54 Rating, Add</i>	680.60	
		<i>For Class 55 Rating, Add</i>	1,021.50	
		<i>For Class 56 Rating, Add</i>	1,357.99	
40 05 19 00-0297	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,154.99	1,041.81
		<i>For Class 52 Rating, Deduct</i>	-503.41	
		<i>For Class 54 Rating, Add</i>	705.42	
		<i>For Class 55 Rating, Add</i>	1,058.44	
		<i>For Class 56 Rating, Add</i>	1,406.89	
40 05 19 00-0298	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,326.73	1,046.31
		<i>For Class 52 Rating, Deduct</i>	-521.55	
		<i>For Class 54 Rating, Add</i>	730.23	
		<i>For Class 55 Rating, Add</i>	1,095.38	
		<i>For Class 56 Rating, Add</i>	1,455.78	
40 05 19 00-0299	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,498.46	1,050.82
		<i>For Class 52 Rating, Deduct</i>	-539.70	
		<i>For Class 54 Rating, Add</i>	755.05	
		<i>For Class 55 Rating, Add</i>	1,132.32	
		<i>For Class 56 Rating, Add</i>	1,504.68	
40 05 19 00-0300	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,670.20	1,055.31
		<i>For Class 52 Rating, Deduct</i>	-557.84	
		<i>For Class 54 Rating, Add</i>	779.87	
		<i>For Class 55 Rating, Add</i>	1,169.26	
		<i>For Class 56 Rating, Add</i>	1,553.58	
40 05 19 00-0301	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,841.94	1,059.82
		<i>For Class 52 Rating, Deduct</i>	-575.98	
		<i>For Class 54 Rating, Add</i>	804.69	
		<i>For Class 55 Rating, Add</i>	1,206.20	
		<i>For Class 56 Rating, Add</i>	1,602.48	
40 05 19 00-0302	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,013.69	1,064.32
		<i>For Class 52 Rating, Deduct</i>	-594.12	
		<i>For Class 54 Rating, Add</i>	829.51	
		<i>For Class 55 Rating, Add</i>	1,243.14	
		<i>For Class 56 Rating, Add</i>	1,651.37	
40 05 19 00-0303	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,185.43	1,068.83
		<i>For Class 52 Rating, Deduct</i>	-612.26	
		<i>For Class 54 Rating, Add</i>	854.33	
		<i>For Class 55 Rating, Add</i>	1,280.08	
		<i>For Class 56 Rating, Add</i>	1,700.27	
40 05 19 00-0304	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,357.16	1,073.32
		<i>For Class 52 Rating, Deduct</i>	-630.40	
		<i>For Class 54 Rating, Add</i>	879.15	
		<i>For Class 55 Rating, Add</i>	1,317.02	
		<i>For Class 56 Rating, Add</i>	1,749.16	
40 05 19 00-0305	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,528.91	1,077.83
		<i>For Class 52 Rating, Deduct</i>	-648.54	
		<i>For Class 54 Rating, Add</i>	903.97	
		<i>For Class 55 Rating, Add</i>	1,353.96	
		<i>For Class 56 Rating, Add</i>	1,798.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,700.64	1,082.33
<i>For Class 52 Rating, Deduct</i>	-666.68	
<i>For Class 54 Rating, Add</i>	928.79	
<i>For Class 55 Rating, Add</i>	1,390.90	
<i>For Class 56 Rating, Add</i>	1,846.96	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,872.38	1,086.84
<i>For Class 52 Rating, Deduct</i>	-684.82	
<i>For Class 54 Rating, Add</i>	953.61	
<i>For Class 55 Rating, Add</i>	1,427.85	
<i>For Class 56 Rating, Add</i>	1,895.85	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,044.13	1,091.34
<i>For Class 52 Rating, Deduct</i>	-702.96	
<i>For Class 54 Rating, Add</i>	978.43	
<i>For Class 55 Rating, Add</i>	1,464.79	
<i>For Class 56 Rating, Add</i>	1,944.75	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,215.87	1,095.83
<i>For Class 52 Rating, Deduct</i>	-721.11	
<i>For Class 54 Rating, Add</i>	1,003.25	
<i>For Class 55 Rating, Add</i>	1,501.73	
<i>For Class 56 Rating, Add</i>	1,993.65	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,387.60	1,100.34
<i>For Class 52 Rating, Deduct</i>	-739.25	
<i>For Class 54 Rating, Add</i>	1,028.07	
<i>For Class 55 Rating, Add</i>	1,538.67	
<i>For Class 56 Rating, Add</i>	2,042.54	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,559.34	1,104.84
<i>For Class 52 Rating, Deduct</i>	-757.39	
<i>For Class 54 Rating, Add</i>	1,052.89	
<i>For Class 55 Rating, Add</i>	1,575.61	
<i>For Class 56 Rating, Add</i>	2,091.44	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,731.09	1,109.35
<i>For Class 52 Rating, Deduct</i>	-775.53	
<i>For Class 54 Rating, Add</i>	1,077.71	
<i>For Class 55 Rating, Add</i>	1,612.55	
<i>For Class 56 Rating, Add</i>	2,140.34	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,902.83	1,113.84
<i>For Class 52 Rating, Deduct</i>	-793.67	
<i>For Class 54 Rating, Add</i>	1,102.53	
<i>For Class 55 Rating, Add</i>	1,649.49	
<i>For Class 56 Rating, Add</i>	2,189.23	
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,074.56	1,118.35
<i>For Class 52 Rating, Deduct</i>	-811.81	
<i>For Class 54 Rating, Add</i>	1,127.35	
<i>For Class 55 Rating, Add</i>	1,686.43	
<i>For Class 56 Rating, Add</i>	2,238.13	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,246.31	1,122.85
<i>For Class 52 Rating, Deduct</i>	-829.95	
<i>For Class 54 Rating, Add</i>	1,152.17	
<i>For Class 55 Rating, Add</i>	1,723.37	
<i>For Class 56 Rating, Add</i>	2,287.03	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,418.05	1,127.36
<i>For Class 52 Rating, Deduct</i>	-848.09	
<i>For Class 54 Rating, Add</i>	1,176.99	
<i>For Class 55 Rating, Add</i>	1,760.31	
<i>For Class 56 Rating, Add</i>	2,335.92	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,589.78	1,131.85
<i>For Class 52 Rating, Deduct</i>	-866.23	
<i>For Class 54 Rating, Add</i>	1,201.81	
<i>For Class 55 Rating, Add</i>	1,797.25	
<i>For Class 56 Rating, Add</i>	2,384.82	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,761.52	1,136.36
<i>For Class 52 Rating, Deduct</i>	-884.37	
<i>For Class 54 Rating, Add</i>	1,226.63	
<i>For Class 55 Rating, Add</i>	1,834.19	
<i>For Class 56 Rating, Add</i>	2,433.72	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,933.27	1,140.86
<i>For Class 52 Rating, Deduct</i>	-902.52	
<i>For Class 54 Rating, Add</i>	1,251.45	
<i>For Class 55 Rating, Add</i>	1,871.13	
<i>For Class 56 Rating, Add</i>	2,482.61	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,171.05	1,112.04
<i>For Class 52 Rating, Deduct</i>	-273.48	
<i>For Class 54 Rating, Add</i>	393.14	
<i>For Class 55 Rating, Add</i>	594.85	
<i>For Class 56 Rating, Add</i>	794.07	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,367.54	1,116.55
<i>For Class 52 Rating, Deduct</i>	-294.34	
<i>For Class 54 Rating, Add</i>	421.67	
<i>For Class 55 Rating, Add</i>	637.31	
<i>For Class 56 Rating, Add</i>	850.26	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,564.02	1,121.05
		<i>For Class 52 Rating, Deduct</i>	-315.20	
		<i>For Class 54 Rating, Add</i>	450.20	
		<i>For Class 55 Rating, Add</i>	679.76	
		<i>For Class 56 Rating, Add</i>	906.46	
40 05 19 00-0324	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,760.49	1,125.55
		<i>For Class 52 Rating, Deduct</i>	-336.06	
		<i>For Class 54 Rating, Add</i>	478.73	
		<i>For Class 55 Rating, Add</i>	722.22	
		<i>For Class 56 Rating, Add</i>	962.65	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,956.98	1,130.06
		<i>For Class 52 Rating, Deduct</i>	-356.92	
		<i>For Class 54 Rating, Add</i>	507.26	
		<i>For Class 55 Rating, Add</i>	764.68	
		<i>For Class 56 Rating, Add</i>	1,018.85	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,153.45	1,134.55
		<i>For Class 52 Rating, Deduct</i>	-377.79	
		<i>For Class 54 Rating, Add</i>	535.79	
		<i>For Class 55 Rating, Add</i>	807.13	
		<i>For Class 56 Rating, Add</i>	1,075.04	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,349.92	1,139.06
		<i>For Class 52 Rating, Deduct</i>	-398.65	
		<i>For Class 54 Rating, Add</i>	564.32	
		<i>For Class 55 Rating, Add</i>	849.59	
		<i>For Class 56 Rating, Add</i>	1,131.23	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,546.41	1,143.56
		<i>For Class 52 Rating, Deduct</i>	-419.51	
		<i>For Class 54 Rating, Add</i>	592.85	
		<i>For Class 55 Rating, Add</i>	892.05	
		<i>For Class 56 Rating, Add</i>	1,187.43	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,742.88	1,148.07
		<i>For Class 52 Rating, Deduct</i>	-440.37	
		<i>For Class 54 Rating, Add</i>	621.38	
		<i>For Class 55 Rating, Add</i>	934.50	
		<i>For Class 56 Rating, Add</i>	1,243.62	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,939.36	1,152.56
		<i>For Class 52 Rating, Deduct</i>	-461.24	
		<i>For Class 54 Rating, Add</i>	649.91	
		<i>For Class 55 Rating, Add</i>	976.96	
		<i>For Class 56 Rating, Add</i>	1,299.82	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,135.84	1,157.07
		<i>For Class 52 Rating, Deduct</i>	-482.10	
		<i>For Class 54 Rating, Add</i>	678.44	
		<i>For Class 55 Rating, Add</i>	1,019.42	
		<i>For Class 56 Rating, Add</i>	1,356.01	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,332.32	1,161.57
		<i>For Class 52 Rating, Deduct</i>	-502.96	
		<i>For Class 54 Rating, Add</i>	706.97	
		<i>For Class 55 Rating, Add</i>	1,061.88	
		<i>For Class 56 Rating, Add</i>	1,412.20	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,528.79	1,166.08
		<i>For Class 52 Rating, Deduct</i>	-523.82	
		<i>For Class 54 Rating, Add</i>	735.50	
		<i>For Class 55 Rating, Add</i>	1,104.33	
		<i>For Class 56 Rating, Add</i>	1,468.40	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,725.27	1,170.57
		<i>For Class 52 Rating, Deduct</i>	-544.68	
		<i>For Class 54 Rating, Add</i>	764.04	
		<i>For Class 55 Rating, Add</i>	1,146.79	
		<i>For Class 56 Rating, Add</i>	1,524.59	
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,921.75	1,175.07
		<i>For Class 52 Rating, Deduct</i>	-565.55	
		<i>For Class 54 Rating, Add</i>	792.56	
		<i>For Class 55 Rating, Add</i>	1,189.25	
		<i>For Class 56 Rating, Add</i>	1,580.79	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,118.23	1,179.58
		<i>For Class 52 Rating, Deduct</i>	-586.41	
		<i>For Class 54 Rating, Add</i>	821.10	
		<i>For Class 55 Rating, Add</i>	1,231.70	
		<i>For Class 56 Rating, Add</i>	1,636.98	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,314.70	1,184.08
		<i>For Class 52 Rating, Deduct</i>	-607.27	
		<i>For Class 54 Rating, Add</i>	849.62	
		<i>For Class 55 Rating, Add</i>	1,274.16	
		<i>For Class 56 Rating, Add</i>	1,693.17	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,511.18	1,188.58
		<i>For Class 52 Rating, Deduct</i>	-628.13	
		<i>For Class 54 Rating, Add</i>	878.16	
		<i>For Class 55 Rating, Add</i>	1,316.62	
		<i>For Class 56 Rating, Add</i>	1,749.37	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,707.67	1,193.08
		<i>For Class 52 Rating, Deduct</i>	-649.00	
		<i>For Class 54 Rating, Add</i>	906.69	
		<i>For Class 55 Rating, Add</i>	1,359.08	
		<i>For Class 56 Rating, Add</i>	1,805.57	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,904.13	1,197.59
<i>For Class 52 Rating, Deduct</i>	-669.86	
<i>For Class 54 Rating, Add</i>	935.22	
<i>For Class 55 Rating, Add</i>	1,401.53	
<i>For Class 56 Rating, Add</i>	1,861.76	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,100.61	1,202.09
<i>For Class 52 Rating, Deduct</i>	-690.72	
<i>For Class 54 Rating, Add</i>	963.75	
<i>For Class 55 Rating, Add</i>	1,443.99	
<i>For Class 56 Rating, Add</i>	1,917.95	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,297.09	1,206.60
<i>For Class 52 Rating, Deduct</i>	-711.58	
<i>For Class 54 Rating, Add</i>	992.28	
<i>For Class 55 Rating, Add</i>	1,486.45	
<i>For Class 56 Rating, Add</i>	1,974.15	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,493.57	1,211.09
<i>For Class 52 Rating, Deduct</i>	-732.44	
<i>For Class 54 Rating, Add</i>	1,020.81	
<i>For Class 55 Rating, Add</i>	1,528.90	
<i>For Class 56 Rating, Add</i>	2,030.34	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,690.05	1,215.59
<i>For Class 52 Rating, Deduct</i>	-753.31	
<i>For Class 54 Rating, Add</i>	1,049.34	
<i>For Class 55 Rating, Add</i>	1,571.36	
<i>For Class 56 Rating, Add</i>	2,086.54	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,886.53	1,220.10
<i>For Class 52 Rating, Deduct</i>	-774.17	
<i>For Class 54 Rating, Add</i>	1,077.87	
<i>For Class 55 Rating, Add</i>	1,613.82	
<i>For Class 56 Rating, Add</i>	2,142.73	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,083.01	1,224.60
<i>For Class 52 Rating, Deduct</i>	-795.03	
<i>For Class 54 Rating, Add</i>	1,106.40	
<i>For Class 55 Rating, Add</i>	1,656.27	
<i>For Class 56 Rating, Add</i>	2,198.92	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,279.47	1,229.10
<i>For Class 52 Rating, Deduct</i>	-815.89	
<i>For Class 54 Rating, Add</i>	1,134.93	
<i>For Class 55 Rating, Add</i>	1,698.73	
<i>For Class 56 Rating, Add</i>	2,255.12	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,475.95	1,233.60
<i>For Class 52 Rating, Deduct</i>	-836.75	
<i>For Class 54 Rating, Add</i>	1,163.46	
<i>For Class 55 Rating, Add</i>	1,741.19	
<i>For Class 56 Rating, Add</i>	2,311.31	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,672.44	1,238.11
<i>For Class 52 Rating, Deduct</i>	-857.62	
<i>For Class 54 Rating, Add</i>	1,191.99	
<i>For Class 55 Rating, Add</i>	1,783.65	
<i>For Class 56 Rating, Add</i>	2,367.51	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,868.91	1,242.61
<i>For Class 52 Rating, Deduct</i>	-878.48	
<i>For Class 54 Rating, Add</i>	1,220.52	
<i>For Class 55 Rating, Add</i>	1,826.10	
<i>For Class 56 Rating, Add</i>	2,423.70	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,065.39	1,247.11
<i>For Class 52 Rating, Deduct</i>	-899.34	
<i>For Class 54 Rating, Add</i>	1,249.05	
<i>For Class 55 Rating, Add</i>	1,868.56	
<i>For Class 56 Rating, Add</i>	2,479.89	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,261.88	1,251.61
<i>For Class 52 Rating, Deduct</i>	-920.20	
<i>For Class 54 Rating, Add</i>	1,277.58	
<i>For Class 55 Rating, Add</i>	1,911.02	
<i>For Class 56 Rating, Add</i>	2,536.09	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,458.35	1,256.12
<i>For Class 52 Rating, Deduct</i>	-941.07	
<i>For Class 54 Rating, Add</i>	1,306.11	
<i>For Class 55 Rating, Add</i>	1,953.47	
<i>For Class 56 Rating, Add</i>	2,592.28	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,654.83	1,260.62
<i>For Class 52 Rating, Deduct</i>	-961.93	
<i>For Class 54 Rating, Add</i>	1,334.64	
<i>For Class 55 Rating, Add</i>	1,995.93	
<i>For Class 56 Rating, Add</i>	2,648.48	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,851.29	1,265.12
<i>For Class 52 Rating, Deduct</i>	-982.79	
<i>For Class 54 Rating, Add</i>	1,363.17	
<i>For Class 55 Rating, Add</i>	2,038.39	
<i>For Class 56 Rating, Add</i>	2,704.67	
40 05 19 00-0356 EA 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,047.78	1,269.62
<i>For Class 52 Rating, Deduct</i>	-1,003.65	
<i>For Class 54 Rating, Add</i>	1,391.70	
<i>For Class 55 Rating, Add</i>	2,080.84	
<i>For Class 56 Rating, Add</i>	2,760.86	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357 EA 20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,244.26	1,274.12
For Class 52 Rating, Deduct	-1,024.51	
For Class 54 Rating, Add	1,420.23	
For Class 55 Rating, Add	2,123.30	
For Class 56 Rating, Add	2,817.06	
40 05 19 00-0358 EA 20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,440.73	1,278.63
For Class 52 Rating, Deduct	-1,045.38	
For Class 54 Rating, Add	1,448.76	
For Class 55 Rating, Add	2,165.76	
For Class 56 Rating, Add	2,873.25	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0360 EA 24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,095.10	1,314.64
For Class 52 Rating, Deduct	-341.35	
For Class 54 Rating, Add	489.38	
For Class 55 Rating, Add	739.82	
For Class 56 Rating, Add	987.15	
40 05 19 00-0361 EA 24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,336.93	1,319.15
For Class 52 Rating, Deduct	-367.20	
For Class 54 Rating, Add	524.72	
For Class 55 Rating, Add	792.39	
For Class 56 Rating, Add	1,056.73	
40 05 19 00-0362 EA 24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,578.76	1,323.64
For Class 52 Rating, Deduct	-393.06	
For Class 54 Rating, Add	560.05	
For Class 55 Rating, Add	844.96	
For Class 56 Rating, Add	1,126.30	
40 05 19 00-0363 EA 24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,820.59	1,328.15
For Class 52 Rating, Deduct	-418.91	
For Class 54 Rating, Add	595.38	
For Class 55 Rating, Add	897.53	
For Class 56 Rating, Add	1,195.88	
40 05 19 00-0364 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,062.42	1,332.65
For Class 52 Rating, Deduct	-444.76	
For Class 54 Rating, Add	630.72	
For Class 55 Rating, Add	950.10	
For Class 56 Rating, Add	1,265.45	
40 05 19 00-0365 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,304.25	1,337.16
For Class 52 Rating, Deduct	-470.61	
For Class 54 Rating, Add	666.05	
For Class 55 Rating, Add	1,002.68	
For Class 56 Rating, Add	1,335.02	
40 05 19 00-0366 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,546.08	1,341.66
For Class 52 Rating, Deduct	-496.46	
For Class 54 Rating, Add	701.38	
For Class 55 Rating, Add	1,055.25	
For Class 56 Rating, Add	1,404.60	
40 05 19 00-0367 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,787.92	1,346.16
For Class 52 Rating, Deduct	-522.31	
For Class 54 Rating, Add	736.72	
For Class 55 Rating, Add	1,107.82	
For Class 56 Rating, Add	1,474.17	
40 05 19 00-0368 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,029.74	1,350.66
For Class 52 Rating, Deduct	-548.16	
For Class 54 Rating, Add	772.05	
For Class 55 Rating, Add	1,160.39	
For Class 56 Rating, Add	1,543.74	
40 05 19 00-0369 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,271.57	1,355.17
For Class 52 Rating, Deduct	-574.01	
For Class 54 Rating, Add	807.38	
For Class 55 Rating, Add	1,212.96	
For Class 56 Rating, Add	1,613.31	
40 05 19 00-0370 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,513.40	1,359.67
For Class 52 Rating, Deduct	-599.86	
For Class 54 Rating, Add	842.72	
For Class 55 Rating, Add	1,265.53	
For Class 56 Rating, Add	1,682.89	
40 05 19 00-0371 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,755.23	1,364.16
For Class 52 Rating, Deduct	-625.71	
For Class 54 Rating, Add	878.05	
For Class 55 Rating, Add	1,318.10	
For Class 56 Rating, Add	1,752.46	
40 05 19 00-0372 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,997.06	1,368.67
For Class 52 Rating, Deduct	-651.57	
For Class 54 Rating, Add	913.38	
For Class 55 Rating, Add	1,370.67	
For Class 56 Rating, Add	1,822.03	
40 05 19 00-0373 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,238.90	1,373.17
For Class 52 Rating, Deduct	-677.42	
For Class 54 Rating, Add	948.72	
For Class 55 Rating, Add	1,423.24	
For Class 56 Rating, Add	1,891.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,480.73	1,377.68
For Class 52 Rating, Deduct	-703.27	
For Class 54 Rating, Add	984.05	
For Class 55 Rating, Add	1,475.81	
For Class 56 Rating, Add	1,961.18	
40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,722.56	1,382.17
For Class 52 Rating, Deduct	-729.12	
For Class 54 Rating, Add	1,019.38	
For Class 55 Rating, Add	1,528.38	
For Class 56 Rating, Add	2,030.75	
40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,964.38	1,386.68
For Class 52 Rating, Deduct	-754.97	
For Class 54 Rating, Add	1,054.71	
For Class 55 Rating, Add	1,580.95	
For Class 56 Rating, Add	2,100.33	
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,206.21	1,391.18
For Class 52 Rating, Deduct	-780.82	
For Class 54 Rating, Add	1,090.05	
For Class 55 Rating, Add	1,633.52	
For Class 56 Rating, Add	2,169.90	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,448.04	1,395.69
For Class 52 Rating, Deduct	-806.67	
For Class 54 Rating, Add	1,125.38	
For Class 55 Rating, Add	1,686.09	
For Class 56 Rating, Add	2,239.47	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,689.87	1,400.19
For Class 52 Rating, Deduct	-832.52	
For Class 54 Rating, Add	1,160.71	
For Class 55 Rating, Add	1,738.66	
For Class 56 Rating, Add	2,309.05	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,931.71	1,404.69
For Class 52 Rating, Deduct	-858.37	
For Class 54 Rating, Add	1,196.05	
For Class 55 Rating, Add	1,791.24	
For Class 56 Rating, Add	2,378.62	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,173.54	1,409.19
For Class 52 Rating, Deduct	-884.22	
For Class 54 Rating, Add	1,231.38	
For Class 55 Rating, Add	1,843.81	
For Class 56 Rating, Add	2,448.19	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,415.37	1,413.69
For Class 52 Rating, Deduct	-910.08	
For Class 54 Rating, Add	1,266.72	
For Class 55 Rating, Add	1,896.38	
For Class 56 Rating, Add	2,517.77	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,657.20	1,418.20
For Class 52 Rating, Deduct	-935.93	
For Class 54 Rating, Add	1,302.05	
For Class 55 Rating, Add	1,948.95	
For Class 56 Rating, Add	2,587.34	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,899.02	1,422.69
For Class 52 Rating, Deduct	-961.78	
For Class 54 Rating, Add	1,337.38	
For Class 55 Rating, Add	2,001.52	
For Class 56 Rating, Add	2,656.91	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,140.85	1,427.20
For Class 52 Rating, Deduct	-987.63	
For Class 54 Rating, Add	1,372.71	
For Class 55 Rating, Add	2,054.09	
For Class 56 Rating, Add	2,726.48	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,382.68	1,431.70
For Class 52 Rating, Deduct	-1,013.48	
For Class 54 Rating, Add	1,408.05	
For Class 55 Rating, Add	2,106.66	
For Class 56 Rating, Add	2,796.06	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,624.52	1,436.21
For Class 52 Rating, Deduct	-1,039.33	
For Class 54 Rating, Add	1,443.38	
For Class 55 Rating, Add	2,159.23	
For Class 56 Rating, Add	2,865.63	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,866.35	1,440.70
For Class 52 Rating, Deduct	-1,065.18	
For Class 54 Rating, Add	1,478.71	
For Class 55 Rating, Add	2,211.80	
For Class 56 Rating, Add	2,935.20	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,224.14	1,521.74
For Class 52 Rating, Deduct	-1,091.03	
For Class 54 Rating, Add	1,515.44	
For Class 55 Rating, Add	2,267.15	
For Class 56 Rating, Add	3,008.95	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,465.97	1,526.25
For Class 52 Rating, Deduct	-1,116.88	
For Class 54 Rating, Add	1,550.77	
For Class 55 Rating, Add	2,319.73	
For Class 56 Rating, Add	3,078.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,707.80	1,530.75
		<i>For Class 52 Rating, Deduct</i>	-1,142.73	
		<i>For Class 54 Rating, Add</i>	1,586.10	
		<i>For Class 55 Rating, Add</i>	2,372.29	
		<i>For Class 56 Rating, Add</i>	3,148.10	
40 05 19 00-0392	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,949.63	1,535.26
		<i>For Class 52 Rating, Deduct</i>	-1,168.58	
		<i>For Class 54 Rating, Add</i>	1,621.44	
		<i>For Class 55 Rating, Add</i>	2,424.87	
		<i>For Class 56 Rating, Add</i>	3,217.67	
40 05 19 00-0393	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,191.46	1,539.75
		<i>For Class 52 Rating, Deduct</i>	-1,194.44	
		<i>For Class 54 Rating, Add</i>	1,656.77	
		<i>For Class 55 Rating, Add</i>	2,477.44	
		<i>For Class 56 Rating, Add</i>	3,287.24	
40 05 19 00-0394	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,433.30	1,544.26
		<i>For Class 52 Rating, Deduct</i>	-1,220.29	
		<i>For Class 54 Rating, Add</i>	1,692.10	
		<i>For Class 55 Rating, Add</i>	2,530.01	
		<i>For Class 56 Rating, Add</i>	3,356.82	
40 05 19 00-0395	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,675.12	1,548.76
		<i>For Class 52 Rating, Deduct</i>	-1,246.14	
		<i>For Class 54 Rating, Add</i>	1,727.44	
		<i>For Class 55 Rating, Add</i>	2,582.58	
		<i>For Class 56 Rating, Add</i>	3,426.39	
40 05 19 00-0396	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,916.95	1,553.27
		<i>For Class 52 Rating, Deduct</i>	-1,271.99	
		<i>For Class 54 Rating, Add</i>	1,762.77	
		<i>For Class 55 Rating, Add</i>	2,635.15	
		<i>For Class 56 Rating, Add</i>	3,495.96	
40 05 19 00-0397	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,158.79	1,557.76
		<i>For Class 52 Rating, Deduct</i>	-1,297.84	
		<i>For Class 54 Rating, Add</i>	1,798.10	
		<i>For Class 55 Rating, Add</i>	2,687.72	
		<i>For Class 56 Rating, Add</i>	3,565.54	
40 05 19 00-0398		30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0399	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,744.28	1,854.91
		<i>For Class 52 Rating, Deduct</i>	-542.72	
		<i>For Class 54 Rating, Add</i>	773.80	
		<i>For Class 55 Rating, Add</i>	1,167.69	
		<i>For Class 56 Rating, Add</i>	1,556.65	
40 05 19 00-0400	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,090.56	1,859.41
		<i>For Class 52 Rating, Deduct</i>	-580.06	
		<i>For Class 54 Rating, Add</i>	824.80	
		<i>For Class 55 Rating, Add</i>	1,243.55	
		<i>For Class 56 Rating, Add</i>	1,657.04	
40 05 19 00-0401	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,436.84	1,863.92
		<i>For Class 52 Rating, Deduct</i>	-617.40	
		<i>For Class 54 Rating, Add</i>	875.80	
		<i>For Class 55 Rating, Add</i>	1,319.42	
		<i>For Class 56 Rating, Add</i>	1,757.42	
40 05 19 00-0402	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,783.11	1,868.41
		<i>For Class 52 Rating, Deduct</i>	-654.74	
		<i>For Class 54 Rating, Add</i>	926.80	
		<i>For Class 55 Rating, Add</i>	1,395.28	
		<i>For Class 56 Rating, Add</i>	1,857.81	
40 05 19 00-0403	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,129.39	1,872.92
		<i>For Class 52 Rating, Deduct</i>	-692.08	
		<i>For Class 54 Rating, Add</i>	977.80	
		<i>For Class 55 Rating, Add</i>	1,471.14	
		<i>For Class 56 Rating, Add</i>	1,958.19	
40 05 19 00-0404	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,475.66	1,877.42
		<i>For Class 52 Rating, Deduct</i>	-729.42	
		<i>For Class 54 Rating, Add</i>	1,028.80	
		<i>For Class 55 Rating, Add</i>	1,547.00	
		<i>For Class 56 Rating, Add</i>	2,058.58	
40 05 19 00-0405	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,821.95	1,881.93
		<i>For Class 52 Rating, Deduct</i>	-766.76	
		<i>For Class 54 Rating, Add</i>	1,079.80	
		<i>For Class 55 Rating, Add</i>	1,622.87	
		<i>For Class 56 Rating, Add</i>	2,158.96	
40 05 19 00-0406	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,168.23	1,886.42
		<i>For Class 52 Rating, Deduct</i>	-804.10	
		<i>For Class 54 Rating, Add</i>	1,130.80	
		<i>For Class 55 Rating, Add</i>	1,698.73	
		<i>For Class 56 Rating, Add</i>	2,259.35	
40 05 19 00-0407	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,514.51	1,890.93
		<i>For Class 52 Rating, Deduct</i>	-841.44	
		<i>For Class 54 Rating, Add</i>	1,181.80	
		<i>For Class 55 Rating, Add</i>	1,774.59	
		<i>For Class 56 Rating, Add</i>	2,359.74	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,860.79	1,895.43
<i>For Class 52 Rating, Deduct</i>	-878.78	
<i>For Class 54 Rating, Add</i>	1,232.80	
<i>For Class 55 Rating, Add</i>	1,850.45	
<i>For Class 56 Rating, Add</i>	2,460.12	
40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,207.06	1,899.93
<i>For Class 52 Rating, Deduct</i>	-916.12	
<i>For Class 54 Rating, Add</i>	1,283.80	
<i>For Class 55 Rating, Add</i>	1,926.32	
<i>For Class 56 Rating, Add</i>	2,560.50	
40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,553.34	1,904.43
<i>For Class 52 Rating, Deduct</i>	-953.46	
<i>For Class 54 Rating, Add</i>	1,334.80	
<i>For Class 55 Rating, Add</i>	2,002.18	
<i>For Class 56 Rating, Add</i>	2,660.89	
40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,899.61	1,908.93
<i>For Class 52 Rating, Deduct</i>	-990.80	
<i>For Class 54 Rating, Add</i>	1,385.80	
<i>For Class 55 Rating, Add</i>	2,078.04	
<i>For Class 56 Rating, Add</i>	2,761.27	
40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,245.90	1,913.44
<i>For Class 52 Rating, Deduct</i>	-1,028.14	
<i>For Class 54 Rating, Add</i>	1,436.80	
<i>For Class 55 Rating, Add</i>	2,153.90	
<i>For Class 56 Rating, Add</i>	2,861.66	
40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,592.18	1,917.94
<i>For Class 52 Rating, Deduct</i>	-1,065.48	
<i>For Class 54 Rating, Add</i>	1,487.80	
<i>For Class 55 Rating, Add</i>	2,229.77	
<i>For Class 56 Rating, Add</i>	2,962.05	
40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,938.45	1,922.44
<i>For Class 52 Rating, Deduct</i>	-1,102.82	
<i>For Class 54 Rating, Add</i>	1,538.80	
<i>For Class 55 Rating, Add</i>	2,305.63	
<i>For Class 56 Rating, Add</i>	3,062.43	
40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,284.74	1,926.94
<i>For Class 52 Rating, Deduct</i>	-1,140.16	
<i>For Class 54 Rating, Add</i>	1,589.80	
<i>For Class 55 Rating, Add</i>	2,381.49	
<i>For Class 56 Rating, Add</i>	3,162.82	
40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,631.01	1,931.45
<i>For Class 52 Rating, Deduct</i>	-1,177.50	
<i>For Class 54 Rating, Add</i>	1,640.80	
<i>For Class 55 Rating, Add</i>	2,457.36	
<i>For Class 56 Rating, Add</i>	3,263.20	
40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,977.29	1,935.95
<i>For Class 52 Rating, Deduct</i>	-1,214.84	
<i>For Class 54 Rating, Add</i>	1,691.81	
<i>For Class 55 Rating, Add</i>	2,533.22	
<i>For Class 56 Rating, Add</i>	3,363.59	
40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,323.56	1,940.46
<i>For Class 52 Rating, Deduct</i>	-1,252.18	
<i>For Class 54 Rating, Add</i>	1,742.80	
<i>For Class 55 Rating, Add</i>	2,609.08	
<i>For Class 56 Rating, Add</i>	3,463.97	
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,669.85	1,944.95
<i>For Class 52 Rating, Deduct</i>	-1,289.52	
<i>For Class 54 Rating, Add</i>	1,793.81	
<i>For Class 55 Rating, Add</i>	2,684.94	
<i>For Class 56 Rating, Add</i>	3,564.36	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,016.13	1,949.45
<i>For Class 52 Rating, Deduct</i>	-1,326.87	
<i>For Class 54 Rating, Add</i>	1,844.81	
<i>For Class 55 Rating, Add</i>	2,760.81	
<i>For Class 56 Rating, Add</i>	3,664.74	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,362.40	1,953.96
<i>For Class 52 Rating, Deduct</i>	-1,364.20	
<i>For Class 54 Rating, Add</i>	1,895.81	
<i>For Class 55 Rating, Add</i>	2,836.67	
<i>For Class 56 Rating, Add</i>	3,765.13	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,708.69	1,958.46
<i>For Class 52 Rating, Deduct</i>	-1,401.55	
<i>For Class 54 Rating, Add</i>	1,946.81	
<i>For Class 55 Rating, Add</i>	2,912.53	
<i>For Class 56 Rating, Add</i>	3,865.51	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,053.59	1,962.96
<i>For Class 52 Rating, Deduct</i>	-1,438.73	
<i>For Class 54 Rating, Add</i>	1,997.60	
<i>For Class 55 Rating, Add</i>	2,988.09	
<i>For Class 56 Rating, Add</i>	3,965.49	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,401.23	1,967.46
<i>For Class 52 Rating, Deduct</i>	-1,476.23	
<i>For Class 54 Rating, Add</i>	2,048.81	
<i>For Class 55 Rating, Add</i>	3,064.26	
<i>For Class 56 Rating, Add</i>	4,066.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,747.52	1,971.97
		<i>For Class 52 Rating, Deduct</i>	-1,513.57	
		<i>For Class 54 Rating, Add</i>	2,099.81	
		<i>For Class 55 Rating, Add</i>	3,140.12	
		<i>For Class 56 Rating, Add</i>	4,166.67	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,093.80	1,976.47
		<i>For Class 52 Rating, Deduct</i>	-1,550.91	
		<i>For Class 54 Rating, Add</i>	2,150.81	
		<i>For Class 55 Rating, Add</i>	3,215.98	
		<i>For Class 56 Rating, Add</i>	4,267.06	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,440.08	1,980.97
		<i>For Class 52 Rating, Deduct</i>	-1,588.25	
		<i>For Class 54 Rating, Add</i>	2,201.81	
		<i>For Class 55 Rating, Add</i>	3,291.85	
		<i>For Class 56 Rating, Add</i>	4,367.44	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,786.35	1,985.47
		<i>For Class 52 Rating, Deduct</i>	-1,625.59	
		<i>For Class 54 Rating, Add</i>	2,252.81	
		<i>For Class 55 Rating, Add</i>	3,367.71	
		<i>For Class 56 Rating, Add</i>	4,467.83	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,132.64	1,989.98
		<i>For Class 52 Rating, Deduct</i>	-1,662.93	
		<i>For Class 54 Rating, Add</i>	2,303.81	
		<i>For Class 55 Rating, Add</i>	3,443.57	
		<i>For Class 56 Rating, Add</i>	4,568.21	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,478.92	1,994.48
		<i>For Class 52 Rating, Deduct</i>	-1,700.27	
		<i>For Class 54 Rating, Add</i>	2,354.81	
		<i>For Class 55 Rating, Add</i>	3,519.43	
		<i>For Class 56 Rating, Add</i>	4,668.60	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,825.18	1,998.98
		<i>For Class 52 Rating, Deduct</i>	-1,737.61	
		<i>For Class 54 Rating, Add</i>	2,405.81	
		<i>For Class 55 Rating, Add</i>	3,595.29	
		<i>For Class 56 Rating, Add</i>	4,768.98	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,171.47	2,003.48
		<i>For Class 52 Rating, Deduct</i>	-1,774.95	
		<i>For Class 54 Rating, Add</i>	2,456.81	
		<i>For Class 55 Rating, Add</i>	3,671.16	
		<i>For Class 56 Rating, Add</i>	4,869.37	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,517.75	2,007.98
		<i>For Class 52 Rating, Deduct</i>	-1,812.29	
		<i>For Class 54 Rating, Add</i>	2,507.81	
		<i>For Class 55 Rating, Add</i>	3,747.02	
		<i>For Class 56 Rating, Add</i>	4,969.75	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,864.03	2,012.49
		<i>For Class 52 Rating, Deduct</i>	-1,849.63	
		<i>For Class 54 Rating, Add</i>	2,558.81	
		<i>For Class 55 Rating, Add</i>	3,822.88	
		<i>For Class 56 Rating, Add</i>	5,070.14	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,210.30	2,016.99
		<i>For Class 52 Rating, Deduct</i>	-1,886.97	
		<i>For Class 54 Rating, Add</i>	2,609.81	
		<i>For Class 55 Rating, Add</i>	3,898.74	
		<i>For Class 56 Rating, Add</i>	5,170.52	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,556.59	2,021.49
		<i>For Class 52 Rating, Deduct</i>	-1,924.31	
		<i>For Class 54 Rating, Add</i>	2,660.81	
		<i>For Class 55 Rating, Add</i>	3,974.61	
		<i>For Class 56 Rating, Add</i>	5,270.91	
40 05 19 00-0437		36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,620.71	2,350.15
		<i>For Class 52 Rating, Deduct</i>	-776.59	
		<i>For Class 54 Rating, Add</i>	1,101.71	
		<i>For Class 55 Rating, Add</i>	1,659.81	
		<i>For Class 56 Rating, Add</i>	2,210.85	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,089.30	2,354.65
		<i>For Class 52 Rating, Deduct</i>	-827.38	
		<i>For Class 54 Rating, Add</i>	1,171.06	
		<i>For Class 55 Rating, Add</i>	1,762.95	
		<i>For Class 56 Rating, Add</i>	2,347.32	
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,557.90	2,359.16
		<i>For Class 52 Rating, Deduct</i>	-878.18	
		<i>For Class 54 Rating, Add</i>	1,240.41	
		<i>For Class 55 Rating, Add</i>	1,866.09	
		<i>For Class 56 Rating, Add</i>	2,483.79	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,026.50	2,363.66
		<i>For Class 52 Rating, Deduct</i>	-928.97	
		<i>For Class 54 Rating, Add</i>	1,309.76	
		<i>For Class 55 Rating, Add</i>	1,969.23	
		<i>For Class 56 Rating, Add</i>	2,620.26	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,495.09	2,368.16
<i>For Class 52 Rating, Deduct</i>	-979.77	
<i>For Class 54 Rating, Add</i>	1,379.10	
<i>For Class 55 Rating, Add</i>	2,072.37	
<i>For Class 56 Rating, Add</i>	2,756.73	
40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,963.69	2,372.66
<i>For Class 52 Rating, Deduct</i>	-1,030.56	
<i>For Class 54 Rating, Add</i>	1,448.45	
<i>For Class 55 Rating, Add</i>	2,175.51	
<i>For Class 56 Rating, Add</i>	2,893.20	
40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,432.28	2,377.17
<i>For Class 52 Rating, Deduct</i>	-1,081.36	
<i>For Class 54 Rating, Add</i>	1,517.80	
<i>For Class 55 Rating, Add</i>	2,278.65	
<i>For Class 56 Rating, Add</i>	3,029.66	
40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,900.86	2,381.67
<i>For Class 52 Rating, Deduct</i>	-1,132.15	
<i>For Class 54 Rating, Add</i>	1,587.14	
<i>For Class 55 Rating, Add</i>	2,381.78	
<i>For Class 56 Rating, Add</i>	3,166.13	
40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,369.46	2,386.16
<i>For Class 52 Rating, Deduct</i>	-1,182.95	
<i>For Class 54 Rating, Add</i>	1,656.49	
<i>For Class 55 Rating, Add</i>	2,484.92	
<i>For Class 56 Rating, Add</i>	3,302.60	
40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,838.06	2,390.67
<i>For Class 52 Rating, Deduct</i>	-1,233.74	
<i>For Class 54 Rating, Add</i>	1,725.84	
<i>For Class 55 Rating, Add</i>	2,588.06	
<i>For Class 56 Rating, Add</i>	3,439.07	
40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,306.65	2,395.17
<i>For Class 52 Rating, Deduct</i>	-1,284.54	
<i>For Class 54 Rating, Add</i>	1,795.19	
<i>For Class 55 Rating, Add</i>	2,691.20	
<i>For Class 56 Rating, Add</i>	3,575.54	
40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,775.24	2,399.68
<i>For Class 52 Rating, Deduct</i>	-1,335.33	
<i>For Class 54 Rating, Add</i>	1,864.54	
<i>For Class 55 Rating, Add</i>	2,794.34	
<i>For Class 56 Rating, Add</i>	3,712.01	
40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,243.84	2,404.18
<i>For Class 52 Rating, Deduct</i>	-1,386.13	
<i>For Class 54 Rating, Add</i>	1,933.88	
<i>For Class 55 Rating, Add</i>	2,897.48	
<i>For Class 56 Rating, Add</i>	3,848.47	
40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,712.43	2,408.68
<i>For Class 52 Rating, Deduct</i>	-1,436.92	
<i>For Class 54 Rating, Add</i>	2,003.23	
<i>For Class 55 Rating, Add</i>	3,000.62	
<i>For Class 56 Rating, Add</i>	3,984.94	
40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,181.01	2,413.18
<i>For Class 52 Rating, Deduct</i>	-1,487.71	
<i>For Class 54 Rating, Add</i>	2,072.58	
<i>For Class 55 Rating, Add</i>	3,103.76	
<i>For Class 56 Rating, Add</i>	4,121.41	
40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,649.61	2,417.69
<i>For Class 52 Rating, Deduct</i>	-1,538.51	
<i>For Class 54 Rating, Add</i>	2,141.93	
<i>For Class 55 Rating, Add</i>	3,206.89	
<i>For Class 56 Rating, Add</i>	4,257.88	
40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,118.21	2,422.19
<i>For Class 52 Rating, Deduct</i>	-1,589.31	
<i>For Class 54 Rating, Add</i>	2,211.27	
<i>For Class 55 Rating, Add</i>	3,310.03	
<i>For Class 56 Rating, Add</i>	4,394.35	
40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,586.80	2,426.69
<i>For Class 52 Rating, Deduct</i>	-1,640.10	
<i>For Class 54 Rating, Add</i>	2,280.62	
<i>For Class 55 Rating, Add</i>	3,413.17	
<i>For Class 56 Rating, Add</i>	4,530.81	
40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,055.39	2,431.19
<i>For Class 52 Rating, Deduct</i>	-1,690.89	
<i>For Class 54 Rating, Add</i>	2,349.97	
<i>For Class 55 Rating, Add</i>	3,516.31	
<i>For Class 56 Rating, Add</i>	4,667.28	
40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,523.99	2,435.69
<i>For Class 52 Rating, Deduct</i>	-1,741.69	
<i>For Class 54 Rating, Add</i>	2,419.32	
<i>For Class 55 Rating, Add</i>	3,619.45	
<i>For Class 56 Rating, Add</i>	4,803.75	
40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,992.58	2,440.20
<i>For Class 52 Rating, Deduct</i>	-1,792.48	
<i>For Class 54 Rating, Add</i>	2,488.66	
<i>For Class 55 Rating, Add</i>	3,722.59	
<i>For Class 56 Rating, Add</i>	4,940.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,461.16	2,444.69
			<i>For Class 52 Rating, Deduct</i>	-1,843.28	
			<i>For Class 54 Rating, Add</i>	2,558.01	
			<i>For Class 55 Rating, Add</i>	3,825.73	
			<i>For Class 56 Rating, Add</i>	5,076.69	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,929.77	2,449.20
			<i>For Class 52 Rating, Deduct</i>	-1,894.07	
			<i>For Class 54 Rating, Add</i>	2,627.36	
			<i>For Class 55 Rating, Add</i>	3,928.87	
			<i>For Class 56 Rating, Add</i>	5,213.16	
40 05 19 00-0461	EA		36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,398.36	2,453.70
			<i>For Class 52 Rating, Deduct</i>	-1,944.87	
			<i>For Class 54 Rating, Add</i>	2,696.71	
			<i>For Class 55 Rating, Add</i>	4,032.01	
			<i>For Class 56 Rating, Add</i>	5,349.62	
40 05 19 00-0462	EA		36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,866.95	2,458.21
			<i>For Class 52 Rating, Deduct</i>	-1,995.66	
			<i>For Class 54 Rating, Add</i>	2,766.05	
			<i>For Class 55 Rating, Add</i>	4,135.14	
			<i>For Class 56 Rating, Add</i>	5,486.09	
40 05 19 00-0463	EA		36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,335.55	2,462.71
			<i>For Class 52 Rating, Deduct</i>	-2,046.46	
			<i>For Class 54 Rating, Add</i>	2,835.40	
			<i>For Class 55 Rating, Add</i>	4,238.28	
			<i>For Class 56 Rating, Add</i>	5,622.56	
40 05 19 00-0464	EA		36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,804.14	2,467.21
			<i>For Class 52 Rating, Deduct</i>	-2,097.25	
			<i>For Class 54 Rating, Add</i>	2,904.75	
			<i>For Class 55 Rating, Add</i>	4,341.42	
			<i>For Class 56 Rating, Add</i>	5,759.03	
40 05 19 00-0465	EA		36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,272.73	2,471.71
			<i>For Class 52 Rating, Deduct</i>	-2,148.05	
			<i>For Class 54 Rating, Add</i>	2,974.10	
			<i>For Class 55 Rating, Add</i>	4,444.56	
			<i>For Class 56 Rating, Add</i>	5,895.50	
40 05 19 00-0466	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,741.31	2,476.22
			<i>For Class 52 Rating, Deduct</i>	-2,198.84	
			<i>For Class 54 Rating, Add</i>	3,043.44	
			<i>For Class 55 Rating, Add</i>	4,547.70	
			<i>For Class 56 Rating, Add</i>	6,031.96	
40 05 19 00-0467	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,209.92	2,480.72
			<i>For Class 52 Rating, Deduct</i>	-2,249.64	
			<i>For Class 54 Rating, Add</i>	3,112.79	
			<i>For Class 55 Rating, Add</i>	4,650.84	
			<i>For Class 56 Rating, Add</i>	6,168.43	
40 05 19 00-0468	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,678.51	2,485.21
			<i>For Class 52 Rating, Deduct</i>	-2,300.43	
			<i>For Class 54 Rating, Add</i>	3,182.14	
			<i>For Class 55 Rating, Add</i>	4,753.98	
			<i>For Class 56 Rating, Add</i>	6,304.90	
40 05 19 00-0469	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,147.10	2,489.72
			<i>For Class 52 Rating, Deduct</i>	-2,351.23	
			<i>For Class 54 Rating, Add</i>	3,251.49	
			<i>For Class 55 Rating, Add</i>	4,857.12	
			<i>For Class 56 Rating, Add</i>	6,441.37	
40 05 19 00-0470	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,615.70	2,494.22
			<i>For Class 52 Rating, Deduct</i>	-2,402.02	
			<i>For Class 54 Rating, Add</i>	3,320.84	
			<i>For Class 55 Rating, Add</i>	4,960.25	
			<i>For Class 56 Rating, Add</i>	6,577.84	
40 05 19 00-0471	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,084.29	2,498.73
			<i>For Class 52 Rating, Deduct</i>	-2,452.82	
			<i>For Class 54 Rating, Add</i>	3,390.18	
			<i>For Class 55 Rating, Add</i>	5,063.39	
			<i>For Class 56 Rating, Add</i>	6,714.30	
40 05 19 00-0472	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,552.88	2,503.22
			<i>For Class 52 Rating, Deduct</i>	-2,503.61	
			<i>For Class 54 Rating, Add</i>	3,459.53	
			<i>For Class 55 Rating, Add</i>	5,166.53	
			<i>For Class 56 Rating, Add</i>	6,850.77	
40 05 19 00-0473	EA		36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,021.46	2,507.73
			<i>For Class 52 Rating, Deduct</i>	-2,554.41	
			<i>For Class 54 Rating, Add</i>	3,528.88	
			<i>For Class 55 Rating, Add</i>	5,269.67	
			<i>For Class 56 Rating, Add</i>	6,987.24	
40 05 19 00-0474	EA		36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,490.07	2,512.23
			<i>For Class 52 Rating, Deduct</i>	-2,605.20	
			<i>For Class 54 Rating, Add</i>	3,598.23	
			<i>For Class 55 Rating, Add</i>	5,372.81	
			<i>For Class 56 Rating, Add</i>	7,123.71	
40 05 19 00-0475	EA		36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,958.66	2,516.74
			<i>For Class 52 Rating, Deduct</i>	-2,656.00	
			<i>For Class 54 Rating, Add</i>	3,667.57	
			<i>For Class 55 Rating, Add</i>	5,475.95	
			<i>For Class 56 Rating, Add</i>	7,260.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476 42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0477 EA 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,906.78	2,962.46
<i>For Class 52 Rating, Deduct</i>	-1,036.00	
<i>For Class 54 Rating, Add</i>	1,466.60	
<i>For Class 55 Rating, Add</i>	2,207.99	
<i>For Class 56 Rating, Add</i>	2,939.96	
40 05 19 00-0478 EA 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,603.50	2,966.95
<i>For Class 52 Rating, Deduct</i>	-1,111.89	
<i>For Class 54 Rating, Add</i>	1,570.16	
<i>For Class 55 Rating, Add</i>	2,362.00	
<i>For Class 56 Rating, Add</i>	3,143.73	
40 05 19 00-0479 EA 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,292.00	2,971.45
<i>For Class 52 Rating, Deduct</i>	-1,186.88	
<i>For Class 54 Rating, Add</i>	1,672.50	
<i>For Class 55 Rating, Add</i>	2,514.18	
<i>For Class 56 Rating, Add</i>	3,345.07	
40 05 19 00-0480 EA 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,987.35	2,975.96
<i>For Class 52 Rating, Deduct</i>	-1,262.62	
<i>For Class 54 Rating, Add</i>	1,775.86	
<i>For Class 55 Rating, Add</i>	2,667.88	
<i>For Class 56 Rating, Add</i>	3,548.43	
40 05 19 00-0481 EA 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,675.83	2,980.46
<i>For Class 52 Rating, Deduct</i>	-1,337.60	
<i>For Class 54 Rating, Add</i>	1,878.19	
<i>For Class 55 Rating, Add</i>	2,820.06	
<i>For Class 56 Rating, Add</i>	3,749.76	
40 05 19 00-0482 EA 42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,372.57	2,984.96
<i>For Class 52 Rating, Deduct</i>	-1,413.49	
<i>For Class 54 Rating, Add</i>	1,981.76	
<i>For Class 55 Rating, Add</i>	2,974.07	
<i>For Class 56 Rating, Add</i>	3,953.53	
40 05 19 00-0483 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,059.67	2,989.46
<i>For Class 52 Rating, Deduct</i>	-1,488.32	
<i>For Class 54 Rating, Add</i>	2,083.88	
<i>For Class 55 Rating, Add</i>	3,125.94	
<i>For Class 56 Rating, Add</i>	4,154.46	
40 05 19 00-0484 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,756.40	2,993.97
<i>For Class 52 Rating, Deduct</i>	-1,564.21	
<i>For Class 54 Rating, Add</i>	2,187.45	
<i>For Class 55 Rating, Add</i>	3,279.95	
<i>For Class 56 Rating, Add</i>	4,358.23	
40 05 19 00-0485 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,444.88	2,998.47
<i>For Class 52 Rating, Deduct</i>	-1,639.19	
<i>For Class 54 Rating, Add</i>	2,289.78	
<i>For Class 55 Rating, Add</i>	3,432.13	
<i>For Class 56 Rating, Add</i>	4,559.57	
40 05 19 00-0486 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,140.25	3,002.98
<i>For Class 52 Rating, Deduct</i>	-1,714.93	
<i>For Class 54 Rating, Add</i>	2,393.14	
<i>For Class 55 Rating, Add</i>	3,585.83	
<i>For Class 56 Rating, Add</i>	4,762.93	
40 05 19 00-0487 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,828.73	3,007.47
<i>For Class 52 Rating, Deduct</i>	-1,789.91	
<i>For Class 54 Rating, Add</i>	2,495.47	
<i>For Class 55 Rating, Add</i>	3,738.01	
<i>For Class 56 Rating, Add</i>	4,964.27	
40 05 19 00-0488 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,524.08	3,011.98
<i>For Class 52 Rating, Deduct</i>	-1,865.65	
<i>For Class 54 Rating, Add</i>	2,598.84	
<i>For Class 55 Rating, Add</i>	3,891.71	
<i>For Class 56 Rating, Add</i>	5,167.63	
40 05 19 00-0489 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,212.58	3,016.48
<i>For Class 52 Rating, Deduct</i>	-1,940.64	
<i>For Class 54 Rating, Add</i>	2,701.17	
<i>For Class 55 Rating, Add</i>	4,043.89	
<i>For Class 56 Rating, Add</i>	5,368.97	
40 05 19 00-0490 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,902.42	3,020.98
<i>For Class 52 Rating, Deduct</i>	-2,015.77	
<i>For Class 54 Rating, Add</i>	2,803.70	
<i>For Class 55 Rating, Add</i>	4,196.37	
<i>For Class 56 Rating, Add</i>	5,570.71	
40 05 19 00-0491 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,596.40	3,025.48
<i>For Class 52 Rating, Deduct</i>	-2,091.36	
<i>For Class 54 Rating, Add</i>	2,906.86	
<i>For Class 55 Rating, Add</i>	4,349.77	
<i>For Class 56 Rating, Add</i>	5,773.67	
40 05 19 00-0492 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,284.89	3,029.98
<i>For Class 52 Rating, Deduct</i>	-2,166.34	
<i>For Class 54 Rating, Add</i>	3,009.19	
<i>For Class 55 Rating, Add</i>	4,501.95	
<i>For Class 56 Rating, Add</i>	5,975.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,981.62	3,034.49
		<i>For Class 52 Rating, Deduct</i>	-2,242.23	
		<i>For Class 54 Rating, Add</i>	3,112.76	
		<i>For Class 55 Rating, Add</i>	4,655.96	
		<i>For Class 56 Rating, Add</i>	6,178.77	
40 05 19 00-0494	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,670.11	3,038.99
		<i>For Class 52 Rating, Deduct</i>	-2,317.21	
		<i>For Class 54 Rating, Add</i>	3,215.09	
		<i>For Class 55 Rating, Add</i>	4,808.13	
		<i>For Class 56 Rating, Add</i>	6,380.11	
40 05 19 00-0495	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,365.46	3,043.49
		<i>For Class 52 Rating, Deduct</i>	-2,392.95	
		<i>For Class 54 Rating, Add</i>	3,318.45	
		<i>For Class 55 Rating, Add</i>	4,961.84	
		<i>For Class 56 Rating, Add</i>	6,583.47	
40 05 19 00-0496	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,053.95	3,047.99
		<i>For Class 52 Rating, Deduct</i>	-2,467.93	
		<i>For Class 54 Rating, Add</i>	3,420.78	
		<i>For Class 55 Rating, Add</i>	5,114.01	
		<i>For Class 56 Rating, Add</i>	6,784.81	
40 05 19 00-0497	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,750.67	3,052.50
		<i>For Class 52 Rating, Deduct</i>	-2,543.82	
		<i>For Class 54 Rating, Add</i>	3,524.35	
		<i>For Class 55 Rating, Add</i>	5,268.03	
		<i>For Class 56 Rating, Add</i>	6,988.58	
40 05 19 00-0498	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,439.16	3,057.00
		<i>For Class 52 Rating, Deduct</i>	-2,618.81	
		<i>For Class 54 Rating, Add</i>	3,626.68	
		<i>For Class 55 Rating, Add</i>	5,420.20	
		<i>For Class 56 Rating, Add</i>	7,189.91	
40 05 19 00-0499	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,134.52	3,061.51
		<i>For Class 52 Rating, Deduct</i>	-2,694.55	
		<i>For Class 54 Rating, Add</i>	3,730.05	
		<i>For Class 55 Rating, Add</i>	5,573.91	
		<i>For Class 56 Rating, Add</i>	7,393.28	
40 05 19 00-0500	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,823.00	3,066.00
		<i>For Class 52 Rating, Deduct</i>	-2,769.53	
		<i>For Class 54 Rating, Add</i>	3,832.38	
		<i>For Class 55 Rating, Add</i>	5,726.08	
		<i>For Class 56 Rating, Add</i>	7,594.61	
40 05 19 00-0501	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,519.73	3,070.50
		<i>For Class 52 Rating, Deduct</i>	-2,845.42	
		<i>For Class 54 Rating, Add</i>	3,935.94	
		<i>For Class 55 Rating, Add</i>	5,880.10	
		<i>For Class 56 Rating, Add</i>	7,798.38	
40 05 19 00-0502	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,208.21	3,075.01
		<i>For Class 52 Rating, Deduct</i>	-2,920.40	
		<i>For Class 54 Rating, Add</i>	4,038.28	
		<i>For Class 55 Rating, Add</i>	6,032.27	
		<i>For Class 56 Rating, Add</i>	7,999.72	
40 05 19 00-0503	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,902.20	3,079.51
		<i>For Class 52 Rating, Deduct</i>	-2,995.99	
		<i>For Class 54 Rating, Add</i>	4,141.43	
		<i>For Class 55 Rating, Add</i>	6,185.67	
		<i>For Class 56 Rating, Add</i>	8,202.67	
40 05 19 00-0504	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,592.05	3,084.01
		<i>For Class 52 Rating, Deduct</i>	-3,071.12	
		<i>For Class 54 Rating, Add</i>	4,243.97	
		<i>For Class 55 Rating, Add</i>	6,338.15	
		<i>For Class 56 Rating, Add</i>	8,404.42	
40 05 19 00-0505	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,143.10	3,088.51
		<i>For Class 52 Rating, Deduct</i>	-3,130.99	
		<i>For Class 54 Rating, Add</i>	4,325.69	
		<i>For Class 55 Rating, Add</i>	6,459.68	
		<i>For Class 56 Rating, Add</i>	8,565.21	
40 05 19 00-0506	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,975.90	3,093.02
		<i>For Class 52 Rating, Deduct</i>	-3,221.85	
		<i>For Class 54 Rating, Add</i>	4,449.66	
		<i>For Class 55 Rating, Add</i>	6,644.03	
		<i>For Class 56 Rating, Add</i>	8,809.12	
40 05 19 00-0507	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,664.38	3,097.52
		<i>For Class 52 Rating, Deduct</i>	-3,296.83	
		<i>For Class 54 Rating, Add</i>	4,551.99	
		<i>For Class 55 Rating, Add</i>	6,796.21	
		<i>For Class 56 Rating, Add</i>	9,010.45	
40 05 19 00-0508	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,359.73	3,102.02
		<i>For Class 52 Rating, Deduct</i>	-3,372.57	
		<i>For Class 54 Rating, Add</i>	4,655.36	
		<i>For Class 55 Rating, Add</i>	6,949.91	
		<i>For Class 56 Rating, Add</i>	9,213.81	
40 05 19 00-0509	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,048.22	3,106.52
		<i>For Class 52 Rating, Deduct</i>	-3,447.55	
		<i>For Class 54 Rating, Add</i>	4,757.69	
		<i>For Class 55 Rating, Add</i>	7,102.09	
		<i>For Class 56 Rating, Add</i>	9,415.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,744.96	3,111.03
<i>For Class 52 Rating, Deduct</i>	-3,523.44	
<i>For Class 54 Rating, Add</i>	4,861.26	
<i>For Class 55 Rating, Add</i>	7,256.10	
<i>For Class 56 Rating, Add</i>	9,618.92	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,432.05	3,115.53
<i>For Class 52 Rating, Deduct</i>	-3,598.27	
<i>For Class 54 Rating, Add</i>	4,963.38	
<i>For Class 55 Rating, Add</i>	7,407.97	
<i>For Class 56 Rating, Add</i>	9,819.85	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,128.78	3,120.02
<i>For Class 52 Rating, Deduct</i>	-3,674.16	
<i>For Class 54 Rating, Add</i>	5,066.95	
<i>For Class 55 Rating, Add</i>	7,561.98	
<i>For Class 56 Rating, Add</i>	10,023.62	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,817.28	3,124.53
<i>For Class 52 Rating, Deduct</i>	-3,749.15	
<i>For Class 54 Rating, Add</i>	5,169.28	
<i>For Class 55 Rating, Add</i>	7,714.16	
<i>For Class 56 Rating, Add</i>	10,224.96	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,512.63	3,129.03
<i>For Class 52 Rating, Deduct</i>	-3,824.88	
<i>For Class 54 Rating, Add</i>	5,272.64	
<i>For Class 55 Rating, Add</i>	7,867.87	
<i>For Class 56 Rating, Add</i>	10,428.32	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,449.56	3,723.32
<i>For Class 52 Rating, Deduct</i>	-1,298.90	
<i>For Class 54 Rating, Add</i>	1,838.92	
<i>For Class 55 Rating, Add</i>	2,768.61	
<i>For Class 56 Rating, Add</i>	3,686.50	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,461.01	3,727.83
<i>For Class 52 Rating, Deduct</i>	-1,409.41	
<i>For Class 54 Rating, Add</i>	1,989.70	
<i>For Class 55 Rating, Add</i>	2,992.81	
<i>For Class 56 Rating, Add</i>	3,983.11	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,471.08	3,732.33
<i>For Class 52 Rating, Deduct</i>	-1,519.76	
<i>For Class 54 Rating, Add</i>	2,140.27	
<i>For Class 55 Rating, Add</i>	3,216.70	
<i>For Class 56 Rating, Add</i>	4,279.31	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,489.41	3,736.84
<i>For Class 52 Rating, Deduct</i>	-1,631.03	
<i>For Class 54 Rating, Add</i>	2,292.07	
<i>For Class 55 Rating, Add</i>	3,442.43	
<i>For Class 56 Rating, Add</i>	4,577.95	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,500.86	3,741.33
<i>For Class 52 Rating, Deduct</i>	-1,741.54	
<i>For Class 54 Rating, Add</i>	2,442.85	
<i>For Class 55 Rating, Add</i>	3,666.62	
<i>For Class 56 Rating, Add</i>	4,874.56	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,512.30	3,745.83
<i>For Class 52 Rating, Deduct</i>	-1,852.05	
<i>For Class 54 Rating, Add</i>	2,593.62	
<i>For Class 55 Rating, Add</i>	3,890.82	
<i>For Class 56 Rating, Add</i>	5,171.17	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,529.25	3,750.34
<i>For Class 52 Rating, Deduct</i>	-1,963.16	
<i>For Class 54 Rating, Add</i>	2,745.23	
<i>For Class 55 Rating, Add</i>	4,116.24	
<i>For Class 56 Rating, Add</i>	5,469.41	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,542.07	3,754.84
<i>For Class 52 Rating, Deduct</i>	-2,073.82	
<i>For Class 54 Rating, Add</i>	2,896.21	
<i>For Class 55 Rating, Add</i>	4,340.74	
<i>For Class 56 Rating, Add</i>	5,766.42	
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,552.15	3,759.34
<i>For Class 52 Rating, Deduct</i>	-2,184.18	
<i>For Class 54 Rating, Add</i>	3,046.78	
<i>For Class 55 Rating, Add</i>	4,564.63	
<i>For Class 56 Rating, Add</i>	6,062.63	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,570.46	3,763.84
<i>For Class 52 Rating, Deduct</i>	-2,295.44	
<i>For Class 54 Rating, Add</i>	3,198.58	
<i>For Class 55 Rating, Add</i>	4,790.36	
<i>For Class 56 Rating, Add</i>	6,361.26	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,581.92	3,768.35
<i>For Class 52 Rating, Deduct</i>	-2,405.95	
<i>For Class 54 Rating, Add</i>	3,349.36	
<i>For Class 55 Rating, Add</i>	5,014.55	
<i>For Class 56 Rating, Add</i>	6,657.87	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,600.24	3,772.85
			For Class 52 Rating, Deduct	-2,517.22	
			For Class 54 Rating, Add	3,501.17	
			For Class 55 Rating, Add	5,240.28	
			For Class 56 Rating, Add	6,956.51	
40 05 19 00-0528	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,610.32	3,777.35
			For Class 52 Rating, Deduct	-2,627.58	
			For Class 54 Rating, Add	3,651.74	
			For Class 55 Rating, Add	5,464.17	
			For Class 56 Rating, Add	7,252.72	
40 05 19 00-0529	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,621.77	3,781.85
			For Class 52 Rating, Deduct	-2,738.08	
			For Class 54 Rating, Add	3,802.51	
			For Class 55 Rating, Add	5,688.37	
			For Class 56 Rating, Add	7,549.33	
40 05 19 00-0530	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,640.08	3,786.36
			For Class 52 Rating, Deduct	-2,849.35	
			For Class 54 Rating, Add	3,954.32	
			For Class 55 Rating, Add	5,914.09	
			For Class 56 Rating, Add	7,847.97	
40 05 19 00-0531	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,651.53	3,790.86
			For Class 52 Rating, Deduct	-2,959.86	
			For Class 54 Rating, Add	4,105.10	
			For Class 55 Rating, Add	6,138.29	
			For Class 56 Rating, Add	8,144.58	
40 05 19 00-0532	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,661.60	3,795.36
			For Class 52 Rating, Deduct	-3,070.22	
			For Class 54 Rating, Add	4,255.67	
			For Class 55 Rating, Add	6,362.18	
			For Class 56 Rating, Add	8,440.78	
40 05 19 00-0533	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,679.93	3,799.86
			For Class 52 Rating, Deduct	-3,181.48	
			For Class 54 Rating, Add	4,407.47	
			For Class 55 Rating, Add	6,587.91	
			For Class 56 Rating, Add	8,739.42	
40 05 19 00-0534	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,691.38	3,804.36
			For Class 52 Rating, Deduct	-3,291.99	
			For Class 54 Rating, Add	4,558.25	
			For Class 55 Rating, Add	6,812.10	
			For Class 56 Rating, Add	9,036.03	
40 05 19 00-0535	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,701.46	3,808.87
			For Class 52 Rating, Deduct	-3,402.35	
			For Class 54 Rating, Add	4,708.82	
			For Class 55 Rating, Add	7,035.99	
			For Class 56 Rating, Add	9,332.24	
40 05 19 00-0536	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,719.79	3,813.37
			For Class 52 Rating, Deduct	-3,513.61	
			For Class 54 Rating, Add	4,860.63	
			For Class 55 Rating, Add	7,261.72	
			For Class 56 Rating, Add	9,630.88	
40 05 19 00-0537	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,732.60	3,817.87
			For Class 52 Rating, Deduct	-3,624.27	
			For Class 54 Rating, Add	5,011.61	
			For Class 55 Rating, Add	7,486.22	
			For Class 56 Rating, Add	9,927.89	
40 05 19 00-0538	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,742.67	3,822.37
			For Class 52 Rating, Deduct	-3,734.63	
			For Class 54 Rating, Add	5,162.18	
			For Class 55 Rating, Add	7,710.11	
			For Class 56 Rating, Add	10,224.10	
40 05 19 00-0539	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,760.99	3,826.88
			For Class 52 Rating, Deduct	-3,845.90	
			For Class 54 Rating, Add	5,313.98	
			For Class 55 Rating, Add	7,935.84	
			For Class 56 Rating, Add	10,522.73	
40 05 19 00-0540	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,772.45	3,831.38
			For Class 52 Rating, Deduct	-3,956.41	
			For Class 54 Rating, Add	5,464.76	
			For Class 55 Rating, Add	8,160.04	
			For Class 56 Rating, Add	10,819.35	
40 05 19 00-0541	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,782.52	3,835.88
			For Class 52 Rating, Deduct	-4,066.76	
			For Class 54 Rating, Add	5,615.33	
			For Class 55 Rating, Add	8,383.93	
			For Class 56 Rating, Add	11,115.55	
40 05 19 00-0542	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,800.84	3,840.38
			For Class 52 Rating, Deduct	-4,178.03	
			For Class 54 Rating, Add	5,767.14	
			For Class 55 Rating, Add	8,609.65	
			For Class 56 Rating, Add	11,414.19	
40 05 19 00-0543	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,812.30	3,844.88
			For Class 52 Rating, Deduct	-4,288.54	
			For Class 54 Rating, Add	5,917.91	
			For Class 55 Rating, Add	8,833.85	
			For Class 56 Rating, Add	11,710.80	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,700.05	3,849.39
<i>For Class 52 Rating, Deduct</i>	-4,385.44	
<i>For Class 54 Rating, Add</i>	6,050.14	
<i>For Class 55 Rating, Add</i>	9,030.46	
<i>For Class 56 Rating, Add</i>	11,970.92	
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,842.06	3,853.88
<i>For Class 52 Rating, Deduct</i>	-4,510.31	
<i>For Class 54 Rating, Add</i>	6,220.50	
<i>For Class 55 Rating, Add</i>	9,283.77	
<i>For Class 56 Rating, Add</i>	12,306.05	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,852.13	3,858.39
<i>For Class 52 Rating, Deduct</i>	-4,620.67	
<i>For Class 54 Rating, Add</i>	6,371.07	
<i>For Class 55 Rating, Add</i>	9,507.66	
<i>For Class 56 Rating, Add</i>	12,602.25	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,871.83	3,862.89
<i>For Class 52 Rating, Deduct</i>	-4,732.09	
<i>For Class 54 Rating, Add</i>	6,523.08	
<i>For Class 55 Rating, Add</i>	9,733.70	
<i>For Class 56 Rating, Add</i>	12,901.30	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,881.91	3,867.40
<i>For Class 52 Rating, Deduct</i>	-4,842.44	
<i>For Class 54 Rating, Add</i>	6,673.65	
<i>For Class 55 Rating, Add</i>	9,957.59	
<i>For Class 56 Rating, Add</i>	13,197.50	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,891.98	3,871.90
<i>For Class 52 Rating, Deduct</i>	-4,952.80	
<i>For Class 54 Rating, Add</i>	6,824.22	
<i>For Class 55 Rating, Add</i>	10,181.48	
<i>For Class 56 Rating, Add</i>	13,493.71	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,911.69	3,876.40
<i>For Class 52 Rating, Deduct</i>	-5,064.22	
<i>For Class 54 Rating, Add</i>	6,976.23	
<i>For Class 55 Rating, Add</i>	10,407.51	
<i>For Class 56 Rating, Add</i>	13,792.75	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,921.75	3,880.90
<i>For Class 52 Rating, Deduct</i>	-5,174.58	
<i>For Class 54 Rating, Add</i>	7,126.80	
<i>For Class 55 Rating, Add</i>	10,631.40	
<i>For Class 56 Rating, Add</i>	14,088.96	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,933.20	3,885.41
<i>For Class 52 Rating, Deduct</i>	-5,285.09	
<i>For Class 54 Rating, Add</i>	7,277.58	
<i>For Class 55 Rating, Add</i>	10,855.60	
<i>For Class 56 Rating, Add</i>	14,385.57	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,931.53	3,889.91
<i>For Class 52 Rating, Deduct</i>	-5,396.35	
<i>For Class 54 Rating, Add</i>	7,429.39	
<i>For Class 55 Rating, Add</i>	11,081.32	
<i>For Class 56 Rating, Add</i>	14,684.21	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	545.79	206.02
<i>For Class 52 Rating, Deduct</i>	-25.70	
<i>For Class 54 Rating, Add</i>	38.79	
<i>For Class 55 Rating, Add</i>	59.59	
<i>For Class 56 Rating, Add</i>	80.16	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	586.98	209.63
<i>For Class 52 Rating, Deduct</i>	-29.63	
<i>For Class 54 Rating, Add</i>	44.22	
<i>For Class 55 Rating, Add</i>	67.69	
<i>For Class 56 Rating, Add</i>	90.90	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	628.17	213.23
<i>For Class 52 Rating, Deduct</i>	-33.56	
<i>For Class 54 Rating, Add</i>	49.64	
<i>For Class 55 Rating, Add</i>	75.79	
<i>For Class 56 Rating, Add</i>	101.64	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	669.36	216.83
<i>For Class 52 Rating, Deduct</i>	-37.49	
<i>For Class 54 Rating, Add</i>	55.07	
<i>For Class 55 Rating, Add</i>	83.89	
<i>For Class 56 Rating, Add</i>	112.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0560	EA		4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	710.54	220.43
			<i>For Class 52 Rating, Deduct</i>	-41.42	
			<i>For Class 54 Rating, Add</i>	60.49	
			<i>For Class 55 Rating, Add</i>	91.99	
			<i>For Class 56 Rating, Add</i>	123.11	
40 05 19 00-0561	EA		4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	751.74	224.03
			<i>For Class 52 Rating, Deduct</i>	-45.35	
			<i>For Class 54 Rating, Add</i>	65.92	
			<i>For Class 55 Rating, Add</i>	100.09	
			<i>For Class 56 Rating, Add</i>	133.85	
40 05 19 00-0562	EA		4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	792.93	227.63
			<i>For Class 52 Rating, Deduct</i>	-49.28	
			<i>For Class 54 Rating, Add</i>	71.34	
			<i>For Class 55 Rating, Add</i>	108.19	
			<i>For Class 56 Rating, Add</i>	144.59	
40 05 19 00-0563	EA		4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	834.11	231.24
			<i>For Class 52 Rating, Deduct</i>	-53.21	
			<i>For Class 54 Rating, Add</i>	76.77	
			<i>For Class 55 Rating, Add</i>	116.29	
			<i>For Class 56 Rating, Add</i>	155.32	
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	875.30	234.84
			<i>For Class 52 Rating, Deduct</i>	-57.14	
			<i>For Class 54 Rating, Add</i>	82.19	
			<i>For Class 55 Rating, Add</i>	124.39	
			<i>For Class 56 Rating, Add</i>	166.06	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	916.50	238.44
			<i>For Class 52 Rating, Deduct</i>	-61.08	
			<i>For Class 54 Rating, Add</i>	87.62	
			<i>For Class 55 Rating, Add</i>	132.49	
			<i>For Class 56 Rating, Add</i>	176.80	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	957.68	242.04
			<i>For Class 52 Rating, Deduct</i>	-65.01	
			<i>For Class 54 Rating, Add</i>	93.04	
			<i>For Class 55 Rating, Add</i>	140.59	
			<i>For Class 56 Rating, Add</i>	187.54	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	998.87	245.64
			<i>For Class 52 Rating, Deduct</i>	-68.94	
			<i>For Class 54 Rating, Add</i>	98.47	
			<i>For Class 55 Rating, Add</i>	148.68	
			<i>For Class 56 Rating, Add</i>	198.27	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,040.06	249.25
			<i>For Class 52 Rating, Deduct</i>	-72.87	
			<i>For Class 54 Rating, Add</i>	103.89	
			<i>For Class 55 Rating, Add</i>	156.78	
			<i>For Class 56 Rating, Add</i>	209.01	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,081.24	252.85
			<i>For Class 52 Rating, Deduct</i>	-76.80	
			<i>For Class 54 Rating, Add</i>	109.32	
			<i>For Class 55 Rating, Add</i>	164.88	
			<i>For Class 56 Rating, Add</i>	219.75	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,122.44	256.45
			<i>For Class 52 Rating, Deduct</i>	-80.73	
			<i>For Class 54 Rating, Add</i>	114.75	
			<i>For Class 55 Rating, Add</i>	172.98	
			<i>For Class 56 Rating, Add</i>	230.49	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,163.63	260.05
			<i>For Class 52 Rating, Deduct</i>	-84.66	
			<i>For Class 54 Rating, Add</i>	120.17	
			<i>For Class 55 Rating, Add</i>	181.08	
			<i>For Class 56 Rating, Add</i>	241.22	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,204.82	263.65
			<i>For Class 52 Rating, Deduct</i>	-88.59	
			<i>For Class 54 Rating, Add</i>	125.60	
			<i>For Class 55 Rating, Add</i>	189.18	
			<i>For Class 56 Rating, Add</i>	251.96	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,246.00	267.25
			<i>For Class 52 Rating, Deduct</i>	-92.52	
			<i>For Class 54 Rating, Add</i>	131.02	
			<i>For Class 55 Rating, Add</i>	197.28	
			<i>For Class 56 Rating, Add</i>	262.70	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0574 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,287.20	270.86
<i>For Class 52 Rating, Deduct</i>	-96.45	
<i>For Class 54 Rating, Add</i>	136.45	
<i>For Class 55 Rating, Add</i>	205.38	
<i>For Class 56 Rating, Add</i>	273.44	
40 05 19 00-0575 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,328.39	274.46
<i>For Class 52 Rating, Deduct</i>	-100.38	
<i>For Class 54 Rating, Add</i>	141.87	
<i>For Class 55 Rating, Add</i>	213.48	
<i>For Class 56 Rating, Add</i>	284.17	
40 05 19 00-0576 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,369.57	278.05
<i>For Class 52 Rating, Deduct</i>	-104.31	
<i>For Class 54 Rating, Add</i>	147.30	
<i>For Class 55 Rating, Add</i>	221.58	
<i>For Class 56 Rating, Add</i>	294.91	
40 05 19 00-0577 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,410.77	281.66
<i>For Class 52 Rating, Deduct</i>	-108.24	
<i>For Class 54 Rating, Add</i>	152.72	
<i>For Class 55 Rating, Add</i>	229.68	
<i>For Class 56 Rating, Add</i>	305.65	
40 05 19 00-0578 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,451.97	285.26
<i>For Class 52 Rating, Deduct</i>	-112.17	
<i>For Class 54 Rating, Add</i>	158.15	
<i>For Class 55 Rating, Add</i>	237.78	
<i>For Class 56 Rating, Add</i>	316.39	
40 05 19 00-0579 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,493.15	288.87
<i>For Class 52 Rating, Deduct</i>	-116.10	
<i>For Class 54 Rating, Add</i>	163.57	
<i>For Class 55 Rating, Add</i>	245.88	
<i>For Class 56 Rating, Add</i>	327.12	
40 05 19 00-0580 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,534.34	292.47
<i>For Class 52 Rating, Deduct</i>	-120.03	
<i>For Class 54 Rating, Add</i>	169.00	
<i>For Class 55 Rating, Add</i>	253.97	
<i>For Class 56 Rating, Add</i>	337.86	
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,575.53	296.07
<i>For Class 52 Rating, Deduct</i>	-123.96	
<i>For Class 54 Rating, Add</i>	174.42	
<i>For Class 55 Rating, Add</i>	262.07	
<i>For Class 56 Rating, Add</i>	348.60	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,616.71	299.67
<i>For Class 52 Rating, Deduct</i>	-127.89	
<i>For Class 54 Rating, Add</i>	179.85	
<i>For Class 55 Rating, Add</i>	270.17	
<i>For Class 56 Rating, Add</i>	359.33	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,657.91	303.27
<i>For Class 52 Rating, Deduct</i>	-131.83	
<i>For Class 54 Rating, Add</i>	185.28	
<i>For Class 55 Rating, Add</i>	278.27	
<i>For Class 56 Rating, Add</i>	370.07	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,699.10	306.87
<i>For Class 52 Rating, Deduct</i>	-135.76	
<i>For Class 54 Rating, Add</i>	190.70	
<i>For Class 55 Rating, Add</i>	286.37	
<i>For Class 56 Rating, Add</i>	380.81	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.28	310.48
<i>For Class 52 Rating, Deduct</i>	-139.69	
<i>For Class 54 Rating, Add</i>	196.13	
<i>For Class 55 Rating, Add</i>	294.47	
<i>For Class 56 Rating, Add</i>	391.55	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,781.47	314.08
<i>For Class 52 Rating, Deduct</i>	-143.62	
<i>For Class 54 Rating, Add</i>	201.55	
<i>For Class 55 Rating, Add</i>	302.57	
<i>For Class 56 Rating, Add</i>	402.28	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,822.67	317.67
<i>For Class 52 Rating, Deduct</i>	-147.55	
<i>For Class 54 Rating, Add</i>	206.98	
<i>For Class 55 Rating, Add</i>	310.67	
<i>For Class 56 Rating, Add</i>	413.02	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,863.85	321.28
			<i>For Class 52 Rating, Deduct</i>	-151.48	
			<i>For Class 54 Rating, Add</i>	212.40	
			<i>For Class 55 Rating, Add</i>	318.77	
			<i>For Class 56 Rating, Add</i>	423.76	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,905.04	324.88
			<i>For Class 52 Rating, Deduct</i>	-155.41	
			<i>For Class 54 Rating, Add</i>	217.83	
			<i>For Class 55 Rating, Add</i>	326.87	
			<i>For Class 56 Rating, Add</i>	434.50	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,946.23	328.49
			<i>For Class 52 Rating, Deduct</i>	-159.34	
			<i>For Class 54 Rating, Add</i>	223.25	
			<i>For Class 55 Rating, Add</i>	334.97	
			<i>For Class 56 Rating, Add</i>	445.23	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,987.43	332.09
			<i>For Class 52 Rating, Deduct</i>	-163.27	
			<i>For Class 54 Rating, Add</i>	228.68	
			<i>For Class 55 Rating, Add</i>	343.07	
			<i>For Class 56 Rating, Add</i>	455.97	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.61	335.68
			<i>For Class 52 Rating, Deduct</i>	-167.20	
			<i>For Class 54 Rating, Add</i>	234.10	
			<i>For Class 55 Rating, Add</i>	351.17	
			<i>For Class 56 Rating, Add</i>	466.71	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,069.80	339.29
			<i>For Class 52 Rating, Deduct</i>	-171.13	
			<i>For Class 54 Rating, Add</i>	239.53	
			<i>For Class 55 Rating, Add</i>	359.27	
			<i>For Class 56 Rating, Add</i>	477.45	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,110.99	342.89
			<i>For Class 52 Rating, Deduct</i>	-175.06	
			<i>For Class 54 Rating, Add</i>	244.95	
			<i>For Class 55 Rating, Add</i>	367.36	
			<i>For Class 56 Rating, Add</i>	488.18	

40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0594)

40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	682.89	259.33
			<i>For Class 52 Rating, Deduct</i>	-31.90	
			<i>For Class 54 Rating, Add</i>	48.21	
			<i>For Class 55 Rating, Add</i>	74.10	
			<i>For Class 56 Rating, Add</i>	99.69	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	732.34	262.92
			<i>For Class 52 Rating, Deduct</i>	-36.74	
			<i>For Class 54 Rating, Add</i>	54.87	
			<i>For Class 55 Rating, Add</i>	84.03	
			<i>For Class 56 Rating, Add</i>	112.86	
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	781.78	266.53
			<i>For Class 52 Rating, Deduct</i>	-41.57	
			<i>For Class 54 Rating, Add</i>	61.54	
			<i>For Class 55 Rating, Add</i>	93.97	
			<i>For Class 56 Rating, Add</i>	126.03	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	831.22	270.13
			<i>For Class 52 Rating, Deduct</i>	-46.41	
			<i>For Class 54 Rating, Add</i>	68.20	
			<i>For Class 55 Rating, Add</i>	103.91	
			<i>For Class 56 Rating, Add</i>	139.20	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	880.64	273.74
			<i>For Class 52 Rating, Deduct</i>	-51.25	
			<i>For Class 54 Rating, Add</i>	74.86	
			<i>For Class 55 Rating, Add</i>	113.85	
			<i>For Class 56 Rating, Add</i>	152.37	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	930.08	277.34
			<i>For Class 52 Rating, Deduct</i>	-56.09	
			<i>For Class 54 Rating, Add</i>	81.52	
			<i>For Class 55 Rating, Add</i>	123.79	
			<i>For Class 56 Rating, Add</i>	165.54	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.52	280.93
<i>For Class 52 Rating, Deduct</i>	-60.92	
<i>For Class 54 Rating, Add</i>	88.19	
<i>For Class 55 Rating, Add</i>	133.72	
<i>For Class 56 Rating, Add</i>	178.71	
40 05 19 00-0603 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,028.95	284.54
<i>For Class 52 Rating, Deduct</i>	-65.76	
<i>For Class 54 Rating, Add</i>	94.85	
<i>For Class 55 Rating, Add</i>	143.66	
<i>For Class 56 Rating, Add</i>	191.88	
40 05 19 00-0604 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,078.39	288.14
<i>For Class 52 Rating, Deduct</i>	-70.60	
<i>For Class 54 Rating, Add</i>	101.51	
<i>For Class 55 Rating, Add</i>	153.60	
<i>For Class 56 Rating, Add</i>	205.05	
40 05 19 00-0605 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,127.83	291.74
<i>For Class 52 Rating, Deduct</i>	-75.44	
<i>For Class 54 Rating, Add</i>	108.17	
<i>For Class 55 Rating, Add</i>	163.54	
<i>For Class 56 Rating, Add</i>	218.22	
40 05 19 00-0606 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,177.25	295.35
<i>For Class 52 Rating, Deduct</i>	-80.27	
<i>For Class 54 Rating, Add</i>	114.83	
<i>For Class 55 Rating, Add</i>	173.48	
<i>For Class 56 Rating, Add</i>	231.39	
40 05 19 00-0607 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,226.69	298.95
<i>For Class 52 Rating, Deduct</i>	-85.11	
<i>For Class 54 Rating, Add</i>	121.50	
<i>For Class 55 Rating, Add</i>	183.41	
<i>For Class 56 Rating, Add</i>	244.56	
40 05 19 00-0608 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,276.13	302.54
<i>For Class 52 Rating, Deduct</i>	-89.95	
<i>For Class 54 Rating, Add</i>	128.16	
<i>For Class 55 Rating, Add</i>	193.35	
<i>For Class 56 Rating, Add</i>	257.73	
40 05 19 00-0609 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.56	306.15
<i>For Class 52 Rating, Deduct</i>	-94.79	
<i>For Class 54 Rating, Add</i>	134.82	
<i>For Class 55 Rating, Add</i>	203.29	
<i>For Class 56 Rating, Add</i>	270.90	
40 05 19 00-0610 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,375.00	309.75
<i>For Class 52 Rating, Deduct</i>	-99.62	
<i>For Class 54 Rating, Add</i>	141.48	
<i>For Class 55 Rating, Add</i>	213.23	
<i>For Class 56 Rating, Add</i>	284.07	
40 05 19 00-0611 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,424.44	313.36
<i>For Class 52 Rating, Deduct</i>	-104.46	
<i>For Class 54 Rating, Add</i>	148.15	
<i>For Class 55 Rating, Add</i>	223.17	
<i>For Class 56 Rating, Add</i>	297.24	
40 05 19 00-0612 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,473.86	316.96
<i>For Class 52 Rating, Deduct</i>	-109.30	
<i>For Class 54 Rating, Add</i>	154.81	
<i>For Class 55 Rating, Add</i>	233.11	
<i>For Class 56 Rating, Add</i>	310.41	
40 05 19 00-0613 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,523.30	320.55
<i>For Class 52 Rating, Deduct</i>	-114.14	
<i>For Class 54 Rating, Add</i>	161.47	
<i>For Class 55 Rating, Add</i>	243.04	
<i>For Class 56 Rating, Add</i>	323.58	
40 05 19 00-0614 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.74	324.16
<i>For Class 52 Rating, Deduct</i>	-118.97	
<i>For Class 54 Rating, Add</i>	168.13	
<i>For Class 55 Rating, Add</i>	252.98	
<i>For Class 56 Rating, Add</i>	336.75	
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,622.18	327.76
<i>For Class 52 Rating, Deduct</i>	-123.81	
<i>For Class 54 Rating, Add</i>	174.79	
<i>For Class 55 Rating, Add</i>	262.92	
<i>For Class 56 Rating, Add</i>	349.92	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0616	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,671.61	331.36
			<i>For Class 52 Rating, Deduct</i>	-128.65	
			<i>For Class 54 Rating, Add</i>	181.46	
			<i>For Class 55 Rating, Add</i>	272.86	
			<i>For Class 56 Rating, Add</i>	363.09	
40 05 19 00-0617	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,721.04	334.97
			<i>For Class 52 Rating, Deduct</i>	-133.49	
			<i>For Class 54 Rating, Add</i>	188.12	
			<i>For Class 55 Rating, Add</i>	282.80	
			<i>For Class 56 Rating, Add</i>	376.26	
40 05 19 00-0618	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,770.48	338.56
			<i>For Class 52 Rating, Deduct</i>	-138.33	
			<i>For Class 54 Rating, Add</i>	194.78	
			<i>For Class 55 Rating, Add</i>	292.73	
			<i>For Class 56 Rating, Add</i>	389.43	
40 05 19 00-0619	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,819.91	342.16
			<i>For Class 52 Rating, Deduct</i>	-143.16	
			<i>For Class 54 Rating, Add</i>	201.44	
			<i>For Class 55 Rating, Add</i>	302.67	
			<i>For Class 56 Rating, Add</i>	402.60	
40 05 19 00-0620	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,869.35	345.77
			<i>For Class 52 Rating, Deduct</i>	-148.00	
			<i>For Class 54 Rating, Add</i>	208.11	
			<i>For Class 55 Rating, Add</i>	312.61	
			<i>For Class 56 Rating, Add</i>	415.77	
40 05 19 00-0621	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,918.79	349.37
			<i>For Class 52 Rating, Deduct</i>	-152.84	
			<i>For Class 54 Rating, Add</i>	214.77	
			<i>For Class 55 Rating, Add</i>	322.55	
			<i>For Class 56 Rating, Add</i>	428.94	
40 05 19 00-0622	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,968.22	352.98
			<i>For Class 52 Rating, Deduct</i>	-157.68	
			<i>For Class 54 Rating, Add</i>	221.43	
			<i>For Class 55 Rating, Add</i>	332.49	
			<i>For Class 56 Rating, Add</i>	442.11	
40 05 19 00-0623	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,017.65	356.58
			<i>For Class 52 Rating, Deduct</i>	-162.51	
			<i>For Class 54 Rating, Add</i>	228.09	
			<i>For Class 55 Rating, Add</i>	342.42	
			<i>For Class 56 Rating, Add</i>	455.28	
40 05 19 00-0624	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,067.09	360.17
			<i>For Class 52 Rating, Deduct</i>	-167.35	
			<i>For Class 54 Rating, Add</i>	234.75	
			<i>For Class 55 Rating, Add</i>	352.36	
			<i>For Class 56 Rating, Add</i>	468.45	
40 05 19 00-0625	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.53	363.78
			<i>For Class 52 Rating, Deduct</i>	-172.19	
			<i>For Class 54 Rating, Add</i>	241.42	
			<i>For Class 55 Rating, Add</i>	362.30	
			<i>For Class 56 Rating, Add</i>	481.62	
40 05 19 00-0626	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,165.97	367.38
			<i>For Class 52 Rating, Deduct</i>	-177.03	
			<i>For Class 54 Rating, Add</i>	248.08	
			<i>For Class 55 Rating, Add</i>	372.24	
			<i>For Class 56 Rating, Add</i>	494.79	
40 05 19 00-0627	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,215.41	370.98
			<i>For Class 52 Rating, Deduct</i>	-181.86	
			<i>For Class 54 Rating, Add</i>	254.74	
			<i>For Class 55 Rating, Add</i>	382.18	
			<i>For Class 56 Rating, Add</i>	507.96	
40 05 19 00-0628	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,264.84	374.59
			<i>For Class 52 Rating, Deduct</i>	-186.70	
			<i>For Class 54 Rating, Add</i>	261.40	
			<i>For Class 55 Rating, Add</i>	392.12	
			<i>For Class 56 Rating, Add</i>	521.13	
40 05 19 00-0629	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,314.27	378.18
			<i>For Class 52 Rating, Deduct</i>	-191.54	
			<i>For Class 54 Rating, Add</i>	268.07	
			<i>For Class 55 Rating, Add</i>	402.05	
			<i>For Class 56 Rating, Add</i>	534.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,363.71	381.78
For Class 52 Rating, Deduct	-196.38	
For Class 54 Rating, Add	274.73	
For Class 55 Rating, Add	411.99	
For Class 56 Rating, Add	547.47	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,413.15	385.39
For Class 52 Rating, Deduct	-201.21	
For Class 54 Rating, Add	281.39	
For Class 55 Rating, Add	421.93	
For Class 56 Rating, Add	560.64	
40 05 19 00-0632 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,462.58	388.99
For Class 52 Rating, Deduct	-206.05	
For Class 54 Rating, Add	288.05	
For Class 55 Rating, Add	431.87	
For Class 56 Rating, Add	573.81	
40 05 19 00-0633 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,512.02	392.60
For Class 52 Rating, Deduct	-210.89	
For Class 54 Rating, Add	294.72	
For Class 55 Rating, Add	441.81	
For Class 56 Rating, Add	586.98	
40 05 19 00-0634 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,561.45	396.19
For Class 52 Rating, Deduct	-215.73	
For Class 54 Rating, Add	301.38	
For Class 55 Rating, Add	451.74	
For Class 56 Rating, Add	600.15	
40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0636 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	925.35	331.36
For Class 52 Rating, Deduct	-46.56	
For Class 54 Rating, Add	69.52	
For Class 55 Rating, Add	106.44	
For Class 56 Rating, Add	142.94	
40 05 19 00-0637 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	991.28	334.97
For Class 52 Rating, Deduct	-53.21	
For Class 54 Rating, Add	78.65	
For Class 55 Rating, Add	120.06	
For Class 56 Rating, Add	160.98	
40 05 19 00-0638 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,057.21	338.56
For Class 52 Rating, Deduct	-59.87	
For Class 54 Rating, Add	87.79	
For Class 55 Rating, Add	133.67	
For Class 56 Rating, Add	179.02	
40 05 19 00-0639 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,123.13	342.16
For Class 52 Rating, Deduct	-66.52	
For Class 54 Rating, Add	96.93	
For Class 55 Rating, Add	147.29	
For Class 56 Rating, Add	197.05	
40 05 19 00-0640 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,189.06	345.77
For Class 52 Rating, Deduct	-73.17	
For Class 54 Rating, Add	106.06	
For Class 55 Rating, Add	160.91	
For Class 56 Rating, Add	215.09	
40 05 19 00-0641 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,254.99	349.37
For Class 52 Rating, Deduct	-79.82	
For Class 54 Rating, Add	115.20	
For Class 55 Rating, Add	174.52	
For Class 56 Rating, Add	233.12	
40 05 19 00-0642 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,320.91	352.98
For Class 52 Rating, Deduct	-86.47	
For Class 54 Rating, Add	124.33	
For Class 55 Rating, Add	188.14	
For Class 56 Rating, Add	251.16	
40 05 19 00-0643 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,386.84	356.58
For Class 52 Rating, Deduct	-93.12	
For Class 54 Rating, Add	133.47	
For Class 55 Rating, Add	201.75	
For Class 56 Rating, Add	269.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,452.77	360.17
			<i>For Class 52 Rating, Deduct</i>	-99.78	
			<i>For Class 54 Rating, Add</i>	142.61	
			<i>For Class 55 Rating, Add</i>	215.37	
			<i>For Class 56 Rating, Add</i>	287.23	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,518.70	363.78
			<i>For Class 52 Rating, Deduct</i>	-106.43	
			<i>For Class 54 Rating, Add</i>	151.74	
			<i>For Class 55 Rating, Add</i>	228.99	
			<i>For Class 56 Rating, Add</i>	305.26	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,584.63	367.38
			<i>For Class 52 Rating, Deduct</i>	-113.08	
			<i>For Class 54 Rating, Add</i>	160.88	
			<i>For Class 55 Rating, Add</i>	242.60	
			<i>For Class 56 Rating, Add</i>	323.30	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,650.56	370.98
			<i>For Class 52 Rating, Deduct</i>	-119.73	
			<i>For Class 54 Rating, Add</i>	170.01	
			<i>For Class 55 Rating, Add</i>	256.22	
			<i>For Class 56 Rating, Add</i>	341.33	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,716.48	374.59
			<i>For Class 52 Rating, Deduct</i>	-126.38	
			<i>For Class 54 Rating, Add</i>	179.15	
			<i>For Class 55 Rating, Add</i>	269.83	
			<i>For Class 56 Rating, Add</i>	359.37	
40 05 19 00-0649	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,782.41	378.18
			<i>For Class 52 Rating, Deduct</i>	-133.03	
			<i>For Class 54 Rating, Add</i>	188.29	
			<i>For Class 55 Rating, Add</i>	283.45	
			<i>For Class 56 Rating, Add</i>	377.40	
40 05 19 00-0650	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,848.34	381.78
			<i>For Class 52 Rating, Deduct</i>	-139.69	
			<i>For Class 54 Rating, Add</i>	197.42	
			<i>For Class 55 Rating, Add</i>	297.06	
			<i>For Class 56 Rating, Add</i>	395.44	
40 05 19 00-0651	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,914.27	385.39
			<i>For Class 52 Rating, Deduct</i>	-146.34	
			<i>For Class 54 Rating, Add</i>	206.56	
			<i>For Class 55 Rating, Add</i>	310.68	
			<i>For Class 56 Rating, Add</i>	413.47	
40 05 19 00-0652	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.19	388.99
			<i>For Class 52 Rating, Deduct</i>	-152.99	
			<i>For Class 54 Rating, Add</i>	215.69	
			<i>For Class 55 Rating, Add</i>	324.30	
			<i>For Class 56 Rating, Add</i>	431.51	
40 05 19 00-0653	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,046.12	392.60
			<i>For Class 52 Rating, Deduct</i>	-159.64	
			<i>For Class 54 Rating, Add</i>	224.83	
			<i>For Class 55 Rating, Add</i>	337.91	
			<i>For Class 56 Rating, Add</i>	449.54	
40 05 19 00-0654	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,112.05	396.19
			<i>For Class 52 Rating, Deduct</i>	-166.29	
			<i>For Class 54 Rating, Add</i>	233.97	
			<i>For Class 55 Rating, Add</i>	351.53	
			<i>For Class 56 Rating, Add</i>	467.58	
40 05 19 00-0655	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,177.97	399.79
			<i>For Class 52 Rating, Deduct</i>	-172.94	
			<i>For Class 54 Rating, Add</i>	243.10	
			<i>For Class 55 Rating, Add</i>	365.14	
			<i>For Class 56 Rating, Add</i>	485.61	
40 05 19 00-0656	EA		8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,243.90	403.40
			<i>For Class 52 Rating, Deduct</i>	-179.60	
			<i>For Class 54 Rating, Add</i>	252.24	
			<i>For Class 55 Rating, Add</i>	378.76	
			<i>For Class 56 Rating, Add</i>	503.65	
40 05 19 00-0657	EA		8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,309.83	407.00
			<i>For Class 52 Rating, Deduct</i>	-186.25	
			<i>For Class 54 Rating, Add</i>	261.37	
			<i>For Class 55 Rating, Add</i>	392.37	
			<i>For Class 56 Rating, Add</i>	521.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,375.75	410.60
<i>For Class 52 Rating, Deduct</i>	-192.90	
<i>For Class 54 Rating, Add</i>	270.51	
<i>For Class 55 Rating, Add</i>	405.99	
<i>For Class 56 Rating, Add</i>	539.72	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,441.68	414.21
<i>For Class 52 Rating, Deduct</i>	-199.55	
<i>For Class 54 Rating, Add</i>	279.65	
<i>For Class 55 Rating, Add</i>	419.61	
<i>For Class 56 Rating, Add</i>	557.75	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.61	417.80
<i>For Class 52 Rating, Deduct</i>	-206.20	
<i>For Class 54 Rating, Add</i>	288.78	
<i>For Class 55 Rating, Add</i>	433.22	
<i>For Class 56 Rating, Add</i>	575.79	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,573.53	421.40
<i>For Class 52 Rating, Deduct</i>	-212.85	
<i>For Class 54 Rating, Add</i>	297.92	
<i>For Class 55 Rating, Add</i>	446.84	
<i>For Class 56 Rating, Add</i>	593.82	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.46	425.01
<i>For Class 52 Rating, Deduct</i>	-219.51	
<i>For Class 54 Rating, Add</i>	307.05	
<i>For Class 55 Rating, Add</i>	460.45	
<i>For Class 56 Rating, Add</i>	611.86	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,705.39	428.61
<i>For Class 52 Rating, Deduct</i>	-226.16	
<i>For Class 54 Rating, Add</i>	316.19	
<i>For Class 55 Rating, Add</i>	474.07	
<i>For Class 56 Rating, Add</i>	629.89	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,771.31	432.22
<i>For Class 52 Rating, Deduct</i>	-232.81	
<i>For Class 54 Rating, Add</i>	325.33	
<i>For Class 55 Rating, Add</i>	487.68	
<i>For Class 56 Rating, Add</i>	647.93	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,837.24	435.81
<i>For Class 52 Rating, Deduct</i>	-239.46	
<i>For Class 54 Rating, Add</i>	334.46	
<i>For Class 55 Rating, Add</i>	501.30	
<i>For Class 56 Rating, Add</i>	665.96	
40 05 19 00-0666 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,903.17	439.41
<i>For Class 52 Rating, Deduct</i>	-246.11	
<i>For Class 54 Rating, Add</i>	343.60	
<i>For Class 55 Rating, Add</i>	514.92	
<i>For Class 56 Rating, Add</i>	684.00	
40 05 19 00-0667 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,969.10	443.02
<i>For Class 52 Rating, Deduct</i>	-252.76	
<i>For Class 54 Rating, Add</i>	352.73	
<i>For Class 55 Rating, Add</i>	528.53	
<i>For Class 56 Rating, Add</i>	702.03	
40 05 19 00-0668 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,035.02	446.62
<i>For Class 52 Rating, Deduct</i>	-259.42	
<i>For Class 54 Rating, Add</i>	361.87	
<i>For Class 55 Rating, Add</i>	542.15	
<i>For Class 56 Rating, Add</i>	720.07	
40 05 19 00-0669 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,100.95	450.22
<i>For Class 52 Rating, Deduct</i>	-266.07	
<i>For Class 54 Rating, Add</i>	371.01	
<i>For Class 55 Rating, Add</i>	555.76	
<i>For Class 56 Rating, Add</i>	738.10	
40 05 19 00-0670 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,166.88	453.83
<i>For Class 52 Rating, Deduct</i>	-272.72	
<i>For Class 54 Rating, Add</i>	380.14	
<i>For Class 55 Rating, Add</i>	569.38	
<i>For Class 56 Rating, Add</i>	756.14	
40 05 19 00-0671 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,232.80	457.42
<i>For Class 52 Rating, Deduct</i>	-279.37	
<i>For Class 54 Rating, Add</i>	389.28	
<i>For Class 55 Rating, Add</i>	583.00	
<i>For Class 56 Rating, Add</i>	774.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,298.73	461.02
			<i>For Class 52 Rating, Deduct</i>	-286.02	
			<i>For Class 54 Rating, Add</i>	398.41	
			<i>For Class 55 Rating, Add</i>	596.61	
			<i>For Class 56 Rating, Add</i>	792.21	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,364.66	464.63
			<i>For Class 52 Rating, Deduct</i>	-292.67	
			<i>For Class 54 Rating, Add</i>	407.55	
			<i>For Class 55 Rating, Add</i>	610.23	
			<i>For Class 56 Rating, Add</i>	810.24	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,430.59	468.23
			<i>For Class 52 Rating, Deduct</i>	-299.33	
			<i>For Class 54 Rating, Add</i>	416.69	
			<i>For Class 55 Rating, Add</i>	623.84	
			<i>For Class 56 Rating, Add</i>	828.28	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,152.69	403.40
			<i>For Class 52 Rating, Deduct</i>	-59.56	
			<i>For Class 54 Rating, Add</i>	88.56	
			<i>For Class 55 Rating, Add</i>	135.42	
			<i>For Class 56 Rating, Add</i>	181.74	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,237.86	407.00
			<i>For Class 52 Rating, Deduct</i>	-68.33	
			<i>For Class 54 Rating, Add</i>	100.58	
			<i>For Class 55 Rating, Add</i>	153.33	
			<i>For Class 56 Rating, Add</i>	205.45	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,323.02	410.60
			<i>For Class 52 Rating, Deduct</i>	-77.10	
			<i>For Class 54 Rating, Add</i>	112.60	
			<i>For Class 55 Rating, Add</i>	171.23	
			<i>For Class 56 Rating, Add</i>	229.16	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.19	414.21
			<i>For Class 52 Rating, Deduct</i>	-85.87	
			<i>For Class 54 Rating, Add</i>	124.62	
			<i>For Class 55 Rating, Add</i>	189.14	
			<i>For Class 56 Rating, Add</i>	252.87	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,493.36	417.80
			<i>For Class 52 Rating, Deduct</i>	-94.64	
			<i>For Class 54 Rating, Add</i>	136.64	
			<i>For Class 55 Rating, Add</i>	207.04	
			<i>For Class 56 Rating, Add</i>	276.58	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,578.52	421.40
			<i>For Class 52 Rating, Deduct</i>	-103.40	
			<i>For Class 54 Rating, Add</i>	148.67	
			<i>For Class 55 Rating, Add</i>	224.95	
			<i>For Class 56 Rating, Add</i>	300.29	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.70	425.01
			<i>For Class 52 Rating, Deduct</i>	-112.17	
			<i>For Class 54 Rating, Add</i>	160.69	
			<i>For Class 55 Rating, Add</i>	242.86	
			<i>For Class 56 Rating, Add</i>	324.01	
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,748.87	428.61
			<i>For Class 52 Rating, Deduct</i>	-120.94	
			<i>For Class 54 Rating, Add</i>	172.71	
			<i>For Class 55 Rating, Add</i>	260.77	
			<i>For Class 56 Rating, Add</i>	347.72	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,834.03	432.22
			<i>For Class 52 Rating, Deduct</i>	-129.71	
			<i>For Class 54 Rating, Add</i>	184.73	
			<i>For Class 55 Rating, Add</i>	278.67	
			<i>For Class 56 Rating, Add</i>	371.43	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,919.20	435.81
			<i>For Class 52 Rating, Deduct</i>	-138.48	
			<i>For Class 54 Rating, Add</i>	196.76	
			<i>For Class 55 Rating, Add</i>	296.58	
			<i>For Class 56 Rating, Add</i>	395.14	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,004.37	439.41
<i>For Class 52 Rating, Deduct</i>	-147.24	
<i>For Class 54 Rating, Add</i>	208.78	
<i>For Class 55 Rating, Add</i>	314.48	
<i>For Class 56 Rating, Add</i>	418.85	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,089.54	443.02
<i>For Class 52 Rating, Deduct</i>	-156.01	
<i>For Class 54 Rating, Add</i>	220.80	
<i>For Class 55 Rating, Add</i>	332.39	
<i>For Class 56 Rating, Add</i>	442.56	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,174.70	446.62
<i>For Class 52 Rating, Deduct</i>	-164.78	
<i>For Class 54 Rating, Add</i>	232.82	
<i>For Class 55 Rating, Add</i>	350.30	
<i>For Class 56 Rating, Add</i>	466.27	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,259.87	450.22
<i>For Class 52 Rating, Deduct</i>	-173.55	
<i>For Class 54 Rating, Add</i>	244.84	
<i>For Class 55 Rating, Add</i>	368.20	
<i>For Class 56 Rating, Add</i>	489.98	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,345.04	453.83
<i>For Class 52 Rating, Deduct</i>	-182.32	
<i>For Class 54 Rating, Add</i>	256.87	
<i>For Class 55 Rating, Add</i>	386.11	
<i>For Class 56 Rating, Add</i>	513.70	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,430.20	457.42
<i>For Class 52 Rating, Deduct</i>	-191.09	
<i>For Class 54 Rating, Add</i>	268.89	
<i>For Class 55 Rating, Add</i>	404.02	
<i>For Class 56 Rating, Add</i>	537.41	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,515.37	461.02
<i>For Class 52 Rating, Deduct</i>	-199.85	
<i>For Class 54 Rating, Add</i>	280.91	
<i>For Class 55 Rating, Add</i>	421.92	
<i>For Class 56 Rating, Add</i>	561.12	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,600.54	464.63
<i>For Class 52 Rating, Deduct</i>	-208.62	
<i>For Class 54 Rating, Add</i>	292.93	
<i>For Class 55 Rating, Add</i>	439.83	
<i>For Class 56 Rating, Add</i>	584.83	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,685.71	468.23
<i>For Class 52 Rating, Deduct</i>	-217.39	
<i>For Class 54 Rating, Add</i>	304.95	
<i>For Class 55 Rating, Add</i>	457.73	
<i>For Class 56 Rating, Add</i>	608.54	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,770.88	471.84
<i>For Class 52 Rating, Deduct</i>	-226.16	
<i>For Class 54 Rating, Add</i>	316.98	
<i>For Class 55 Rating, Add</i>	475.64	
<i>For Class 56 Rating, Add</i>	632.25	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.05	475.43
<i>For Class 52 Rating, Deduct</i>	-234.93	
<i>For Class 54 Rating, Add</i>	329.00	
<i>For Class 55 Rating, Add</i>	493.55	
<i>For Class 56 Rating, Add</i>	655.96	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,941.21	479.03
<i>For Class 52 Rating, Deduct</i>	-243.69	
<i>For Class 54 Rating, Add</i>	341.02	
<i>For Class 55 Rating, Add</i>	511.45	
<i>For Class 56 Rating, Add</i>	679.67	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.38	482.64
<i>For Class 52 Rating, Deduct</i>	-252.46	
<i>For Class 54 Rating, Add</i>	353.04	
<i>For Class 55 Rating, Add</i>	529.36	
<i>For Class 56 Rating, Add</i>	703.38	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,111.55	486.24
<i>For Class 52 Rating, Deduct</i>	-261.23	
<i>For Class 54 Rating, Add</i>	365.06	
<i>For Class 55 Rating, Add</i>	547.27	
<i>For Class 56 Rating, Add</i>	727.09	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,196.72	489.84
			<i>For Class 52 Rating, Deduct</i>	-270.00	
			<i>For Class 54 Rating, Add</i>	377.09	
			<i>For Class 55 Rating, Add</i>	565.17	
			<i>For Class 56 Rating, Add</i>	750.81	
40 05 19 00-0701	EA	10"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,281.89	493.44
			<i>For Class 52 Rating, Deduct</i>	-278.77	
			<i>For Class 54 Rating, Add</i>	389.11	
			<i>For Class 55 Rating, Add</i>	583.08	
			<i>For Class 56 Rating, Add</i>	774.52	
40 05 19 00-0702	EA	10"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,367.06	497.04
			<i>For Class 52 Rating, Deduct</i>	-287.54	
			<i>For Class 54 Rating, Add</i>	401.13	
			<i>For Class 55 Rating, Add</i>	600.99	
			<i>For Class 56 Rating, Add</i>	798.23	
40 05 19 00-0703	EA	10"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,452.23	500.64
			<i>For Class 52 Rating, Deduct</i>	-296.30	
			<i>For Class 54 Rating, Add</i>	413.15	
			<i>For Class 55 Rating, Add</i>	618.89	
			<i>For Class 56 Rating, Add</i>	821.94	
40 05 19 00-0704	EA	10"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,537.39	504.25
			<i>For Class 52 Rating, Deduct</i>	-305.07	
			<i>For Class 54 Rating, Add</i>	425.18	
			<i>For Class 55 Rating, Add</i>	636.80	
			<i>For Class 56 Rating, Add</i>	845.65	
40 05 19 00-0705	EA	10"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,622.56	507.85
			<i>For Class 52 Rating, Deduct</i>	-313.84	
			<i>For Class 54 Rating, Add</i>	437.20	
			<i>For Class 55 Rating, Add</i>	654.71	
			<i>For Class 56 Rating, Add</i>	869.36	
40 05 19 00-0706	EA	10"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,707.73	511.46
			<i>For Class 52 Rating, Deduct</i>	-322.61	
			<i>For Class 54 Rating, Add</i>	449.22	
			<i>For Class 55 Rating, Add</i>	672.61	
			<i>For Class 56 Rating, Add</i>	893.07	
40 05 19 00-0707	EA	10"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,792.89	515.05
			<i>For Class 52 Rating, Deduct</i>	-331.38	
			<i>For Class 54 Rating, Add</i>	461.24	
			<i>For Class 55 Rating, Add</i>	690.52	
			<i>For Class 56 Rating, Add</i>	916.78	
40 05 19 00-0708	EA	10"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,878.06	518.65
			<i>For Class 52 Rating, Deduct</i>	-340.14	
			<i>For Class 54 Rating, Add</i>	473.26	
			<i>For Class 55 Rating, Add</i>	708.43	
			<i>For Class 56 Rating, Add</i>	940.50	
40 05 19 00-0709	EA	10"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,963.23	522.26
			<i>For Class 52 Rating, Deduct</i>	-348.91	
			<i>For Class 54 Rating, Add</i>	485.29	
			<i>For Class 55 Rating, Add</i>	726.33	
			<i>For Class 56 Rating, Add</i>	964.21	
40 05 19 00-0710	EA	10"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,048.39	525.86
			<i>For Class 52 Rating, Deduct</i>	-357.68	
			<i>For Class 54 Rating, Add</i>	497.31	
			<i>For Class 55 Rating, Add</i>	744.24	
			<i>For Class 56 Rating, Add</i>	987.92	
40 05 19 00-0711	EA	10"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,133.56	529.46
			<i>For Class 52 Rating, Deduct</i>	-366.45	
			<i>For Class 54 Rating, Add</i>	509.33	
			<i>For Class 55 Rating, Add</i>	762.14	
			<i>For Class 56 Rating, Add</i>	1,011.63	
40 05 19 00-0712	EA	10"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,218.73	533.06
			<i>For Class 52 Rating, Deduct</i>	-375.22	
			<i>For Class 54 Rating, Add</i>	521.35	
			<i>For Class 55 Rating, Add</i>	780.05	
			<i>For Class 56 Rating, Add</i>	1,035.34	
40 05 19 00-0713	EA	10"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,303.89	536.66
			<i>For Class 52 Rating, Deduct</i>	-383.98	
			<i>For Class 54 Rating, Add</i>	533.37	
			<i>For Class 55 Rating, Add</i>	797.96	
			<i>For Class 56 Rating, Add</i>	1,059.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,389.06	540.26
For Class 52 Rating, Deduct	-392.75	
For Class 54 Rating, Add	545.39	
For Class 55 Rating, Add	815.86	
For Class 56 Rating, Add	1,082.76	
40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0716 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,481.41	504.25
For Class 52 Rating, Deduct	-78.91	
For Class 54 Rating, Add	116.78	
For Class 55 Rating, Add	178.32	
For Class 56 Rating, Add	239.14	
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,587.19	507.85
For Class 52 Rating, Deduct	-89.95	
For Class 54 Rating, Add	131.89	
For Class 55 Rating, Add	200.82	
For Class 56 Rating, Add	268.93	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,692.98	511.46
For Class 52 Rating, Deduct	-100.99	
For Class 54 Rating, Add	147.01	
For Class 55 Rating, Add	223.32	
For Class 56 Rating, Add	298.72	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,798.75	515.05
For Class 52 Rating, Deduct	-112.02	
For Class 54 Rating, Add	162.12	
For Class 55 Rating, Add	245.83	
For Class 56 Rating, Add	328.51	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,904.54	518.65
For Class 52 Rating, Deduct	-123.06	
For Class 54 Rating, Add	177.24	
For Class 55 Rating, Add	268.33	
For Class 56 Rating, Add	358.31	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,010.32	522.26
For Class 52 Rating, Deduct	-134.09	
For Class 54 Rating, Add	192.35	
For Class 55 Rating, Add	290.83	
For Class 56 Rating, Add	388.10	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.10	525.86
For Class 52 Rating, Deduct	-145.13	
For Class 54 Rating, Add	207.46	
For Class 55 Rating, Add	313.34	
For Class 56 Rating, Add	417.89	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,221.88	529.46
For Class 52 Rating, Deduct	-156.16	
For Class 54 Rating, Add	222.58	
For Class 55 Rating, Add	335.84	
For Class 56 Rating, Add	447.68	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,327.67	533.06
For Class 52 Rating, Deduct	-167.20	
For Class 54 Rating, Add	237.69	
For Class 55 Rating, Add	358.34	
For Class 56 Rating, Add	477.48	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,433.44	536.66
For Class 52 Rating, Deduct	-178.24	
For Class 54 Rating, Add	252.81	
For Class 55 Rating, Add	380.85	
For Class 56 Rating, Add	507.27	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,539.23	540.26
For Class 52 Rating, Deduct	-189.27	
For Class 54 Rating, Add	267.92	
For Class 55 Rating, Add	403.35	
For Class 56 Rating, Add	537.06	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,645.01	543.87
For Class 52 Rating, Deduct	-200.31	
For Class 54 Rating, Add	283.03	
For Class 55 Rating, Add	425.85	
For Class 56 Rating, Add	566.85	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0728	EA	12"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,750.79	547.47
			<i>For Class 52 Rating, Deduct</i>	-211.34	
			<i>For Class 54 Rating, Add</i>	298.15	
			<i>For Class 55 Rating, Add</i>	448.36	
			<i>For Class 56 Rating, Add</i>	596.65	
40 05 19 00-0729	EA	12"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.57	551.07
			<i>For Class 52 Rating, Deduct</i>	-222.38	
			<i>For Class 54 Rating, Add</i>	313.26	
			<i>For Class 55 Rating, Add</i>	470.86	
			<i>For Class 56 Rating, Add</i>	626.44	
40 05 19 00-0730	EA	12"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,962.36	554.67
			<i>For Class 52 Rating, Deduct</i>	-233.41	
			<i>For Class 54 Rating, Add</i>	328.38	
			<i>For Class 55 Rating, Add</i>	493.36	
			<i>For Class 56 Rating, Add</i>	656.23	
40 05 19 00-0731	EA	12"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,068.15	558.27
			<i>For Class 52 Rating, Deduct</i>	-244.45	
			<i>For Class 54 Rating, Add</i>	343.49	
			<i>For Class 55 Rating, Add</i>	515.87	
			<i>For Class 56 Rating, Add</i>	686.02	
40 05 19 00-0732	EA	12"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,173.92	561.88
			<i>For Class 52 Rating, Deduct</i>	-255.49	
			<i>For Class 54 Rating, Add</i>	358.61	
			<i>For Class 55 Rating, Add</i>	538.37	
			<i>For Class 56 Rating, Add</i>	715.81	
40 05 19 00-0733	EA	12"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,279.71	565.48
			<i>For Class 52 Rating, Deduct</i>	-266.52	
			<i>For Class 54 Rating, Add</i>	373.72	
			<i>For Class 55 Rating, Add</i>	560.88	
			<i>For Class 56 Rating, Add</i>	745.61	
40 05 19 00-0734	EA	12"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,385.49	569.08
			<i>For Class 52 Rating, Deduct</i>	-277.56	
			<i>For Class 54 Rating, Add</i>	388.83	
			<i>For Class 55 Rating, Add</i>	583.38	
			<i>For Class 56 Rating, Add</i>	775.40	
40 05 19 00-0735	EA	12"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,491.28	572.68
			<i>For Class 52 Rating, Deduct</i>	-288.59	
			<i>For Class 54 Rating, Add</i>	403.95	
			<i>For Class 55 Rating, Add</i>	605.88	
			<i>For Class 56 Rating, Add</i>	805.19	
40 05 19 00-0736	EA	12"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,597.06	576.28
			<i>For Class 52 Rating, Deduct</i>	-299.63	
			<i>For Class 54 Rating, Add</i>	419.06	
			<i>For Class 55 Rating, Add</i>	628.39	
			<i>For Class 56 Rating, Add</i>	834.98	
40 05 19 00-0737	EA	12"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,702.85	579.88
			<i>For Class 52 Rating, Deduct</i>	-310.67	
			<i>For Class 54 Rating, Add</i>	434.18	
			<i>For Class 55 Rating, Add</i>	650.89	
			<i>For Class 56 Rating, Add</i>	864.78	
40 05 19 00-0738	EA	12"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,808.62	583.49
			<i>For Class 52 Rating, Deduct</i>	-321.70	
			<i>For Class 54 Rating, Add</i>	449.29	
			<i>For Class 55 Rating, Add</i>	673.39	
			<i>For Class 56 Rating, Add</i>	894.57	
40 05 19 00-0739	EA	12"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,914.41	587.09
			<i>For Class 52 Rating, Deduct</i>	-332.74	
			<i>For Class 54 Rating, Add</i>	464.41	
			<i>For Class 55 Rating, Add</i>	695.90	
			<i>For Class 56 Rating, Add</i>	924.36	
40 05 19 00-0740	EA	12"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,020.19	590.69
			<i>For Class 52 Rating, Deduct</i>	-343.77	
			<i>For Class 54 Rating, Add</i>	479.52	
			<i>For Class 55 Rating, Add</i>	718.40	
			<i>For Class 56 Rating, Add</i>	954.15	
40 05 19 00-0741	EA	12"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,125.97	594.29
			<i>For Class 52 Rating, Deduct</i>	-354.81	
			<i>For Class 54 Rating, Add</i>	494.63	
			<i>For Class 55 Rating, Add</i>	740.90	
			<i>For Class 56 Rating, Add</i>	983.95	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0742 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,231.75	597.89
<i>For Class 52 Rating, Deduct</i>	-365.84	
<i>For Class 54 Rating, Add</i>	509.75	
<i>For Class 55 Rating, Add</i>	763.41	
<i>For Class 56 Rating, Add</i>	1,013.74	
40 05 19 00-0743 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,337.54	601.50
<i>For Class 52 Rating, Deduct</i>	-376.88	
<i>For Class 54 Rating, Add</i>	524.86	
<i>For Class 55 Rating, Add</i>	785.91	
<i>For Class 56 Rating, Add</i>	1,043.53	
40 05 19 00-0744 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,443.32	605.10
<i>For Class 52 Rating, Deduct</i>	-387.92	
<i>For Class 54 Rating, Add</i>	539.98	
<i>For Class 55 Rating, Add</i>	808.42	
<i>For Class 56 Rating, Add</i>	1,073.33	
40 05 19 00-0745 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,549.10	608.69
<i>For Class 52 Rating, Deduct</i>	-398.95	
<i>For Class 54 Rating, Add</i>	555.09	
<i>For Class 55 Rating, Add</i>	830.92	
<i>For Class 56 Rating, Add</i>	1,103.12	
40 05 19 00-0746 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,654.89	612.30
<i>For Class 52 Rating, Deduct</i>	-409.99	
<i>For Class 54 Rating, Add</i>	570.21	
<i>For Class 55 Rating, Add</i>	853.42	
<i>For Class 56 Rating, Add</i>	1,132.91	
40 05 19 00-0747 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,760.67	615.90
<i>For Class 52 Rating, Deduct</i>	-421.02	
<i>For Class 54 Rating, Add</i>	585.32	
<i>For Class 55 Rating, Add</i>	875.92	
<i>For Class 56 Rating, Add</i>	1,162.70	
40 05 19 00-0748 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,866.45	619.50
<i>For Class 52 Rating, Deduct</i>	-432.06	
<i>For Class 54 Rating, Add</i>	600.44	
<i>For Class 55 Rating, Add</i>	898.43	
<i>For Class 56 Rating, Add</i>	1,192.49	
40 05 19 00-0749 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,972.23	623.11
<i>For Class 52 Rating, Deduct</i>	-443.09	
<i>For Class 54 Rating, Add</i>	615.55	
<i>For Class 55 Rating, Add</i>	920.93	
<i>For Class 56 Rating, Add</i>	1,222.29	
40 05 19 00-0750 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,078.02	626.71
<i>For Class 52 Rating, Deduct</i>	-454.13	
<i>For Class 54 Rating, Add</i>	630.66	
<i>For Class 55 Rating, Add</i>	943.44	
<i>For Class 56 Rating, Add</i>	1,252.08	
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,183.79	630.31
<i>For Class 52 Rating, Deduct</i>	-465.17	
<i>For Class 54 Rating, Add</i>	645.78	
<i>For Class 55 Rating, Add</i>	965.94	
<i>For Class 56 Rating, Add</i>	1,281.87	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,289.58	633.91
<i>For Class 52 Rating, Deduct</i>	-476.20	
<i>For Class 54 Rating, Add</i>	660.89	
<i>For Class 55 Rating, Add</i>	988.44	
<i>For Class 56 Rating, Add</i>	1,311.66	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,395.36	637.51
<i>For Class 52 Rating, Deduct</i>	-487.24	
<i>For Class 54 Rating, Add</i>	676.01	
<i>For Class 55 Rating, Add</i>	1,010.95	
<i>For Class 56 Rating, Add</i>	1,341.46	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,501.14	641.12
<i>For Class 52 Rating, Deduct</i>	-498.27	
<i>For Class 54 Rating, Add</i>	691.12	
<i>For Class 55 Rating, Add</i>	1,033.45	
<i>For Class 56 Rating, Add</i>	1,371.25	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0756	EA	14"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,988.78	605.10
			<i>For Class 52 Rating, Deduct</i>	-117.92	
			<i>For Class 54 Rating, Add</i>	171.80	
			<i>For Class 55 Rating, Add</i>	261.05	
			<i>For Class 56 Rating, Add</i>	349.24	
40 05 19 00-0757	EA	14"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.55	608.69
			<i>For Class 52 Rating, Deduct</i>	-131.37	
			<i>For Class 54 Rating, Add</i>	190.21	
			<i>For Class 55 Rating, Add</i>	288.46	
			<i>For Class 56 Rating, Add</i>	385.51	
40 05 19 00-0758	EA	14"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.33	612.30
			<i>For Class 52 Rating, Deduct</i>	-144.83	
			<i>For Class 54 Rating, Add</i>	208.62	
			<i>For Class 55 Rating, Add</i>	315.87	
			<i>For Class 56 Rating, Add</i>	421.80	
40 05 19 00-0759	EA	14"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,372.10	615.90
			<i>For Class 52 Rating, Deduct</i>	-158.28	
			<i>For Class 54 Rating, Add</i>	227.03	
			<i>For Class 55 Rating, Add</i>	343.27	
			<i>For Class 56 Rating, Add</i>	458.07	
40 05 19 00-0760	EA	14"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,499.87	619.50
			<i>For Class 52 Rating, Deduct</i>	-171.74	
			<i>For Class 54 Rating, Add</i>	245.45	
			<i>For Class 55 Rating, Add</i>	370.68	
			<i>For Class 56 Rating, Add</i>	494.35	
40 05 19 00-0761	EA	14"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,627.64	623.11
			<i>For Class 52 Rating, Deduct</i>	-185.19	
			<i>For Class 54 Rating, Add</i>	263.86	
			<i>For Class 55 Rating, Add</i>	398.09	
			<i>For Class 56 Rating, Add</i>	530.63	
40 05 19 00-0762	EA	14"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,755.42	626.71
			<i>For Class 52 Rating, Deduct</i>	-198.64	
			<i>For Class 54 Rating, Add</i>	282.27	
			<i>For Class 55 Rating, Add</i>	425.50	
			<i>For Class 56 Rating, Add</i>	566.91	
40 05 19 00-0763	EA	14"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,883.18	630.31
			<i>For Class 52 Rating, Deduct</i>	-212.10	
			<i>For Class 54 Rating, Add</i>	300.69	
			<i>For Class 55 Rating, Add</i>	452.90	
			<i>For Class 56 Rating, Add</i>	603.19	
40 05 19 00-0764	EA	14"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,010.96	633.91
			<i>For Class 52 Rating, Deduct</i>	-225.55	
			<i>For Class 54 Rating, Add</i>	319.10	
			<i>For Class 55 Rating, Add</i>	480.31	
			<i>For Class 56 Rating, Add</i>	639.47	
40 05 19 00-0765	EA	14"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,138.73	637.51
			<i>For Class 52 Rating, Deduct</i>	-239.01	
			<i>For Class 54 Rating, Add</i>	337.51	
			<i>For Class 55 Rating, Add</i>	507.72	
			<i>For Class 56 Rating, Add</i>	675.75	
40 05 19 00-0766	EA	14"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,266.49	641.12
			<i>For Class 52 Rating, Deduct</i>	-252.46	
			<i>For Class 54 Rating, Add</i>	355.92	
			<i>For Class 55 Rating, Add</i>	535.12	
			<i>For Class 56 Rating, Add</i>	712.03	
40 05 19 00-0767	EA	14"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,394.27	644.72
			<i>For Class 52 Rating, Deduct</i>	-265.92	
			<i>For Class 54 Rating, Add</i>	374.34	
			<i>For Class 55 Rating, Add</i>	562.53	
			<i>For Class 56 Rating, Add</i>	748.31	
40 05 19 00-0768	EA	14"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,522.04	648.31
			<i>For Class 52 Rating, Deduct</i>	-279.37	
			<i>For Class 54 Rating, Add</i>	392.75	
			<i>For Class 55 Rating, Add</i>	589.94	
			<i>For Class 56 Rating, Add</i>	784.59	
40 05 19 00-0769	EA	14"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,649.81	651.92
			<i>For Class 52 Rating, Deduct</i>	-292.83	
			<i>For Class 54 Rating, Add</i>	411.16	
			<i>For Class 55 Rating, Add</i>	617.35	
			<i>For Class 56 Rating, Add</i>	820.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0770 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,777.58	655.52
<i>For Class 52 Rating, Deduct</i>	-306.28	
<i>For Class 54 Rating, Add</i>	429.57	
<i>For Class 55 Rating, Add</i>	644.75	
<i>For Class 56 Rating, Add</i>	857.14	
40 05 19 00-0771 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,905.36	659.12
<i>For Class 52 Rating, Deduct</i>	-319.74	
<i>For Class 54 Rating, Add</i>	447.99	
<i>For Class 55 Rating, Add</i>	672.16	
<i>For Class 56 Rating, Add</i>	893.43	
40 05 19 00-0772 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,033.12	662.73
<i>For Class 52 Rating, Deduct</i>	-333.19	
<i>For Class 54 Rating, Add</i>	466.40	
<i>For Class 55 Rating, Add</i>	699.57	
<i>For Class 56 Rating, Add</i>	929.70	
40 05 19 00-0773 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,160.90	666.33
<i>For Class 52 Rating, Deduct</i>	-346.65	
<i>For Class 54 Rating, Add</i>	484.81	
<i>For Class 55 Rating, Add</i>	726.97	
<i>For Class 56 Rating, Add</i>	965.98	
40 05 19 00-0774 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,288.67	669.93
<i>For Class 52 Rating, Deduct</i>	-360.10	
<i>For Class 54 Rating, Add</i>	503.22	
<i>For Class 55 Rating, Add</i>	754.38	
<i>For Class 56 Rating, Add</i>	1,002.26	
40 05 19 00-0775 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,416.44	673.53
<i>For Class 52 Rating, Deduct</i>	-373.55	
<i>For Class 54 Rating, Add</i>	521.64	
<i>For Class 55 Rating, Add</i>	781.79	
<i>For Class 56 Rating, Add</i>	1,038.54	
40 05 19 00-0776 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,544.22	677.13
<i>For Class 52 Rating, Deduct</i>	-387.01	
<i>For Class 54 Rating, Add</i>	540.05	
<i>For Class 55 Rating, Add</i>	809.20	
<i>For Class 56 Rating, Add</i>	1,074.82	
40 05 19 00-0777 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,671.99	680.74
<i>For Class 52 Rating, Deduct</i>	-400.46	
<i>For Class 54 Rating, Add</i>	558.46	
<i>For Class 55 Rating, Add</i>	836.60	
<i>For Class 56 Rating, Add</i>	1,111.10	
40 05 19 00-0778 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,799.77	684.34
<i>For Class 52 Rating, Deduct</i>	-413.92	
<i>For Class 54 Rating, Add</i>	576.88	
<i>For Class 55 Rating, Add</i>	864.01	
<i>For Class 56 Rating, Add</i>	1,147.38	
40 05 19 00-0779 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,927.53	687.93
<i>For Class 52 Rating, Deduct</i>	-427.37	
<i>For Class 54 Rating, Add</i>	595.29	
<i>For Class 55 Rating, Add</i>	891.42	
<i>For Class 56 Rating, Add</i>	1,183.66	
40 05 19 00-0780 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,055.31	691.54
<i>For Class 52 Rating, Deduct</i>	-440.83	
<i>For Class 54 Rating, Add</i>	613.70	
<i>For Class 55 Rating, Add</i>	918.82	
<i>For Class 56 Rating, Add</i>	1,219.94	
40 05 19 00-0781 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,183.08	695.14
<i>For Class 52 Rating, Deduct</i>	-454.28	
<i>For Class 54 Rating, Add</i>	632.11	
<i>For Class 55 Rating, Add</i>	946.23	
<i>For Class 56 Rating, Add</i>	1,256.22	
40 05 19 00-0782 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,310.85	698.74
<i>For Class 52 Rating, Deduct</i>	-467.74	
<i>For Class 54 Rating, Add</i>	650.53	
<i>For Class 55 Rating, Add</i>	973.64	
<i>For Class 56 Rating, Add</i>	1,292.50	
40 05 19 00-0783 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,438.62	702.35
<i>For Class 52 Rating, Deduct</i>	-481.19	
<i>For Class 54 Rating, Add</i>	668.94	
<i>For Class 55 Rating, Add</i>	1,001.04	
<i>For Class 56 Rating, Add</i>	1,328.78	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,566.40	705.94
			<i>For Class 52 Rating, Deduct</i>	-494.65	
			<i>For Class 54 Rating, Add</i>	687.35	
			<i>For Class 55 Rating, Add</i>	1,028.45	
			<i>For Class 56 Rating, Add</i>	1,365.06	
40 05 19 00-0785	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,694.16	709.55
			<i>For Class 52 Rating, Deduct</i>	-508.10	
			<i>For Class 54 Rating, Add</i>	705.76	
			<i>For Class 55 Rating, Add</i>	1,055.86	
			<i>For Class 56 Rating, Add</i>	1,401.33	
40 05 19 00-0786	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,821.93	713.15
			<i>For Class 52 Rating, Deduct</i>	-521.55	
			<i>For Class 54 Rating, Add</i>	724.18	
			<i>For Class 55 Rating, Add</i>	1,083.26	
			<i>For Class 56 Rating, Add</i>	1,437.61	
40 05 19 00-0787	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,949.71	716.75
			<i>For Class 52 Rating, Deduct</i>	-535.01	
			<i>For Class 54 Rating, Add</i>	742.59	
			<i>For Class 55 Rating, Add</i>	1,110.67	
			<i>For Class 56 Rating, Add</i>	1,473.89	
40 05 19 00-0788	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,077.47	720.36
			<i>For Class 52 Rating, Deduct</i>	-548.46	
			<i>For Class 54 Rating, Add</i>	761.00	
			<i>For Class 55 Rating, Add</i>	1,138.08	
			<i>For Class 56 Rating, Add</i>	1,510.17	
40 05 19 00-0789	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,205.25	723.96
			<i>For Class 52 Rating, Deduct</i>	-561.92	
			<i>For Class 54 Rating, Add</i>	779.42	
			<i>For Class 55 Rating, Add</i>	1,165.49	
			<i>For Class 56 Rating, Add</i>	1,546.45	
40 05 19 00-0790	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,333.02	727.55
			<i>For Class 52 Rating, Deduct</i>	-575.37	
			<i>For Class 54 Rating, Add</i>	797.83	
			<i>For Class 55 Rating, Add</i>	1,192.89	
			<i>For Class 56 Rating, Add</i>	1,582.73	
40 05 19 00-0791	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,460.80	731.16
			<i>For Class 52 Rating, Deduct</i>	-588.83	
			<i>For Class 54 Rating, Add</i>	816.24	
			<i>For Class 55 Rating, Add</i>	1,220.30	
			<i>For Class 56 Rating, Add</i>	1,619.01	
40 05 19 00-0792	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,588.56	734.76
			<i>For Class 52 Rating, Deduct</i>	-602.28	
			<i>For Class 54 Rating, Add</i>	834.65	
			<i>For Class 55 Rating, Add</i>	1,247.71	
			<i>For Class 56 Rating, Add</i>	1,655.29	
40 05 19 00-0793	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,716.34	738.36
			<i>For Class 52 Rating, Deduct</i>	-615.74	
			<i>For Class 54 Rating, Add</i>	853.07	
			<i>For Class 55 Rating, Add</i>	1,275.12	
			<i>For Class 56 Rating, Add</i>	1,691.57	
40 05 19 00-0794			16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0795	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,316.29	691.54
			<i>For Class 52 Rating, Deduct</i>	-139.54	
			<i>For Class 54 Rating, Add</i>	202.85	
			<i>For Class 55 Rating, Add</i>	308.02	
			<i>For Class 56 Rating, Add</i>	411.93	
40 05 19 00-0796	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.68	695.14
			<i>For Class 52 Rating, Deduct</i>	-155.26	
			<i>For Class 54 Rating, Add</i>	224.35	
			<i>For Class 55 Rating, Add</i>	340.03	
			<i>For Class 56 Rating, Add</i>	454.29	
40 05 19 00-0797	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,613.06	698.74
			<i>For Class 52 Rating, Deduct</i>	-170.98	
			<i>For Class 54 Rating, Add</i>	245.86	
			<i>For Class 55 Rating, Add</i>	372.03	
			<i>For Class 56 Rating, Add</i>	496.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,761.45	702.35
<i>For Class 52 Rating, Deduct</i>	-186.70	
<i>For Class 54 Rating, Add</i>	267.36	
<i>For Class 55 Rating, Add</i>	404.04	
<i>For Class 56 Rating, Add</i>	539.01	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,909.83	705.94
<i>For Class 52 Rating, Deduct</i>	-202.42	
<i>For Class 54 Rating, Add</i>	288.87	
<i>For Class 55 Rating, Add</i>	436.04	
<i>For Class 56 Rating, Add</i>	581.37	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,058.21	709.55
<i>For Class 52 Rating, Deduct</i>	-218.15	
<i>For Class 54 Rating, Add</i>	310.37	
<i>For Class 55 Rating, Add</i>	468.04	
<i>For Class 56 Rating, Add</i>	623.73	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,206.60	713.15
<i>For Class 52 Rating, Deduct</i>	-233.87	
<i>For Class 54 Rating, Add</i>	331.88	
<i>For Class 55 Rating, Add</i>	500.05	
<i>For Class 56 Rating, Add</i>	666.09	
40 05 19 00-0802 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,354.99	716.75
<i>For Class 52 Rating, Deduct</i>	-249.59	
<i>For Class 54 Rating, Add</i>	353.38	
<i>For Class 55 Rating, Add</i>	532.05	
<i>For Class 56 Rating, Add</i>	708.45	
40 05 19 00-0803 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.37	720.36
<i>For Class 52 Rating, Deduct</i>	-265.31	
<i>For Class 54 Rating, Add</i>	374.89	
<i>For Class 55 Rating, Add</i>	564.05	
<i>For Class 56 Rating, Add</i>	750.81	
40 05 19 00-0804 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,638.02	723.96
<i>For Class 52 Rating, Deduct</i>	-279.52	
<i>For Class 54 Rating, Add</i>	394.33	
<i>For Class 55 Rating, Add</i>	593.00	
<i>For Class 56 Rating, Add</i>	789.12	
40 05 19 00-0805 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,800.15	727.55
<i>For Class 52 Rating, Deduct</i>	-296.76	
<i>For Class 54 Rating, Add</i>	417.90	
<i>For Class 55 Rating, Add</i>	628.06	
<i>For Class 56 Rating, Add</i>	835.53	
40 05 19 00-0806 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,948.54	731.16
<i>For Class 52 Rating, Deduct</i>	-312.48	
<i>For Class 54 Rating, Add</i>	439.40	
<i>For Class 55 Rating, Add</i>	660.07	
<i>For Class 56 Rating, Add</i>	877.89	
40 05 19 00-0807 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,096.92	734.76
<i>For Class 52 Rating, Deduct</i>	-328.20	
<i>For Class 54 Rating, Add</i>	460.91	
<i>For Class 55 Rating, Add</i>	692.07	
<i>For Class 56 Rating, Add</i>	920.25	
40 05 19 00-0808 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,245.31	738.36
<i>For Class 52 Rating, Deduct</i>	-343.92	
<i>For Class 54 Rating, Add</i>	482.41	
<i>For Class 55 Rating, Add</i>	724.08	
<i>For Class 56 Rating, Add</i>	962.62	
40 05 19 00-0809 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,393.70	741.97
<i>For Class 52 Rating, Deduct</i>	-359.65	
<i>For Class 54 Rating, Add</i>	503.92	
<i>For Class 55 Rating, Add</i>	756.08	
<i>For Class 56 Rating, Add</i>	1,004.98	
40 05 19 00-0810 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,542.08	745.56
<i>For Class 52 Rating, Deduct</i>	-375.37	
<i>For Class 54 Rating, Add</i>	525.42	
<i>For Class 55 Rating, Add</i>	788.09	
<i>For Class 56 Rating, Add</i>	1,047.34	
40 05 19 00-0811 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,690.47	749.16
<i>For Class 52 Rating, Deduct</i>	-391.09	
<i>For Class 54 Rating, Add</i>	546.93	
<i>For Class 55 Rating, Add</i>	820.09	
<i>For Class 56 Rating, Add</i>	1,089.70	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,838.86	752.77
			<i>For Class 52 Rating, Deduct</i>	-406.81	
			<i>For Class 54 Rating, Add</i>	568.43	
			<i>For Class 55 Rating, Add</i>	852.09	
			<i>For Class 56 Rating, Add</i>	1,132.06	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,987.23	756.37
			<i>For Class 52 Rating, Deduct</i>	-422.53	
			<i>For Class 54 Rating, Add</i>	589.94	
			<i>For Class 55 Rating, Add</i>	884.10	
			<i>For Class 56 Rating, Add</i>	1,174.42	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,135.62	759.98
			<i>For Class 52 Rating, Deduct</i>	-438.26	
			<i>For Class 54 Rating, Add</i>	611.44	
			<i>For Class 55 Rating, Add</i>	916.10	
			<i>For Class 56 Rating, Add</i>	1,216.78	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,284.01	763.57
			<i>For Class 52 Rating, Deduct</i>	-453.98	
			<i>For Class 54 Rating, Add</i>	632.95	
			<i>For Class 55 Rating, Add</i>	948.11	
			<i>For Class 56 Rating, Add</i>	1,259.14	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,432.39	767.17
			<i>For Class 52 Rating, Deduct</i>	-469.70	
			<i>For Class 54 Rating, Add</i>	654.45	
			<i>For Class 55 Rating, Add</i>	980.11	
			<i>For Class 56 Rating, Add</i>	1,301.50	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,580.78	770.78
			<i>For Class 52 Rating, Deduct</i>	-485.42	
			<i>For Class 54 Rating, Add</i>	675.96	
			<i>For Class 55 Rating, Add</i>	1,012.11	
			<i>For Class 56 Rating, Add</i>	1,343.86	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,729.17	774.38
			<i>For Class 52 Rating, Deduct</i>	-501.15	
			<i>For Class 54 Rating, Add</i>	697.46	
			<i>For Class 55 Rating, Add</i>	1,044.12	
			<i>For Class 56 Rating, Add</i>	1,386.22	
40 05 19 00-0819	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,877.56	777.98
			<i>For Class 52 Rating, Deduct</i>	-516.87	
			<i>For Class 54 Rating, Add</i>	718.97	
			<i>For Class 55 Rating, Add</i>	1,076.12	
			<i>For Class 56 Rating, Add</i>	1,428.58	
40 05 19 00-0820	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,025.95	781.59
			<i>For Class 52 Rating, Deduct</i>	-532.59	
			<i>For Class 54 Rating, Add</i>	740.47	
			<i>For Class 55 Rating, Add</i>	1,108.13	
			<i>For Class 56 Rating, Add</i>	1,470.94	
40 05 19 00-0821	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,174.34	785.18
			<i>For Class 52 Rating, Deduct</i>	-548.31	
			<i>For Class 54 Rating, Add</i>	761.98	
			<i>For Class 55 Rating, Add</i>	1,140.13	
			<i>For Class 56 Rating, Add</i>	1,513.30	
40 05 19 00-0822	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,322.72	788.78
			<i>For Class 52 Rating, Deduct</i>	-564.03	
			<i>For Class 54 Rating, Add</i>	783.48	
			<i>For Class 55 Rating, Add</i>	1,172.14	
			<i>For Class 56 Rating, Add</i>	1,555.66	
40 05 19 00-0823	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,471.11	792.39
			<i>For Class 52 Rating, Deduct</i>	-579.76	
			<i>For Class 54 Rating, Add</i>	804.99	
			<i>For Class 55 Rating, Add</i>	1,204.14	
			<i>For Class 56 Rating, Add</i>	1,598.02	
40 05 19 00-0824	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,619.50	795.99
			<i>For Class 52 Rating, Deduct</i>	-595.48	
			<i>For Class 54 Rating, Add</i>	826.49	
			<i>For Class 55 Rating, Add</i>	1,236.14	
			<i>For Class 56 Rating, Add</i>	1,640.39	
40 05 19 00-0825	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,767.89	799.60
			<i>For Class 52 Rating, Deduct</i>	-611.20	
			<i>For Class 54 Rating, Add</i>	848.00	
			<i>For Class 55 Rating, Add</i>	1,268.15	
			<i>For Class 56 Rating, Add</i>	1,682.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,916.26	803.19
For Class 52 Rating, Deduct	-626.92	
For Class 54 Rating, Add	869.50	
For Class 55 Rating, Add	1,300.15	
For Class 56 Rating, Add	1,725.10	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,064.65	806.79
For Class 52 Rating, Deduct	-642.65	
For Class 54 Rating, Add	891.00	
For Class 55 Rating, Add	1,332.16	
For Class 56 Rating, Add	1,767.46	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,213.04	810.40
For Class 52 Rating, Deduct	-658.37	
For Class 54 Rating, Add	912.51	
For Class 55 Rating, Add	1,364.16	
For Class 56 Rating, Add	1,809.83	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,361.42	814.00
For Class 52 Rating, Deduct	-674.09	
For Class 54 Rating, Add	934.01	
For Class 55 Rating, Add	1,396.16	
For Class 56 Rating, Add	1,852.19	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,509.81	817.60
For Class 52 Rating, Deduct	-689.81	
For Class 54 Rating, Add	955.52	
For Class 55 Rating, Add	1,428.17	
For Class 56 Rating, Add	1,894.55	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,658.20	821.20
For Class 52 Rating, Deduct	-705.53	
For Class 54 Rating, Add	977.02	
For Class 55 Rating, Add	1,460.17	
For Class 56 Rating, Add	1,936.91	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,806.58	824.80
For Class 52 Rating, Deduct	-721.26	
For Class 54 Rating, Add	998.53	
For Class 55 Rating, Add	1,492.18	
For Class 56 Rating, Add	1,979.27	
40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,685.82	779.42
For Class 52 Rating, Deduct	-165.54	
For Class 54 Rating, Add	239.90	
For Class 55 Rating, Add	363.93	
For Class 56 Rating, Add	486.45	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.20	783.03
For Class 52 Rating, Deduct	-183.68	
For Class 54 Rating, Add	264.71	
For Class 55 Rating, Add	400.84	
For Class 56 Rating, Add	535.30	
40 05 19 00-0836 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.57	786.63
For Class 52 Rating, Deduct	-201.82	
For Class 54 Rating, Add	289.51	
For Class 55 Rating, Add	437.75	
For Class 56 Rating, Add	584.15	
40 05 19 00-0837 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,196.95	790.23
For Class 52 Rating, Deduct	-219.96	
For Class 54 Rating, Add	314.31	
For Class 55 Rating, Add	474.66	
For Class 56 Rating, Add	633.00	
40 05 19 00-0838 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,367.32	793.84
For Class 52 Rating, Deduct	-238.10	
For Class 54 Rating, Add	339.12	
For Class 55 Rating, Add	511.56	
For Class 56 Rating, Add	681.84	
40 05 19 00-0839 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,537.70	797.43
For Class 52 Rating, Deduct	-256.24	
For Class 54 Rating, Add	363.92	
For Class 55 Rating, Add	548.47	
For Class 56 Rating, Add	730.69	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,708.07	801.04
			<i>For Class 52 Rating, Deduct</i>	-274.38	
			<i>For Class 54 Rating, Add</i>	388.72	
			<i>For Class 55 Rating, Add</i>	585.38	
			<i>For Class 56 Rating, Add</i>	779.54	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,878.45	804.64
			<i>For Class 52 Rating, Deduct</i>	-292.52	
			<i>For Class 54 Rating, Add</i>	413.53	
			<i>For Class 55 Rating, Add</i>	622.29	
			<i>For Class 56 Rating, Add</i>	828.39	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,048.83	808.24
			<i>For Class 52 Rating, Deduct</i>	-310.67	
			<i>For Class 54 Rating, Add</i>	438.33	
			<i>For Class 55 Rating, Add</i>	659.19	
			<i>For Class 56 Rating, Add</i>	877.23	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,219.20	811.85
			<i>For Class 52 Rating, Deduct</i>	-328.81	
			<i>For Class 54 Rating, Add</i>	463.13	
			<i>For Class 55 Rating, Add</i>	696.10	
			<i>For Class 56 Rating, Add</i>	926.08	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,389.57	815.44
			<i>For Class 52 Rating, Deduct</i>	-346.95	
			<i>For Class 54 Rating, Add</i>	487.94	
			<i>For Class 55 Rating, Add</i>	733.01	
			<i>For Class 56 Rating, Add</i>	974.93	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,559.96	819.04
			<i>For Class 52 Rating, Deduct</i>	-365.09	
			<i>For Class 54 Rating, Add</i>	512.74	
			<i>For Class 55 Rating, Add</i>	769.92	
			<i>For Class 56 Rating, Add</i>	1,023.77	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,730.33	822.65
			<i>For Class 52 Rating, Deduct</i>	-383.23	
			<i>For Class 54 Rating, Add</i>	537.54	
			<i>For Class 55 Rating, Add</i>	806.82	
			<i>For Class 56 Rating, Add</i>	1,072.62	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,900.71	826.25
			<i>For Class 52 Rating, Deduct</i>	-401.37	
			<i>For Class 54 Rating, Add</i>	562.35	
			<i>For Class 55 Rating, Add</i>	843.73	
			<i>For Class 56 Rating, Add</i>	1,121.47	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,071.09	829.85
			<i>For Class 52 Rating, Deduct</i>	-419.51	
			<i>For Class 54 Rating, Add</i>	587.15	
			<i>For Class 55 Rating, Add</i>	880.64	
			<i>For Class 56 Rating, Add</i>	1,170.32	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,241.46	833.46
			<i>For Class 52 Rating, Deduct</i>	-437.65	
			<i>For Class 54 Rating, Add</i>	611.95	
			<i>For Class 55 Rating, Add</i>	917.55	
			<i>For Class 56 Rating, Add</i>	1,219.17	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,411.83	837.05
			<i>For Class 52 Rating, Deduct</i>	-455.79	
			<i>For Class 54 Rating, Add</i>	636.75	
			<i>For Class 55 Rating, Add</i>	954.45	
			<i>For Class 56 Rating, Add</i>	1,268.01	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,582.21	840.66
			<i>For Class 52 Rating, Deduct</i>	-473.93	
			<i>For Class 54 Rating, Add</i>	661.56	
			<i>For Class 55 Rating, Add</i>	991.36	
			<i>For Class 56 Rating, Add</i>	1,316.86	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,752.58	844.26
			<i>For Class 52 Rating, Deduct</i>	-492.08	
			<i>For Class 54 Rating, Add</i>	686.36	
			<i>For Class 55 Rating, Add</i>	1,028.27	
			<i>For Class 56 Rating, Add</i>	1,365.71	
40 05 19 00-0853	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,922.96	847.86
			<i>For Class 52 Rating, Deduct</i>	-510.22	
			<i>For Class 54 Rating, Add</i>	711.17	
			<i>For Class 55 Rating, Add</i>	1,065.18	
			<i>For Class 56 Rating, Add</i>	1,414.55	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,093.34	851.47
<i>For Class 52 Rating, Deduct</i>	-528.36	
<i>For Class 54 Rating, Add</i>	735.97	
<i>For Class 55 Rating, Add</i>	1,102.09	
<i>For Class 56 Rating, Add</i>	1,463.40	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,263.72	855.06
<i>For Class 52 Rating, Deduct</i>	-546.50	
<i>For Class 54 Rating, Add</i>	760.77	
<i>For Class 55 Rating, Add</i>	1,139.00	
<i>For Class 56 Rating, Add</i>	1,512.25	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,434.09	858.66
<i>For Class 52 Rating, Deduct</i>	-564.64	
<i>For Class 54 Rating, Add</i>	785.58	
<i>For Class 55 Rating, Add</i>	1,175.90	
<i>For Class 56 Rating, Add</i>	1,561.10	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,604.46	862.27
<i>For Class 52 Rating, Deduct</i>	-582.78	
<i>For Class 54 Rating, Add</i>	810.38	
<i>For Class 55 Rating, Add</i>	1,212.81	
<i>For Class 56 Rating, Add</i>	1,609.94	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,774.84	865.87
<i>For Class 52 Rating, Deduct</i>	-600.92	
<i>For Class 54 Rating, Add</i>	835.18	
<i>For Class 55 Rating, Add</i>	1,249.72	
<i>For Class 56 Rating, Add</i>	1,658.79	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,945.21	869.47
<i>For Class 52 Rating, Deduct</i>	-619.06	
<i>For Class 54 Rating, Add</i>	859.98	
<i>For Class 55 Rating, Add</i>	1,286.63	
<i>For Class 56 Rating, Add</i>	1,707.64	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,115.59	873.07
<i>For Class 52 Rating, Deduct</i>	-637.20	
<i>For Class 54 Rating, Add</i>	884.79	
<i>For Class 55 Rating, Add</i>	1,323.53	
<i>For Class 56 Rating, Add</i>	1,756.49	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,285.97	876.67
<i>For Class 52 Rating, Deduct</i>	-655.34	
<i>For Class 54 Rating, Add</i>	909.59	
<i>For Class 55 Rating, Add</i>	1,360.44	
<i>For Class 56 Rating, Add</i>	1,805.33	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,456.34	880.28
<i>For Class 52 Rating, Deduct</i>	-673.49	
<i>For Class 54 Rating, Add</i>	934.39	
<i>For Class 55 Rating, Add</i>	1,397.35	
<i>For Class 56 Rating, Add</i>	1,854.18	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,626.71	883.88
<i>For Class 52 Rating, Deduct</i>	-691.63	
<i>For Class 54 Rating, Add</i>	959.20	
<i>For Class 55 Rating, Add</i>	1,434.26	
<i>For Class 56 Rating, Add</i>	1,903.03	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,797.09	887.48
<i>For Class 52 Rating, Deduct</i>	-709.77	
<i>For Class 54 Rating, Add</i>	984.00	
<i>For Class 55 Rating, Add</i>	1,471.16	
<i>For Class 56 Rating, Add</i>	1,951.87	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,967.46	891.09
<i>For Class 52 Rating, Deduct</i>	-727.91	
<i>For Class 54 Rating, Add</i>	1,008.80	
<i>For Class 55 Rating, Add</i>	1,508.07	
<i>For Class 56 Rating, Add</i>	2,000.72	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,137.84	894.68
<i>For Class 52 Rating, Deduct</i>	-746.05	
<i>For Class 54 Rating, Add</i>	1,033.61	
<i>For Class 55 Rating, Add</i>	1,544.98	
<i>For Class 56 Rating, Add</i>	2,049.57	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,308.22	898.28
<i>For Class 52 Rating, Deduct</i>	-764.19	
<i>For Class 54 Rating, Add</i>	1,058.41	
<i>For Class 55 Rating, Add</i>	1,581.89	
<i>For Class 56 Rating, Add</i>	2,098.42	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0868	EA		18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,478.59	901.89
			<i>For Class 52 Rating, Deduct</i>	-782.33	
			<i>For Class 54 Rating, Add</i>	1,083.21	
			<i>For Class 55 Rating, Add</i>	1,618.80	
			<i>For Class 56 Rating, Add</i>	2,147.27	
40 05 19 00-0869	EA		18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,648.96	905.49
			<i>For Class 52 Rating, Deduct</i>	-800.47	
			<i>For Class 54 Rating, Add</i>	1,108.02	
			<i>For Class 55 Rating, Add</i>	1,655.70	
			<i>For Class 56 Rating, Add</i>	2,196.11	
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,819.34	909.09
			<i>For Class 52 Rating, Deduct</i>	-818.61	
			<i>For Class 54 Rating, Add</i>	1,132.82	
			<i>For Class 55 Rating, Add</i>	1,692.61	
			<i>For Class 56 Rating, Add</i>	2,244.96	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,989.72	912.69
			<i>For Class 52 Rating, Deduct</i>	-836.75	
			<i>For Class 54 Rating, Add</i>	1,157.62	
			<i>For Class 55 Rating, Add</i>	1,729.52	
			<i>For Class 56 Rating, Add</i>	2,293.81	
40 05 19 00-0872			20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,105.70	889.64
			<i>For Class 52 Rating, Deduct</i>	-193.35	
			<i>For Class 54 Rating, Add</i>	279.84	
			<i>For Class 55 Rating, Add</i>	424.33	
			<i>For Class 56 Rating, Add</i>	567.07	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,300.80	893.24
			<i>For Class 52 Rating, Deduct</i>	-214.22	
			<i>For Class 54 Rating, Add</i>	308.35	
			<i>For Class 55 Rating, Add</i>	466.75	
			<i>For Class 56 Rating, Add</i>	623.21	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,495.92	896.84
			<i>For Class 52 Rating, Deduct</i>	-235.08	
			<i>For Class 54 Rating, Add</i>	336.87	
			<i>For Class 55 Rating, Add</i>	509.18	
			<i>For Class 56 Rating, Add</i>	679.35	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,691.03	900.44
			<i>For Class 52 Rating, Deduct</i>	-255.94	
			<i>For Class 54 Rating, Add</i>	365.38	
			<i>For Class 55 Rating, Add</i>	551.60	
			<i>For Class 56 Rating, Add</i>	735.50	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,886.14	904.04
			<i>For Class 52 Rating, Deduct</i>	-276.80	
			<i>For Class 54 Rating, Add</i>	393.89	
			<i>For Class 55 Rating, Add</i>	594.03	
			<i>For Class 56 Rating, Add</i>	791.64	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,081.26	907.64
			<i>For Class 52 Rating, Deduct</i>	-297.66	
			<i>For Class 54 Rating, Add</i>	422.41	
			<i>For Class 55 Rating, Add</i>	636.45	
			<i>For Class 56 Rating, Add</i>	847.79	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,276.37	911.25
			<i>For Class 52 Rating, Deduct</i>	-318.53	
			<i>For Class 54 Rating, Add</i>	450.92	
			<i>For Class 55 Rating, Add</i>	678.88	
			<i>For Class 56 Rating, Add</i>	903.93	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,471.49	914.85
			<i>For Class 52 Rating, Deduct</i>	-339.39	
			<i>For Class 54 Rating, Add</i>	479.44	
			<i>For Class 55 Rating, Add</i>	721.30	
			<i>For Class 56 Rating, Add</i>	960.08	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,666.59	918.45
			<i>For Class 52 Rating, Deduct</i>	-360.25	
			<i>For Class 54 Rating, Add</i>	507.95	
			<i>For Class 55 Rating, Add</i>	763.72	
			<i>For Class 56 Rating, Add</i>	1,016.22	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,861.71	922.05
For Class 52 Rating, Deduct	-381.11	
For Class 54 Rating, Add	536.46	
For Class 55 Rating, Add	806.15	
For Class 56 Rating, Add	1,072.37	
40 05 19 00-0883 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,056.83	925.65
For Class 52 Rating, Deduct	-401.98	
For Class 54 Rating, Add	564.98	
For Class 55 Rating, Add	848.57	
For Class 56 Rating, Add	1,128.51	
40 05 19 00-0884 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,251.93	929.26
For Class 52 Rating, Deduct	-422.84	
For Class 54 Rating, Add	593.49	
For Class 55 Rating, Add	891.00	
For Class 56 Rating, Add	1,184.66	
40 05 19 00-0885 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,447.05	932.86
For Class 52 Rating, Deduct	-443.70	
For Class 54 Rating, Add	622.01	
For Class 55 Rating, Add	933.42	
For Class 56 Rating, Add	1,240.80	
40 05 19 00-0886 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,642.17	936.46
For Class 52 Rating, Deduct	-464.56	
For Class 54 Rating, Add	650.52	
For Class 55 Rating, Add	975.85	
For Class 56 Rating, Add	1,296.95	
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,837.27	940.06
For Class 52 Rating, Deduct	-485.42	
For Class 54 Rating, Add	679.03	
For Class 55 Rating, Add	1,018.27	
For Class 56 Rating, Add	1,353.09	
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,032.39	943.66
For Class 52 Rating, Deduct	-506.29	
For Class 54 Rating, Add	707.55	
For Class 55 Rating, Add	1,060.69	
For Class 56 Rating, Add	1,409.24	
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,227.50	947.26
For Class 52 Rating, Deduct	-527.15	
For Class 54 Rating, Add	736.06	
For Class 55 Rating, Add	1,103.12	
For Class 56 Rating, Add	1,465.38	
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,422.61	950.87
For Class 52 Rating, Deduct	-548.01	
For Class 54 Rating, Add	764.57	
For Class 55 Rating, Add	1,145.54	
For Class 56 Rating, Add	1,521.53	
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,617.73	954.47
For Class 52 Rating, Deduct	-568.87	
For Class 54 Rating, Add	793.09	
For Class 55 Rating, Add	1,187.97	
For Class 56 Rating, Add	1,577.67	
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,812.84	958.07
For Class 52 Rating, Deduct	-589.73	
For Class 54 Rating, Add	821.60	
For Class 55 Rating, Add	1,230.39	
For Class 56 Rating, Add	1,633.82	
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,007.95	961.67
For Class 52 Rating, Deduct	-610.60	
For Class 54 Rating, Add	850.12	
For Class 55 Rating, Add	1,272.82	
For Class 56 Rating, Add	1,689.96	
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,203.06	965.27
For Class 52 Rating, Deduct	-631.46	
For Class 54 Rating, Add	878.63	
For Class 55 Rating, Add	1,315.24	
For Class 56 Rating, Add	1,746.11	
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,398.18	968.88
For Class 52 Rating, Deduct	-652.32	
For Class 54 Rating, Add	907.14	
For Class 55 Rating, Add	1,357.66	
For Class 56 Rating, Add	1,802.25	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,593.30	972.48
			<i>For Class 52 Rating, Deduct</i>	-673.18	
			<i>For Class 54 Rating, Add</i>	935.66	
			<i>For Class 55 Rating, Add</i>	1,400.09	
			<i>For Class 56 Rating, Add</i>	1,858.40	
40 05 19 00-0897	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,788.40	976.07
			<i>For Class 52 Rating, Deduct</i>	-694.05	
			<i>For Class 54 Rating, Add</i>	964.17	
			<i>For Class 55 Rating, Add</i>	1,442.51	
			<i>For Class 56 Rating, Add</i>	1,914.54	
40 05 19 00-0898	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,983.52	979.68
			<i>For Class 52 Rating, Deduct</i>	-714.91	
			<i>For Class 54 Rating, Add</i>	992.69	
			<i>For Class 55 Rating, Add</i>	1,484.94	
			<i>For Class 56 Rating, Add</i>	1,970.69	
40 05 19 00-0899	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,178.64	983.28
			<i>For Class 52 Rating, Deduct</i>	-735.77	
			<i>For Class 54 Rating, Add</i>	1,021.20	
			<i>For Class 55 Rating, Add</i>	1,527.36	
			<i>For Class 56 Rating, Add</i>	2,026.84	
40 05 19 00-0900	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,373.75	986.88
			<i>For Class 52 Rating, Deduct</i>	-756.63	
			<i>For Class 54 Rating, Add</i>	1,049.71	
			<i>For Class 55 Rating, Add</i>	1,569.79	
			<i>For Class 56 Rating, Add</i>	2,082.98	
40 05 19 00-0901	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,568.87	990.49
			<i>For Class 52 Rating, Deduct</i>	-777.49	
			<i>For Class 54 Rating, Add</i>	1,078.23	
			<i>For Class 55 Rating, Add</i>	1,612.21	
			<i>For Class 56 Rating, Add</i>	2,139.12	
40 05 19 00-0902	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,763.98	994.09
			<i>For Class 52 Rating, Deduct</i>	-798.36	
			<i>For Class 54 Rating, Add</i>	1,106.74	
			<i>For Class 55 Rating, Add</i>	1,654.63	
			<i>For Class 56 Rating, Add</i>	2,195.27	
40 05 19 00-0903	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,959.09	997.69
			<i>For Class 52 Rating, Deduct</i>	-819.22	
			<i>For Class 54 Rating, Add</i>	1,135.26	
			<i>For Class 55 Rating, Add</i>	1,697.06	
			<i>For Class 56 Rating, Add</i>	2,251.41	
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,154.21	1,001.29
			<i>For Class 52 Rating, Deduct</i>	-840.08	
			<i>For Class 54 Rating, Add</i>	1,163.77	
			<i>For Class 55 Rating, Add</i>	1,739.48	
			<i>For Class 56 Rating, Add</i>	2,307.56	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,349.32	1,004.89
			<i>For Class 52 Rating, Deduct</i>	-860.94	
			<i>For Class 54 Rating, Add</i>	1,192.28	
			<i>For Class 55 Rating, Add</i>	1,781.91	
			<i>For Class 56 Rating, Add</i>	2,363.70	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,544.43	1,008.50
			<i>For Class 52 Rating, Deduct</i>	-881.81	
			<i>For Class 54 Rating, Add</i>	1,220.80	
			<i>For Class 55 Rating, Add</i>	1,824.33	
			<i>For Class 56 Rating, Add</i>	2,419.85	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,739.54	1,012.10
			<i>For Class 52 Rating, Deduct</i>	-902.67	
			<i>For Class 54 Rating, Add</i>	1,249.31	
			<i>For Class 55 Rating, Add</i>	1,866.75	
			<i>For Class 56 Rating, Add</i>	2,475.99	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,934.66	1,015.69
			<i>For Class 52 Rating, Deduct</i>	-923.53	
			<i>For Class 54 Rating, Add</i>	1,277.83	
			<i>For Class 55 Rating, Add</i>	1,909.18	
			<i>For Class 56 Rating, Add</i>	2,532.14	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,129.77	1,019.30
			<i>For Class 52 Rating, Deduct</i>	-944.39	
			<i>For Class 54 Rating, Add</i>	1,306.34	
			<i>For Class 55 Rating, Add</i>	1,951.61	
			<i>For Class 56 Rating, Add</i>	2,588.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,324.88	1,022.90
For Class 52 Rating, Deduct	-965.25	
For Class 54 Rating, Add	1,334.85	
For Class 55 Rating, Add	1,994.03	
For Class 56 Rating, Add	2,644.43	
40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0912 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,814.41	1,051.72
For Class 52 Rating, Deduct	-244.30	
For Class 54 Rating, Add	352.26	
For Class 55 Rating, Add	533.50	
For Class 56 Rating, Add	712.53	
40 05 19 00-0913 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,054.87	1,055.31
For Class 52 Rating, Deduct	-270.15	
For Class 54 Rating, Add	387.57	
For Class 55 Rating, Add	586.04	
For Class 56 Rating, Add	782.06	
40 05 19 00-0914 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,295.34	1,058.92
For Class 52 Rating, Deduct	-296.00	
For Class 54 Rating, Add	422.89	
For Class 55 Rating, Add	638.58	
For Class 56 Rating, Add	851.58	
40 05 19 00-0915 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,535.81	1,062.52
For Class 52 Rating, Deduct	-321.85	
For Class 54 Rating, Add	458.21	
For Class 55 Rating, Add	691.12	
For Class 56 Rating, Add	921.11	
40 05 19 00-0916 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,776.27	1,066.12
For Class 52 Rating, Deduct	-347.70	
For Class 54 Rating, Add	493.52	
For Class 55 Rating, Add	743.66	
For Class 56 Rating, Add	990.63	
40 05 19 00-0917 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,016.73	1,069.73
For Class 52 Rating, Deduct	-373.55	
For Class 54 Rating, Add	528.84	
For Class 55 Rating, Add	796.19	
For Class 56 Rating, Add	1,060.15	
40 05 19 00-0918 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,257.20	1,073.32
For Class 52 Rating, Deduct	-399.40	
For Class 54 Rating, Add	564.16	
For Class 55 Rating, Add	848.73	
For Class 56 Rating, Add	1,129.68	
40 05 19 00-0919 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,497.66	1,076.93
For Class 52 Rating, Deduct	-425.26	
For Class 54 Rating, Add	599.47	
For Class 55 Rating, Add	901.27	
For Class 56 Rating, Add	1,199.20	
40 05 19 00-0920 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,738.13	1,080.53
For Class 52 Rating, Deduct	-451.11	
For Class 54 Rating, Add	634.79	
For Class 55 Rating, Add	953.81	
For Class 56 Rating, Add	1,268.72	
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,978.60	1,084.13
For Class 52 Rating, Deduct	-476.96	
For Class 54 Rating, Add	670.11	
For Class 55 Rating, Add	1,006.35	
For Class 56 Rating, Add	1,338.25	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,219.07	1,087.74
For Class 52 Rating, Deduct	-502.81	
For Class 54 Rating, Add	705.43	
For Class 55 Rating, Add	1,058.88	
For Class 56 Rating, Add	1,407.77	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,459.54	1,091.34
For Class 52 Rating, Deduct	-528.66	
For Class 54 Rating, Add	740.74	
For Class 55 Rating, Add	1,111.42	
For Class 56 Rating, Add	1,477.30	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,700.01	1,094.93
			<i>For Class 52 Rating, Deduct</i>	-554.51	
			<i>For Class 54 Rating, Add</i>	776.06	
			<i>For Class 55 Rating, Add</i>	1,163.96	
			<i>For Class 56 Rating, Add</i>	1,546.82	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,940.47	1,098.54
			<i>For Class 52 Rating, Deduct</i>	-580.36	
			<i>For Class 54 Rating, Add</i>	811.38	
			<i>For Class 55 Rating, Add</i>	1,216.50	
			<i>For Class 56 Rating, Add</i>	1,616.34	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,180.93	1,102.14
			<i>For Class 52 Rating, Deduct</i>	-606.21	
			<i>For Class 54 Rating, Add</i>	846.69	
			<i>For Class 55 Rating, Add</i>	1,269.04	
			<i>For Class 56 Rating, Add</i>	1,685.87	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,421.40	1,105.74
			<i>For Class 52 Rating, Deduct</i>	-632.06	
			<i>For Class 54 Rating, Add</i>	882.01	
			<i>For Class 55 Rating, Add</i>	1,321.57	
			<i>For Class 56 Rating, Add</i>	1,755.39	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,661.87	1,109.35
			<i>For Class 52 Rating, Deduct</i>	-657.91	
			<i>For Class 54 Rating, Add</i>	917.33	
			<i>For Class 55 Rating, Add</i>	1,374.11	
			<i>For Class 56 Rating, Add</i>	1,824.92	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,902.33	1,112.94
			<i>For Class 52 Rating, Deduct</i>	-683.77	
			<i>For Class 54 Rating, Add</i>	952.64	
			<i>For Class 55 Rating, Add</i>	1,426.65	
			<i>For Class 56 Rating, Add</i>	1,894.44	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,142.80	1,116.55
			<i>For Class 52 Rating, Deduct</i>	-709.62	
			<i>For Class 54 Rating, Add</i>	987.96	
			<i>For Class 55 Rating, Add</i>	1,479.19	
			<i>For Class 56 Rating, Add</i>	1,963.97	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,383.27	1,120.15
			<i>For Class 52 Rating, Deduct</i>	-735.47	
			<i>For Class 54 Rating, Add</i>	1,023.28	
			<i>For Class 55 Rating, Add</i>	1,531.73	
			<i>For Class 56 Rating, Add</i>	2,033.49	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,623.73	1,123.75
			<i>For Class 52 Rating, Deduct</i>	-761.32	
			<i>For Class 54 Rating, Add</i>	1,058.59	
			<i>For Class 55 Rating, Add</i>	1,584.26	
			<i>For Class 56 Rating, Add</i>	2,103.01	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,864.19	1,127.36
			<i>For Class 52 Rating, Deduct</i>	-787.17	
			<i>For Class 54 Rating, Add</i>	1,093.91	
			<i>For Class 55 Rating, Add</i>	1,636.80	
			<i>For Class 56 Rating, Add</i>	2,172.54	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,104.66	1,130.95
			<i>For Class 52 Rating, Deduct</i>	-813.02	
			<i>For Class 54 Rating, Add</i>	1,129.23	
			<i>For Class 55 Rating, Add</i>	1,689.34	
			<i>For Class 56 Rating, Add</i>	2,242.06	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,345.12	1,134.55
			<i>For Class 52 Rating, Deduct</i>	-838.87	
			<i>For Class 54 Rating, Add</i>	1,164.54	
			<i>For Class 55 Rating, Add</i>	1,741.88	
			<i>For Class 56 Rating, Add</i>	2,311.58	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,585.59	1,138.16
			<i>For Class 52 Rating, Deduct</i>	-864.72	
			<i>For Class 54 Rating, Add</i>	1,199.86	
			<i>For Class 55 Rating, Add</i>	1,794.42	
			<i>For Class 56 Rating, Add</i>	2,381.11	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,826.06	1,141.76
			<i>For Class 52 Rating, Deduct</i>	-890.57	
			<i>For Class 54 Rating, Add</i>	1,235.18	
			<i>For Class 55 Rating, Add</i>	1,846.95	
			<i>For Class 56 Rating, Add</i>	2,450.63	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,066.53	1,145.36
<i>For Class 52 Rating, Deduct</i>	-916.42	
<i>For Class 54 Rating, Add</i>	1,270.49	
<i>For Class 55 Rating, Add</i>	1,899.49	
<i>For Class 56 Rating, Add</i>	2,520.16	
40 05 19 00-0939 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,306.99	1,148.97
<i>For Class 52 Rating, Deduct</i>	-942.28	
<i>For Class 54 Rating, Add</i>	1,305.81	
<i>For Class 55 Rating, Add</i>	1,952.03	
<i>For Class 56 Rating, Add</i>	2,589.68	
40 05 19 00-0940 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,547.46	1,152.56
<i>For Class 52 Rating, Deduct</i>	-968.13	
<i>For Class 54 Rating, Add</i>	1,341.13	
<i>For Class 55 Rating, Add</i>	2,004.57	
<i>For Class 56 Rating, Add</i>	2,659.21	
40 05 19 00-0941 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,880.69	1,217.40
<i>For Class 52 Rating, Deduct</i>	-993.98	
<i>For Class 54 Rating, Add</i>	1,377.56	
<i>For Class 55 Rating, Add</i>	2,059.33	
<i>For Class 56 Rating, Add</i>	2,732.07	
40 05 19 00-0942 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,121.16	1,221.00
<i>For Class 52 Rating, Deduct</i>	-1,019.83	
<i>For Class 54 Rating, Add</i>	1,412.87	
<i>For Class 55 Rating, Add</i>	2,111.87	
<i>For Class 56 Rating, Add</i>	2,801.59	
40 05 19 00-0943 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,361.63	1,224.60
<i>For Class 52 Rating, Deduct</i>	-1,045.68	
<i>For Class 54 Rating, Add</i>	1,448.19	
<i>For Class 55 Rating, Add</i>	2,164.41	
<i>For Class 56 Rating, Add</i>	2,871.12	
40 05 19 00-0944 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,602.09	1,228.20
<i>For Class 52 Rating, Deduct</i>	-1,071.53	
<i>For Class 54 Rating, Add</i>	1,483.51	
<i>For Class 55 Rating, Add</i>	2,216.94	
<i>For Class 56 Rating, Add</i>	2,940.64	
40 05 19 00-0945 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,842.56	1,231.80
<i>For Class 52 Rating, Deduct</i>	-1,097.38	
<i>For Class 54 Rating, Add</i>	1,518.82	
<i>For Class 55 Rating, Add</i>	2,269.48	
<i>For Class 56 Rating, Add</i>	3,010.17	
40 05 19 00-0946 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,083.03	1,235.40
<i>For Class 52 Rating, Deduct</i>	-1,123.23	
<i>For Class 54 Rating, Add</i>	1,554.14	
<i>For Class 55 Rating, Add</i>	2,322.02	
<i>For Class 56 Rating, Add</i>	3,079.69	
40 05 19 00-0947 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,323.49	1,239.01
<i>For Class 52 Rating, Deduct</i>	-1,149.08	
<i>For Class 54 Rating, Add</i>	1,589.46	
<i>For Class 55 Rating, Add</i>	2,374.56	
<i>For Class 56 Rating, Add</i>	3,149.21	
40 05 19 00-0948 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,563.96	1,242.61
<i>For Class 52 Rating, Deduct</i>	-1,174.93	
<i>For Class 54 Rating, Add</i>	1,624.78	
<i>For Class 55 Rating, Add</i>	2,427.10	
<i>For Class 56 Rating, Add</i>	3,218.74	
40 05 19 00-0949 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,804.42	1,246.21
<i>For Class 52 Rating, Deduct</i>	-1,200.78	
<i>For Class 54 Rating, Add</i>	1,660.09	
<i>For Class 55 Rating, Add</i>	2,479.63	
<i>For Class 56 Rating, Add</i>	3,288.26	
 40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0951 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,794.12	1,483.93
<i>For Class 52 Rating, Deduct</i>	-390.03	
<i>For Class 54 Rating, Add</i>	558.84	
<i>For Class 55 Rating, Add</i>	844.66	
<i>For Class 56 Rating, Add</i>	1,126.94	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,139.03	1,487.53
			<i>For Class 52 Rating, Deduct</i>	-427.37	
			<i>For Class 54 Rating, Add</i>	609.83	
			<i>For Class 55 Rating, Add</i>	920.49	
			<i>For Class 56 Rating, Add</i>	1,227.27	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,483.94	1,491.13
			<i>For Class 52 Rating, Deduct</i>	-464.71	
			<i>For Class 54 Rating, Add</i>	660.81	
			<i>For Class 55 Rating, Add</i>	996.32	
			<i>For Class 56 Rating, Add</i>	1,327.61	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,828.86	1,494.74
			<i>For Class 52 Rating, Deduct</i>	-502.05	
			<i>For Class 54 Rating, Add</i>	711.79	
			<i>For Class 55 Rating, Add</i>	1,072.15	
			<i>For Class 56 Rating, Add</i>	1,427.95	
40 05 19 00-0955	EA		30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,173.77	1,498.33
			<i>For Class 52 Rating, Deduct</i>	-539.39	
			<i>For Class 54 Rating, Add</i>	762.78	
			<i>For Class 55 Rating, Add</i>	1,147.98	
			<i>For Class 56 Rating, Add</i>	1,528.28	
40 05 19 00-0956	EA		30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,518.70	1,501.93
			<i>For Class 52 Rating, Deduct</i>	-576.73	
			<i>For Class 54 Rating, Add</i>	813.76	
			<i>For Class 55 Rating, Add</i>	1,223.81	
			<i>For Class 56 Rating, Add</i>	1,628.62	
40 05 19 00-0957	EA		30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,863.61	1,505.54
			<i>For Class 52 Rating, Deduct</i>	-614.07	
			<i>For Class 54 Rating, Add</i>	864.75	
			<i>For Class 55 Rating, Add</i>	1,299.64	
			<i>For Class 56 Rating, Add</i>	1,728.95	
40 05 19 00-0958	EA		30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,208.52	1,509.14
			<i>For Class 52 Rating, Deduct</i>	-651.41	
			<i>For Class 54 Rating, Add</i>	915.73	
			<i>For Class 55 Rating, Add</i>	1,375.47	
			<i>For Class 56 Rating, Add</i>	1,829.29	
40 05 19 00-0959	EA		30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,553.44	1,512.74
			<i>For Class 52 Rating, Deduct</i>	-688.75	
			<i>For Class 54 Rating, Add</i>	966.71	
			<i>For Class 55 Rating, Add</i>	1,451.30	
			<i>For Class 56 Rating, Add</i>	1,929.63	
40 05 19 00-0960	EA		30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,898.35	1,516.35
			<i>For Class 52 Rating, Deduct</i>	-726.09	
			<i>For Class 54 Rating, Add</i>	1,017.70	
			<i>For Class 55 Rating, Add</i>	1,527.13	
			<i>For Class 56 Rating, Add</i>	2,029.96	
40 05 19 00-0961	EA		30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,243.27	1,519.94
			<i>For Class 52 Rating, Deduct</i>	-763.44	
			<i>For Class 54 Rating, Add</i>	1,068.68	
			<i>For Class 55 Rating, Add</i>	1,602.96	
			<i>For Class 56 Rating, Add</i>	2,130.30	
40 05 19 00-0962	EA		30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,588.18	1,523.55
			<i>For Class 52 Rating, Deduct</i>	-800.77	
			<i>For Class 54 Rating, Add</i>	1,119.67	
			<i>For Class 55 Rating, Add</i>	1,678.79	
			<i>For Class 56 Rating, Add</i>	2,230.63	
40 05 19 00-0963	EA		30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,933.09	1,527.15
			<i>For Class 52 Rating, Deduct</i>	-838.12	
			<i>For Class 54 Rating, Add</i>	1,170.65	
			<i>For Class 55 Rating, Add</i>	1,754.62	
			<i>For Class 56 Rating, Add</i>	2,330.97	
40 05 19 00-0964	EA		30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,278.01	1,530.75
			<i>For Class 52 Rating, Deduct</i>	-875.46	
			<i>For Class 54 Rating, Add</i>	1,221.64	
			<i>For Class 55 Rating, Add</i>	1,830.45	
			<i>For Class 56 Rating, Add</i>	2,431.31	
40 05 19 00-0965	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,622.92	1,534.36
			<i>For Class 52 Rating, Deduct</i>	-912.80	
			<i>For Class 54 Rating, Add</i>	1,272.62	
			<i>For Class 55 Rating, Add</i>	1,906.28	
			<i>For Class 56 Rating, Add</i>	2,531.64	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,967.83	1,537.95
For Class 52 Rating, Deduct	-950.14	
For Class 54 Rating, Add	1,323.60	
For Class 55 Rating, Add	1,982.11	
For Class 56 Rating, Add	2,631.98	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,312.75	1,541.55
For Class 52 Rating, Deduct	-987.48	
For Class 54 Rating, Add	1,374.59	
For Class 55 Rating, Add	2,057.94	
For Class 56 Rating, Add	2,732.32	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,657.67	1,545.16
For Class 52 Rating, Deduct	-1,024.82	
For Class 54 Rating, Add	1,425.57	
For Class 55 Rating, Add	2,133.77	
For Class 56 Rating, Add	2,832.65	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,002.57	1,548.76
For Class 52 Rating, Deduct	-1,062.16	
For Class 54 Rating, Add	1,476.55	
For Class 55 Rating, Add	2,209.60	
For Class 56 Rating, Add	2,932.99	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,347.49	1,552.36
For Class 52 Rating, Deduct	-1,099.50	
For Class 54 Rating, Add	1,527.54	
For Class 55 Rating, Add	2,285.43	
For Class 56 Rating, Add	3,033.33	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,692.41	1,555.96
For Class 52 Rating, Deduct	-1,136.84	
For Class 54 Rating, Add	1,578.52	
For Class 55 Rating, Add	2,361.26	
For Class 56 Rating, Add	3,133.66	
40 05 19 00-0972 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,037.32	1,559.56
For Class 52 Rating, Deduct	-1,174.18	
For Class 54 Rating, Add	1,629.51	
For Class 55 Rating, Add	2,437.09	
For Class 56 Rating, Add	3,234.00	
40 05 19 00-0973 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,382.23	1,563.17
For Class 52 Rating, Deduct	-1,211.52	
For Class 54 Rating, Add	1,680.49	
For Class 55 Rating, Add	2,512.92	
For Class 56 Rating, Add	3,334.33	
40 05 19 00-0974 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,727.15	1,566.77
For Class 52 Rating, Deduct	-1,248.86	
For Class 54 Rating, Add	1,731.48	
For Class 55 Rating, Add	2,588.75	
For Class 56 Rating, Add	3,434.67	
40 05 19 00-0975 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,072.06	1,570.37
For Class 52 Rating, Deduct	-1,286.20	
For Class 54 Rating, Add	1,782.46	
For Class 55 Rating, Add	2,664.58	
For Class 56 Rating, Add	3,535.01	
40 05 19 00-0976 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,416.97	1,573.98
For Class 52 Rating, Deduct	-1,323.54	
For Class 54 Rating, Add	1,833.44	
For Class 55 Rating, Add	2,740.41	
For Class 56 Rating, Add	3,635.34	
40 05 19 00-0977 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,761.89	1,577.57
For Class 52 Rating, Deduct	-1,360.88	
For Class 54 Rating, Add	1,884.43	
For Class 55 Rating, Add	2,816.24	
For Class 56 Rating, Add	3,735.68	
40 05 19 00-0978 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,106.81	1,581.17
For Class 52 Rating, Deduct	-1,398.22	
For Class 54 Rating, Add	1,935.41	
For Class 55 Rating, Add	2,892.07	
For Class 56 Rating, Add	3,836.02	
40 05 19 00-0979 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,451.71	1,584.78
For Class 52 Rating, Deduct	-1,435.56	
For Class 54 Rating, Add	1,986.40	
For Class 55 Rating, Add	2,967.90	
For Class 56 Rating, Add	3,936.35	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,796.63	1,588.38
			<i>For Class 52 Rating, Deduct</i>	-1,472.90	
			<i>For Class 54 Rating, Add</i>	2,037.38	
			<i>For Class 55 Rating, Add</i>	3,043.73	
			<i>For Class 56 Rating, Add</i>	4,036.69	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,141.55	1,591.98
			<i>For Class 52 Rating, Deduct</i>	-1,510.24	
			<i>For Class 54 Rating, Add</i>	2,088.36	
			<i>For Class 55 Rating, Add</i>	3,119.56	
			<i>For Class 56 Rating, Add</i>	4,137.03	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,486.45	1,595.58
			<i>For Class 52 Rating, Deduct</i>	-1,547.58	
			<i>For Class 54 Rating, Add</i>	2,139.35	
			<i>For Class 55 Rating, Add</i>	3,195.39	
			<i>For Class 56 Rating, Add</i>	4,237.36	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,831.37	1,599.18
			<i>For Class 52 Rating, Deduct</i>	-1,584.92	
			<i>For Class 54 Rating, Add</i>	2,190.33	
			<i>For Class 55 Rating, Add</i>	3,271.22	
			<i>For Class 56 Rating, Add</i>	4,337.70	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,176.29	1,602.79
			<i>For Class 52 Rating, Deduct</i>	-1,622.26	
			<i>For Class 54 Rating, Add</i>	2,241.32	
			<i>For Class 55 Rating, Add</i>	3,347.05	
			<i>For Class 56 Rating, Add</i>	4,438.03	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,521.20	1,606.39
			<i>For Class 52 Rating, Deduct</i>	-1,659.60	
			<i>For Class 54 Rating, Add</i>	2,292.30	
			<i>For Class 55 Rating, Add</i>	3,422.88	
			<i>For Class 56 Rating, Add</i>	4,538.37	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,866.12	1,609.99
			<i>For Class 52 Rating, Deduct</i>	-1,696.94	
			<i>For Class 54 Rating, Add</i>	2,343.28	
			<i>For Class 55 Rating, Add</i>	3,498.71	
			<i>For Class 56 Rating, Add</i>	4,638.71	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,211.04	1,613.59
			<i>For Class 52 Rating, Deduct</i>	-1,734.28	
			<i>For Class 54 Rating, Add</i>	2,394.27	
			<i>For Class 55 Rating, Add</i>	3,574.54	
			<i>For Class 56 Rating, Add</i>	4,739.04	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,555.96	1,617.19
			<i>For Class 52 Rating, Deduct</i>	-1,771.62	
			<i>For Class 54 Rating, Add</i>	2,445.25	
			<i>For Class 55 Rating, Add</i>	3,650.37	
			<i>For Class 56 Rating, Add</i>	4,839.38	
40 05 19 00-0989			36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,847.07	1,880.12
			<i>For Class 52 Rating, Deduct</i>	-549.82	
			<i>For Class 54 Rating, Add</i>	783.94	
			<i>For Class 55 Rating, Add</i>	1,183.01	
			<i>For Class 56 Rating, Add</i>	1,577.08	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,314.29	1,883.72
			<i>For Class 52 Rating, Deduct</i>	-600.62	
			<i>For Class 54 Rating, Add</i>	853.27	
			<i>For Class 55 Rating, Add</i>	1,286.12	
			<i>For Class 56 Rating, Add</i>	1,713.50	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,781.52	1,887.32
			<i>For Class 52 Rating, Deduct</i>	-651.41	
			<i>For Class 54 Rating, Add</i>	922.61	
			<i>For Class 55 Rating, Add</i>	1,389.22	
			<i>For Class 56 Rating, Add</i>	1,849.92	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,248.76	1,890.93
			<i>For Class 52 Rating, Deduct</i>	-702.21	
			<i>For Class 54 Rating, Add</i>	991.94	
			<i>For Class 55 Rating, Add</i>	1,492.33	
			<i>For Class 56 Rating, Add</i>	1,986.34	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,715.98	1,894.53
For Class 52 Rating, Deduct	-753.00	
For Class 54 Rating, Add	1,061.27	
For Class 55 Rating, Add	1,595.44	
For Class 56 Rating, Add	2,122.76	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,183.21	1,898.13
For Class 52 Rating, Deduct	-803.80	
For Class 54 Rating, Add	1,130.60	
For Class 55 Rating, Add	1,698.54	
For Class 56 Rating, Add	2,259.18	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,650.44	1,901.74
For Class 52 Rating, Deduct	-854.59	
For Class 54 Rating, Add	1,199.93	
For Class 55 Rating, Add	1,801.65	
For Class 56 Rating, Add	2,395.59	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,117.67	1,905.33
For Class 52 Rating, Deduct	-905.39	
For Class 54 Rating, Add	1,269.26	
For Class 55 Rating, Add	1,904.75	
For Class 56 Rating, Add	2,532.01	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,584.89	1,908.93
For Class 52 Rating, Deduct	-956.18	
For Class 54 Rating, Add	1,338.59	
For Class 55 Rating, Add	2,007.86	
For Class 56 Rating, Add	2,668.43	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,052.13	1,912.54
For Class 52 Rating, Deduct	-1,006.98	
For Class 54 Rating, Add	1,407.93	
For Class 55 Rating, Add	2,110.97	
For Class 56 Rating, Add	2,804.85	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,519.36	1,916.14
For Class 52 Rating, Deduct	-1,057.77	
For Class 54 Rating, Add	1,477.26	
For Class 55 Rating, Add	2,214.07	
For Class 56 Rating, Add	2,941.27	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,986.59	1,919.74
For Class 52 Rating, Deduct	-1,108.57	
For Class 54 Rating, Add	1,546.59	
For Class 55 Rating, Add	2,317.18	
For Class 56 Rating, Add	3,077.69	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,453.82	1,923.34
For Class 52 Rating, Deduct	-1,159.36	
For Class 54 Rating, Add	1,615.92	
For Class 55 Rating, Add	2,420.28	
For Class 56 Rating, Add	3,214.11	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,921.05	1,926.94
For Class 52 Rating, Deduct	-1,210.16	
For Class 54 Rating, Add	1,685.25	
For Class 55 Rating, Add	2,523.39	
For Class 56 Rating, Add	3,350.53	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,388.27	1,930.55
For Class 52 Rating, Deduct	-1,260.95	
For Class 54 Rating, Add	1,754.58	
For Class 55 Rating, Add	2,626.50	
For Class 56 Rating, Add	3,486.95	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,855.50	1,934.15
For Class 52 Rating, Deduct	-1,311.75	
For Class 54 Rating, Add	1,823.91	
For Class 55 Rating, Add	2,729.60	
For Class 56 Rating, Add	3,623.37	
40 05 19 00-1006 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,322.74	1,937.75
For Class 52 Rating, Deduct	-1,362.54	
For Class 54 Rating, Add	1,893.24	
For Class 55 Rating, Add	2,832.71	
For Class 56 Rating, Add	3,759.79	
40 05 19 00-1007 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,789.96	1,941.36
For Class 52 Rating, Deduct	-1,413.34	
For Class 54 Rating, Add	1,962.58	
For Class 55 Rating, Add	2,935.81	
For Class 56 Rating, Add	3,896.21	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,257.19	1,944.95
			<i>For Class 52 Rating, Deduct</i>	-1,464.13	
			<i>For Class 54 Rating, Add</i>	2,031.91	
			<i>For Class 55 Rating, Add</i>	3,038.92	
			<i>For Class 56 Rating, Add</i>	4,032.62	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,724.42	1,948.55
			<i>For Class 52 Rating, Deduct</i>	-1,514.93	
			<i>For Class 54 Rating, Add</i>	2,101.24	
			<i>For Class 55 Rating, Add</i>	3,142.03	
			<i>For Class 56 Rating, Add</i>	4,169.04	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,191.64	1,952.16
			<i>For Class 52 Rating, Deduct</i>	-1,565.72	
			<i>For Class 54 Rating, Add</i>	2,170.57	
			<i>For Class 55 Rating, Add</i>	3,245.13	
			<i>For Class 56 Rating, Add</i>	4,305.46	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,658.87	1,955.76
			<i>For Class 52 Rating, Deduct</i>	-1,616.52	
			<i>For Class 54 Rating, Add</i>	2,239.90	
			<i>For Class 55 Rating, Add</i>	3,348.24	
			<i>For Class 56 Rating, Add</i>	4,441.88	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,126.11	1,959.36
			<i>For Class 52 Rating, Deduct</i>	-1,667.31	
			<i>For Class 54 Rating, Add</i>	2,309.23	
			<i>For Class 55 Rating, Add</i>	3,451.35	
			<i>For Class 56 Rating, Add</i>	4,578.30	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,593.34	1,962.96
			<i>For Class 52 Rating, Deduct</i>	-1,718.11	
			<i>For Class 54 Rating, Add</i>	2,378.56	
			<i>For Class 55 Rating, Add</i>	3,554.45	
			<i>For Class 56 Rating, Add</i>	4,714.72	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,060.56	1,966.56
			<i>For Class 52 Rating, Deduct</i>	-1,768.90	
			<i>For Class 54 Rating, Add</i>	2,447.89	
			<i>For Class 55 Rating, Add</i>	3,657.56	
			<i>For Class 56 Rating, Add</i>	4,851.14	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,527.79	1,970.17
			<i>For Class 52 Rating, Deduct</i>	-1,819.70	
			<i>For Class 54 Rating, Add</i>	2,517.22	
			<i>For Class 55 Rating, Add</i>	3,760.66	
			<i>For Class 56 Rating, Add</i>	4,987.56	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,995.02	1,973.77
			<i>For Class 52 Rating, Deduct</i>	-1,870.49	
			<i>For Class 54 Rating, Add</i>	2,586.56	
			<i>For Class 55 Rating, Add</i>	3,863.77	
			<i>For Class 56 Rating, Add</i>	5,123.98	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,462.24	1,977.37
			<i>For Class 52 Rating, Deduct</i>	-1,921.29	
			<i>For Class 54 Rating, Add</i>	2,655.89	
			<i>For Class 55 Rating, Add</i>	3,966.87	
			<i>For Class 56 Rating, Add</i>	5,260.39	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,929.47	1,980.97
			<i>For Class 52 Rating, Deduct</i>	-1,972.08	
			<i>For Class 54 Rating, Add</i>	2,725.22	
			<i>For Class 55 Rating, Add</i>	4,069.98	
			<i>For Class 56 Rating, Add</i>	5,396.81	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,396.71	1,984.57
			<i>For Class 52 Rating, Deduct</i>	-2,022.88	
			<i>For Class 54 Rating, Add</i>	2,794.55	
			<i>For Class 55 Rating, Add</i>	4,173.09	
			<i>For Class 56 Rating, Add</i>	5,533.23	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,863.93	1,988.17
			<i>For Class 52 Rating, Deduct</i>	-2,073.67	
			<i>For Class 54 Rating, Add</i>	2,863.88	
			<i>For Class 55 Rating, Add</i>	4,276.19	
			<i>For Class 56 Rating, Add</i>	5,669.65	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,331.16	1,991.78
			<i>For Class 52 Rating, Deduct</i>	-2,124.47	
			<i>For Class 54 Rating, Add</i>	2,933.21	
			<i>For Class 55 Rating, Add</i>	4,379.30	
			<i>For Class 56 Rating, Add</i>	5,806.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022 EA 36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,798.39	1,995.38
For Class 52 Rating, Deduct	-2,175.26	
For Class 54 Rating, Add	3,002.54	
For Class 55 Rating, Add	4,482.40	
For Class 56 Rating, Add	5,942.49	
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,265.61	1,998.98
For Class 52 Rating, Deduct	-2,226.05	
For Class 54 Rating, Add	3,071.87	
For Class 55 Rating, Add	4,585.51	
For Class 56 Rating, Add	6,078.91	
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,732.84	2,002.58
For Class 52 Rating, Deduct	-2,276.85	
For Class 54 Rating, Add	3,141.21	
For Class 55 Rating, Add	4,688.62	
For Class 56 Rating, Add	6,215.33	
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,200.07	2,006.18
For Class 52 Rating, Deduct	-2,327.64	
For Class 54 Rating, Add	3,210.54	
For Class 55 Rating, Add	4,791.72	
For Class 56 Rating, Add	6,351.75	
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,667.30	2,009.79
For Class 52 Rating, Deduct	-2,378.44	
For Class 54 Rating, Add	3,279.87	
For Class 55 Rating, Add	4,894.83	
For Class 56 Rating, Add	6,488.17	
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,134.53	2,013.39
For Class 52 Rating, Deduct	-2,429.23	
For Class 54 Rating, Add	3,349.20	
For Class 55 Rating, Add	4,997.93	
For Class 56 Rating, Add	6,624.59	
40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	466.16	176.15
For Class 52 Rating, Deduct	-21.92	
For Class 54 Rating, Add	33.09	
For Class 55 Rating, Add	50.84	
For Class 56 Rating, Add	68.40	
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	506.56	179.22
For Class 52 Rating, Deduct	-25.85	
For Class 54 Rating, Add	38.51	
For Class 55 Rating, Add	58.92	
For Class 56 Rating, Add	79.10	
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	546.96	182.31
For Class 52 Rating, Deduct	-29.78	
For Class 54 Rating, Add	43.93	
For Class 55 Rating, Add	67.00	
For Class 56 Rating, Add	89.81	
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	587.35	185.38
For Class 52 Rating, Deduct	-33.71	
For Class 54 Rating, Add	49.34	
For Class 55 Rating, Add	75.08	
For Class 56 Rating, Add	100.52	
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	627.76	188.46
For Class 52 Rating, Deduct	-37.64	
For Class 54 Rating, Add	54.76	
For Class 55 Rating, Add	83.17	
For Class 56 Rating, Add	111.23	
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	668.16	191.55
For Class 52 Rating, Deduct	-41.57	
For Class 54 Rating, Add	60.17	
For Class 55 Rating, Add	91.25	
For Class 56 Rating, Add	121.94	
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	708.55	194.63
For Class 52 Rating, Deduct	-45.50	
For Class 54 Rating, Add	65.59	
For Class 55 Rating, Add	99.33	
For Class 56 Rating, Add	132.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1037	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	748.95	197.70
			<i>For Class 52 Rating, Deduct</i>	-49.43	
			<i>For Class 54 Rating, Add</i>	71.00	
			<i>For Class 55 Rating, Add</i>	107.41	
			<i>For Class 56 Rating, Add</i>	143.36	
40 05 19 00-1038	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	789.35	200.78
			<i>For Class 52 Rating, Deduct</i>	-53.37	
			<i>For Class 54 Rating, Add</i>	76.42	
			<i>For Class 55 Rating, Add</i>	115.49	
			<i>For Class 56 Rating, Add</i>	154.07	
40 05 19 00-1039	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	829.74	203.87
			<i>For Class 52 Rating, Deduct</i>	-57.30	
			<i>For Class 54 Rating, Add</i>	81.84	
			<i>For Class 55 Rating, Add</i>	123.57	
			<i>For Class 56 Rating, Add</i>	164.78	
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	870.14	206.93
			<i>For Class 52 Rating, Deduct</i>	-61.23	
			<i>For Class 54 Rating, Add</i>	87.25	
			<i>For Class 55 Rating, Add</i>	131.65	
			<i>For Class 56 Rating, Add</i>	175.48	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	910.54	210.02
			<i>For Class 52 Rating, Deduct</i>	-65.16	
			<i>For Class 54 Rating, Add</i>	92.67	
			<i>For Class 55 Rating, Add</i>	139.73	
			<i>For Class 56 Rating, Add</i>	186.19	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	950.93	213.11
			<i>For Class 52 Rating, Deduct</i>	-69.09	
			<i>For Class 54 Rating, Add</i>	98.08	
			<i>For Class 55 Rating, Add</i>	147.81	
			<i>For Class 56 Rating, Add</i>	196.90	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	991.34	216.19
			<i>For Class 52 Rating, Deduct</i>	-73.02	
			<i>For Class 54 Rating, Add</i>	103.50	
			<i>For Class 55 Rating, Add</i>	155.89	
			<i>For Class 56 Rating, Add</i>	207.61	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,031.74	219.26
			<i>For Class 52 Rating, Deduct</i>	-76.95	
			<i>For Class 54 Rating, Add</i>	108.92	
			<i>For Class 55 Rating, Add</i>	163.97	
			<i>For Class 56 Rating, Add</i>	218.32	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,072.13	222.34
			<i>For Class 52 Rating, Deduct</i>	-80.88	
			<i>For Class 54 Rating, Add</i>	114.33	
			<i>For Class 55 Rating, Add</i>	172.05	
			<i>For Class 56 Rating, Add</i>	229.03	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,112.53	225.43
			<i>For Class 52 Rating, Deduct</i>	-84.81	
			<i>For Class 54 Rating, Add</i>	119.75	
			<i>For Class 55 Rating, Add</i>	180.13	
			<i>For Class 56 Rating, Add</i>	239.74	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,152.94	228.49
			<i>For Class 52 Rating, Deduct</i>	-88.74	
			<i>For Class 54 Rating, Add</i>	125.16	
			<i>For Class 55 Rating, Add</i>	188.21	
			<i>For Class 56 Rating, Add</i>	250.45	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,193.33	231.58
			<i>For Class 52 Rating, Deduct</i>	-92.67	
			<i>For Class 54 Rating, Add</i>	130.58	
			<i>For Class 55 Rating, Add</i>	196.29	
			<i>For Class 56 Rating, Add</i>	261.16	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,233.73	234.66
			<i>For Class 52 Rating, Deduct</i>	-96.60	
			<i>For Class 54 Rating, Add</i>	135.99	
			<i>For Class 55 Rating, Add</i>	204.37	
			<i>For Class 56 Rating, Add</i>	271.87	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,274.13	237.74
			<i>For Class 52 Rating, Deduct</i>	-100.53	
			<i>For Class 54 Rating, Add</i>	141.41	
			<i>For Class 55 Rating, Add</i>	212.45	
			<i>For Class 56 Rating, Add</i>	282.57	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051 EA 4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,314.53	240.82
<i>For Class 52 Rating, Deduct</i>	-104.46	
<i>For Class 54 Rating, Add</i>	146.83	
<i>For Class 55 Rating, Add</i>	220.53	
<i>For Class 56 Rating, Add</i>	293.29	
40 05 19 00-1052 EA 4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,354.92	243.89
<i>For Class 52 Rating, Deduct</i>	-108.39	
<i>For Class 54 Rating, Add</i>	152.24	
<i>For Class 55 Rating, Add</i>	228.61	
<i>For Class 56 Rating, Add</i>	303.99	
40 05 19 00-1053 EA 4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,395.32	246.98
<i>For Class 52 Rating, Deduct</i>	-112.32	
<i>For Class 54 Rating, Add</i>	157.66	
<i>For Class 55 Rating, Add</i>	236.69	
<i>For Class 56 Rating, Add</i>	314.70	
40 05 19 00-1054 EA 4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,435.72	250.05
<i>For Class 52 Rating, Deduct</i>	-116.25	
<i>For Class 54 Rating, Add</i>	163.07	
<i>For Class 55 Rating, Add</i>	244.77	
<i>For Class 56 Rating, Add</i>	325.41	
40 05 19 00-1055 EA 4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,476.11	253.13
<i>For Class 52 Rating, Deduct</i>	-120.18	
<i>For Class 54 Rating, Add</i>	168.49	
<i>For Class 55 Rating, Add</i>	252.85	
<i>For Class 56 Rating, Add</i>	336.12	
40 05 19 00-1056 EA 4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,516.52	256.21
<i>For Class 52 Rating, Deduct</i>	-124.12	
<i>For Class 54 Rating, Add</i>	173.91	
<i>For Class 55 Rating, Add</i>	260.93	
<i>For Class 56 Rating, Add</i>	346.83	
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,556.92	259.30
<i>For Class 52 Rating, Deduct</i>	-128.05	
<i>For Class 54 Rating, Add</i>	179.32	
<i>For Class 55 Rating, Add</i>	269.01	
<i>For Class 56 Rating, Add</i>	357.54	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,597.31	262.36
<i>For Class 52 Rating, Deduct</i>	-131.98	
<i>For Class 54 Rating, Add</i>	184.74	
<i>For Class 55 Rating, Add</i>	277.09	
<i>For Class 56 Rating, Add</i>	368.25	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,637.71	265.45
<i>For Class 52 Rating, Deduct</i>	-135.91	
<i>For Class 54 Rating, Add</i>	190.15	
<i>For Class 55 Rating, Add</i>	285.17	
<i>For Class 56 Rating, Add</i>	378.95	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,678.12	268.54
<i>For Class 52 Rating, Deduct</i>	-139.84	
<i>For Class 54 Rating, Add</i>	195.57	
<i>For Class 55 Rating, Add</i>	293.25	
<i>For Class 56 Rating, Add</i>	389.67	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,718.51	271.62
<i>For Class 52 Rating, Deduct</i>	-143.77	
<i>For Class 54 Rating, Add</i>	200.99	
<i>For Class 55 Rating, Add</i>	301.33	
<i>For Class 56 Rating, Add</i>	400.37	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,758.91	274.69
<i>For Class 52 Rating, Deduct</i>	-147.70	
<i>For Class 54 Rating, Add</i>	206.40	
<i>For Class 55 Rating, Add</i>	309.41	
<i>For Class 56 Rating, Add</i>	411.08	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,799.31	277.77
<i>For Class 52 Rating, Deduct</i>	-151.63	
<i>For Class 54 Rating, Add</i>	211.82	
<i>For Class 55 Rating, Add</i>	317.49	
<i>For Class 56 Rating, Add</i>	421.79	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,839.70	280.86
<i>For Class 52 Rating, Deduct</i>	-155.56	
<i>For Class 54 Rating, Add</i>	217.23	
<i>For Class 55 Rating, Add</i>	325.57	
<i>For Class 56 Rating, Add</i>	432.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1065	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,880.10	283.92
			<i>For Class 52 Rating, Deduct</i>	-159.49	
			<i>For Class 54 Rating, Add</i>	222.65	
			<i>For Class 55 Rating, Add</i>	333.65	
			<i>For Class 56 Rating, Add</i>	443.21	
40 05 19 00-1066	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.50	287.01
			<i>For Class 52 Rating, Deduct</i>	-163.42	
			<i>For Class 54 Rating, Add</i>	228.06	
			<i>For Class 55 Rating, Add</i>	341.73	
			<i>For Class 56 Rating, Add</i>	453.92	
40 05 19 00-1067	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,960.89	290.10
			<i>For Class 52 Rating, Deduct</i>	-167.35	
			<i>For Class 54 Rating, Add</i>	233.48	
			<i>For Class 55 Rating, Add</i>	349.81	
			<i>For Class 56 Rating, Add</i>	464.63	
40 05 19 00-1068	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,001.29	293.17
			<i>For Class 52 Rating, Deduct</i>	-171.28	
			<i>For Class 54 Rating, Add</i>	238.90	
			<i>For Class 55 Rating, Add</i>	357.89	
			<i>For Class 56 Rating, Add</i>	475.34	
40 05 19 00-1069			6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1070	EA		6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	584.70	221.72
			<i>For Class 52 Rating, Deduct</i>	-27.36	
			<i>For Class 54 Rating, Add</i>	41.34	
			<i>For Class 55 Rating, Add</i>	63.53	
			<i>For Class 56 Rating, Add</i>	85.48	
40 05 19 00-1071	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	633.35	224.81
			<i>For Class 52 Rating, Deduct</i>	-32.20	
			<i>For Class 54 Rating, Add</i>	48.00	
			<i>For Class 55 Rating, Add</i>	73.45	
			<i>For Class 56 Rating, Add</i>	98.62	
40 05 19 00-1072	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	681.98	227.88
			<i>For Class 52 Rating, Deduct</i>	-37.04	
			<i>For Class 54 Rating, Add</i>	54.65	
			<i>For Class 55 Rating, Add</i>	83.37	
			<i>For Class 56 Rating, Add</i>	111.76	
40 05 19 00-1073	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	730.63	230.96
			<i>For Class 52 Rating, Deduct</i>	-41.88	
			<i>For Class 54 Rating, Add</i>	61.30	
			<i>For Class 55 Rating, Add</i>	93.29	
			<i>For Class 56 Rating, Add</i>	124.90	
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	779.27	234.05
			<i>For Class 52 Rating, Deduct</i>	-46.71	
			<i>For Class 54 Rating, Add</i>	67.95	
			<i>For Class 55 Rating, Add</i>	103.21	
			<i>For Class 56 Rating, Add</i>	138.04	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	827.91	237.12
			<i>For Class 52 Rating, Deduct</i>	-51.55	
			<i>For Class 54 Rating, Add</i>	74.61	
			<i>For Class 55 Rating, Add</i>	113.13	
			<i>For Class 56 Rating, Add</i>	151.18	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	876.56	240.20
			<i>For Class 52 Rating, Deduct</i>	-56.39	
			<i>For Class 54 Rating, Add</i>	81.26	
			<i>For Class 55 Rating, Add</i>	123.05	
			<i>For Class 56 Rating, Add</i>	164.32	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	925.21	243.28
			<i>For Class 52 Rating, Deduct</i>	-61.23	
			<i>For Class 54 Rating, Add</i>	87.91	
			<i>For Class 55 Rating, Add</i>	132.97	
			<i>For Class 56 Rating, Add</i>	177.47	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	973.85	246.37
			<i>For Class 52 Rating, Deduct</i>	-66.06	
			<i>For Class 54 Rating, Add</i>	94.57	
			<i>For Class 55 Rating, Add</i>	142.89	
			<i>For Class 56 Rating, Add</i>	190.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1079 EA 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,022.50	249.43
<i>For Class 52 Rating, Deduct</i>	-70.90	
<i>For Class 54 Rating, Add</i>	101.22	
<i>For Class 55 Rating, Add</i>	152.81	
<i>For Class 56 Rating, Add</i>	203.75	
40 05 19 00-1080 EA 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,071.14	252.52
<i>For Class 52 Rating, Deduct</i>	-75.74	
<i>For Class 54 Rating, Add</i>	107.87	
<i>For Class 55 Rating, Add</i>	162.72	
<i>For Class 56 Rating, Add</i>	216.89	
40 05 19 00-1081 EA 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.78	255.61
<i>For Class 52 Rating, Deduct</i>	-80.58	
<i>For Class 54 Rating, Add</i>	114.52	
<i>For Class 55 Rating, Add</i>	172.64	
<i>For Class 56 Rating, Add</i>	230.03	
40 05 19 00-1082 EA 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,168.43	258.67
<i>For Class 52 Rating, Deduct</i>	-85.41	
<i>For Class 54 Rating, Add</i>	121.18	
<i>For Class 55 Rating, Add</i>	182.56	
<i>For Class 56 Rating, Add</i>	243.17	
40 05 19 00-1083 EA 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,217.08	261.76
<i>For Class 52 Rating, Deduct</i>	-90.25	
<i>For Class 54 Rating, Add</i>	127.83	
<i>For Class 55 Rating, Add</i>	192.48	
<i>For Class 56 Rating, Add</i>	256.32	
40 05 19 00-1084 EA 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,265.72	264.84
<i>For Class 52 Rating, Deduct</i>	-95.09	
<i>For Class 54 Rating, Add</i>	134.48	
<i>For Class 55 Rating, Add</i>	202.40	
<i>For Class 56 Rating, Add</i>	269.46	
40 05 19 00-1085 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,314.36	267.92
<i>For Class 52 Rating, Deduct</i>	-99.93	
<i>For Class 54 Rating, Add</i>	141.14	
<i>For Class 55 Rating, Add</i>	212.32	
<i>For Class 56 Rating, Add</i>	282.60	
40 05 19 00-1086 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,363.00	270.99
<i>For Class 52 Rating, Deduct</i>	-104.76	
<i>For Class 54 Rating, Add</i>	147.79	
<i>For Class 55 Rating, Add</i>	222.24	
<i>For Class 56 Rating, Add</i>	295.74	
40 05 19 00-1087 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,411.64	274.08
<i>For Class 52 Rating, Deduct</i>	-109.60	
<i>For Class 54 Rating, Add</i>	154.44	
<i>For Class 55 Rating, Add</i>	232.16	
<i>For Class 56 Rating, Add</i>	308.88	
40 05 19 00-1088 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,460.29	277.16
<i>For Class 52 Rating, Deduct</i>	-114.44	
<i>For Class 54 Rating, Add</i>	161.09	
<i>For Class 55 Rating, Add</i>	242.08	
<i>For Class 56 Rating, Add</i>	322.02	
40 05 19 00-1089 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,508.94	280.24
<i>For Class 52 Rating, Deduct</i>	-119.28	
<i>For Class 54 Rating, Add</i>	167.75	
<i>For Class 55 Rating, Add</i>	252.00	
<i>For Class 56 Rating, Add</i>	335.17	
40 05 19 00-1090 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,557.58	283.32
<i>For Class 52 Rating, Deduct</i>	-124.12	
<i>For Class 54 Rating, Add</i>	174.40	
<i>For Class 55 Rating, Add</i>	261.92	
<i>For Class 56 Rating, Add</i>	348.31	
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,606.23	286.39
<i>For Class 52 Rating, Deduct</i>	-128.95	
<i>For Class 54 Rating, Add</i>	181.05	
<i>For Class 55 Rating, Add</i>	271.84	
<i>For Class 56 Rating, Add</i>	361.45	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,654.87	289.48
<i>For Class 52 Rating, Deduct</i>	-133.79	
<i>For Class 54 Rating, Add</i>	187.70	
<i>For Class 55 Rating, Add</i>	281.75	
<i>For Class 56 Rating, Add</i>	374.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1093	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,703.51	292.55
			<i>For Class 52 Rating, Deduct</i>	-138.63	
			<i>For Class 54 Rating, Add</i>	194.36	
			<i>For Class 55 Rating, Add</i>	291.67	
			<i>For Class 56 Rating, Add</i>	387.73	
40 05 19 00-1094	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,752.16	295.63
			<i>For Class 52 Rating, Deduct</i>	-143.47	
			<i>For Class 54 Rating, Add</i>	201.01	
			<i>For Class 55 Rating, Add</i>	301.59	
			<i>For Class 56 Rating, Add</i>	400.87	
40 05 19 00-1095	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,800.81	298.71
			<i>For Class 52 Rating, Deduct</i>	-148.30	
			<i>For Class 54 Rating, Add</i>	207.66	
			<i>For Class 55 Rating, Add</i>	311.51	
			<i>For Class 56 Rating, Add</i>	414.02	
40 05 19 00-1096	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,849.45	301.80
			<i>For Class 52 Rating, Deduct</i>	-153.14	
			<i>For Class 54 Rating, Add</i>	214.32	
			<i>For Class 55 Rating, Add</i>	321.43	
			<i>For Class 56 Rating, Add</i>	427.16	
40 05 19 00-1097	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,898.09	304.86
			<i>For Class 52 Rating, Deduct</i>	-157.98	
			<i>For Class 54 Rating, Add</i>	220.97	
			<i>For Class 55 Rating, Add</i>	331.35	
			<i>For Class 56 Rating, Add</i>	440.30	
40 05 19 00-1098	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,946.73	307.95
			<i>For Class 52 Rating, Deduct</i>	-162.82	
			<i>For Class 54 Rating, Add</i>	227.62	
			<i>For Class 55 Rating, Add</i>	341.27	
			<i>For Class 56 Rating, Add</i>	453.44	
40 05 19 00-1099	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,995.37	311.04
			<i>For Class 52 Rating, Deduct</i>	-167.65	
			<i>For Class 54 Rating, Add</i>	234.27	
			<i>For Class 55 Rating, Add</i>	351.19	
			<i>For Class 56 Rating, Add</i>	466.58	
40 05 19 00-1100	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,044.02	314.10
			<i>For Class 52 Rating, Deduct</i>	-172.49	
			<i>For Class 54 Rating, Add</i>	240.93	
			<i>For Class 55 Rating, Add</i>	361.11	
			<i>For Class 56 Rating, Add</i>	479.72	
40 05 19 00-1101	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.67	317.19
			<i>For Class 52 Rating, Deduct</i>	-177.33	
			<i>For Class 54 Rating, Add</i>	247.58	
			<i>For Class 55 Rating, Add</i>	371.03	
			<i>For Class 56 Rating, Add</i>	492.86	
40 05 19 00-1102	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,141.31	320.27
			<i>For Class 52 Rating, Deduct</i>	-182.17	
			<i>For Class 54 Rating, Add</i>	254.23	
			<i>For Class 55 Rating, Add</i>	380.95	
			<i>For Class 56 Rating, Add</i>	506.01	
40 05 19 00-1103	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,189.95	323.35
			<i>For Class 52 Rating, Deduct</i>	-187.00	
			<i>For Class 54 Rating, Add</i>	260.88	
			<i>For Class 55 Rating, Add</i>	390.86	
			<i>For Class 56 Rating, Add</i>	519.15	
40 05 19 00-1104	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,238.60	326.42
			<i>For Class 52 Rating, Deduct</i>	-191.84	
			<i>For Class 54 Rating, Add</i>	267.54	
			<i>For Class 55 Rating, Add</i>	400.78	
			<i>For Class 56 Rating, Add</i>	532.29	
40 05 19 00-1105	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.24	329.51
			<i>For Class 52 Rating, Deduct</i>	-196.68	
			<i>For Class 54 Rating, Add</i>	274.19	
			<i>For Class 55 Rating, Add</i>	410.70	
			<i>For Class 56 Rating, Add</i>	545.43	
40 05 19 00-1106	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,335.89	332.59
			<i>For Class 52 Rating, Deduct</i>	-201.52	
			<i>For Class 54 Rating, Add</i>	280.84	
			<i>For Class 55 Rating, Add</i>	420.62	
			<i>For Class 56 Rating, Add</i>	558.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,384.54	335.66
For Class 52 Rating, Deduct	-206.35	
For Class 54 Rating, Add	287.50	
For Class 55 Rating, Add	430.54	
For Class 56 Rating, Add	571.71	
40 05 19 00-1108 EA 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,433.17	338.75
For Class 52 Rating, Deduct	-211.19	
For Class 54 Rating, Add	294.15	
For Class 55 Rating, Add	440.46	
For Class 56 Rating, Add	584.85	
40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110 EA 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	790.71	283.32
For Class 52 Rating, Deduct	-39.76	
For Class 54 Rating, Add	59.37	
For Class 55 Rating, Add	90.91	
For Class 56 Rating, Add	122.08	
40 05 19 00-1111 EA 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	855.85	286.39
For Class 52 Rating, Deduct	-46.41	
For Class 54 Rating, Add	68.50	
For Class 55 Rating, Add	104.50	
For Class 56 Rating, Add	140.09	
40 05 19 00-1112 EA 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	920.99	289.48
For Class 52 Rating, Deduct	-53.06	
For Class 54 Rating, Add	77.62	
For Class 55 Rating, Add	118.10	
For Class 56 Rating, Add	158.09	
40 05 19 00-1113 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	986.12	292.55
For Class 52 Rating, Deduct	-59.71	
For Class 54 Rating, Add	86.75	
For Class 55 Rating, Add	131.70	
For Class 56 Rating, Add	176.10	
40 05 19 00-1114 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,051.26	295.63
For Class 52 Rating, Deduct	-66.37	
For Class 54 Rating, Add	95.87	
For Class 55 Rating, Add	145.29	
For Class 56 Rating, Add	194.11	
40 05 19 00-1115 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,116.40	298.71
For Class 52 Rating, Deduct	-73.02	
For Class 54 Rating, Add	105.00	
For Class 55 Rating, Add	158.89	
For Class 56 Rating, Add	212.11	
40 05 19 00-1116 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.53	301.80
For Class 52 Rating, Deduct	-79.67	
For Class 54 Rating, Add	114.13	
For Class 55 Rating, Add	172.49	
For Class 56 Rating, Add	230.12	
40 05 19 00-1117 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,246.67	304.86
For Class 52 Rating, Deduct	-86.32	
For Class 54 Rating, Add	123.25	
For Class 55 Rating, Add	186.08	
For Class 56 Rating, Add	248.13	
40 05 19 00-1118 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,311.80	307.95
For Class 52 Rating, Deduct	-92.97	
For Class 54 Rating, Add	132.38	
For Class 55 Rating, Add	199.68	
For Class 56 Rating, Add	266.13	
40 05 19 00-1119 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,376.93	311.04
For Class 52 Rating, Deduct	-99.62	
For Class 54 Rating, Add	141.51	
For Class 55 Rating, Add	213.28	
For Class 56 Rating, Add	284.14	
40 05 19 00-1120 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,442.07	314.10
For Class 52 Rating, Deduct	-106.28	
For Class 54 Rating, Add	150.63	
For Class 55 Rating, Add	226.87	
For Class 56 Rating, Add	302.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1121	EA		8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,507.21	317.19
			<i>For Class 52 Rating, Deduct</i>	-112.93	
			<i>For Class 54 Rating, Add</i>	159.76	
			<i>For Class 55 Rating, Add</i>	240.47	
			<i>For Class 56 Rating, Add</i>	320.15	
40 05 19 00-1122	EA		8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.34	320.27
			<i>For Class 52 Rating, Deduct</i>	-119.58	
			<i>For Class 54 Rating, Add</i>	168.89	
			<i>For Class 55 Rating, Add</i>	254.07	
			<i>For Class 56 Rating, Add</i>	338.16	
40 05 19 00-1123	EA		8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,637.48	323.35
			<i>For Class 52 Rating, Deduct</i>	-126.23	
			<i>For Class 54 Rating, Add</i>	178.01	
			<i>For Class 55 Rating, Add</i>	267.66	
			<i>For Class 56 Rating, Add</i>	356.17	
40 05 19 00-1124	EA		8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,702.62	326.42
			<i>For Class 52 Rating, Deduct</i>	-132.88	
			<i>For Class 54 Rating, Add</i>	187.14	
			<i>For Class 55 Rating, Add</i>	281.26	
			<i>For Class 56 Rating, Add</i>	374.17	
40 05 19 00-1125	EA		8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,767.75	329.51
			<i>For Class 52 Rating, Deduct</i>	-139.54	
			<i>For Class 54 Rating, Add</i>	196.27	
			<i>For Class 55 Rating, Add</i>	294.86	
			<i>For Class 56 Rating, Add</i>	392.18	
40 05 19 00-1126	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.89	332.59
			<i>For Class 52 Rating, Deduct</i>	-146.19	
			<i>For Class 54 Rating, Add</i>	205.39	
			<i>For Class 55 Rating, Add</i>	308.45	
			<i>For Class 56 Rating, Add</i>	410.19	
40 05 19 00-1127	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,898.03	335.66
			<i>For Class 52 Rating, Deduct</i>	-152.84	
			<i>For Class 54 Rating, Add</i>	214.52	
			<i>For Class 55 Rating, Add</i>	322.05	
			<i>For Class 56 Rating, Add</i>	428.19	
40 05 19 00-1128	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,963.16	338.75
			<i>For Class 52 Rating, Deduct</i>	-159.49	
			<i>For Class 54 Rating, Add</i>	223.65	
			<i>For Class 55 Rating, Add</i>	335.65	
			<i>For Class 56 Rating, Add</i>	446.20	
40 05 19 00-1129	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.30	341.82
			<i>For Class 52 Rating, Deduct</i>	-166.14	
			<i>For Class 54 Rating, Add</i>	232.77	
			<i>For Class 55 Rating, Add</i>	349.24	
			<i>For Class 56 Rating, Add</i>	464.21	
40 05 19 00-1130	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,093.44	344.91
			<i>For Class 52 Rating, Deduct</i>	-172.79	
			<i>For Class 54 Rating, Add</i>	241.90	
			<i>For Class 55 Rating, Add</i>	362.84	
			<i>For Class 56 Rating, Add</i>	482.21	
40 05 19 00-1131	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.56	347.98
			<i>For Class 52 Rating, Deduct</i>	-179.45	
			<i>For Class 54 Rating, Add</i>	251.02	
			<i>For Class 55 Rating, Add</i>	376.44	
			<i>For Class 56 Rating, Add</i>	500.22	
40 05 19 00-1132	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,223.70	351.06
			<i>For Class 52 Rating, Deduct</i>	-186.10	
			<i>For Class 54 Rating, Add</i>	260.15	
			<i>For Class 55 Rating, Add</i>	390.04	
			<i>For Class 56 Rating, Add</i>	518.23	
40 05 19 00-1133	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,288.84	354.15
			<i>For Class 52 Rating, Deduct</i>	-192.75	
			<i>For Class 54 Rating, Add</i>	269.28	
			<i>For Class 55 Rating, Add</i>	403.63	
			<i>For Class 56 Rating, Add</i>	536.23	
40 05 19 00-1134	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,353.97	357.23
			<i>For Class 52 Rating, Deduct</i>	-199.40	
			<i>For Class 54 Rating, Add</i>	278.40	
			<i>For Class 55 Rating, Add</i>	417.23	
			<i>For Class 56 Rating, Add</i>	554.24	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,419.11	360.30
<i>For Class 52 Rating, Deduct</i>	-206.05	
<i>For Class 54 Rating, Add</i>	287.53	
<i>For Class 55 Rating, Add</i>	430.83	
<i>For Class 56 Rating, Add</i>	572.25	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,484.25	363.38
<i>For Class 52 Rating, Deduct</i>	-212.70	
<i>For Class 54 Rating, Add</i>	296.66	
<i>For Class 55 Rating, Add</i>	444.42	
<i>For Class 56 Rating, Add</i>	590.25	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,549.38	366.47
<i>For Class 52 Rating, Deduct</i>	-219.36	
<i>For Class 54 Rating, Add</i>	305.78	
<i>For Class 55 Rating, Add</i>	458.02	
<i>For Class 56 Rating, Add</i>	608.26	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,614.52	369.53
<i>For Class 52 Rating, Deduct</i>	-226.01	
<i>For Class 54 Rating, Add</i>	314.91	
<i>For Class 55 Rating, Add</i>	471.62	
<i>For Class 56 Rating, Add</i>	626.27	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,679.66	372.62
<i>For Class 52 Rating, Deduct</i>	-232.66	
<i>For Class 54 Rating, Add</i>	324.04	
<i>For Class 55 Rating, Add</i>	485.21	
<i>For Class 56 Rating, Add</i>	644.27	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.79	375.70
<i>For Class 52 Rating, Deduct</i>	-239.31	
<i>For Class 54 Rating, Add</i>	333.16	
<i>For Class 55 Rating, Add</i>	498.81	
<i>For Class 56 Rating, Add</i>	662.28	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,809.93	378.79
<i>For Class 52 Rating, Deduct</i>	-245.96	
<i>For Class 54 Rating, Add</i>	342.29	
<i>For Class 55 Rating, Add</i>	512.41	
<i>For Class 56 Rating, Add</i>	680.29	
40 05 19 00-1142 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,875.07	381.85
<i>For Class 52 Rating, Deduct</i>	-252.61	
<i>For Class 54 Rating, Add</i>	351.42	
<i>For Class 55 Rating, Add</i>	526.00	
<i>For Class 56 Rating, Add</i>	698.29	
40 05 19 00-1143 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.20	384.94
<i>For Class 52 Rating, Deduct</i>	-259.27	
<i>For Class 54 Rating, Add</i>	360.54	
<i>For Class 55 Rating, Add</i>	539.60	
<i>For Class 56 Rating, Add</i>	716.30	
40 05 19 00-1144 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,005.34	388.02
<i>For Class 52 Rating, Deduct</i>	-265.92	
<i>For Class 54 Rating, Add</i>	369.67	
<i>For Class 55 Rating, Add</i>	553.20	
<i>For Class 56 Rating, Add</i>	734.31	
40 05 19 00-1145 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.47	391.09
<i>For Class 52 Rating, Deduct</i>	-272.57	
<i>For Class 54 Rating, Add</i>	378.80	
<i>For Class 55 Rating, Add</i>	566.79	
<i>For Class 56 Rating, Add</i>	752.31	
40 05 19 00-1146 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,135.60	394.18
<i>For Class 52 Rating, Deduct</i>	-279.22	
<i>For Class 54 Rating, Add</i>	387.92	
<i>For Class 55 Rating, Add</i>	580.39	
<i>For Class 56 Rating, Add</i>	770.32	
40 05 19 00-1147 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,200.74	397.25
<i>For Class 52 Rating, Deduct</i>	-285.87	
<i>For Class 54 Rating, Add</i>	397.05	
<i>For Class 55 Rating, Add</i>	593.99	
<i>For Class 56 Rating, Add</i>	788.33	
40 05 19 00-1148 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,265.88	400.34
<i>For Class 52 Rating, Deduct</i>	-292.52	
<i>For Class 54 Rating, Add</i>	406.18	
<i>For Class 55 Rating, Add</i>	607.58	
<i>For Class 56 Rating, Add</i>	806.33	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1149		10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>			
40 05 19 00-1150	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	988.48		344.91
		For Class 52 Rating, Deduct	-51.25		
		For Class 54 Rating, Add	76.15		
		For Class 55 Rating, Add	116.44		
		For Class 56 Rating, Add	156.25		
40 05 19 00-1151	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,072.84		347.98
		For Class 52 Rating, Deduct	-60.02		
		For Class 54 Rating, Add	88.17		
		For Class 55 Rating, Add	134.32		
		For Class 56 Rating, Add	179.93		
40 05 19 00-1152	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,157.23		351.06
		For Class 52 Rating, Deduct	-68.79		
		For Class 54 Rating, Add	100.18		
		For Class 55 Rating, Add	152.21		
		For Class 56 Rating, Add	203.62		
40 05 19 00-1153	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,241.61		354.15
		For Class 52 Rating, Deduct	-77.55		
		For Class 54 Rating, Add	112.19		
		For Class 55 Rating, Add	170.10		
		For Class 56 Rating, Add	227.30		
40 05 19 00-1154	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.98		357.23
		For Class 52 Rating, Deduct	-86.32		
		For Class 54 Rating, Add	124.21		
		For Class 55 Rating, Add	187.99		
		For Class 56 Rating, Add	250.98		
40 05 19 00-1155	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,410.36		360.30
		For Class 52 Rating, Deduct	-95.09		
		For Class 54 Rating, Add	136.22		
		For Class 55 Rating, Add	205.87		
		For Class 56 Rating, Add	274.67		
40 05 19 00-1156	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,494.74		363.38
		For Class 52 Rating, Deduct	-103.86		
		For Class 54 Rating, Add	148.23		
		For Class 55 Rating, Add	223.76		
		For Class 56 Rating, Add	298.35		
40 05 19 00-1157	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,579.11		366.47
		For Class 52 Rating, Deduct	-112.63		
		For Class 54 Rating, Add	160.24		
		For Class 55 Rating, Add	241.65		
		For Class 56 Rating, Add	322.03		
40 05 19 00-1158	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.49		369.53
		For Class 52 Rating, Deduct	-121.39		
		For Class 54 Rating, Add	172.26		
		For Class 55 Rating, Add	259.54		
		For Class 56 Rating, Add	345.71		
40 05 19 00-1159	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,747.87		372.62
		For Class 52 Rating, Deduct	-130.16		
		For Class 54 Rating, Add	184.27		
		For Class 55 Rating, Add	277.42		
		For Class 56 Rating, Add	369.40		
40 05 19 00-1160	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.24		375.70
		For Class 52 Rating, Deduct	-138.93		
		For Class 54 Rating, Add	196.28		
		For Class 55 Rating, Add	295.31		
		For Class 56 Rating, Add	393.08		
40 05 19 00-1161	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,916.62		378.79
		For Class 52 Rating, Deduct	-147.70		
		For Class 54 Rating, Add	208.29		
		For Class 55 Rating, Add	313.20		
		For Class 56 Rating, Add	416.76		
40 05 19 00-1162	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,001.00		381.85
		For Class 52 Rating, Deduct	-156.47		
		For Class 54 Rating, Add	220.31		
		For Class 55 Rating, Add	331.09		
		For Class 56 Rating, Add	440.44		
40 05 19 00-1163	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.37		384.94
		For Class 52 Rating, Deduct	-165.23		
		For Class 54 Rating, Add	232.32		
		For Class 55 Rating, Add	348.97		
		For Class 56 Rating, Add	464.12		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,169.75	388.02
<i>For Class 52 Rating, Deduct</i>	-174.00	
<i>For Class 54 Rating, Add</i>	244.33	
<i>For Class 55 Rating, Add</i>	366.86	
<i>For Class 56 Rating, Add</i>	487.81	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,254.12	391.09
<i>For Class 52 Rating, Deduct</i>	-182.77	
<i>For Class 54 Rating, Add</i>	256.34	
<i>For Class 55 Rating, Add</i>	384.75	
<i>For Class 56 Rating, Add</i>	511.49	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.49	394.18
<i>For Class 52 Rating, Deduct</i>	-191.54	
<i>For Class 54 Rating, Add</i>	268.36	
<i>For Class 55 Rating, Add</i>	402.63	
<i>For Class 56 Rating, Add</i>	535.17	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,422.87	397.25
<i>For Class 52 Rating, Deduct</i>	-200.31	
<i>For Class 54 Rating, Add</i>	280.37	
<i>For Class 55 Rating, Add</i>	420.52	
<i>For Class 56 Rating, Add</i>	558.85	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.25	400.34
<i>For Class 52 Rating, Deduct</i>	-209.07	
<i>For Class 54 Rating, Add</i>	292.38	
<i>For Class 55 Rating, Add</i>	438.41	
<i>For Class 56 Rating, Add</i>	582.54	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,591.63	403.41
<i>For Class 52 Rating, Deduct</i>	-217.84	
<i>For Class 54 Rating, Add</i>	304.39	
<i>For Class 55 Rating, Add</i>	456.30	
<i>For Class 56 Rating, Add</i>	606.22	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,676.01	406.49
<i>For Class 52 Rating, Deduct</i>	-226.61	
<i>For Class 54 Rating, Add</i>	316.41	
<i>For Class 55 Rating, Add</i>	474.19	
<i>For Class 56 Rating, Add</i>	629.90	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,760.39	409.58
<i>For Class 52 Rating, Deduct</i>	-235.38	
<i>For Class 54 Rating, Add</i>	328.42	
<i>For Class 55 Rating, Add</i>	492.07	
<i>For Class 56 Rating, Add</i>	653.59	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,844.76	412.65
<i>For Class 52 Rating, Deduct</i>	-244.15	
<i>For Class 54 Rating, Add</i>	340.43	
<i>For Class 55 Rating, Add</i>	509.96	
<i>For Class 56 Rating, Add</i>	677.27	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,929.14	415.73
<i>For Class 52 Rating, Deduct</i>	-252.92	
<i>For Class 54 Rating, Add</i>	352.44	
<i>For Class 55 Rating, Add</i>	527.85	
<i>For Class 56 Rating, Add</i>	700.95	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,013.52	418.81
<i>For Class 52 Rating, Deduct</i>	-261.68	
<i>For Class 54 Rating, Add</i>	364.46	
<i>For Class 55 Rating, Add</i>	545.74	
<i>For Class 56 Rating, Add</i>	724.63	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,097.89	421.90
<i>For Class 52 Rating, Deduct</i>	-270.45	
<i>For Class 54 Rating, Add</i>	376.47	
<i>For Class 55 Rating, Add</i>	563.62	
<i>For Class 56 Rating, Add</i>	748.32	
40 05 19 00-1176 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,182.27	424.96
<i>For Class 52 Rating, Deduct</i>	-279.22	
<i>For Class 54 Rating, Add</i>	388.48	
<i>For Class 55 Rating, Add</i>	581.51	
<i>For Class 56 Rating, Add</i>	772.00	
40 05 19 00-1177 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,266.65	428.05
<i>For Class 52 Rating, Deduct</i>	-287.99	
<i>For Class 54 Rating, Add</i>	400.49	
<i>For Class 55 Rating, Add</i>	599.40	
<i>For Class 56 Rating, Add</i>	795.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,351.01	431.14
			<i>For Class 52 Rating, Deduct</i>	-296.76	
			<i>For Class 54 Rating, Add</i>	412.51	
			<i>For Class 55 Rating, Add</i>	617.28	
			<i>For Class 56 Rating, Add</i>	819.36	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,435.39	434.22
			<i>For Class 52 Rating, Deduct</i>	-305.53	
			<i>For Class 54 Rating, Add</i>	424.52	
			<i>For Class 55 Rating, Add</i>	635.17	
			<i>For Class 56 Rating, Add</i>	843.05	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,519.77	437.29
			<i>For Class 52 Rating, Deduct</i>	-314.29	
			<i>For Class 54 Rating, Add</i>	436.53	
			<i>For Class 55 Rating, Add</i>	653.06	
			<i>For Class 56 Rating, Add</i>	866.73	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,604.14	440.37
			<i>For Class 52 Rating, Deduct</i>	-323.06	
			<i>For Class 54 Rating, Add</i>	448.54	
			<i>For Class 55 Rating, Add</i>	670.95	
			<i>For Class 56 Rating, Add</i>	890.41	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,688.52	443.46
			<i>For Class 52 Rating, Deduct</i>	-331.83	
			<i>For Class 54 Rating, Add</i>	460.56	
			<i>For Class 55 Rating, Add</i>	688.83	
			<i>For Class 56 Rating, Add</i>	914.09	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,772.90	446.52
			<i>For Class 52 Rating, Deduct</i>	-340.60	
			<i>For Class 54 Rating, Add</i>	472.57	
			<i>For Class 55 Rating, Add</i>	706.72	
			<i>For Class 56 Rating, Add</i>	937.78	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,857.27	449.61
			<i>For Class 52 Rating, Deduct</i>	-349.37	
			<i>For Class 54 Rating, Add</i>	484.58	
			<i>For Class 55 Rating, Add</i>	724.61	
			<i>For Class 56 Rating, Add</i>	961.46	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,941.65	452.69
			<i>For Class 52 Rating, Deduct</i>	-358.13	
			<i>For Class 54 Rating, Add</i>	496.59	
			<i>For Class 55 Rating, Add</i>	742.50	
			<i>For Class 56 Rating, Add</i>	985.14	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,026.03	455.77
			<i>For Class 52 Rating, Deduct</i>	-366.90	
			<i>For Class 54 Rating, Add</i>	508.61	
			<i>For Class 55 Rating, Add</i>	760.38	
			<i>For Class 56 Rating, Add</i>	1,008.82	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,110.41	458.84
			<i>For Class 52 Rating, Deduct</i>	-375.67	
			<i>For Class 54 Rating, Add</i>	520.62	
			<i>For Class 55 Rating, Add</i>	778.27	
			<i>For Class 56 Rating, Add</i>	1,032.51	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,194.79	461.93
			<i>For Class 52 Rating, Deduct</i>	-384.44	
			<i>For Class 54 Rating, Add</i>	532.63	
			<i>For Class 55 Rating, Add</i>	796.16	
			<i>For Class 56 Rating, Add</i>	1,056.19	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,274.41	431.14
			<i>For Class 52 Rating, Deduct</i>	-68.33	
			<i>For Class 54 Rating, Add</i>	101.02	
			<i>For Class 55 Rating, Add</i>	154.20	
			<i>For Class 56 Rating, Add</i>	206.77	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.41	434.22
			<i>For Class 52 Rating, Deduct</i>	-79.37	
			<i>For Class 54 Rating, Add</i>	116.12	
			<i>For Class 55 Rating, Add</i>	176.69	
			<i>For Class 56 Rating, Add</i>	236.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192 EA 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,484.40	437.29
<i>For Class 52 Rating, Deduct</i>	-90.40	
<i>For Class 54 Rating, Add</i>	131.23	
<i>For Class 55 Rating, Add</i>	199.17	
<i>For Class 56 Rating, Add</i>	266.29	
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,589.39	440.37
<i>For Class 52 Rating, Deduct</i>	-101.44	
<i>For Class 54 Rating, Add</i>	146.33	
<i>For Class 55 Rating, Add</i>	221.66	
<i>For Class 56 Rating, Add</i>	296.06	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,694.38	443.46
<i>For Class 52 Rating, Deduct</i>	-112.47	
<i>For Class 54 Rating, Add</i>	161.44	
<i>For Class 55 Rating, Add</i>	244.14	
<i>For Class 56 Rating, Add</i>	325.82	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,799.38	446.52
<i>For Class 52 Rating, Deduct</i>	-123.51	
<i>For Class 54 Rating, Add</i>	176.54	
<i>For Class 55 Rating, Add</i>	266.63	
<i>For Class 56 Rating, Add</i>	355.59	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,904.36	449.61
<i>For Class 52 Rating, Deduct</i>	-134.55	
<i>For Class 54 Rating, Add</i>	191.65	
<i>For Class 55 Rating, Add</i>	289.11	
<i>For Class 56 Rating, Add</i>	385.35	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.36	452.69
<i>For Class 52 Rating, Deduct</i>	-145.58	
<i>For Class 54 Rating, Add</i>	206.75	
<i>For Class 55 Rating, Add</i>	311.60	
<i>For Class 56 Rating, Add</i>	415.12	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,114.36	455.77
<i>For Class 52 Rating, Deduct</i>	-156.62	
<i>For Class 54 Rating, Add</i>	221.86	
<i>For Class 55 Rating, Add</i>	334.08	
<i>For Class 56 Rating, Add</i>	444.88	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,219.34	458.84
<i>For Class 52 Rating, Deduct</i>	-167.65	
<i>For Class 54 Rating, Add</i>	236.96	
<i>For Class 55 Rating, Add</i>	356.56	
<i>For Class 56 Rating, Add</i>	474.64	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,324.34	461.93
<i>For Class 52 Rating, Deduct</i>	-178.69	
<i>For Class 54 Rating, Add</i>	252.07	
<i>For Class 55 Rating, Add</i>	379.05	
<i>For Class 56 Rating, Add</i>	504.41	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,429.33	465.01
<i>For Class 52 Rating, Deduct</i>	-189.72	
<i>For Class 54 Rating, Add</i>	267.17	
<i>For Class 55 Rating, Add</i>	401.53	
<i>For Class 56 Rating, Add</i>	534.17	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,534.32	468.08
<i>For Class 52 Rating, Deduct</i>	-200.76	
<i>For Class 54 Rating, Add</i>	282.28	
<i>For Class 55 Rating, Add</i>	424.02	
<i>For Class 56 Rating, Add</i>	563.94	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.30	471.17
<i>For Class 52 Rating, Deduct</i>	-211.80	
<i>For Class 54 Rating, Add</i>	297.38	
<i>For Class 55 Rating, Add</i>	446.50	
<i>For Class 56 Rating, Add</i>	593.70	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.30	474.24
<i>For Class 52 Rating, Deduct</i>	-222.83	
<i>For Class 54 Rating, Add</i>	312.49	
<i>For Class 55 Rating, Add</i>	468.99	
<i>For Class 56 Rating, Add</i>	623.46	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,849.28	477.33
<i>For Class 52 Rating, Deduct</i>	-233.87	
<i>For Class 54 Rating, Add</i>	327.59	
<i>For Class 55 Rating, Add</i>	491.47	
<i>For Class 56 Rating, Add</i>	653.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1206	EA		12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,954.28	480.40
			<i>For Class 52 Rating, Deduct</i>	-244.90	
			<i>For Class 54 Rating, Add</i>	342.69	
			<i>For Class 55 Rating, Add</i>	513.96	
			<i>For Class 56 Rating, Add</i>	682.99	
40 05 19 00-1207	EA		12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,059.27	483.48
			<i>For Class 52 Rating, Deduct</i>	-255.94	
			<i>For Class 54 Rating, Add</i>	357.80	
			<i>For Class 55 Rating, Add</i>	536.44	
			<i>For Class 56 Rating, Add</i>	712.75	
40 05 19 00-1208	EA		12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,164.26	486.57
			<i>For Class 52 Rating, Deduct</i>	-266.98	
			<i>For Class 54 Rating, Add</i>	372.90	
			<i>For Class 55 Rating, Add</i>	558.93	
			<i>For Class 56 Rating, Add</i>	742.52	
40 05 19 00-1209	EA		12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,269.25	489.64
			<i>For Class 52 Rating, Deduct</i>	-278.01	
			<i>For Class 54 Rating, Add</i>	388.01	
			<i>For Class 55 Rating, Add</i>	581.41	
			<i>For Class 56 Rating, Add</i>	772.28	
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,374.25	492.72
			<i>For Class 52 Rating, Deduct</i>	-289.05	
			<i>For Class 54 Rating, Add</i>	403.11	
			<i>For Class 55 Rating, Add</i>	603.89	
			<i>For Class 56 Rating, Add</i>	802.05	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,479.24	495.80
			<i>For Class 52 Rating, Deduct</i>	-300.08	
			<i>For Class 54 Rating, Add</i>	418.22	
			<i>For Class 55 Rating, Add</i>	626.38	
			<i>For Class 56 Rating, Add</i>	831.81	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,584.23	498.89
			<i>For Class 52 Rating, Deduct</i>	-311.12	
			<i>For Class 54 Rating, Add</i>	433.32	
			<i>For Class 55 Rating, Add</i>	648.86	
			<i>For Class 56 Rating, Add</i>	861.57	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,689.23	501.95
			<i>For Class 52 Rating, Deduct</i>	-322.15	
			<i>For Class 54 Rating, Add</i>	448.43	
			<i>For Class 55 Rating, Add</i>	671.35	
			<i>For Class 56 Rating, Add</i>	891.34	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,794.21	505.04
			<i>For Class 52 Rating, Deduct</i>	-333.19	
			<i>For Class 54 Rating, Add</i>	463.53	
			<i>For Class 55 Rating, Add</i>	693.83	
			<i>For Class 56 Rating, Add</i>	921.10	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,899.21	508.13
			<i>For Class 52 Rating, Deduct</i>	-344.23	
			<i>For Class 54 Rating, Add</i>	478.64	
			<i>For Class 55 Rating, Add</i>	716.32	
			<i>For Class 56 Rating, Add</i>	950.87	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,004.20	511.20
			<i>For Class 52 Rating, Deduct</i>	-355.26	
			<i>For Class 54 Rating, Add</i>	493.74	
			<i>For Class 55 Rating, Add</i>	738.80	
			<i>For Class 56 Rating, Add</i>	980.63	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,109.18	514.28
			<i>For Class 52 Rating, Deduct</i>	-366.30	
			<i>For Class 54 Rating, Add</i>	508.85	
			<i>For Class 55 Rating, Add</i>	761.29	
			<i>For Class 56 Rating, Add</i>	1,010.40	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.17	517.36
			<i>For Class 52 Rating, Deduct</i>	-377.33	
			<i>For Class 54 Rating, Add</i>	523.95	
			<i>For Class 55 Rating, Add</i>	783.77	
			<i>For Class 56 Rating, Add</i>	1,040.16	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,319.17	520.44
			<i>For Class 52 Rating, Deduct</i>	-388.37	
			<i>For Class 54 Rating, Add</i>	539.06	
			<i>For Class 55 Rating, Add</i>	806.26	
			<i>For Class 56 Rating, Add</i>	1,069.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220 EA 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,424.15	523.51
<i>For Class 52 Rating, Deduct</i>	-399.40	
<i>For Class 54 Rating, Add</i>	554.16	
<i>For Class 55 Rating, Add</i>	828.74	
<i>For Class 56 Rating, Add</i>	1,099.69	
40 05 19 00-1221 EA 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,529.15	526.60
<i>For Class 52 Rating, Deduct</i>	-410.44	
<i>For Class 54 Rating, Add</i>	569.27	
<i>For Class 55 Rating, Add</i>	851.22	
<i>For Class 56 Rating, Add</i>	1,129.45	
40 05 19 00-1222 EA 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,634.14	529.67
<i>For Class 52 Rating, Deduct</i>	-421.48	
<i>For Class 54 Rating, Add</i>	584.37	
<i>For Class 55 Rating, Add</i>	873.71	
<i>For Class 56 Rating, Add</i>	1,159.21	
40 05 19 00-1223 EA 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,739.13	532.76
<i>For Class 52 Rating, Deduct</i>	-432.51	
<i>For Class 54 Rating, Add</i>	599.48	
<i>For Class 55 Rating, Add</i>	896.19	
<i>For Class 56 Rating, Add</i>	1,188.98	
40 05 19 00-1224 EA 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,844.12	535.83
<i>For Class 52 Rating, Deduct</i>	-443.55	
<i>For Class 54 Rating, Add</i>	614.58	
<i>For Class 55 Rating, Add</i>	918.68	
<i>For Class 56 Rating, Add</i>	1,218.74	
40 05 19 00-1225 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,949.12	538.91
<i>For Class 52 Rating, Deduct</i>	-454.58	
<i>For Class 54 Rating, Add</i>	629.69	
<i>For Class 55 Rating, Add</i>	941.16	
<i>For Class 56 Rating, Add</i>	1,248.51	
40 05 19 00-1226 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,054.11	542.00
<i>For Class 52 Rating, Deduct</i>	-465.62	
<i>For Class 54 Rating, Add</i>	644.79	
<i>For Class 55 Rating, Add</i>	963.65	
<i>For Class 56 Rating, Add</i>	1,278.27	
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,159.10	545.07
<i>For Class 52 Rating, Deduct</i>	-476.66	
<i>For Class 54 Rating, Add</i>	659.89	
<i>For Class 55 Rating, Add</i>	986.13	
<i>For Class 56 Rating, Add</i>	1,308.03	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,264.10	548.15
<i>For Class 52 Rating, Deduct</i>	-487.69	
<i>For Class 54 Rating, Add</i>	675.00	
<i>For Class 55 Rating, Add</i>	1,008.62	
<i>For Class 56 Rating, Add</i>	1,337.80	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,670.31	517.36
<i>For Class 52 Rating, Deduct</i>	-97.51	
<i>For Class 54 Rating, Add</i>	142.37	
<i>For Class 55 Rating, Add</i>	216.49	
<i>For Class 56 Rating, Add</i>	289.72	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,797.29	520.44
<i>For Class 52 Rating, Deduct</i>	-110.96	
<i>For Class 54 Rating, Add</i>	160.77	
<i>For Class 55 Rating, Add</i>	243.88	
<i>For Class 56 Rating, Add</i>	325.97	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,924.27	523.51
<i>For Class 52 Rating, Deduct</i>	-124.42	
<i>For Class 54 Rating, Add</i>	179.18	
<i>For Class 55 Rating, Add</i>	271.27	
<i>For Class 56 Rating, Add</i>	362.22	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,051.25	526.60
<i>For Class 52 Rating, Deduct</i>	-137.87	
<i>For Class 54 Rating, Add</i>	197.58	
<i>For Class 55 Rating, Add</i>	298.65	
<i>For Class 56 Rating, Add</i>	398.47	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1234	EA		14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,178.23	529.67
			<i>For Class 52 Rating, Deduct</i>	-151.33	
			<i>For Class 54 Rating, Add</i>	215.98	
			<i>For Class 55 Rating, Add</i>	326.04	
			<i>For Class 56 Rating, Add</i>	434.72	
40 05 19 00-1235	EA		14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,305.21	532.76
			<i>For Class 52 Rating, Deduct</i>	-164.78	
			<i>For Class 54 Rating, Add</i>	234.39	
			<i>For Class 55 Rating, Add</i>	353.43	
			<i>For Class 56 Rating, Add</i>	470.97	
40 05 19 00-1236	EA		14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,432.19	535.83
			<i>For Class 52 Rating, Deduct</i>	-178.24	
			<i>For Class 54 Rating, Add</i>	252.79	
			<i>For Class 55 Rating, Add</i>	380.82	
			<i>For Class 56 Rating, Add</i>	507.22	
40 05 19 00-1237	EA		14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,559.18	538.91
			<i>For Class 52 Rating, Deduct</i>	-191.69	
			<i>For Class 54 Rating, Add</i>	271.19	
			<i>For Class 55 Rating, Add</i>	408.21	
			<i>For Class 56 Rating, Add</i>	543.47	
40 05 19 00-1238	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,686.15	542.00
			<i>For Class 52 Rating, Deduct</i>	-205.14	
			<i>For Class 54 Rating, Add</i>	289.60	
			<i>For Class 55 Rating, Add</i>	435.59	
			<i>For Class 56 Rating, Add</i>	579.72	
40 05 19 00-1239	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,813.14	545.07
			<i>For Class 52 Rating, Deduct</i>	-218.60	
			<i>For Class 54 Rating, Add</i>	308.00	
			<i>For Class 55 Rating, Add</i>	462.98	
			<i>For Class 56 Rating, Add</i>	615.98	
40 05 19 00-1240	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.12	548.15
			<i>For Class 52 Rating, Deduct</i>	-232.05	
			<i>For Class 54 Rating, Add</i>	326.40	
			<i>For Class 55 Rating, Add</i>	490.37	
			<i>For Class 56 Rating, Add</i>	652.23	
40 05 19 00-1241	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,067.10	551.23
			<i>For Class 52 Rating, Deduct</i>	-245.51	
			<i>For Class 54 Rating, Add</i>	344.81	
			<i>For Class 55 Rating, Add</i>	517.76	
			<i>For Class 56 Rating, Add</i>	688.48	
40 05 19 00-1242	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,194.07	554.32
			<i>For Class 52 Rating, Deduct</i>	-258.96	
			<i>For Class 54 Rating, Add</i>	363.21	
			<i>For Class 55 Rating, Add</i>	545.15	
			<i>For Class 56 Rating, Add</i>	724.73	
40 05 19 00-1243	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,321.05	557.38
			<i>For Class 52 Rating, Deduct</i>	-272.42	
			<i>For Class 54 Rating, Add</i>	381.61	
			<i>For Class 55 Rating, Add</i>	572.53	
			<i>For Class 56 Rating, Add</i>	760.98	
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,448.03	560.47
			<i>For Class 52 Rating, Deduct</i>	-285.87	
			<i>For Class 54 Rating, Add</i>	400.02	
			<i>For Class 55 Rating, Add</i>	599.92	
			<i>For Class 56 Rating, Add</i>	797.23	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,575.01	563.56
			<i>For Class 52 Rating, Deduct</i>	-299.33	
			<i>For Class 54 Rating, Add</i>	418.42	
			<i>For Class 55 Rating, Add</i>	627.31	
			<i>For Class 56 Rating, Add</i>	833.48	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,702.00	566.62
			<i>For Class 52 Rating, Deduct</i>	-312.78	
			<i>For Class 54 Rating, Add</i>	436.82	
			<i>For Class 55 Rating, Add</i>	654.70	
			<i>For Class 56 Rating, Add</i>	869.73	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,828.98	569.71
			<i>For Class 52 Rating, Deduct</i>	-326.24	
			<i>For Class 54 Rating, Add</i>	455.23	
			<i>For Class 55 Rating, Add</i>	682.09	
			<i>For Class 56 Rating, Add</i>	905.98	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248 EA 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,955.96	572.79
<i>For Class 52 Rating, Deduct</i>	-339.69	
<i>For Class 54 Rating, Add</i>	473.63	
<i>For Class 55 Rating, Add</i>	709.47	
<i>For Class 56 Rating, Add</i>	942.23	
40 05 19 00-1249 EA 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,082.94	575.87
<i>For Class 52 Rating, Deduct</i>	-353.15	
<i>For Class 54 Rating, Add</i>	492.03	
<i>For Class 55 Rating, Add</i>	736.86	
<i>For Class 56 Rating, Add</i>	978.48	
40 05 19 00-1250 EA 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,209.93	578.94
<i>For Class 52 Rating, Deduct</i>	-366.60	
<i>For Class 54 Rating, Add</i>	510.44	
<i>For Class 55 Rating, Add</i>	764.25	
<i>For Class 56 Rating, Add</i>	1,014.73	
40 05 19 00-1251 EA 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,336.90	582.03
<i>For Class 52 Rating, Deduct</i>	-380.05	
<i>For Class 54 Rating, Add</i>	528.84	
<i>For Class 55 Rating, Add</i>	791.64	
<i>For Class 56 Rating, Add</i>	1,050.98	
40 05 19 00-1252 EA 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,463.89	585.11
<i>For Class 52 Rating, Deduct</i>	-393.51	
<i>For Class 54 Rating, Add</i>	547.24	
<i>For Class 55 Rating, Add</i>	819.03	
<i>For Class 56 Rating, Add</i>	1,087.24	
40 05 19 00-1253 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,590.87	588.19
<i>For Class 52 Rating, Deduct</i>	-406.96	
<i>For Class 54 Rating, Add</i>	565.64	
<i>For Class 55 Rating, Add</i>	846.42	
<i>For Class 56 Rating, Add</i>	1,123.49	
40 05 19 00-1254 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,717.84	591.27
<i>For Class 52 Rating, Deduct</i>	-420.42	
<i>For Class 54 Rating, Add</i>	584.05	
<i>For Class 55 Rating, Add</i>	873.80	
<i>For Class 56 Rating, Add</i>	1,159.74	
40 05 19 00-1255 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,844.82	594.34
<i>For Class 52 Rating, Deduct</i>	-433.87	
<i>For Class 54 Rating, Add</i>	602.45	
<i>For Class 55 Rating, Add</i>	901.19	
<i>For Class 56 Rating, Add</i>	1,195.99	
40 05 19 00-1256 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,971.80	597.43
<i>For Class 52 Rating, Deduct</i>	-447.33	
<i>For Class 54 Rating, Add</i>	620.85	
<i>For Class 55 Rating, Add</i>	928.58	
<i>For Class 56 Rating, Add</i>	1,232.24	
40 05 19 00-1257 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,098.78	600.50
<i>For Class 52 Rating, Deduct</i>	-460.78	
<i>For Class 54 Rating, Add</i>	639.26	
<i>For Class 55 Rating, Add</i>	955.97	
<i>For Class 56 Rating, Add</i>	1,268.49	
40 05 19 00-1258 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,225.76	603.58
<i>For Class 52 Rating, Deduct</i>	-474.24	
<i>For Class 54 Rating, Add</i>	657.66	
<i>For Class 55 Rating, Add</i>	983.36	
<i>For Class 56 Rating, Add</i>	1,304.74	
40 05 19 00-1259 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,352.75	606.66
<i>For Class 52 Rating, Deduct</i>	-487.69	
<i>For Class 54 Rating, Add</i>	676.06	
<i>For Class 55 Rating, Add</i>	1,010.74	
<i>For Class 56 Rating, Add</i>	1,340.99	
40 05 19 00-1260 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,479.72	609.75
<i>For Class 52 Rating, Deduct</i>	-501.15	
<i>For Class 54 Rating, Add</i>	694.47	
<i>For Class 55 Rating, Add</i>	1,038.13	
<i>For Class 56 Rating, Add</i>	1,377.24	
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,606.71	612.81
<i>For Class 52 Rating, Deduct</i>	-514.60	
<i>For Class 54 Rating, Add</i>	712.87	
<i>For Class 55 Rating, Add</i>	1,065.52	
<i>For Class 56 Rating, Add</i>	1,413.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,733.69	615.90
		<i>For Class 52 Rating, Deduct</i>	-528.06	
		<i>For Class 54 Rating, Add</i>	731.27	
		<i>For Class 55 Rating, Add</i>	1,092.91	
		<i>For Class 56 Rating, Add</i>	1,449.74	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,860.66	618.99
		<i>For Class 52 Rating, Deduct</i>	-541.51	
		<i>For Class 54 Rating, Add</i>	749.68	
		<i>For Class 55 Rating, Add</i>	1,120.30	
		<i>For Class 56 Rating, Add</i>	1,485.99	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,987.65	622.05
		<i>For Class 52 Rating, Deduct</i>	-554.96	
		<i>For Class 54 Rating, Add</i>	768.08	
		<i>For Class 55 Rating, Add</i>	1,147.68	
		<i>For Class 56 Rating, Add</i>	1,522.24	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,114.63	625.14
		<i>For Class 52 Rating, Deduct</i>	-568.42	
		<i>For Class 54 Rating, Add</i>	786.48	
		<i>For Class 55 Rating, Add</i>	1,175.07	
		<i>For Class 56 Rating, Add</i>	1,558.49	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,241.61	628.22
		<i>For Class 52 Rating, Deduct</i>	-581.87	
		<i>For Class 54 Rating, Add</i>	804.89	
		<i>For Class 55 Rating, Add</i>	1,202.46	
		<i>For Class 56 Rating, Add</i>	1,594.75	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,368.59	631.30
		<i>For Class 52 Rating, Deduct</i>	-595.33	
		<i>For Class 54 Rating, Add</i>	823.29	
		<i>For Class 55 Rating, Add</i>	1,229.85	
		<i>For Class 56 Rating, Add</i>	1,631.00	
40 05 19 00-1268		16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,944.47	591.27
		<i>For Class 52 Rating, Deduct</i>	-115.35	
		<i>For Class 54 Rating, Add</i>	168.04	
		<i>For Class 55 Rating, Add</i>	255.34	
		<i>For Class 56 Rating, Add</i>	341.59	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.06	594.34
		<i>For Class 52 Rating, Deduct</i>	-131.07	
		<i>For Class 54 Rating, Add</i>	189.54	
		<i>For Class 55 Rating, Add</i>	287.33	
		<i>For Class 56 Rating, Add</i>	383.92	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,239.65	597.43
		<i>For Class 52 Rating, Deduct</i>	-146.79	
		<i>For Class 54 Rating, Add</i>	211.03	
		<i>For Class 55 Rating, Add</i>	319.31	
		<i>For Class 56 Rating, Add</i>	426.25	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,387.24	600.50
		<i>For Class 52 Rating, Deduct</i>	-162.51	
		<i>For Class 54 Rating, Add</i>	232.53	
		<i>For Class 55 Rating, Add</i>	351.29	
		<i>For Class 56 Rating, Add</i>	468.58	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,534.84	603.58
		<i>For Class 52 Rating, Deduct</i>	-178.24	
		<i>For Class 54 Rating, Add</i>	254.02	
		<i>For Class 55 Rating, Add</i>	383.28	
		<i>For Class 56 Rating, Add</i>	510.92	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,682.44	606.66
		<i>For Class 52 Rating, Deduct</i>	-193.96	
		<i>For Class 54 Rating, Add</i>	275.52	
		<i>For Class 55 Rating, Add</i>	415.27	
		<i>For Class 56 Rating, Add</i>	553.25	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,830.03	609.75
		<i>For Class 52 Rating, Deduct</i>	-209.68	
		<i>For Class 54 Rating, Add</i>	297.01	
		<i>For Class 55 Rating, Add</i>	447.25	
		<i>For Class 56 Rating, Add</i>	595.58	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,977.63	612.81
<i>For Class 52 Rating, Deduct</i>	-225.40	
<i>For Class 54 Rating, Add</i>	318.51	
<i>For Class 55 Rating, Add</i>	479.24	
<i>For Class 56 Rating, Add</i>	637.91	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,125.23	615.90
<i>For Class 52 Rating, Deduct</i>	-241.12	
<i>For Class 54 Rating, Add</i>	340.00	
<i>For Class 55 Rating, Add</i>	511.22	
<i>For Class 56 Rating, Add</i>	680.25	
40 05 19 00-1278 EA 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,272.82	618.99
<i>For Class 52 Rating, Deduct</i>	-256.85	
<i>For Class 54 Rating, Add</i>	361.50	
<i>For Class 55 Rating, Add</i>	543.21	
<i>For Class 56 Rating, Add</i>	722.58	
40 05 19 00-1279 EA 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,420.42	622.05
<i>For Class 52 Rating, Deduct</i>	-272.57	
<i>For Class 54 Rating, Add</i>	383.00	
<i>For Class 55 Rating, Add</i>	575.19	
<i>For Class 56 Rating, Add</i>	764.91	
40 05 19 00-1280 EA 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,568.02	625.14
<i>For Class 52 Rating, Deduct</i>	-288.29	
<i>For Class 54 Rating, Add</i>	404.49	
<i>For Class 55 Rating, Add</i>	607.18	
<i>For Class 56 Rating, Add</i>	807.24	
40 05 19 00-1281 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,715.61	628.22
<i>For Class 52 Rating, Deduct</i>	-304.01	
<i>For Class 54 Rating, Add</i>	425.99	
<i>For Class 55 Rating, Add</i>	639.16	
<i>For Class 56 Rating, Add</i>	849.58	
40 05 19 00-1282 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.21	631.30
<i>For Class 52 Rating, Deduct</i>	-319.74	
<i>For Class 54 Rating, Add</i>	447.48	
<i>For Class 55 Rating, Add</i>	671.15	
<i>For Class 56 Rating, Add</i>	891.91	
40 05 19 00-1283 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,010.80	634.37
<i>For Class 52 Rating, Deduct</i>	-335.46	
<i>For Class 54 Rating, Add</i>	468.98	
<i>For Class 55 Rating, Add</i>	703.13	
<i>For Class 56 Rating, Add</i>	934.24	
40 05 19 00-1284 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,158.39	637.46
<i>For Class 52 Rating, Deduct</i>	-351.18	
<i>For Class 54 Rating, Add</i>	490.47	
<i>For Class 55 Rating, Add</i>	735.12	
<i>For Class 56 Rating, Add</i>	976.57	
40 05 19 00-1285 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,305.98	640.54
<i>For Class 52 Rating, Deduct</i>	-366.90	
<i>For Class 54 Rating, Add</i>	511.97	
<i>For Class 55 Rating, Add</i>	767.10	
<i>For Class 56 Rating, Add</i>	1,018.90	
40 05 19 00-1286 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,453.58	643.61
<i>For Class 52 Rating, Deduct</i>	-382.62	
<i>For Class 54 Rating, Add</i>	533.46	
<i>For Class 55 Rating, Add</i>	799.09	
<i>For Class 56 Rating, Add</i>	1,061.23	
40 05 19 00-1287 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,601.17	646.70
<i>For Class 52 Rating, Deduct</i>	-398.35	
<i>For Class 54 Rating, Add</i>	554.96	
<i>For Class 55 Rating, Add</i>	831.07	
<i>For Class 56 Rating, Add</i>	1,103.57	
40 05 19 00-1288 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,748.77	649.77
<i>For Class 52 Rating, Deduct</i>	-414.07	
<i>For Class 54 Rating, Add</i>	576.45	
<i>For Class 55 Rating, Add</i>	863.06	
<i>For Class 56 Rating, Add</i>	1,145.90	
40 05 19 00-1289 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,896.37	652.86
<i>For Class 52 Rating, Deduct</i>	-429.79	
<i>For Class 54 Rating, Add</i>	597.95	
<i>For Class 55 Rating, Add</i>	895.04	
<i>For Class 56 Rating, Add</i>	1,188.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,043.96	655.93
			<i>For Class 52 Rating, Deduct</i>	-445.51	
			<i>For Class 54 Rating, Add</i>	619.44	
			<i>For Class 55 Rating, Add</i>	927.03	
			<i>For Class 56 Rating, Add</i>	1,230.56	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,191.56	659.01
			<i>For Class 52 Rating, Deduct</i>	-461.24	
			<i>For Class 54 Rating, Add</i>	640.94	
			<i>For Class 55 Rating, Add</i>	959.01	
			<i>For Class 56 Rating, Add</i>	1,272.90	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,339.16	662.10
			<i>For Class 52 Rating, Deduct</i>	-476.96	
			<i>For Class 54 Rating, Add</i>	662.44	
			<i>For Class 55 Rating, Add</i>	991.00	
			<i>For Class 56 Rating, Add</i>	1,315.23	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,486.75	665.18
			<i>For Class 52 Rating, Deduct</i>	-492.68	
			<i>For Class 54 Rating, Add</i>	683.93	
			<i>For Class 55 Rating, Add</i>	1,022.99	
			<i>For Class 56 Rating, Add</i>	1,357.56	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,634.35	668.25
			<i>For Class 52 Rating, Deduct</i>	-508.40	
			<i>For Class 54 Rating, Add</i>	705.43	
			<i>For Class 55 Rating, Add</i>	1,054.97	
			<i>For Class 56 Rating, Add</i>	1,399.89	
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,781.95	671.33
			<i>For Class 52 Rating, Deduct</i>	-524.12	
			<i>For Class 54 Rating, Add</i>	726.92	
			<i>For Class 55 Rating, Add</i>	1,086.96	
			<i>For Class 56 Rating, Add</i>	1,442.23	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,929.54	674.42
			<i>For Class 52 Rating, Deduct</i>	-539.85	
			<i>For Class 54 Rating, Add</i>	748.42	
			<i>For Class 55 Rating, Add</i>	1,118.94	
			<i>For Class 56 Rating, Add</i>	1,484.56	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,077.13	677.48
			<i>For Class 52 Rating, Deduct</i>	-555.57	
			<i>For Class 54 Rating, Add</i>	769.91	
			<i>For Class 55 Rating, Add</i>	1,150.93	
			<i>For Class 56 Rating, Add</i>	1,526.89	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,224.73	680.57
			<i>For Class 52 Rating, Deduct</i>	-571.29	
			<i>For Class 54 Rating, Add</i>	791.41	
			<i>For Class 55 Rating, Add</i>	1,182.91	
			<i>For Class 56 Rating, Add</i>	1,569.22	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,372.31	683.65
			<i>For Class 52 Rating, Deduct</i>	-587.01	
			<i>For Class 54 Rating, Add</i>	812.90	
			<i>For Class 55 Rating, Add</i>	1,214.89	
			<i>For Class 56 Rating, Add</i>	1,611.55	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,519.91	686.74
			<i>For Class 52 Rating, Deduct</i>	-602.74	
			<i>For Class 54 Rating, Add</i>	834.40	
			<i>For Class 55 Rating, Add</i>	1,246.88	
			<i>For Class 56 Rating, Add</i>	1,653.88	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,667.51	689.80
			<i>For Class 52 Rating, Deduct</i>	-618.46	
			<i>For Class 54 Rating, Add</i>	855.89	
			<i>For Class 55 Rating, Add</i>	1,278.87	
			<i>For Class 56 Rating, Add</i>	1,696.22	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,815.10	692.89
			<i>For Class 52 Rating, Deduct</i>	-634.18	
			<i>For Class 54 Rating, Add</i>	877.39	
			<i>For Class 55 Rating, Add</i>	1,310.85	
			<i>For Class 56 Rating, Add</i>	1,738.55	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,962.70	695.98
			<i>For Class 52 Rating, Deduct</i>	-649.90	
			<i>For Class 54 Rating, Add</i>	898.88	
			<i>For Class 55 Rating, Add</i>	1,342.84	
			<i>For Class 56 Rating, Add</i>	1,780.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,110.30	699.04
<i>For Class 52 Rating, Deduct</i>	-665.62	
<i>For Class 54 Rating, Add</i>	920.38	
<i>For Class 55 Rating, Add</i>	1,374.82	
<i>For Class 56 Rating, Add</i>	1,823.21	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,257.89	702.13
<i>For Class 52 Rating, Deduct</i>	-681.35	
<i>For Class 54 Rating, Add</i>	941.87	
<i>For Class 55 Rating, Add</i>	1,406.81	
<i>For Class 56 Rating, Add</i>	1,865.55	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,405.49	705.21
<i>For Class 52 Rating, Deduct</i>	-697.07	
<i>For Class 54 Rating, Add</i>	963.37	
<i>For Class 55 Rating, Add</i>	1,438.79	
<i>For Class 56 Rating, Add</i>	1,907.88	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,239.73	666.41
<i>For Class 52 Rating, Deduct</i>	-135.30	
<i>For Class 54 Rating, Add</i>	196.62	
<i>For Class 55 Rating, Add</i>	298.53	
<i>For Class 56 Rating, Add</i>	399.21	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,409.30	669.50
<i>For Class 52 Rating, Deduct</i>	-153.44	
<i>For Class 54 Rating, Add</i>	221.41	
<i>For Class 55 Rating, Add</i>	335.41	
<i>For Class 56 Rating, Add</i>	448.02	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,578.89	672.56
<i>For Class 52 Rating, Deduct</i>	-171.58	
<i>For Class 54 Rating, Add</i>	246.21	
<i>For Class 55 Rating, Add</i>	372.30	
<i>For Class 56 Rating, Add</i>	496.84	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,748.47	675.65
<i>For Class 52 Rating, Deduct</i>	-189.72	
<i>For Class 54 Rating, Add</i>	271.00	
<i>For Class 55 Rating, Add</i>	409.19	
<i>For Class 56 Rating, Add</i>	545.66	
40 05 19 00-1312 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,918.06	678.73
<i>For Class 52 Rating, Deduct</i>	-207.87	
<i>For Class 54 Rating, Add</i>	295.79	
<i>For Class 55 Rating, Add</i>	446.08	
<i>For Class 56 Rating, Add</i>	594.48	
40 05 19 00-1313 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,087.65	681.80
<i>For Class 52 Rating, Deduct</i>	-226.01	
<i>For Class 54 Rating, Add</i>	320.59	
<i>For Class 55 Rating, Add</i>	482.97	
<i>For Class 56 Rating, Add</i>	643.30	
40 05 19 00-1314 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,257.23	684.88
<i>For Class 52 Rating, Deduct</i>	-244.15	
<i>For Class 54 Rating, Add</i>	345.38	
<i>For Class 55 Rating, Add</i>	519.86	
<i>For Class 56 Rating, Add</i>	692.12	
40 05 19 00-1315 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,426.82	687.97
<i>For Class 52 Rating, Deduct</i>	-262.29	
<i>For Class 54 Rating, Add</i>	370.18	
<i>For Class 55 Rating, Add</i>	556.75	
<i>For Class 56 Rating, Add</i>	740.94	
40 05 19 00-1316 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,596.40	691.05
<i>For Class 52 Rating, Deduct</i>	-280.43	
<i>For Class 54 Rating, Add</i>	394.97	
<i>For Class 55 Rating, Add</i>	593.64	
<i>For Class 56 Rating, Add</i>	769.75	
40 05 19 00-1317 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,765.98	694.12
<i>For Class 52 Rating, Deduct</i>	-298.57	
<i>For Class 54 Rating, Add</i>	419.76	
<i>For Class 55 Rating, Add</i>	630.53	
<i>For Class 56 Rating, Add</i>	838.57	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,935.57	697.21
			<i>For Class 52 Rating, Deduct</i>	-316.71	
			<i>For Class 54 Rating, Add</i>	444.56	
			<i>For Class 55 Rating, Add</i>	667.41	
			<i>For Class 56 Rating, Add</i>	887.39	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,105.16	700.28
			<i>For Class 52 Rating, Deduct</i>	-334.85	
			<i>For Class 54 Rating, Add</i>	469.35	
			<i>For Class 55 Rating, Add</i>	704.30	
			<i>For Class 56 Rating, Add</i>	936.21	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,274.74	703.36
			<i>For Class 52 Rating, Deduct</i>	-352.99	
			<i>For Class 54 Rating, Add</i>	494.14	
			<i>For Class 55 Rating, Add</i>	741.19	
			<i>For Class 56 Rating, Add</i>	985.03	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,444.33	706.44
			<i>For Class 52 Rating, Deduct</i>	-371.14	
			<i>For Class 54 Rating, Add</i>	518.94	
			<i>For Class 55 Rating, Add</i>	778.08	
			<i>For Class 56 Rating, Add</i>	1,033.85	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,613.90	709.52
			<i>For Class 52 Rating, Deduct</i>	-389.28	
			<i>For Class 54 Rating, Add</i>	543.73	
			<i>For Class 55 Rating, Add</i>	814.97	
			<i>For Class 56 Rating, Add</i>	1,082.67	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,783.48	712.60
			<i>For Class 52 Rating, Deduct</i>	-407.42	
			<i>For Class 54 Rating, Add</i>	568.52	
			<i>For Class 55 Rating, Add</i>	851.86	
			<i>For Class 56 Rating, Add</i>	1,131.49	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,953.07	715.68
			<i>For Class 52 Rating, Deduct</i>	-425.56	
			<i>For Class 54 Rating, Add</i>	593.32	
			<i>For Class 55 Rating, Add</i>	888.75	
			<i>For Class 56 Rating, Add</i>	1,180.31	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,122.66	718.75
			<i>For Class 52 Rating, Deduct</i>	-443.70	
			<i>For Class 54 Rating, Add</i>	618.11	
			<i>For Class 55 Rating, Add</i>	925.64	
			<i>For Class 56 Rating, Add</i>	1,229.13	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,292.24	721.84
			<i>For Class 52 Rating, Deduct</i>	-461.84	
			<i>For Class 54 Rating, Add</i>	642.91	
			<i>For Class 55 Rating, Add</i>	962.53	
			<i>For Class 56 Rating, Add</i>	1,277.95	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,461.83	724.91
			<i>For Class 52 Rating, Deduct</i>	-479.98	
			<i>For Class 54 Rating, Add</i>	667.70	
			<i>For Class 55 Rating, Add</i>	999.41	
			<i>For Class 56 Rating, Add</i>	1,326.76	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,631.41	727.99
			<i>For Class 52 Rating, Deduct</i>	-498.12	
			<i>For Class 54 Rating, Add</i>	692.49	
			<i>For Class 55 Rating, Add</i>	1,036.30	
			<i>For Class 56 Rating, Add</i>	1,375.58	
40 05 19 00-1329	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,800.99	731.08
			<i>For Class 52 Rating, Deduct</i>	-516.26	
			<i>For Class 54 Rating, Add</i>	717.29	
			<i>For Class 55 Rating, Add</i>	1,073.19	
			<i>For Class 56 Rating, Add</i>	1,424.40	
40 05 19 00-1330	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,970.58	734.16
			<i>For Class 52 Rating, Deduct</i>	-534.40	
			<i>For Class 54 Rating, Add</i>	742.08	
			<i>For Class 55 Rating, Add</i>	1,110.08	
			<i>For Class 56 Rating, Add</i>	1,473.22	
40 05 19 00-1331	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,140.17	737.23
			<i>For Class 52 Rating, Deduct</i>	-552.55	
			<i>For Class 54 Rating, Add</i>	766.88	
			<i>For Class 55 Rating, Add</i>	1,146.97	
			<i>For Class 56 Rating, Add</i>	1,522.04	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,309.75	740.31
<i>For Class 52 Rating, Deduct</i>	-570.69	
<i>For Class 54 Rating, Add</i>	791.67	
<i>For Class 55 Rating, Add</i>	1,183.86	
<i>For Class 56 Rating, Add</i>	1,570.86	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,479.34	743.40
<i>For Class 52 Rating, Deduct</i>	-588.83	
<i>For Class 54 Rating, Add</i>	816.46	
<i>For Class 55 Rating, Add</i>	1,220.75	
<i>For Class 56 Rating, Add</i>	1,619.68	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,648.92	746.48
<i>For Class 52 Rating, Deduct</i>	-606.97	
<i>For Class 54 Rating, Add</i>	841.26	
<i>For Class 55 Rating, Add</i>	1,257.63	
<i>For Class 56 Rating, Add</i>	1,668.49	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,818.49	749.55
<i>For Class 52 Rating, Deduct</i>	-625.11	
<i>For Class 54 Rating, Add</i>	866.05	
<i>For Class 55 Rating, Add</i>	1,294.52	
<i>For Class 56 Rating, Add</i>	1,717.31	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,988.08	752.64
<i>For Class 52 Rating, Deduct</i>	-643.25	
<i>For Class 54 Rating, Add</i>	890.84	
<i>For Class 55 Rating, Add</i>	1,331.41	
<i>For Class 56 Rating, Add</i>	1,766.13	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,157.67	755.71
<i>For Class 52 Rating, Deduct</i>	-661.39	
<i>For Class 54 Rating, Add</i>	915.64	
<i>For Class 55 Rating, Add</i>	1,368.30	
<i>For Class 56 Rating, Add</i>	1,814.95	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,327.25	758.79
<i>For Class 52 Rating, Deduct</i>	-679.53	
<i>For Class 54 Rating, Add</i>	940.43	
<i>For Class 55 Rating, Add</i>	1,405.19	
<i>For Class 56 Rating, Add</i>	1,863.77	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,496.84	761.87
<i>For Class 52 Rating, Deduct</i>	-697.67	
<i>For Class 54 Rating, Add</i>	965.23	
<i>For Class 55 Rating, Add</i>	1,442.08	
<i>For Class 56 Rating, Add</i>	1,912.59	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,666.43	764.95
<i>For Class 52 Rating, Deduct</i>	-715.82	
<i>For Class 54 Rating, Add</i>	990.02	
<i>For Class 55 Rating, Add</i>	1,478.97	
<i>For Class 56 Rating, Add</i>	1,961.41	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,836.00	768.04
<i>For Class 52 Rating, Deduct</i>	-733.96	
<i>For Class 54 Rating, Add</i>	1,014.81	
<i>For Class 55 Rating, Add</i>	1,515.86	
<i>For Class 56 Rating, Add</i>	2,010.23	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,005.59	771.11
<i>For Class 52 Rating, Deduct</i>	-752.10	
<i>For Class 54 Rating, Add</i>	1,039.61	
<i>For Class 55 Rating, Add</i>	1,552.74	
<i>For Class 56 Rating, Add</i>	2,059.05	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,175.18	774.19
<i>For Class 52 Rating, Deduct</i>	-770.24	
<i>For Class 54 Rating, Add</i>	1,064.40	
<i>For Class 55 Rating, Add</i>	1,589.63	
<i>For Class 56 Rating, Add</i>	2,107.87	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,344.76	777.27
<i>For Class 52 Rating, Deduct</i>	-788.38	
<i>For Class 54 Rating, Add</i>	1,089.19	
<i>For Class 55 Rating, Add</i>	1,626.52	
<i>For Class 56 Rating, Add</i>	2,156.69	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,514.35	780.35
<i>For Class 52 Rating, Deduct</i>	-806.52	
<i>For Class 54 Rating, Add</i>	1,113.99	
<i>For Class 55 Rating, Add</i>	1,663.41	
<i>For Class 56 Rating, Add</i>	2,205.50	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346			20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,601.01	760.65
			For Class 52 Rating, Deduct	-159.34	
			For Class 54 Rating, Add	231.11	
			For Class 55 Rating, Add	350.68	
			For Class 56 Rating, Add	468.81	
40 05 19 00-1348	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.34	763.72
			For Class 52 Rating, Deduct	-180.20	
			For Class 54 Rating, Add	259.61	
			For Class 55 Rating, Add	393.09	
			For Class 56 Rating, Add	524.92	
40 05 19 00-1349	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,989.66	766.80
			For Class 52 Rating, Deduct	-201.06	
			For Class 54 Rating, Add	288.12	
			For Class 55 Rating, Add	435.49	
			For Class 56 Rating, Add	581.04	
40 05 19 00-1350	EA		20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,183.98	769.88
			For Class 52 Rating, Deduct	-221.93	
			For Class 54 Rating, Add	316.62	
			For Class 55 Rating, Add	477.90	
			For Class 56 Rating, Add	637.16	
40 05 19 00-1351	EA		20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,378.31	772.96
			For Class 52 Rating, Deduct	-242.79	
			For Class 54 Rating, Add	345.13	
			For Class 55 Rating, Add	520.30	
			For Class 56 Rating, Add	693.27	
40 05 19 00-1352	EA		20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,572.62	776.03
			For Class 52 Rating, Deduct	-263.65	
			For Class 54 Rating, Add	373.63	
			For Class 55 Rating, Add	562.71	
			For Class 56 Rating, Add	749.39	
40 05 19 00-1353	EA		20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,766.95	779.12
			For Class 52 Rating, Deduct	-284.51	
			For Class 54 Rating, Add	402.14	
			For Class 55 Rating, Add	605.11	
			For Class 56 Rating, Add	805.51	
40 05 19 00-1354	EA		20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,961.28	782.19
			For Class 52 Rating, Deduct	-305.37	
			For Class 54 Rating, Add	430.64	
			For Class 55 Rating, Add	647.52	
			For Class 56 Rating, Add	861.62	
40 05 19 00-1355	EA		20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,155.59	785.28
			For Class 52 Rating, Deduct	-326.24	
			For Class 54 Rating, Add	459.14	
			For Class 55 Rating, Add	689.92	
			For Class 56 Rating, Add	917.74	
40 05 19 00-1356	EA		20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,349.92	788.35
			For Class 52 Rating, Deduct	-347.10	
			For Class 54 Rating, Add	487.65	
			For Class 55 Rating, Add	732.33	
			For Class 56 Rating, Add	973.86	
40 05 19 00-1357	EA		20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,544.24	791.43
			For Class 52 Rating, Deduct	-367.96	
			For Class 54 Rating, Add	516.15	
			For Class 55 Rating, Add	774.73	
			For Class 56 Rating, Add	1,029.97	
40 05 19 00-1358	EA		20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,738.56	794.52
			For Class 52 Rating, Deduct	-388.82	
			For Class 54 Rating, Add	544.66	
			For Class 55 Rating, Add	817.14	
			For Class 56 Rating, Add	1,086.09	
40 05 19 00-1359	EA		20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,932.89	797.59
			For Class 52 Rating, Deduct	-409.69	
			For Class 54 Rating, Add	573.16	
			For Class 55 Rating, Add	859.55	
			For Class 56 Rating, Add	1,142.21	
40 05 19 00-1360	EA		20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,127.20	800.67
			For Class 52 Rating, Deduct	-430.55	
			For Class 54 Rating, Add	601.67	
			For Class 55 Rating, Add	901.95	
			For Class 56 Rating, Add	1,198.32	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361 EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,321.52	803.75
<i>For Class 52 Rating, Deduct</i>	-451.41	
<i>For Class 54 Rating, Add</i>	630.17	
<i>For Class 55 Rating, Add</i>	944.36	
<i>For Class 56 Rating, Add</i>	1,254.44	
40 05 19 00-1362 EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,515.85	806.84
<i>For Class 52 Rating, Deduct</i>	-472.27	
<i>For Class 54 Rating, Add</i>	658.68	
<i>For Class 55 Rating, Add</i>	986.76	
<i>For Class 56 Rating, Add</i>	1,310.56	
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,710.17	809.90
<i>For Class 52 Rating, Deduct</i>	-493.13	
<i>For Class 54 Rating, Add</i>	687.18	
<i>For Class 55 Rating, Add</i>	1,029.17	
<i>For Class 56 Rating, Add</i>	1,366.67	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,904.49	812.99
<i>For Class 52 Rating, Deduct</i>	-514.00	
<i>For Class 54 Rating, Add</i>	715.69	
<i>For Class 55 Rating, Add</i>	1,071.57	
<i>For Class 56 Rating, Add</i>	1,422.79	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,098.81	816.08
<i>For Class 52 Rating, Deduct</i>	-534.86	
<i>For Class 54 Rating, Add</i>	744.19	
<i>For Class 55 Rating, Add</i>	1,113.98	
<i>For Class 56 Rating, Add</i>	1,478.90	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,293.14	819.15
<i>For Class 52 Rating, Deduct</i>	-555.72	
<i>For Class 54 Rating, Add</i>	772.69	
<i>For Class 55 Rating, Add</i>	1,156.38	
<i>For Class 56 Rating, Add</i>	1,535.02	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,487.46	822.23
<i>For Class 52 Rating, Deduct</i>	-576.58	
<i>For Class 54 Rating, Add</i>	801.20	
<i>For Class 55 Rating, Add</i>	1,198.79	
<i>For Class 56 Rating, Add</i>	1,591.14	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,681.78	825.31
<i>For Class 52 Rating, Deduct</i>	-597.44	
<i>For Class 54 Rating, Add</i>	829.70	
<i>For Class 55 Rating, Add</i>	1,241.19	
<i>For Class 56 Rating, Add</i>	1,647.25	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,876.11	828.39
<i>For Class 52 Rating, Deduct</i>	-618.31	
<i>For Class 54 Rating, Add</i>	858.21	
<i>For Class 55 Rating, Add</i>	1,283.60	
<i>For Class 56 Rating, Add</i>	1,703.37	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,070.42	831.46
<i>For Class 52 Rating, Deduct</i>	-639.17	
<i>For Class 54 Rating, Add</i>	886.71	
<i>For Class 55 Rating, Add</i>	1,326.00	
<i>For Class 56 Rating, Add</i>	1,759.49	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,264.75	834.55
<i>For Class 52 Rating, Deduct</i>	-660.03	
<i>For Class 54 Rating, Add</i>	915.22	
<i>For Class 55 Rating, Add</i>	1,368.41	
<i>For Class 56 Rating, Add</i>	1,815.60	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,459.08	837.63
<i>For Class 52 Rating, Deduct</i>	-680.89	
<i>For Class 54 Rating, Add</i>	943.72	
<i>For Class 55 Rating, Add</i>	1,410.82	
<i>For Class 56 Rating, Add</i>	1,871.72	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,653.38	840.71
<i>For Class 52 Rating, Deduct</i>	-701.75	
<i>For Class 54 Rating, Add</i>	972.22	
<i>For Class 55 Rating, Add</i>	1,453.22	
<i>For Class 56 Rating, Add</i>	1,927.84	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,847.71	843.79
<i>For Class 52 Rating, Deduct</i>	-722.62	
<i>For Class 54 Rating, Add</i>	1,000.73	
<i>For Class 55 Rating, Add</i>	1,495.63	
<i>For Class 56 Rating, Add</i>	1,983.95	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,042.04	846.86
			<i>For Class 52 Rating, Deduct</i>	-743.48	
			<i>For Class 54 Rating, Add</i>	1,029.23	
			<i>For Class 55 Rating, Add</i>	1,538.03	
			<i>For Class 56 Rating, Add</i>	2,040.07	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,236.35	849.95
			<i>For Class 52 Rating, Deduct</i>	-764.34	
			<i>For Class 54 Rating, Add</i>	1,057.74	
			<i>For Class 55 Rating, Add</i>	1,580.44	
			<i>For Class 56 Rating, Add</i>	2,096.19	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,430.68	853.02
			<i>For Class 52 Rating, Deduct</i>	-785.20	
			<i>For Class 54 Rating, Add</i>	1,086.24	
			<i>For Class 55 Rating, Add</i>	1,622.84	
			<i>For Class 56 Rating, Add</i>	2,152.30	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,625.00	856.10
			<i>For Class 52 Rating, Deduct</i>	-806.07	
			<i>For Class 54 Rating, Add</i>	1,114.75	
			<i>For Class 55 Rating, Add</i>	1,665.25	
			<i>For Class 56 Rating, Add</i>	2,208.42	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,819.32	859.18
			<i>For Class 52 Rating, Deduct</i>	-826.93	
			<i>For Class 54 Rating, Add</i>	1,143.25	
			<i>For Class 55 Rating, Add</i>	1,707.65	
			<i>For Class 56 Rating, Add</i>	2,264.54	
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,013.65	862.27
			<i>For Class 52 Rating, Deduct</i>	-847.79	
			<i>For Class 54 Rating, Add</i>	1,171.76	
			<i>For Class 55 Rating, Add</i>	1,750.06	
			<i>For Class 56 Rating, Add</i>	2,320.65	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,207.97	865.33
			<i>For Class 52 Rating, Deduct</i>	-868.65	
			<i>For Class 54 Rating, Add</i>	1,200.26	
			<i>For Class 55 Rating, Add</i>	1,792.46	
			<i>For Class 56 Rating, Add</i>	2,376.77	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,402.29	868.42
			<i>For Class 52 Rating, Deduct</i>	-889.52	
			<i>For Class 54 Rating, Add</i>	1,228.76	
			<i>For Class 55 Rating, Add</i>	1,834.87	
			<i>For Class 56 Rating, Add</i>	2,432.89	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,596.62	871.51
			<i>For Class 52 Rating, Deduct</i>	-910.38	
			<i>For Class 54 Rating, Add</i>	1,257.27	
			<i>For Class 55 Rating, Add</i>	1,877.27	
			<i>For Class 56 Rating, Add</i>	2,489.00	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,790.94	874.57
			<i>For Class 52 Rating, Deduct</i>	-931.24	
			<i>For Class 54 Rating, Add</i>	1,285.77	
			<i>For Class 55 Rating, Add</i>	1,919.68	
			<i>For Class 56 Rating, Add</i>	2,545.12	
40 05 19 00-1385			24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,171.06	899.22
			<i>For Class 52 Rating, Deduct</i>	-198.95	
			<i>For Class 54 Rating, Add</i>	287.64	
			<i>For Class 55 Rating, Add</i>	436.02	
			<i>For Class 56 Rating, Add</i>	582.59	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,410.73	902.29
			<i>For Class 52 Rating, Deduct</i>	-224.80	
			<i>For Class 54 Rating, Add</i>	322.95	
			<i>For Class 55 Rating, Add</i>	488.54	
			<i>For Class 56 Rating, Add</i>	652.08	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,650.40	905.38
			<i>For Class 52 Rating, Deduct</i>	-250.65	
			<i>For Class 54 Rating, Add</i>	358.25	
			<i>For Class 55 Rating, Add</i>	541.05	
			<i>For Class 56 Rating, Add</i>	721.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389 EA 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,890.08	908.45
<i>For Class 52 Rating, Deduct</i>	-276.50	
<i>For Class 54 Rating, Add</i>	393.56	
<i>For Class 55 Rating, Add</i>	593.57	
<i>For Class 56 Rating, Add</i>	791.07	
40 05 19 00-1390 EA 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,129.76	911.53
<i>For Class 52 Rating, Deduct</i>	-302.35	
<i>For Class 54 Rating, Add</i>	428.87	
<i>For Class 55 Rating, Add</i>	646.09	
<i>For Class 56 Rating, Add</i>	860.57	
40 05 19 00-1391 EA 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,369.43	914.62
<i>For Class 52 Rating, Deduct</i>	-328.20	
<i>For Class 54 Rating, Add</i>	464.18	
<i>For Class 55 Rating, Add</i>	698.61	
<i>For Class 56 Rating, Add</i>	930.06	
40 05 19 00-1392 EA 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,609.11	917.70
<i>For Class 52 Rating, Deduct</i>	-354.05	
<i>For Class 54 Rating, Add</i>	499.48	
<i>For Class 55 Rating, Add</i>	751.13	
<i>For Class 56 Rating, Add</i>	999.56	
40 05 19 00-1393 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,848.79	920.77
<i>For Class 52 Rating, Deduct</i>	-379.90	
<i>For Class 54 Rating, Add</i>	534.79	
<i>For Class 55 Rating, Add</i>	803.65	
<i>For Class 56 Rating, Add</i>	1,069.06	
40 05 19 00-1394 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,088.44	923.85
<i>For Class 52 Rating, Deduct</i>	-405.75	
<i>For Class 54 Rating, Add</i>	570.10	
<i>For Class 55 Rating, Add</i>	856.17	
<i>For Class 56 Rating, Add</i>	1,138.55	
40 05 19 00-1395 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,328.12	926.94
<i>For Class 52 Rating, Deduct</i>	-431.60	
<i>For Class 54 Rating, Add</i>	605.41	
<i>For Class 55 Rating, Add</i>	908.69	
<i>For Class 56 Rating, Add</i>	1,208.05	
40 05 19 00-1396 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,567.80	930.00
<i>For Class 52 Rating, Deduct</i>	-457.46	
<i>For Class 54 Rating, Add</i>	640.71	
<i>For Class 55 Rating, Add</i>	961.21	
<i>For Class 56 Rating, Add</i>	1,277.54	
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,807.47	933.09
<i>For Class 52 Rating, Deduct</i>	-483.31	
<i>For Class 54 Rating, Add</i>	676.02	
<i>For Class 55 Rating, Add</i>	1,013.73	
<i>For Class 56 Rating, Add</i>	1,347.04	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,047.15	936.17
<i>For Class 52 Rating, Deduct</i>	-509.16	
<i>For Class 54 Rating, Add</i>	711.33	
<i>For Class 55 Rating, Add</i>	1,066.24	
<i>For Class 56 Rating, Add</i>	1,416.53	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,286.83	939.26
<i>For Class 52 Rating, Deduct</i>	-535.01	
<i>For Class 54 Rating, Add</i>	746.64	
<i>For Class 55 Rating, Add</i>	1,118.76	
<i>For Class 56 Rating, Add</i>	1,486.03	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,526.50	942.32
<i>For Class 52 Rating, Deduct</i>	-560.86	
<i>For Class 54 Rating, Add</i>	781.94	
<i>For Class 55 Rating, Add</i>	1,171.28	
<i>For Class 56 Rating, Add</i>	1,555.53	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,766.18	945.41
<i>For Class 52 Rating, Deduct</i>	-586.71	
<i>For Class 54 Rating, Add</i>	817.25	
<i>For Class 55 Rating, Add</i>	1,223.80	
<i>For Class 56 Rating, Add</i>	1,625.02	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,005.85	948.49
<i>For Class 52 Rating, Deduct</i>	-612.56	
<i>For Class 54 Rating, Add</i>	852.56	
<i>For Class 55 Rating, Add</i>	1,276.32	
<i>For Class 56 Rating, Add</i>	1,694.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1403	EA		24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,245.52	951.56
			<i>For Class 52 Rating, Deduct</i>	-638.41	
			<i>For Class 54 Rating, Add</i>	887.86	
			<i>For Class 55 Rating, Add</i>	1,328.84	
			<i>For Class 56 Rating, Add</i>	1,764.01	
40 05 19 00-1404	EA		24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,485.20	954.65
			<i>For Class 52 Rating, Deduct</i>	-664.26	
			<i>For Class 54 Rating, Add</i>	923.17	
			<i>For Class 55 Rating, Add</i>	1,381.36	
			<i>For Class 56 Rating, Add</i>	1,833.51	
40 05 19 00-1405	EA		24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,724.88	957.72
			<i>For Class 52 Rating, Deduct</i>	-690.11	
			<i>For Class 54 Rating, Add</i>	958.48	
			<i>For Class 55 Rating, Add</i>	1,433.88	
			<i>For Class 56 Rating, Add</i>	1,903.00	
40 05 19 00-1406	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,964.55	960.81
			<i>For Class 52 Rating, Deduct</i>	-715.97	
			<i>For Class 54 Rating, Add</i>	993.79	
			<i>For Class 55 Rating, Add</i>	1,486.40	
			<i>For Class 56 Rating, Add</i>	1,972.50	
40 05 19 00-1407	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,204.22	963.88
			<i>For Class 52 Rating, Deduct</i>	-741.82	
			<i>For Class 54 Rating, Add</i>	1,029.09	
			<i>For Class 55 Rating, Add</i>	1,538.92	
			<i>For Class 56 Rating, Add</i>	2,041.99	
40 05 19 00-1408	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,443.90	966.96
			<i>For Class 52 Rating, Deduct</i>	-767.67	
			<i>For Class 54 Rating, Add</i>	1,064.40	
			<i>For Class 55 Rating, Add</i>	1,591.43	
			<i>For Class 56 Rating, Add</i>	2,111.49	
40 05 19 00-1409	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,683.57	970.05
			<i>For Class 52 Rating, Deduct</i>	-793.52	
			<i>For Class 54 Rating, Add</i>	1,099.71	
			<i>For Class 55 Rating, Add</i>	1,643.95	
			<i>For Class 56 Rating, Add</i>	2,180.99	
40 05 19 00-1410	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,923.24	973.13
			<i>For Class 52 Rating, Deduct</i>	-819.37	
			<i>For Class 54 Rating, Add</i>	1,135.01	
			<i>For Class 55 Rating, Add</i>	1,696.47	
			<i>For Class 56 Rating, Add</i>	2,250.48	
40 05 19 00-1411	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,162.92	976.20
			<i>For Class 52 Rating, Deduct</i>	-845.22	
			<i>For Class 54 Rating, Add</i>	1,170.32	
			<i>For Class 55 Rating, Add</i>	1,748.99	
			<i>For Class 56 Rating, Add</i>	2,319.97	
40 05 19 00-1412	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,402.59	979.28
			<i>For Class 52 Rating, Deduct</i>	-871.07	
			<i>For Class 54 Rating, Add</i>	1,205.63	
			<i>For Class 55 Rating, Add</i>	1,801.51	
			<i>For Class 56 Rating, Add</i>	2,389.47	
40 05 19 00-1413	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,642.27	982.37
			<i>For Class 52 Rating, Deduct</i>	-896.92	
			<i>For Class 54 Rating, Add</i>	1,240.94	
			<i>For Class 55 Rating, Add</i>	1,854.03	
			<i>For Class 56 Rating, Add</i>	2,458.97	
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,881.95	985.43
			<i>For Class 52 Rating, Deduct</i>	-922.77	
			<i>For Class 54 Rating, Add</i>	1,276.24	
			<i>For Class 55 Rating, Add</i>	1,906.55	
			<i>For Class 56 Rating, Add</i>	2,528.46	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,200.95	1,040.87
			<i>For Class 52 Rating, Deduct</i>	-948.62	
			<i>For Class 54 Rating, Add</i>	1,312.50	
			<i>For Class 55 Rating, Add</i>	1,960.97	
			<i>For Class 56 Rating, Add</i>	2,600.81	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,440.61	1,043.95
			<i>For Class 52 Rating, Deduct</i>	-974.48	
			<i>For Class 54 Rating, Add</i>	1,347.81	
			<i>For Class 55 Rating, Add</i>	2,013.49	
			<i>For Class 56 Rating, Add</i>	2,670.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417 EA 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,680.29	1,047.04
<i>For Class 52 Rating, Deduct</i>	-1,000.33	
<i>For Class 54 Rating, Add</i>	1,383.12	
<i>For Class 55 Rating, Add</i>	2,066.01	
<i>For Class 56 Rating, Add</i>	2,739.81	
40 05 19 00-1418 EA 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,919.96	1,050.12
<i>For Class 52 Rating, Deduct</i>	-1,026.18	
<i>For Class 54 Rating, Add</i>	1,418.42	
<i>For Class 55 Rating, Add</i>	2,118.53	
<i>For Class 56 Rating, Add</i>	2,809.30	
40 05 19 00-1419 EA 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,159.63	1,053.19
<i>For Class 52 Rating, Deduct</i>	-1,052.03	
<i>For Class 54 Rating, Add</i>	1,453.73	
<i>For Class 55 Rating, Add</i>	2,171.05	
<i>For Class 56 Rating, Add</i>	2,878.79	
40 05 19 00-1420 EA 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,399.31	1,056.27
<i>For Class 52 Rating, Deduct</i>	-1,077.88	
<i>For Class 54 Rating, Add</i>	1,489.04	
<i>For Class 55 Rating, Add</i>	2,223.56	
<i>For Class 56 Rating, Add</i>	2,948.29	
40 05 19 00-1421 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,638.99	1,059.36
<i>For Class 52 Rating, Deduct</i>	-1,103.73	
<i>For Class 54 Rating, Add</i>	1,524.35	
<i>For Class 55 Rating, Add</i>	2,276.08	
<i>For Class 56 Rating, Add</i>	3,017.79	
40 05 19 00-1422 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,878.66	1,062.42
<i>For Class 52 Rating, Deduct</i>	-1,129.58	
<i>For Class 54 Rating, Add</i>	1,559.65	
<i>For Class 55 Rating, Add</i>	2,328.60	
<i>For Class 56 Rating, Add</i>	3,087.28	
40 05 19 00-1423 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,118.34	1,065.51
<i>For Class 52 Rating, Deduct</i>	-1,155.43	
<i>For Class 54 Rating, Add</i>	1,594.96	
<i>For Class 55 Rating, Add</i>	2,381.12	
<i>For Class 56 Rating, Add</i>	3,156.78	
40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,780.95	1,268.76
<i>For Class 52 Rating, Deduct</i>	-314.44	
<i>For Class 54 Rating, Add</i>	451.86	
<i>For Class 55 Rating, Add</i>	683.60	
<i>For Class 56 Rating, Add</i>	912.49	
40 05 19 00-1426 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,125.07	1,271.83
<i>For Class 52 Rating, Deduct</i>	-351.78	
<i>For Class 54 Rating, Add</i>	502.83	
<i>For Class 55 Rating, Add</i>	759.41	
<i>For Class 56 Rating, Add</i>	1,012.79	
40 05 19 00-1427 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,469.19	1,274.92
<i>For Class 52 Rating, Deduct</i>	-389.13	
<i>For Class 54 Rating, Add</i>	553.81	
<i>For Class 55 Rating, Add</i>	835.22	
<i>For Class 56 Rating, Add</i>	1,113.10	
40 05 19 00-1428 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,813.32	1,278.00
<i>For Class 52 Rating, Deduct</i>	-426.47	
<i>For Class 54 Rating, Add</i>	604.78	
<i>For Class 55 Rating, Add</i>	911.03	
<i>For Class 56 Rating, Add</i>	1,213.41	
40 05 19 00-1429 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,157.44	1,281.08
<i>For Class 52 Rating, Deduct</i>	-463.81	
<i>For Class 54 Rating, Add</i>	655.75	
<i>For Class 55 Rating, Add</i>	986.84	
<i>For Class 56 Rating, Add</i>	1,313.72	
40 05 19 00-1430 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,501.56	1,284.15
<i>For Class 52 Rating, Deduct</i>	-501.15	
<i>For Class 54 Rating, Add</i>	706.73	
<i>For Class 55 Rating, Add</i>	1,062.66	
<i>For Class 56 Rating, Add</i>	1,414.03	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,845.69	1,287.23
			<i>For Class 52 Rating, Deduct</i>	-538.49	
			<i>For Class 54 Rating, Add</i>	757.70	
			<i>For Class 55 Rating, Add</i>	1,138.47	
			<i>For Class 56 Rating, Add</i>	1,514.34	
40 05 19 00-1432	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,189.80	1,290.32
			<i>For Class 52 Rating, Deduct</i>	-575.83	
			<i>For Class 54 Rating, Add</i>	808.68	
			<i>For Class 55 Rating, Add</i>	1,214.28	
			<i>For Class 56 Rating, Add</i>	1,614.64	
40 05 19 00-1433	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,533.92	1,293.38
			<i>For Class 52 Rating, Deduct</i>	-613.17	
			<i>For Class 54 Rating, Add</i>	859.65	
			<i>For Class 55 Rating, Add</i>	1,290.09	
			<i>For Class 56 Rating, Add</i>	1,714.95	
40 05 19 00-1434	EA		30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,878.05	1,296.47
			<i>For Class 52 Rating, Deduct</i>	-650.51	
			<i>For Class 54 Rating, Add</i>	910.63	
			<i>For Class 55 Rating, Add</i>	1,365.90	
			<i>For Class 56 Rating, Add</i>	1,815.26	
40 05 19 00-1435	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,222.18	1,299.56
			<i>For Class 52 Rating, Deduct</i>	-687.85	
			<i>For Class 54 Rating, Add</i>	961.60	
			<i>For Class 55 Rating, Add</i>	1,441.71	
			<i>For Class 56 Rating, Add</i>	1,915.57	
40 05 19 00-1436	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,566.29	1,302.64
			<i>For Class 52 Rating, Deduct</i>	-725.19	
			<i>For Class 54 Rating, Add</i>	1,012.58	
			<i>For Class 55 Rating, Add</i>	1,517.52	
			<i>For Class 56 Rating, Add</i>	2,015.87	
40 05 19 00-1437	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,910.42	1,305.71
			<i>For Class 52 Rating, Deduct</i>	-762.53	
			<i>For Class 54 Rating, Add</i>	1,063.55	
			<i>For Class 55 Rating, Add</i>	1,593.33	
			<i>For Class 56 Rating, Add</i>	2,116.18	
40 05 19 00-1438	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,254.55	1,308.79
			<i>For Class 52 Rating, Deduct</i>	-799.87	
			<i>For Class 54 Rating, Add</i>	1,114.53	
			<i>For Class 55 Rating, Add</i>	1,669.14	
			<i>For Class 56 Rating, Add</i>	2,216.49	
40 05 19 00-1439	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,598.66	1,311.88
			<i>For Class 52 Rating, Deduct</i>	-837.21	
			<i>For Class 54 Rating, Add</i>	1,165.50	
			<i>For Class 55 Rating, Add</i>	1,744.95	
			<i>For Class 56 Rating, Add</i>	2,316.80	
40 05 19 00-1440	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,942.79	1,314.94
			<i>For Class 52 Rating, Deduct</i>	-874.55	
			<i>For Class 54 Rating, Add</i>	1,216.47	
			<i>For Class 55 Rating, Add</i>	1,820.76	
			<i>For Class 56 Rating, Add</i>	2,417.10	
40 05 19 00-1441	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,286.92	1,318.03
			<i>For Class 52 Rating, Deduct</i>	-911.89	
			<i>For Class 54 Rating, Add</i>	1,267.45	
			<i>For Class 55 Rating, Add</i>	1,896.58	
			<i>For Class 56 Rating, Add</i>	2,517.41	
40 05 19 00-1442	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,631.04	1,321.12
			<i>For Class 52 Rating, Deduct</i>	-949.23	
			<i>For Class 54 Rating, Add</i>	1,318.42	
			<i>For Class 55 Rating, Add</i>	1,972.39	
			<i>For Class 56 Rating, Add</i>	2,617.72	
40 05 19 00-1443	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,975.16	1,324.19
			<i>For Class 52 Rating, Deduct</i>	-986.57	
			<i>For Class 54 Rating, Add</i>	1,369.40	
			<i>For Class 55 Rating, Add</i>	2,048.20	
			<i>For Class 56 Rating, Add</i>	2,718.03	
40 05 19 00-1444	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,319.29	1,327.27
			<i>For Class 52 Rating, Deduct</i>	-1,023.91	
			<i>For Class 54 Rating, Add</i>	1,420.37	
			<i>For Class 55 Rating, Add</i>	2,124.01	
			<i>For Class 56 Rating, Add</i>	2,818.34	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,663.40	1,330.35
<i>For Class 52 Rating, Deduct</i>	-1,061.25	
<i>For Class 54 Rating, Add</i>	1,471.35	
<i>For Class 55 Rating, Add</i>	2,199.82	
<i>For Class 56 Rating, Add</i>	2,918.64	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,007.52	1,333.43
<i>For Class 52 Rating, Deduct</i>	-1,098.59	
<i>For Class 54 Rating, Add</i>	1,522.32	
<i>For Class 55 Rating, Add</i>	2,275.63	
<i>For Class 56 Rating, Add</i>	3,018.95	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,351.65	1,336.50
<i>For Class 52 Rating, Deduct</i>	-1,135.93	
<i>For Class 54 Rating, Add</i>	1,573.30	
<i>For Class 55 Rating, Add</i>	2,351.44	
<i>For Class 56 Rating, Add</i>	3,119.26	
40 05 19 00-1448 EA 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,695.77	1,339.59
<i>For Class 52 Rating, Deduct</i>	-1,173.27	
<i>For Class 54 Rating, Add</i>	1,624.27	
<i>For Class 55 Rating, Add</i>	2,427.25	
<i>For Class 56 Rating, Add</i>	3,219.57	
40 05 19 00-1449 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,039.89	1,342.66
<i>For Class 52 Rating, Deduct</i>	-1,210.61	
<i>For Class 54 Rating, Add</i>	1,675.24	
<i>For Class 55 Rating, Add</i>	2,503.06	
<i>For Class 56 Rating, Add</i>	3,319.87	
40 05 19 00-1450 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,384.02	1,345.75
<i>For Class 52 Rating, Deduct</i>	-1,247.95	
<i>For Class 54 Rating, Add</i>	1,726.22	
<i>For Class 55 Rating, Add</i>	2,578.87	
<i>For Class 56 Rating, Add</i>	3,420.18	
40 05 19 00-1451 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,728.14	1,348.82
<i>For Class 52 Rating, Deduct</i>	-1,265.29	
<i>For Class 54 Rating, Add</i>	1,777.19	
<i>For Class 55 Rating, Add</i>	2,654.68	
<i>For Class 56 Rating, Add</i>	3,520.49	
40 05 19 00-1452 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,072.27	1,351.90
<i>For Class 52 Rating, Deduct</i>	-1,322.63	
<i>For Class 54 Rating, Add</i>	1,828.17	
<i>For Class 55 Rating, Add</i>	2,730.50	
<i>For Class 56 Rating, Add</i>	3,620.80	
40 05 19 00-1453 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,416.39	1,354.99
<i>For Class 52 Rating, Deduct</i>	-1,359.97	
<i>For Class 54 Rating, Add</i>	1,879.14	
<i>For Class 55 Rating, Add</i>	2,806.31	
<i>For Class 56 Rating, Add</i>	3,721.11	
40 05 19 00-1454 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,760.51	1,358.07
<i>For Class 52 Rating, Deduct</i>	-1,397.31	
<i>For Class 54 Rating, Add</i>	1,930.12	
<i>For Class 55 Rating, Add</i>	2,882.12	
<i>For Class 56 Rating, Add</i>	3,821.41	
40 05 19 00-1455 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,104.64	1,361.14
<i>For Class 52 Rating, Deduct</i>	-1,434.65	
<i>For Class 54 Rating, Add</i>	1,981.09	
<i>For Class 55 Rating, Add</i>	2,957.93	
<i>For Class 56 Rating, Add</i>	3,921.72	
40 05 19 00-1456 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,448.76	1,364.22
<i>For Class 52 Rating, Deduct</i>	-1,471.99	
<i>For Class 54 Rating, Add</i>	2,032.07	
<i>For Class 55 Rating, Add</i>	3,033.74	
<i>For Class 56 Rating, Add</i>	4,022.03	
40 05 19 00-1457 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,792.88	1,367.31
<i>For Class 52 Rating, Deduct</i>	-1,509.33	
<i>For Class 54 Rating, Add</i>	2,083.04	
<i>For Class 55 Rating, Add</i>	3,109.55	
<i>For Class 56 Rating, Add</i>	4,122.34	
40 05 19 00-1458 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,137.01	1,370.37
<i>For Class 52 Rating, Deduct</i>	-1,546.67	
<i>For Class 54 Rating, Add</i>	2,134.02	
<i>For Class 55 Rating, Add</i>	3,185.36	
<i>For Class 56 Rating, Add</i>	4,222.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,481.12	1,373.46
			<i>For Class 52 Rating, Deduct</i>	-1,584.01	
			<i>For Class 54 Rating, Add</i>	2,184.99	
			<i>For Class 55 Rating, Add</i>	3,261.17	
			<i>For Class 56 Rating, Add</i>	4,322.95	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,825.24	1,376.55
			<i>For Class 52 Rating, Deduct</i>	-1,621.35	
			<i>For Class 54 Rating, Add</i>	2,235.96	
			<i>For Class 55 Rating, Add</i>	3,336.98	
			<i>For Class 56 Rating, Add</i>	4,423.26	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,169.37	1,379.62
			<i>For Class 52 Rating, Deduct</i>	-1,658.69	
			<i>For Class 54 Rating, Add</i>	2,286.94	
			<i>For Class 55 Rating, Add</i>	3,412.79	
			<i>For Class 56 Rating, Add</i>	4,523.57	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,513.50	1,382.70
			<i>For Class 52 Rating, Deduct</i>	-1,696.04	
			<i>For Class 54 Rating, Add</i>	2,337.92	
			<i>For Class 55 Rating, Add</i>	3,488.61	
			<i>For Class 56 Rating, Add</i>	4,623.88	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,506.35	1,607.51
			<i>For Class 52 Rating, Deduct</i>	-447.78	
			<i>For Class 54 Rating, Add</i>	639.84	
			<i>For Class 55 Rating, Add</i>	966.23	
			<i>For Class 56 Rating, Add</i>	1,288.55	
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,972.79	1,610.59
			<i>For Class 52 Rating, Deduct</i>	-498.58	
			<i>For Class 54 Rating, Add</i>	709.16	
			<i>For Class 55 Rating, Add</i>	1,069.32	
			<i>For Class 56 Rating, Add</i>	1,424.94	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,439.23	1,613.66
			<i>For Class 52 Rating, Deduct</i>	-549.37	
			<i>For Class 54 Rating, Add</i>	778.48	
			<i>For Class 55 Rating, Add</i>	1,172.40	
			<i>For Class 56 Rating, Add</i>	1,561.33	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,905.65	1,616.74
			<i>For Class 52 Rating, Deduct</i>	-600.17	
			<i>For Class 54 Rating, Add</i>	847.80	
			<i>For Class 55 Rating, Add</i>	1,275.49	
			<i>For Class 56 Rating, Add</i>	1,697.72	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,372.09	1,619.83
			<i>For Class 52 Rating, Deduct</i>	-650.96	
			<i>For Class 54 Rating, Add</i>	917.12	
			<i>For Class 55 Rating, Add</i>	1,378.58	
			<i>For Class 56 Rating, Add</i>	1,834.11	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,838.53	1,622.89
			<i>For Class 52 Rating, Deduct</i>	-701.75	
			<i>For Class 54 Rating, Add</i>	986.45	
			<i>For Class 55 Rating, Add</i>	1,481.66	
			<i>For Class 56 Rating, Add</i>	1,970.50	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,304.96	1,625.98
			<i>For Class 52 Rating, Deduct</i>	-752.55	
			<i>For Class 54 Rating, Add</i>	1,055.77	
			<i>For Class 55 Rating, Add</i>	1,584.75	
			<i>For Class 56 Rating, Add</i>	2,106.89	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,771.41	1,629.07
			<i>For Class 52 Rating, Deduct</i>	-803.35	
			<i>For Class 54 Rating, Add</i>	1,125.09	
			<i>For Class 55 Rating, Add</i>	1,687.84	
			<i>For Class 56 Rating, Add</i>	2,243.28	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,237.85	1,632.14
			<i>For Class 52 Rating, Deduct</i>	-854.14	
			<i>For Class 54 Rating, Add</i>	1,194.41	
			<i>For Class 55 Rating, Add</i>	1,790.93	
			<i>For Class 56 Rating, Add</i>	2,379.67	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,704.28	1,635.22
<i>For Class 52 Rating, Deduct</i>	-904.93	
<i>For Class 54 Rating, Add</i>	1,263.73	
<i>For Class 55 Rating, Add</i>	1,894.01	
<i>For Class 56 Rating, Add</i>	2,516.06	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,170.72	1,638.30
<i>For Class 52 Rating, Deduct</i>	-955.73	
<i>For Class 54 Rating, Add</i>	1,333.05	
<i>For Class 55 Rating, Add</i>	1,997.10	
<i>For Class 56 Rating, Add</i>	2,652.45	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,637.16	1,641.38
<i>For Class 52 Rating, Deduct</i>	-1,006.52	
<i>For Class 54 Rating, Add</i>	1,402.38	
<i>For Class 55 Rating, Add</i>	2,100.19	
<i>For Class 56 Rating, Add</i>	2,788.84	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,103.59	1,644.45
<i>For Class 52 Rating, Deduct</i>	-1,057.32	
<i>For Class 54 Rating, Add</i>	1,471.70	
<i>For Class 55 Rating, Add</i>	2,203.27	
<i>For Class 56 Rating, Add</i>	2,925.23	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,570.04	1,647.54
<i>For Class 52 Rating, Deduct</i>	-1,108.11	
<i>For Class 54 Rating, Add</i>	1,541.02	
<i>For Class 55 Rating, Add</i>	2,306.36	
<i>For Class 56 Rating, Add</i>	3,061.63	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,036.48	1,650.61
<i>For Class 52 Rating, Deduct</i>	-1,158.91	
<i>For Class 54 Rating, Add</i>	1,610.34	
<i>For Class 55 Rating, Add</i>	2,409.45	
<i>For Class 56 Rating, Add</i>	3,198.02	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,502.91	1,653.70
<i>For Class 52 Rating, Deduct</i>	-1,209.70	
<i>For Class 54 Rating, Add</i>	1,679.66	
<i>For Class 55 Rating, Add</i>	2,512.53	
<i>For Class 56 Rating, Add</i>	3,334.41	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,969.35	1,656.77
<i>For Class 52 Rating, Deduct</i>	-1,260.50	
<i>For Class 54 Rating, Add</i>	1,748.99	
<i>For Class 55 Rating, Add</i>	2,615.62	
<i>For Class 56 Rating, Add</i>	3,470.80	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,435.78	1,659.85
<i>For Class 52 Rating, Deduct</i>	-1,311.29	
<i>For Class 54 Rating, Add</i>	1,818.31	
<i>For Class 55 Rating, Add</i>	2,718.71	
<i>For Class 56 Rating, Add</i>	3,607.19	
40 05 19 00-1482 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,902.21	1,662.94
<i>For Class 52 Rating, Deduct</i>	-1,362.09	
<i>For Class 54 Rating, Add</i>	1,887.63	
<i>For Class 55 Rating, Add</i>	2,821.79	
<i>For Class 56 Rating, Add</i>	3,743.58	
40 05 19 00-1483 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,368.65	1,666.02
<i>For Class 52 Rating, Deduct</i>	-1,412.88	
<i>For Class 54 Rating, Add</i>	1,956.95	
<i>For Class 55 Rating, Add</i>	2,924.88	
<i>For Class 56 Rating, Add</i>	3,879.97	
40 05 19 00-1484 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,835.10	1,669.09
<i>For Class 52 Rating, Deduct</i>	-1,463.68	
<i>For Class 54 Rating, Add</i>	2,026.27	
<i>For Class 55 Rating, Add</i>	3,027.97	
<i>For Class 56 Rating, Add</i>	4,016.36	
40 05 19 00-1485 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,301.53	1,672.17
<i>For Class 52 Rating, Deduct</i>	-1,514.47	
<i>For Class 54 Rating, Add</i>	2,095.59	
<i>For Class 55 Rating, Add</i>	3,131.06	
<i>For Class 56 Rating, Add</i>	4,152.75	
40 05 19 00-1486 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,767.97	1,675.26
<i>For Class 52 Rating, Deduct</i>	-1,565.27	
<i>For Class 54 Rating, Add</i>	2,164.92	
<i>For Class 55 Rating, Add</i>	3,234.14	
<i>For Class 56 Rating, Add</i>	4,289.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,234.41	1,678.32
			<i>For Class 52 Rating, Deduct</i>	-1,616.06	
			<i>For Class 54 Rating, Add</i>	2,234.24	
			<i>For Class 55 Rating, Add</i>	3,337.23	
			<i>For Class 56 Rating, Add</i>	4,425.53	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,700.84	1,681.41
			<i>For Class 52 Rating, Deduct</i>	-1,666.86	
			<i>For Class 54 Rating, Add</i>	2,303.56	
			<i>For Class 55 Rating, Add</i>	3,440.32	
			<i>For Class 56 Rating, Add</i>	4,561.92	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,167.28	1,684.50
			<i>For Class 52 Rating, Deduct</i>	-1,717.65	
			<i>For Class 54 Rating, Add</i>	2,372.88	
			<i>For Class 55 Rating, Add</i>	3,543.40	
			<i>For Class 56 Rating, Add</i>	4,698.31	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,633.73	1,687.57
			<i>For Class 52 Rating, Deduct</i>	-1,768.45	
			<i>For Class 54 Rating, Add</i>	2,442.20	
			<i>For Class 55 Rating, Add</i>	3,646.49	
			<i>For Class 56 Rating, Add</i>	4,834.71	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,100.16	1,690.65
			<i>For Class 52 Rating, Deduct</i>	-1,819.24	
			<i>For Class 54 Rating, Add</i>	2,511.52	
			<i>For Class 55 Rating, Add</i>	3,749.58	
			<i>For Class 56 Rating, Add</i>	4,971.10	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,566.60	1,693.73
			<i>For Class 52 Rating, Deduct</i>	-1,870.04	
			<i>For Class 54 Rating, Add</i>	2,580.85	
			<i>For Class 55 Rating, Add</i>	3,852.67	
			<i>For Class 56 Rating, Add</i>	5,107.49	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,033.04	1,696.81
			<i>For Class 52 Rating, Deduct</i>	-1,920.83	
			<i>For Class 54 Rating, Add</i>	2,650.17	
			<i>For Class 55 Rating, Add</i>	3,955.75	
			<i>For Class 56 Rating, Add</i>	5,243.88	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,499.46	1,699.88
			<i>For Class 52 Rating, Deduct</i>	-1,971.63	
			<i>For Class 54 Rating, Add</i>	2,719.49	
			<i>For Class 55 Rating, Add</i>	4,058.84	
			<i>For Class 56 Rating, Add</i>	5,380.27	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,965.90	1,702.97
			<i>For Class 52 Rating, Deduct</i>	-2,022.42	
			<i>For Class 54 Rating, Add</i>	2,788.81	
			<i>For Class 55 Rating, Add</i>	4,161.93	
			<i>For Class 56 Rating, Add</i>	5,516.66	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,432.34	1,706.05
			<i>For Class 52 Rating, Deduct</i>	-2,073.22	
			<i>For Class 54 Rating, Add</i>	2,858.13	
			<i>For Class 55 Rating, Add</i>	4,265.01	
			<i>For Class 56 Rating, Add</i>	5,653.05	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,898.78	1,709.13
			<i>For Class 52 Rating, Deduct</i>	-2,124.01	
			<i>For Class 54 Rating, Add</i>	2,927.45	
			<i>For Class 55 Rating, Add</i>	4,368.10	
			<i>For Class 56 Rating, Add</i>	5,789.44	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,365.22	1,712.21
			<i>For Class 52 Rating, Deduct</i>	-2,174.81	
			<i>For Class 54 Rating, Add</i>	2,996.78	
			<i>For Class 55 Rating, Add</i>	4,471.19	
			<i>For Class 56 Rating, Add</i>	5,925.83	
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,831.66	1,715.28
			<i>For Class 52 Rating, Deduct</i>	-2,225.60	
			<i>For Class 54 Rating, Add</i>	3,066.10	
			<i>For Class 55 Rating, Add</i>	4,574.28	
			<i>For Class 56 Rating, Add</i>	6,062.22	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,298.09	1,718.37
			<i>For Class 52 Rating, Deduct</i>	-2,276.40	
			<i>For Class 54 Rating, Add</i>	3,135.42	
			<i>For Class 55 Rating, Add</i>	4,677.36	
			<i>For Class 56 Rating, Add</i>	6,198.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,764.53	1,721.44
<i>For Class 52 Rating, Deduct</i>	-2,327.19	
<i>For Class 54 Rating, Add</i>	3,204.74	
<i>For Class 55 Rating, Add</i>	4,780.45	
<i>For Class 56 Rating, Add</i>	6,335.00	
40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,527.59	2,026.32
<i>For Class 52 Rating, Deduct</i>	-600.32	
<i>For Class 54 Rating, Add</i>	855.46	
<i>For Class 55 Rating, Add</i>	1,290.69	
<i>For Class 56 Rating, Add</i>	1,720.47	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,222.17	2,029.39
<i>For Class 52 Rating, Deduct</i>	-676.21	
<i>For Class 54 Rating, Add</i>	959.00	
<i>For Class 55 Rating, Add</i>	1,444.65	
<i>For Class 56 Rating, Add</i>	1,924.16	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,908.51	2,032.47
<i>For Class 52 Rating, Deduct</i>	-751.19	
<i>For Class 54 Rating, Add</i>	1,061.30	
<i>For Class 55 Rating, Add</i>	1,596.78	
<i>For Class 56 Rating, Add</i>	2,125.42	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,601.70	2,035.56
<i>For Class 52 Rating, Deduct</i>	-826.93	
<i>For Class 54 Rating, Add</i>	1,164.64	
<i>For Class 55 Rating, Add</i>	1,750.43	
<i>For Class 56 Rating, Add</i>	2,328.70	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,288.03	2,038.64
<i>For Class 52 Rating, Deduct</i>	-901.91	
<i>For Class 54 Rating, Add</i>	1,266.94	
<i>For Class 55 Rating, Add</i>	1,902.55	
<i>For Class 56 Rating, Add</i>	2,529.96	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,982.61	2,041.71
<i>For Class 52 Rating, Deduct</i>	-977.80	
<i>For Class 54 Rating, Add</i>	1,370.49	
<i>For Class 55 Rating, Add</i>	2,056.51	
<i>For Class 56 Rating, Add</i>	2,733.65	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,667.56	2,044.79
<i>For Class 52 Rating, Deduct</i>	-1,052.63	
<i>For Class 54 Rating, Add</i>	1,472.59	
<i>For Class 55 Rating, Add</i>	2,208.33	
<i>For Class 56 Rating, Add</i>	2,934.50	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,362.14	2,047.88
<i>For Class 52 Rating, Deduct</i>	-1,128.52	
<i>For Class 54 Rating, Add</i>	1,576.13	
<i>For Class 55 Rating, Add</i>	2,362.29	
<i>For Class 56 Rating, Add</i>	3,138.20	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,048.47	2,050.95
<i>For Class 52 Rating, Deduct</i>	-1,203.51	
<i>For Class 54 Rating, Add</i>	1,678.43	
<i>For Class 55 Rating, Add</i>	2,514.41	
<i>For Class 56 Rating, Add</i>	3,339.45	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,741.67	2,054.03
<i>For Class 52 Rating, Deduct</i>	-1,279.25	
<i>For Class 54 Rating, Add</i>	1,781.77	
<i>For Class 55 Rating, Add</i>	2,668.07	
<i>For Class 56 Rating, Add</i>	3,542.74	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,428.00	2,057.11
<i>For Class 52 Rating, Deduct</i>	-1,354.23	
<i>For Class 54 Rating, Add</i>	1,884.08	
<i>For Class 55 Rating, Add</i>	2,820.19	
<i>For Class 56 Rating, Add</i>	3,744.00	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,121.20	2,060.19
<i>For Class 52 Rating, Deduct</i>	-1,429.97	
<i>For Class 54 Rating, Add</i>	1,987.41	
<i>For Class 55 Rating, Add</i>	2,973.85	
<i>For Class 56 Rating, Add</i>	3,947.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,807.53	2,063.26
			<i>For Class 52 Rating, Deduct</i>	-1,504.95	
			<i>For Class 54 Rating, Add</i>	2,089.72	
			<i>For Class 55 Rating, Add</i>	3,125.97	
			<i>For Class 56 Rating, Add</i>	4,148.54	
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,495.23	2,066.35
			<i>For Class 52 Rating, Deduct</i>	-1,580.08	
			<i>For Class 54 Rating, Add</i>	2,192.23	
			<i>For Class 55 Rating, Add</i>	3,278.40	
			<i>For Class 56 Rating, Add</i>	4,350.21	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,187.05	2,069.43
			<i>For Class 52 Rating, Deduct</i>	-1,655.67	
			<i>For Class 54 Rating, Add</i>	2,295.36	
			<i>For Class 55 Rating, Add</i>	3,431.75	
			<i>For Class 56 Rating, Add</i>	4,553.09	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,873.38	2,072.51
			<i>For Class 52 Rating, Deduct</i>	-1,730.65	
			<i>For Class 54 Rating, Add</i>	2,397.66	
			<i>For Class 55 Rating, Add</i>	3,583.87	
			<i>For Class 56 Rating, Add</i>	4,754.35	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,567.95	2,075.59
			<i>For Class 52 Rating, Deduct</i>	-1,806.54	
			<i>For Class 54 Rating, Add</i>	2,501.21	
			<i>For Class 55 Rating, Add</i>	3,737.83	
			<i>For Class 56 Rating, Add</i>	4,958.03	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,254.29	2,078.66
			<i>For Class 52 Rating, Deduct</i>	-1,881.53	
			<i>For Class 54 Rating, Add</i>	2,603.51	
			<i>For Class 55 Rating, Add</i>	3,889.96	
			<i>For Class 56 Rating, Add</i>	5,159.30	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,947.48	2,081.75
			<i>For Class 52 Rating, Deduct</i>	-1,957.27	
			<i>For Class 54 Rating, Add</i>	2,706.85	
			<i>For Class 55 Rating, Add</i>	4,043.61	
			<i>For Class 56 Rating, Add</i>	5,362.58	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,633.81	2,084.82
			<i>For Class 52 Rating, Deduct</i>	-2,032.25	
			<i>For Class 54 Rating, Add</i>	2,809.15	
			<i>For Class 55 Rating, Add</i>	4,195.73	
			<i>For Class 56 Rating, Add</i>	5,563.84	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,328.39	2,087.90
			<i>For Class 52 Rating, Deduct</i>	-2,108.14	
			<i>For Class 54 Rating, Add</i>	2,912.70	
			<i>For Class 55 Rating, Add</i>	4,349.69	
			<i>For Class 56 Rating, Add</i>	5,767.53	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,014.72	2,090.99
			<i>For Class 52 Rating, Deduct</i>	-2,183.12	
			<i>For Class 54 Rating, Add</i>	3,015.00	
			<i>For Class 55 Rating, Add</i>	4,501.82	
			<i>For Class 56 Rating, Add</i>	5,968.79	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,707.92	2,094.07
			<i>For Class 52 Rating, Deduct</i>	-2,258.86	
			<i>For Class 54 Rating, Add</i>	3,118.34	
			<i>For Class 55 Rating, Add</i>	4,655.47	
			<i>For Class 56 Rating, Add</i>	6,172.07	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,394.25	2,097.14
			<i>For Class 52 Rating, Deduct</i>	-2,333.84	
			<i>For Class 54 Rating, Add</i>	3,220.64	
			<i>For Class 55 Rating, Add</i>	4,807.60	
			<i>For Class 56 Rating, Add</i>	6,373.33	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,088.82	2,100.22
			<i>For Class 52 Rating, Deduct</i>	-2,409.73	
			<i>For Class 54 Rating, Add</i>	3,324.18	
			<i>For Class 55 Rating, Add</i>	4,961.56	
			<i>For Class 56 Rating, Add</i>	6,577.02	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,775.15	2,103.31
			<i>For Class 52 Rating, Deduct</i>	-2,484.72	
			<i>For Class 54 Rating, Add</i>	3,426.49	
			<i>For Class 55 Rating, Add</i>	5,113.68	
			<i>For Class 56 Rating, Add</i>	6,778.28	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529 EA 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,466.98	2,106.37
<i>For Class 52 Rating, Deduct</i>	-2,560.30	
<i>For Class 54 Rating, Add</i>	3,529.62	
<i>For Class 55 Rating, Add</i>	5,267.03	
<i>For Class 56 Rating, Add</i>	6,981.16	
40 05 19 00-1530 EA 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,154.67	2,109.46
<i>For Class 52 Rating, Deduct</i>	-2,635.44	
<i>For Class 54 Rating, Add</i>	3,632.13	
<i>For Class 55 Rating, Add</i>	5,419.46	
<i>For Class 56 Rating, Add</i>	7,182.82	
40 05 19 00-1531 EA 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,703.57	2,112.55
<i>For Class 52 Rating, Deduct</i>	-2,695.30	
<i>For Class 54 Rating, Add</i>	3,713.82	
<i>For Class 55 Rating, Add</i>	5,540.93	
<i>For Class 56 Rating, Add</i>	7,343.54	
40 05 19 00-1532 EA 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,534.21	2,115.63
<i>For Class 52 Rating, Deduct</i>	-2,786.16	
<i>For Class 54 Rating, Add</i>	3,837.77	
<i>For Class 55 Rating, Add</i>	5,725.24	
<i>For Class 56 Rating, Add</i>	7,587.37	
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,220.53	2,118.70
<i>For Class 52 Rating, Deduct</i>	-2,861.14	
<i>For Class 54 Rating, Add</i>	3,940.08	
<i>For Class 55 Rating, Add</i>	5,877.36	
<i>For Class 56 Rating, Add</i>	7,788.63	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,913.73	2,121.78
<i>For Class 52 Rating, Deduct</i>	-2,936.88	
<i>For Class 54 Rating, Add</i>	4,043.41	
<i>For Class 55 Rating, Add</i>	6,031.01	
<i>For Class 56 Rating, Add</i>	7,991.91	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,600.07	2,124.87
<i>For Class 52 Rating, Deduct</i>	-3,011.86	
<i>For Class 54 Rating, Add</i>	4,145.72	
<i>For Class 55 Rating, Add</i>	6,183.14	
<i>For Class 56 Rating, Add</i>	8,193.17	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,294.64	2,127.94
<i>For Class 52 Rating, Deduct</i>	-3,087.75	
<i>For Class 54 Rating, Add</i>	4,249.26	
<i>For Class 55 Rating, Add</i>	6,337.10	
<i>For Class 56 Rating, Add</i>	8,396.86	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,979.59	2,131.02
<i>For Class 52 Rating, Deduct</i>	-3,162.58	
<i>For Class 54 Rating, Add</i>	4,351.36	
<i>For Class 55 Rating, Add</i>	6,488.91	
<i>For Class 56 Rating, Add</i>	8,597.71	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,674.17	2,134.10
<i>For Class 52 Rating, Deduct</i>	-3,238.47	
<i>For Class 54 Rating, Add</i>	4,454.90	
<i>For Class 55 Rating, Add</i>	6,642.88	
<i>For Class 56 Rating, Add</i>	8,801.41	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,360.50	2,137.18
<i>For Class 52 Rating, Deduct</i>	-3,313.46	
<i>For Class 54 Rating, Add</i>	4,557.21	
<i>For Class 55 Rating, Add</i>	6,795.00	
<i>For Class 56 Rating, Add</i>	9,002.67	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,053.70	2,140.25
<i>For Class 52 Rating, Deduct</i>	-3,389.20	
<i>For Class 54 Rating, Add</i>	4,660.55	
<i>For Class 55 Rating, Add</i>	6,948.65	
<i>For Class 56 Rating, Add</i>	9,205.95	
40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,955.71	2,546.74
<i>For Class 52 Rating, Deduct</i>	-780.67	
<i>For Class 54 Rating, Add</i>	1,110.85	
<i>For Class 55 Rating, Add</i>	1,675.24	
<i>For Class 56 Rating, Add</i>	2,232.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1543	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,965.01	2,549.83
			<i>For Class 52 Rating, Deduct</i>	-891.18	
			<i>For Class 54 Rating, Add</i>	1,261.60	
			<i>For Class 55 Rating, Add</i>	1,899.38	
			<i>For Class 56 Rating, Add</i>	2,529.06	
40 05 19 00-1544	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,972.92	2,552.92
			<i>For Class 52 Rating, Deduct</i>	-1,001.54	
			<i>For Class 54 Rating, Add</i>	1,412.15	
			<i>For Class 55 Rating, Add</i>	2,123.22	
			<i>For Class 56 Rating, Add</i>	2,825.19	
40 05 19 00-1545	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,989.09	2,555.99
			<i>For Class 52 Rating, Deduct</i>	-1,112.80	
			<i>For Class 54 Rating, Add</i>	1,563.93	
			<i>For Class 55 Rating, Add</i>	2,348.90	
			<i>For Class 56 Rating, Add</i>	3,123.75	
40 05 19 00-1546	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,998.38	2,559.07
			<i>For Class 52 Rating, Deduct</i>	-1,223.31	
			<i>For Class 54 Rating, Add</i>	1,714.68	
			<i>For Class 55 Rating, Add</i>	2,573.04	
			<i>For Class 56 Rating, Add</i>	3,420.28	
40 05 19 00-1547	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,007.67	2,562.15
			<i>For Class 52 Rating, Deduct</i>	-1,333.82	
			<i>For Class 54 Rating, Add</i>	1,865.43	
			<i>For Class 55 Rating, Add</i>	2,797.18	
			<i>For Class 56 Rating, Add</i>	3,716.81	
40 05 19 00-1548	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,022.46	2,565.23
			<i>For Class 52 Rating, Deduct</i>	-1,444.93	
			<i>For Class 54 Rating, Add</i>	2,017.00	
			<i>For Class 55 Rating, Add</i>	3,022.55	
			<i>For Class 56 Rating, Add</i>	4,014.97	
40 05 19 00-1549	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,033.13	2,568.30
			<i>For Class 52 Rating, Deduct</i>	-1,555.59	
			<i>For Class 54 Rating, Add</i>	2,167.96	
			<i>For Class 55 Rating, Add</i>	3,247.00	
			<i>For Class 56 Rating, Add</i>	4,311.91	
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,041.05	2,571.39
			<i>For Class 52 Rating, Deduct</i>	-1,665.95	
			<i>For Class 54 Rating, Add</i>	2,318.50	
			<i>For Class 55 Rating, Add</i>	3,470.84	
			<i>For Class 56 Rating, Add</i>	4,608.04	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,057.22	2,574.47
			<i>For Class 52 Rating, Deduct</i>	-1,777.22	
			<i>For Class 54 Rating, Add</i>	2,470.29	
			<i>For Class 55 Rating, Add</i>	3,696.52	
			<i>For Class 56 Rating, Add</i>	4,906.60	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,066.51	2,577.55
			<i>For Class 52 Rating, Deduct</i>	-1,887.72	
			<i>For Class 54 Rating, Add</i>	2,621.03	
			<i>For Class 55 Rating, Add</i>	3,920.66	
			<i>For Class 56 Rating, Add</i>	5,203.13	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,082.67	2,580.63
			<i>For Class 52 Rating, Deduct</i>	-1,998.99	
			<i>For Class 54 Rating, Add</i>	2,772.81	
			<i>For Class 55 Rating, Add</i>	4,146.34	
			<i>For Class 56 Rating, Add</i>	5,501.69	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,090.60	2,583.70
			<i>For Class 52 Rating, Deduct</i>	-2,109.35	
			<i>For Class 54 Rating, Add</i>	2,923.36	
			<i>For Class 55 Rating, Add</i>	4,370.18	
			<i>For Class 56 Rating, Add</i>	5,797.82	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,099.89	2,586.79
			<i>For Class 52 Rating, Deduct</i>	-2,219.86	
			<i>For Class 54 Rating, Add</i>	3,074.11	
			<i>For Class 55 Rating, Add</i>	4,594.32	
			<i>For Class 56 Rating, Add</i>	6,094.35	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,116.05	2,589.88
			<i>For Class 52 Rating, Deduct</i>	-2,331.12	
			<i>For Class 54 Rating, Add</i>	3,225.89	
			<i>For Class 55 Rating, Add</i>	4,820.00	
			<i>For Class 56 Rating, Add</i>	6,392.91	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557 EA 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,125.35	2,592.94
<i>For Class 52 Rating, Deduct</i>	-2,441.63	
<i>For Class 54 Rating, Add</i>	3,376.64	
<i>For Class 55 Rating, Add</i>	5,044.14	
<i>For Class 56 Rating, Add</i>	6,689.44	
40 05 19 00-1558 EA 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,133.28	2,596.03
<i>For Class 52 Rating, Deduct</i>	-2,551.99	
<i>For Class 54 Rating, Add</i>	3,527.19	
<i>For Class 55 Rating, Add</i>	5,267.98	
<i>For Class 56 Rating, Add</i>	6,985.57	
40 05 19 00-1559 EA 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,149.43	2,599.11
<i>For Class 52 Rating, Deduct</i>	-2,663.25	
<i>For Class 54 Rating, Add</i>	3,678.97	
<i>For Class 55 Rating, Add</i>	5,493.65	
<i>For Class 56 Rating, Add</i>	7,284.13	
40 05 19 00-1560 EA 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,158.72	2,602.18
<i>For Class 52 Rating, Deduct</i>	-2,773.76	
<i>For Class 54 Rating, Add</i>	3,829.72	
<i>For Class 55 Rating, Add</i>	5,717.80	
<i>For Class 56 Rating, Add</i>	7,580.66	
40 05 19 00-1561 EA 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,166.65	2,605.26
<i>For Class 52 Rating, Deduct</i>	-2,884.12	
<i>For Class 54 Rating, Add</i>	3,980.26	
<i>For Class 55 Rating, Add</i>	5,941.64	
<i>For Class 56 Rating, Add</i>	7,876.79	
40 05 19 00-1562 EA 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,182.81	2,608.35
<i>For Class 52 Rating, Deduct</i>	-2,995.39	
<i>For Class 54 Rating, Add</i>	4,132.04	
<i>For Class 55 Rating, Add</i>	6,167.31	
<i>For Class 56 Rating, Add</i>	8,175.35	
40 05 19 00-1563 EA 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,193.48	2,611.42
<i>For Class 52 Rating, Deduct</i>	-3,106.05	
<i>For Class 54 Rating, Add</i>	4,283.00	
<i>For Class 55 Rating, Add</i>	6,391.76	
<i>For Class 56 Rating, Add</i>	8,472.29	
40 05 19 00-1564 EA 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,201.40	2,614.50
<i>For Class 52 Rating, Deduct</i>	-3,216.40	
<i>For Class 54 Rating, Add</i>	4,433.54	
<i>For Class 55 Rating, Add</i>	6,615.60	
<i>For Class 56 Rating, Add</i>	8,768.42	
40 05 19 00-1565 EA 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,217.56	2,617.58
<i>For Class 52 Rating, Deduct</i>	-3,327.67	
<i>For Class 54 Rating, Add</i>	4,585.32	
<i>For Class 55 Rating, Add</i>	6,841.28	
<i>For Class 56 Rating, Add</i>	9,066.98	
40 05 19 00-1566 EA 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,226.86	2,620.66
<i>For Class 52 Rating, Deduct</i>	-3,438.18	
<i>For Class 54 Rating, Add</i>	4,736.07	
<i>For Class 55 Rating, Add</i>	7,065.42	
<i>For Class 56 Rating, Add</i>	9,363.51	
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,234.78	2,623.74
<i>For Class 52 Rating, Deduct</i>	-3,548.54	
<i>For Class 54 Rating, Add</i>	4,886.62	
<i>For Class 55 Rating, Add</i>	7,289.26	
<i>For Class 56 Rating, Add</i>	9,659.64	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,250.94	2,626.82
<i>For Class 52 Rating, Deduct</i>	-3,659.80	
<i>For Class 54 Rating, Add</i>	5,038.40	
<i>For Class 55 Rating, Add</i>	7,514.93	
<i>For Class 56 Rating, Add</i>	9,958.20	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,260.24	2,629.90
<i>For Class 52 Rating, Deduct</i>	-3,770.31	
<i>For Class 54 Rating, Add</i>	5,189.15	
<i>For Class 55 Rating, Add</i>	7,739.08	
<i>For Class 56 Rating, Add</i>	10,254.73	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,145.85	2,632.98
<i>For Class 52 Rating, Deduct</i>	-3,867.21	
<i>For Class 54 Rating, Add</i>	5,321.34	
<i>For Class 55 Rating, Add</i>	7,935.64	
<i>For Class 56 Rating, Add</i>	10,514.78	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,285.70	2,636.06
			<i>For Class 52 Rating, Deduct</i>	-3,992.08	
			<i>For Class 54 Rating, Add</i>	5,491.68	
			<i>For Class 55 Rating, Add</i>	8,188.90	
			<i>For Class 56 Rating, Add</i>	10,849.83	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,293.62	2,639.13
			<i>For Class 52 Rating, Deduct</i>	-4,102.44	
			<i>For Class 54 Rating, Add</i>	5,642.22	
			<i>For Class 55 Rating, Add</i>	8,412.74	
			<i>For Class 56 Rating, Add</i>	11,145.95	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,311.16	2,642.22
			<i>For Class 52 Rating, Deduct</i>	-4,213.86	
			<i>For Class 54 Rating, Add</i>	5,794.21	
			<i>For Class 55 Rating, Add</i>	8,638.72	
			<i>For Class 56 Rating, Add</i>	11,444.92	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,319.07	2,645.29
			<i>For Class 52 Rating, Deduct</i>	-4,324.22	
			<i>For Class 54 Rating, Add</i>	5,944.75	
			<i>For Class 55 Rating, Add</i>	8,862.56	
			<i>For Class 56 Rating, Add</i>	11,741.05	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,326.99	2,648.37
			<i>For Class 52 Rating, Deduct</i>	-4,434.57	
			<i>For Class 54 Rating, Add</i>	6,095.30	
			<i>For Class 55 Rating, Add</i>	9,086.39	
			<i>For Class 56 Rating, Add</i>	12,037.18	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,344.54	2,651.46
			<i>For Class 52 Rating, Deduct</i>	-4,545.99	
			<i>For Class 54 Rating, Add</i>	6,247.29	
			<i>For Class 55 Rating, Add</i>	9,312.38	
			<i>For Class 56 Rating, Add</i>	12,336.14	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,352.45	2,654.54
			<i>For Class 52 Rating, Deduct</i>	-4,656.35	
			<i>For Class 54 Rating, Add</i>	6,397.83	
			<i>For Class 55 Rating, Add</i>	9,536.21	
			<i>For Class 56 Rating, Add</i>	12,632.27	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,361.75	2,657.61
			<i>For Class 52 Rating, Deduct</i>	-4,766.86	
			<i>For Class 54 Rating, Add</i>	6,548.58	
			<i>For Class 55 Rating, Add</i>	9,760.36	
			<i>For Class 56 Rating, Add</i>	12,928.80	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,377.92	2,660.69
			<i>For Class 52 Rating, Deduct</i>	-4,878.12	
			<i>For Class 54 Rating, Add</i>	6,700.36	
			<i>For Class 55 Rating, Add</i>	9,986.04	
			<i>For Class 56 Rating, Add</i>	13,227.36	
40 05 19 00-1580			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	406.17	148.57
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	568.05	189.99
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	787.31	215.21
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,145.55	272.83
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,412.61	302.54
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,753.49	328.66
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,160.20	405.20
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,827.50	486.24
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,485.03	612.30
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,266.41	693.34
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	8,820.30	918.45
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	12,464.43	1,040.01
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	20,793.59	1,188.58
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	27,668.15	1,458.71
40 05 19 00-1595			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	386.35	148.57
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	536.33	189.99
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	706.69	215.21
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,029.25	272.83
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,264.59	302.54
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,452.17	328.66
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,827.16	405.20
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,379.48	486.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,076.65	612.30
40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,034.68	693.34
40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	7,918.97	918.45
40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	11,806.28	1,040.01
40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	17,964.05	1,188.58
40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	24,467.24	1,458.71
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	385.02	148.57
40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	525.76	189.99
40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	697.44	215.21
40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,002.81	272.83
40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,322.74	302.54
40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,635.87	328.66
40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,868.13	405.20
40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,429.70	486.24
40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,294.72	612.30
40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,531.60	693.34
40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	8,007.52	918.45
40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	12,009.80	1,040.01
40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	18,369.78	1,188.58
40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	24,995.88	1,458.71
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	418.06	148.57
40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	587.87	189.99
40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	723.87	215.21
40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,096.65	272.83
40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,495.87	302.54
40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,680.80	328.66
40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,055.80	405.20
40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,429.70	486.24
40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,294.72	612.30
40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,710.02	693.34
40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	8,096.07	918.45
40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	12,097.03	1,040.01
40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	18,462.29	1,188.58
40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	25,182.22	1,458.71
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	535.35	169.28
40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	656.21	181.89
40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	739.13	202.60
40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	977.41	210.70
40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,033.89	231.41
40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,128.33	244.02
40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,050.82	226.01
40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,182.64	246.72
40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,355.03	259.33
40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,446.28	288.14
40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,355.03	259.33
40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,498.38	271.93
40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,668.90	300.74
40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,844.08	316.06
40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,562.38	297.60
40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,683.23	310.20
40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,929.09	339.01
40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,102.28	353.88
40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,248.92	366.93
40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,825.97	338.12
40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,174.15	350.72
40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,242.91	379.53
40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,367.18	394.40
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,564.07	407.45
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,796.50	445.72
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,349.67	401.14
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,504.89	413.76
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,091.72	442.57
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,208.06	457.42
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,531.82	470.48
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,464.25	508.75
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,689.53	549.27
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,280.67	441.67
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,437.23	454.27

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,697.62	483.09
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,884.01	497.94
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,230.22	511.00
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,559.14	549.27
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,674.72	589.78
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,909.32	583.27
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	5,820.20	610.50
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,190.21	623.56
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,969.78	661.83
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,088.46	702.35
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,343.01	765.37
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,866.97	805.89
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,983.24	671.28
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,302.62	684.34
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,411.24	722.61
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,946.66	763.12
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,491.06	826.15
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,431.31	866.67
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,207.14	979.23
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	14,036.35	758.62
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,870.08	796.89
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	15,939.89	837.41
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	15,701.03	900.44
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	13,736.40	940.96
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	16,174.81	1,053.51
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	22,763.89	1,114.29
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	21,791.22	1,087.29
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	23,702.31	1,199.84
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	24,402.34	1,260.62
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	31,148.01	1,334.91
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	478.86	148.57
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	730.61	189.99
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,059.56	215.21
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,499.74	272.83
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,101.16	302.54
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,444.69	328.66
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	3,167.26	405.20
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	3,920.46	486.24
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	5,335.27	612.30
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	7,795.96	693.34
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	13,661.32	918.45
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	20,723.11	1,040.01
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	32,047.02	1,188.58
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	503.97	148.57
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	681.71	189.99
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,093.92	215.21
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,474.62	272.83
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,967.68	302.54
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	2,317.81	328.66
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	2,863.29	405.20
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	3,592.71	486.24
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	4,735.26	612.30
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	6,654.09	693.34
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	10,863.50	918.45
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	15,477.68	1,040.01
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	28,595.00	1,188.58
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	30,870.39	1,458.71
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	691.95	238.62
40 05 19 00-1736 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	857.10	293.55
40 05 19 00-1737 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,185.16	327.76
40 05 19 00-1738 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,692.02	425.91
40 05 19 00-1739 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,226.46	464.63
40 05 19 00-1740 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,955.01	499.74
40 05 19 00-1741 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	3,361.64	630.31
40 05 19 00-1742 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	4,088.83	720.36
40 05 19 00-1743 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	5,157.73	909.45
40 05 19 00-1744 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	7,523.91	1,003.99
40 05 19 00-1745 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	12,735.95	1,386.68
40 05 19 00-1746 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	18,269.84	1,589.28



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1747	EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	37,473.86	1,836.90
40 05 19 00-1748	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees		
<small>(40 05 19 00-0001)</small>			
40 05 19 00-1749	EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	859.79	266.53
40 05 19 00-1750	EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,051.67	271.93
40 05 19 00-1751	EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,058.58	306.15
40 05 19 00-1752	EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,374.18	300.74
40 05 19 00-1753	EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,365.24	334.97
40 05 19 00-1754	EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,440.27	356.58
40 05 19 00-1755	EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,727.78	316.06
40 05 19 00-1756	EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,730.73	350.27
40 05 19 00-1757	EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,828.23	371.88
40 05 19 00-1758	EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,177.78	441.21
40 05 19 00-1759	EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,489.62	328.66
40 05 19 00-1760	EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,444.98	362.88
40 05 19 00-1761	EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,554.38	384.49
40 05 19 00-1762	EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,708.34	453.83
40 05 19 00-1763	EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,871.36	477.68
40 05 19 00-1764	EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,012.80	366.93
40 05 19 00-1765	EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,789.76	401.14
40 05 19 00-1766	EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,751.14	422.76
40 05 19 00-1767	EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,227.55	492.10
40 05 19 00-1768	EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,140.80	515.95
40 05 19 00-1769	EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,494.06	538.01
40 05 19 00-1770	EA 18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,675.53	407.45
40 05 19 00-1771	EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,799.61	441.67
40 05 19 00-1772	EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,357.02	463.28
40 05 19 00-1773	EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,384.11	532.61
40 05 19 00-1774	EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,677.97	556.47
40 05 19 00-1775	EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,008.75	578.53
40 05 19 00-1776	EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,300.59	670.83
40 05 19 00-1777	EA 20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,029.23	470.48
40 05 19 00-1778	EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,084.55	504.70
40 05 19 00-1779	EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,171.47	526.31
40 05 19 00-1780	EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,358.47	595.64
40 05 19 00-1781	EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,529.43	619.50
40 05 19 00-1782	EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,590.60	641.57
40 05 19 00-1783	EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,519.45	733.86
40 05 19 00-1784	EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,648.66	783.38
40 05 19 00-1785	EA 24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,372.09	511.00
40 05 19 00-1786	EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,662.69	545.22
40 05 19 00-1787	EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,873.85	566.83
40 05 19 00-1788	EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,078.02	636.16
40 05 19 00-1789	EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,679.83	660.03
40 05 19 00-1790	EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,821.62	682.09
40 05 19 00-1791	EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,032.82	774.38
40 05 19 00-1792	EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	7,885.42	823.90
40 05 19 00-1793	EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,162.66	880.42
40 05 19 00-1794	EA 30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,478.66	657.77
40 05 19 00-1795	EA 30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,539.15	679.38
40 05 19 00-1796	EA 30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,819.98	748.71
40 05 19 00-1797	EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,856.13	772.58
40 05 19 00-1798	EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,889.56	794.64
40 05 19 00-1799	EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,116.62	886.93
40 05 19 00-1800	EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,249.81	936.46
40 05 19 00-1801	EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,584.87	1,062.52
40 05 19 00-1802	EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,494.95	1,116.55
40 05 19 00-1803	EA 36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,082.89	941.41
40 05 19 00-1804	EA 36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,985.03	958.52
40 05 19 00-1805	EA 36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,088.46	1,007.60
40 05 19 00-1806	EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,205.02	1,026.95
40 05 19 00-1807	EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,260.70	1,044.51
40 05 19 00-1808	EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,417.77	1,109.80
40 05 19 00-1809	EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,515.05	1,154.81
40 05 19 00-1810	EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,774.61	1,249.36
40 05 19 00-1811	EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,109.23	1,296.64
40 05 19 00-1812	EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	19,739.28	1,487.98
40 05 19 00-1813	EA 42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,205.61	814.45
40 05 19 00-1814	EA 42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,016.37	883.78
40 05 19 00-1815	EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,052.52	907.64
40 05 19 00-1816	EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,116.34	929.71
40 05 19 00-1817	EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,318.30	1,022.00
40 05 19 00-1818	EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,549.28	1,071.53
40 05 19 00-1819	EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,740.28	1,197.59
40 05 19 00-1820	EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,070.61	1,251.61
40 05 19 00-1821	EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	27,950.01	1,521.74
40 05 19 00-1822	EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	35,843.37	1,663.57
40 05 19 00-1823	EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	28,424.08	1,053.96
40 05 19 00-1824	EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	28,457.50	1,076.02
40 05 19 00-1825	EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	28,689.86	1,168.33

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	28,764.89	1,217.85
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,078.80	1,343.90
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,378.73	1,397.94
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	30,224.14	1,668.07
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base <small>(40 05 19 00-0001)</small>		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	742.17	238.62
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,001.15	293.55
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,433.62	327.76
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,161.19	425.91
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,876.69	464.63
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,208.76	499.74
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,985.44	630.31
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,830.25	720.36
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	6,437.03	909.45
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	9,191.77	1,003.99
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	15,332.89	1,386.68
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	21,757.55	1,589.28
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes <small>(40 05 19 00-0001)</small>		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	615.30	238.62
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	850.49	293.55
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,204.99	327.76
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,582.32	425.91
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,219.86	464.63
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,854.57	499.74
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses <small>(40 05 19 00-0001)</small>		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	845.55	328.66
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,095.97	356.13
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,165.98	397.09
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,332.16	361.97
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,456.01	409.70
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,511.64	440.31
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,703.58	390.79
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,877.65	438.51
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,050.91	469.13
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,545.10	578.98
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,180.72	405.65
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,303.24	453.38
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,477.82	483.99
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,997.14	593.84
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,839.45	626.71
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,727.44	466.43
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,900.70	497.04
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,244.23	606.90
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,522.67	639.76
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,695.29	670.83
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,241.37	504.70
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,438.42	535.31
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,781.96	645.17
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,085.50	678.03
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,637.87	709.09
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,656.92	855.42
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,379.42	545.22
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,575.14	575.83
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,868.47	685.69
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,170.68	718.55
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,772.82	749.62
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,223.16	895.94
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,463.82	954.47
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,377.57	608.25
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,586.52	638.86
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,861.33	748.71
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,183.38	781.59
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,284.63	812.65
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,431.46	958.97
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,682.68	1,017.50
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,351.14	1,206.60
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,744.70	648.76
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,898.14	679.38
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,254.90	789.24
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,468.57	822.10
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,597.58	853.17
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,009.59	999.49
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,030.45	1,058.02



MINOR	CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,563.11	1,177.56
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,533.39	1,314.64
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,539.15	934.66
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,615.29	965.72
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,040.52	1,112.04
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,187.35	1,170.57
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,795.01	1,359.67
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,248.90	1,427.20
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,381.11	1,854.91
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,856.33	1,189.03
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,896.57	1,215.59
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,254.45	1,334.91
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,393.13	1,388.93
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,894.88	1,546.51
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	16,453.50	1,607.29
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,197.19	1,956.21
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	24,338.24	2,138.55
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	21,764.62	1,069.73
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	21,811.69	1,100.79
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,219.73	1,247.11
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,338.81	1,305.64
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,905.49	1,494.74
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,474.34	1,562.26
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	30,213.65	1,989.98
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	41,618.39	2,212.83
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	31,057.84	2,485.21
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	29,150.20	1,247.11
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	29,559.57	1,393.43
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	29,678.65	1,451.96
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	30,213.61	1,641.05
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	30,782.46	1,708.59
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	32,269.73	2,136.29

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)

40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	449.44	169.28
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	565.02	181.89
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	622.83	202.60
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	751.41	210.70
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	762.96	231.41
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	885.15	244.02
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	949.05	226.01
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	984.40	246.72
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,076.18	259.33
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,209.72	288.14
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,457.53	246.72
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,176.62	259.33
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,297.49	271.93
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,427.05	300.74
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,393.42	316.06
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,721.31	276.89
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,413.03	297.60
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,342.26	310.20
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,494.29	339.01
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,835.31	353.88
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,971.38	366.93
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,174.87	338.12
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,744.63	350.72
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,915.15	379.53
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,907.27	394.40
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,183.45	407.45
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,189.88	445.72
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,239.98	401.14
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,178.46	413.76
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,358.23	442.57
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,305.41	457.42
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,646.35	470.48
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,500.80	508.75
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,064.41	549.27
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,919.16	454.27
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,289.25	483.09
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,532.46	497.94
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,626.25	511.00
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,233.58	549.27
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,885.72	589.78
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,093.90	583.27
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,549.06	661.83
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,786.24	702.35
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,231.96	765.37
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,876.19	805.89

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,536.34	722.61
40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,917.56	763.12
40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,421.43	826.15
40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,154.19	866.67
40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,548.53	979.23
40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,741.24	940.96
40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,402.54	1,053.51
40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,266.90	1,114.29
40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,163.84	1,087.29
40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,137.06	1,199.84
40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	20,249.87	1,260.62
40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	22,663.34	1,334.91

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	485.13	169.28
40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	605.99	181.89
40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	687.59	202.60
40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	751.41	210.70
40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	806.57	231.41
40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	926.12	244.02
40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	949.05	226.01
40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,031.98	246.72
40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,126.40	259.33
40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,296.94	288.14
40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,176.62	259.33
40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,272.38	271.93
40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,417.79	300.74
40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,616.77	316.06
40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,413.03	297.60
40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,531.24	310.20
40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,701.78	339.01
40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,876.28	353.88
40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,971.38	366.93
40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,744.63	350.72
40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,915.15	379.53
40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,089.65	394.40
40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,183.45	407.45
40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,393.41	445.72
40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,522.80	401.14
40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,314.58	413.76
40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,358.23	442.57
40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,571.05	457.42
40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,646.35	470.48
40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,892.00	508.75
40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,063.09	549.27
40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,191.41	454.27
40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,289.25	483.09
40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,365.94	497.94
40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,439.91	511.00
40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,689.53	549.27
40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,885.72	589.78
40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,093.90	583.27
40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,599.91	623.56
40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,453.04	661.83
40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,815.31	702.35
40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,231.96	765.37
40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,876.19	805.89
40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,594.49	722.61
40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,917.56	763.12
40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,392.35	826.15
40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,122.47	866.67
40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,519.46	979.23
40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	12,741.24	940.96
40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,834.22	1,053.51
40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	16,266.90	1,114.29
40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	18,137.06	1,199.84
40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	20,249.87	1,260.62
40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	22,663.34	1,334.91

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

40 05 19 00-2045 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	171.94	58.53
40 05 19 00-2046 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	257.84	86.45
40 05 19 00-2047 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	368.31	102.65
40 05 19 00-2048 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	501.28	119.76
40 05 19 00-2049 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	643.67	140.47
40 05 19 00-2050 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	844.04	157.58
40 05 19 00-2051 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,006.35	180.09



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				40 05 19 00-2052 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,365.27	252.12
				40 05 19 00-2053 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,808.36	315.16
				40 05 19 00-2054 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,559.59	382.69
				40 05 19 00-2055 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,585.49	445.72
				40 05 19 00-2056 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	6,328.63	490.74
				40 05 19 00-2057 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	8,885.63	540.26
				40 05 19 00-2058 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	11,717.06	607.80
40 05 19 00-2059				Ductile Iron Bolt Packs <small>(40 05 19)</small>		
				Note: Labor installation is included with pipe fittings or valves.		
				40 05 19 00-2060 EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	38.62	
				Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	10.81	
				For Hot Dip Galvanized, Add	15.45	
				40 05 19 00-2061 EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	59.59	
				Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	16.69	
				For Hot Dip Galvanized, Add	23.84	
				40 05 19 00-2062 EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	64.71	
				Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	18.12	
				For Hot Dip Galvanized, Add	25.88	
				40 05 19 00-2063 EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	145.35	
				Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	40.70	
				For Hot Dip Galvanized, Add	58.14	
				40 05 19 00-2064 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	146.63	
				Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	41.06	
				For Hot Dip Galvanized, Add	58.65	
				40 05 19 00-2065 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	164.28	
				Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	46.00	
				For Hot Dip Galvanized, Add	65.71	
				40 05 19 00-2066 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	276.17	
				Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	77.33	
				For Hot Dip Galvanized, Add	110.47	
				40 05 19 00-2067 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	401.20	
				Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	112.34	
				For Hot Dip Galvanized, Add	160.48	
				40 05 19 00-2068 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	506.57	
				Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	141.84	
				For Hot Dip Galvanized, Add	202.63	
				40 05 19 00-2069 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	724.81	
				Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	202.95	
				For Hot Dip Galvanized, Add	289.92	
				40 05 19 00-2070 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,145.31	
				Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	320.69	
				For Hot Dip Galvanized, Add	458.12	
				40 05 19 00-2071 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,633.81	
				Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	457.47	
				For Hot Dip Galvanized, Add	653.52	
				40 05 19 00-2072 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,101.85	
				Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	588.52	
				For Hot Dip Galvanized, Add	840.74	
				40 05 19 00-2073 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,568.93	
				Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	719.30	
				For Hot Dip Galvanized, Add	1,027.57	
40 05 19 00-2074				Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 <small>(40 05 19)</small>		
				Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2075				Full Face Flange Styrene Butadiene (SBR) Gaskets <small>(40 05 19 00-2074)</small>		
				40 05 19 00-2076 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	6.52	
				40 05 19 00-2077 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.30	
				40 05 19 00-2078 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	11.26	
				40 05 19 00-2079 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.04	
				40 05 19 00-2080 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.22	
				40 05 19 00-2081 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	23.70	
				40 05 19 00-2082 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.03	
				40 05 19 00-2083 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	30.81	
				40 05 19 00-2084 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	47.40	
				40 05 19 00-2085 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	50.96	
				40 05 19 00-2086 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	65.77	
				40 05 19 00-2087 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	75.25	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2088	EA	42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick		80.58	
40 05 19 00-2089	EA	48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick		88.28	
40 05 19 00-2090		Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)			
Note: (Acrylonitrile Butadiene)					
40 05 19 00-2091	EA	4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		20.14	
40 05 19 00-2092	EA	6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		28.44	
40 05 19 00-2093	EA	8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		43.84	
40 05 19 00-2094	EA	10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		47.99	
40 05 19 00-2095	EA	12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		51.55	
40 05 19 00-2096	EA	14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		97.17	
40 05 19 00-2097	EA	16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		119.68	
40 05 19 00-2098	EA	18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		120.28	
40 05 19 00-2099	EA	20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		125.02	
40 05 19 00-2100	EA	24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		132.13	
40 05 19 00-2101	EA	30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		146.35	
40 05 19 00-2102	EA	36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		161.16	
40 05 19 00-2103	EA	42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		229.30	
40 05 19 00-2104	EA	48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		250.63	
40 05 19 00-2105		Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)			
Note: (Polybutadiene)					
40 05 19 00-2106	EA	4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		17.78	
40 05 19 00-2107	EA	6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		23.11	
40 05 19 00-2108	EA	8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		31.40	
40 05 19 00-2109	EA	10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		36.74	
40 05 19 00-2110	EA	12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		40.88	
40 05 19 00-2111	EA	14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		67.54	
40 05 19 00-2112	EA	16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		81.17	
40 05 19 00-2113	EA	18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		81.76	
40 05 19 00-2114	EA	20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		83.54	
40 05 19 00-2115	EA	24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		97.17	
40 05 19 00-2116	EA	30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		119.09	
40 05 19 00-2117	EA	36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		135.68	
40 05 19 00-2118	EA	42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		194.34	
40 05 19 00-2119	EA	48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		214.48	
40 05 19 00-2120		Full Face Flange Neoprene Gaskets (40 05 19 00-2074)			
Note: (Polychloroprene)					
40 05 19 00-2121	EA	4" Full Face Flange Neoprene Gasket, 1/8" Thick		20.74	
40 05 19 00-2122	EA	6" Full Face Flange Neoprene Gasket, 1/8" Thick		29.03	
40 05 19 00-2123	EA	8" Full Face Flange Neoprene Gasket, 1/8" Thick		44.44	
40 05 19 00-2124	EA	10" Full Face Flange Neoprene Gasket, 1/8" Thick		47.99	
40 05 19 00-2125	EA	12" Full Face Flange Neoprene Gasket, 1/8" Thick		51.55	
40 05 19 00-2126	EA	14" Full Face Flange Neoprene Gasket, 1/8" Thick		68.73	
40 05 19 00-2127	EA	16" Full Face Flange Neoprene Gasket, 1/8" Thick		120.87	
40 05 19 00-2128	EA	18" Full Face Flange Neoprene Gasket, 1/8" Thick		121.46	
40 05 19 00-2129	EA	20" Full Face Flange Neoprene Gasket, 1/8" Thick		128.57	
40 05 19 00-2130	EA	24" Full Face Flange Neoprene Gasket, 1/8" Thick		130.35	
40 05 19 00-2131	EA	30" Full Face Flange Neoprene Gasket, 1/8" Thick		141.61	
40 05 19 00-2132	EA	36" Full Face Flange Neoprene Gasket, 1/8" Thick		159.38	
40 05 19 00-2133	EA	42" Full Face Flange Neoprene Gasket, 1/8" Thick		231.08	
40 05 19 00-2134	EA	48" Full Face Flange Neoprene Gasket, 1/8" Thick		253.00	
40 05 19 00-2135		Full Face Flange FKM Gaskets (40 05 19 00-2074)			
Note: (Fluoroelastomer Fluorel Viton®)					
40 05 19 00-2136	EA	4" Full Face Flange FKM Gasket, 1/8" Thick		77.31	
40 05 19 00-2137	EA	6" Full Face Flange FKM Gasket, 1/8" Thick		115.10	
40 05 19 00-2138	EA	8" Full Face Flange FKM Gasket, 1/8" Thick		153.75	
40 05 19 00-2139	EA	10" Full Face Flange FKM Gasket, 1/8" Thick		185.53	
40 05 19 00-2140	EA	12" Full Face Flange FKM Gasket, 1/8" Thick		241.36	
40 05 19 00-2141	EA	14" Full Face Flange FKM Gasket, 1/8" Thick		441.50	
40 05 19 00-2142	EA	16" Full Face Flange FKM Gasket, 1/8" Thick		505.92	
40 05 19 00-2143	EA	18" Full Face Flange FKM Gasket, 1/8" Thick		529.97	
40 05 19 00-2144	EA	20" Full Face Flange FKM Gasket, 1/8" Thick		565.19	
40 05 19 00-2145	EA	24" Full Face Flange FKM Gasket, 1/8" Thick		781.64	
40 05 19 00-2146	EA	30" Full Face Flange FKM Gasket, 1/8" Thick		937.11	
40 05 19 00-2147	EA	36" Full Face Flange FKM Gasket, 1/8" Thick		988.65	
40 05 19 00-2148	EA	42" Full Face Flange FKM Gasket, 1/8" Thick		1,232.59	
40 05 19 00-2149	EA	48" Full Face Flange FKM Gasket, 1/8" Thick		1,291.86	
40 05 19 00-2150		Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)			
40 05 19 00-2151	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		370.38	73.05
40 05 19 00-2152	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		512.53	89.16
40 05 19 00-2153	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		756.45	108.76
40 05 19 00-2154	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		1,037.34	132.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2155 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,316.32	161.78
40 05 19 00-2156 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,108.79	197.38
40 05 19 00-2157 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,309.66	240.88
40 05 19 00-2158 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,421.72	293.80
40 05 19 00-2159 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,191.97	358.51
40 05 19 00-2160 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,674.40	437.29
40 05 19 00-2161 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	6,021.39	533.60
40 05 19 00-2162 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	8,937.88	650.90
40 05 19 00-2163 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	23,213.31	794.18
40 05 19 00-2164 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	29,646.42	968.84

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)

40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)

40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23 23)

<i>Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.</i>		
40 05 23 23-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	34.44	11.54
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	39.35	13.23
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	45.78	14.93
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	51.86	18.03
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	56.87	18.54
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	68.81	24.51
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	96.94	30.21
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	121.90	35.01
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	163.99	35.01
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>		

40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)

40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)

40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)

40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	9.50	3.80
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	11.09	4.51
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	13.19	5.35
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	20.01	6.06
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	23.52	6.76
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	26.05	7.61
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing	29.47	9.15
<i>For Work In Restricted Working Space, Add</i>		

40 05 23 23-0021 0.049" Wall (40 05 23 23-0012)

40 05 23 23-0022 LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing	14.81	4.51
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0023 LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing	16.65	5.35
<i>For Work In Restricted Working Space, Add</i>		
40 05 23 23-0024 LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing	19.83	6.06
<i>For Work In Restricted Working Space, Add</i>		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0025	LF	5/8"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	25.06 4.55	7.61
40 05 23 23-0026	LF	3/4"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	28.91 5.45	9.15
40 05 23 23-0027	LF	7/8"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	32.70 6.36	10.56
40 05 23 23-0028	LF	1"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	37.62 7.22	11.97
40 05 23 23-0029			0.065" Wall <small>(40 05 23 23-0012)</small>		
40 05 23 23-0030	LF	1/4"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	17.30 3.18	5.35
40 05 23 23-0031	LF	3/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	19.88 3.63	6.06
40 05 23 23-0032	LF	1/2"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	24.58 4.55	7.61
40 05 23 23-0033	LF	5/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	29.00 5.45	9.15
40 05 23 23-0034	LF	3/4"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	34.13 6.36	10.56
40 05 23 23-0035	LF	7/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	39.14 7.22	11.97
40 05 23 23-0036	LF	1"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	44.09 8.13	13.52
40 05 23 23-0037			Type 304 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0038			90 Degree Elbows <small>(40 05 23 23-0037)</small>		
40 05 23 23-0039	EA	1/4"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.76 9.09	15.22
40 05 23 23-0040	EA	3/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	64.00 9.95	16.63
40 05 23 23-0041	EA	1/2"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.88 11.27	18.74
40 05 23 23-0042	EA	5/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	99.76 12.62	20.99
40 05 23 23-0043	EA	3/4"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	111.13 13.64	22.69
40 05 23 23-0044	EA	7/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	148.44 15.10	25.22
40 05 23 23-0045	EA	1"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	187.87 17.99	30.01
40 05 23 23-0046			Union Tees <small>(40 05 23 23-0037)</small>		
40 05 23 23-0047	EA	1/4"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	86.13 13.64	22.69
40 05 23 23-0048	EA	3/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	103.10 15.10	25.22
40 05 23 23-0049	EA	1/2"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	137.33 16.91	28.18
40 05 23 23-0050	EA	5/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	148.73 19.21	31.98
40 05 23 23-0051	EA	3/4"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	186.27 20.62	34.37
40 05 23 23-0052	EA	7/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	286.49 22.85	38.04
40 05 23 23-0053	EA	1"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	343.25 27.27	45.51
40 05 23 23-0054			Unions <small>(40 05 23 23-0037)</small>		
40 05 23 23-0055	EA	1/4"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	82.89 13.64	22.69
40 05 23 23-0056	EA	3/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	104.93 15.10	25.22
40 05 23 23-0057	EA	1/2"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	138.53 16.91	28.18
40 05 23 23-0058	EA	5/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	167.53 19.21	31.98
40 05 23 23-0059	EA	3/4"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	197.71 20.62	34.37
40 05 23 23-0060	EA	7/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	295.62 22.85	38.04
40 05 23 23-0061	EA	1"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	317.39 27.27	45.51
40 05 23 23-0062			Male Connectors <small>(40 05 23 23-0037)</small>		
40 05 23 23-0063	EA	1/4" x 1/4"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	43.18 9.09	15.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0064 EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	52.60 9.95	16.63
40 05 23 23-0065 EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	66.67 11.27	18.74
40 05 23 23-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	75.06 12.62	20.99
40 05 23 23-0067 EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	89.17 13.64	22.69
40 05 23 23-0068 EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	129.19 15.10	25.22
40 05 23 23-0069 EA 1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	137.35 17.99	30.01
40 05 23 23-0070 Type 304 Valves <small>(40 05 23 23-0011)</small>		
40 05 23 23-0071 Gate Valves <small>(40 05 23 23-0070)</small>		
40 05 23 23-0072 EA 1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	175.64 12.31	22.69
40 05 23 23-0073 EA 3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	285.93 12.96	26.63
40 05 23 23-0074 EA 1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	302.70 17.99	30.01
40 05 23 23-0075 EA 3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	336.43 20.62	34.37
40 05 23 23-0076 EA 1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	319.59 27.27	45.51
40 05 23 23-0077 Globe Valves <small>(40 05 23 23-0070)</small>		
40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	177.84 12.31	22.69
40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	123.72 12.96	26.63
40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	215.45 17.99	30.01
40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	240.61 20.62	34.37
40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	347.36 27.27	45.51
40 05 23 23-0083 Check Valves <small>(40 05 23 23-0070)</small>		
40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	242.66 12.31	22.69
40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	244.83 12.96	26.63
40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	172.67 17.99	30.01
40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	183.08 20.62	34.37
40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	208.51 27.27	45.51
40 05 23 23-0089 Plug Valves <small>(40 05 23 23-0070)</small>		
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	373.99 17.99	30.01
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	410.67 20.62	34.37
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	470.06 27.27	45.51
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	643.79 30.85	51.43
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	841.04 42.27	70.45
40 05 23 23-0095 Type 316 Tubing <small>(40 05 23 23-0011)</small>		
40 05 23 23-0096 0.035" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	9.79 2.27	3.80
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	12.54 2.72	4.51
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	14.07 3.18	5.35
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	22.35 3.63	6.06
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	25.33 4.08	6.76
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	31.63 4.55	7.61

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	33.79 5.45	9.15
40 05 23 23-0104 0.049" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	16.07 2.72	4.51
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	17.96 3.18	5.35
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	21.06 3.63	6.06
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	27.33 4.55	7.61
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	31.73 5.45	9.15
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	39.96 6.36	10.56
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	41.43 7.22	11.97
40 05 23 23-0112 0.065" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	18.79 3.18	5.35
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	21.02 3.63	6.06
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	26.37 4.55	7.61
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	31.46 5.45	9.15
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	37.90 6.36	10.56
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	41.94 7.22	11.97
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	48.61 8.13	13.52
40 05 23 23-0120 Type 316 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0121 90 Degree Elbows <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	72.43 9.09	15.22
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	86.27 9.95	16.63
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	132.81 11.27	18.74
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	141.42 12.62	20.99
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	158.55 13.64	22.69
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	219.28 15.10	25.22
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	280.21 17.99	30.01
40 05 23 23-0129 Union Tees <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	115.51 13.64	22.69
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	141.21 15.10	25.22
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	195.79 16.91	28.18
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	209.88 19.21	31.98
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	271.12 20.62	34.37
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	438.35 22.85	38.04
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	525.45 27.27	45.51
40 05 23 23-0137 Unions <small>(40 05 23 23-0120)</small>		
40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	78.42 13.64	22.69
40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	98.40 15.10	25.22
40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	128.71 16.91	28.18
40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	155.16 19.21	31.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316.....	182.29	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316.....	269.38	38.04
<i>For Work In Restricted Working Space, Add</i>	22.85	
40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316.....	290.32	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0145 Male Connectors <small>(40 05 23 23-0120)</small>		
40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	52.28	15.22
<i>For Work In Restricted Working Space, Add</i>	9.09	
40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	66.35	16.63
<i>For Work In Restricted Working Space, Add</i>	9.95	
40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	87.25	18.74
<i>For Work In Restricted Working Space, Add</i>	11.27	
40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	98.38	20.99
<i>For Work In Restricted Working Space, Add</i>	12.62	
40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	120.09	22.69
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	184.94	25.22
<i>For Work In Restricted Working Space, Add</i>	15.10	
40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316.....	192.06	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0153 Type 316 Valves <small>(40 05 23 23-0011)</small>		
40 05 23 23-0154 Gate Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0155 EA 1/4" Gate Valve, Stainless Steel Type 316	219.10	22.69
<i>For Work In Restricted Working Space, Add</i>	12.31	
40 05 23 23-0156 EA 3/8" Gate Valve, Stainless Steel Type 316	364.30	26.63
<i>For Work In Restricted Working Space, Add</i>	12.96	
40 05 23 23-0157 EA 1/2" Gate Valve, Stainless Steel Type 316	381.07	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0158 EA 3/4" Gate Valve, Stainless Steel Type 316	422.86	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0159 EA 1" Gate Valve, Stainless Steel Type 316	393.43	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316	529.20	47.20
<i>For Work In Restricted Working Space, Add</i>	28.32	
40 05 23 23-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316	832.15	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0162 EA 2" Gate Valve, Stainless Steel Type 316	996.61	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316	1,569.27	225.56
<i>For Work In Restricted Working Space, Add</i>	135.30	
40 05 23 23-0164 Globe Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0165 EA 1/4" Globe Valve, Stainless Steel Type 316	222.02	22.69
<i>For Work In Restricted Working Space, Add</i>	12.31	
40 05 23 23-0166 EA 3/8" Globe Valve, Stainless Steel Type 316	149.72	26.63
<i>For Work In Restricted Working Space, Add</i>	12.96	
40 05 23 23-0167 EA 1/2" Globe Valve, Stainless Steel Type 316	265.66	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0168 EA 3/4" Globe Valve, Stainless Steel Type 316	296.10	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316	430.16	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316	529.90	46.92
<i>For Work In Restricted Working Space, Add</i>	28.11	
40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316	861.32	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316	1,025.79	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316	1,384.51	225.56
<i>For Work In Restricted Working Space, Add</i>	135.30	
40 05 23 23-0174 Check Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316.....	307.76	22.69
<i>For Work In Restricted Working Space, Add</i>	12.31	
40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316.....	309.93	26.63
<i>For Work In Restricted Working Space, Add</i>	12.96	
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316.....	209.06	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316.....	219.99	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316.....	246.49	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316.....	329.53	47.20
<i>For Work In Restricted Working Space, Add</i>	28.32	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316.....	696.01	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316.....	850.75	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316.....	1,747.54	225.56
<i>For Work In Restricted Working Space, Add</i>	135.30	
40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	336.40	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	392.50	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	501.77	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	784.47	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	1,095.17	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0190 Diaphragm Valves, Teflon Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	438.64	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	504.21	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	613.48	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	941.62	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	1,282.61	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0196 Strainers <small>(40 05 23 23-0153)</small>		
40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316.....	439.63	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316.....	525.15	34.52
<i>For Work In Restricted Working Space, Add</i>	20.71	
40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316.....	687.56	45.79
<i>For Work In Restricted Working Space, Add</i>	27.48	
40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316.....	846.86	47.20
<i>For Work In Restricted Working Space, Add</i>	28.32	
40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316.....	1,057.37	51.43
<i>For Work In Restricted Working Space, Add</i>	30.86	
40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316.....	1,522.22	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316.....	2,089.73	93.69
<i>For Work In Restricted Working Space, Add</i>	56.22	
40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316.....	3,046.39	140.89
<i>For Work In Restricted Working Space, Add</i>	84.53	
40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316.....	3,931.55	225.42
<i>For Work In Restricted Working Space, Add</i>	135.24	
40 05 23 23-0206 Plug Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316.....	467.07	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316.....	512.03	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316.....	582.45	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316.....	804.14	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316.....	1,048.58	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place <small>(40 05 23 23-0011)</small>		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....	28.17	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....	30.42	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	34.22	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	35.91	
40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....	38.02	
40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....	40.84	
40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....	43.67	
40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....	47.89	
40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....	52.11	
40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....	56.34	
40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....	60.56	
40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....	66.20	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0225	EA			Cut And Prepare 12" Stainless Steel Pipe	71.83	
40 05 23 23-0226	EA			Cut And Prepare 14" Stainless Steel Pipe	77.47	
40 05 23 23-0227	EA			Cut And Prepare 16" Stainless Steel Pipe	83.10	
40 05 23 23-0228	EA			Cut And Prepare 18" Stainless Steel Pipe	87.32	
40 05 23 23-0229	EA			Cut And Prepare 20" Stainless Steel Pipe	91.54	
40 05 23 23-0230	EA			Cut And Prepare 24" Stainless Steel Pipe	97.18	
40 05 23 23-0231				Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232				Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings <i>(40 05 23 23-0231)</i>		
40 05 23 23-0233				Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234	LF			1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	17.62	6.06
				<i>For Work In Restricted Working Space, Add</i>	3.63	
40 05 23 23-0235	LF			3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	21.80	7.61
				<i>For Work In Restricted Working Space, Add</i>	4.55	
40 05 23 23-0236	LF			1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	26.63	9.15
				<i>For Work In Restricted Working Space, Add</i>	5.45	
40 05 23 23-0237	LF			1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	31.74	10.56
				<i>For Work In Restricted Working Space, Add</i>	6.36	
40 05 23 23-0238	LF			1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	36.56	11.97
				<i>For Work In Restricted Working Space, Add</i>	7.22	
40 05 23 23-0239	LF			2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	46.54	15.22
				<i>For Work In Restricted Working Space, Add</i>	9.09	
40 05 23 23-0240	LF			2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	61.20	18.04
				<i>For Work In Restricted Working Space, Add</i>	10.84	
40 05 23 23-0241	LF			3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	76.93	22.69
				<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0242	LF			4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	103.55	30.01
				<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0243				150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244	EA			1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	47.88	22.69
				<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0245	EA			3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	63.44	30.01
				<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0246	EA			1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	81.22	38.04
				<i>For Work In Restricted Working Space, Add</i>	22.85	
40 05 23 23-0247	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	113.02	52.13
				<i>For Work In Restricted Working Space, Add</i>	31.31	
40 05 23 23-0248	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	134.04	61.28
				<i>For Work In Restricted Working Space, Add</i>	36.75	
40 05 23 23-0249	EA			2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	162.94	74.11
				<i>For Work In Restricted Working Space, Add</i>	44.49	
40 05 23 23-0250	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	268.15	117.36
				<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-0251	EA			3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	345.44	151.45
				<i>For Work In Restricted Working Space, Add</i>	90.90	
40 05 23 23-0252	EA			4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	458.56	187.81
				<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-0253				150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0254	EA			1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	48.45	22.69
				<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0255	EA			3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	64.34	30.01
				<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0256	EA			1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	81.50	38.04
				<i>For Work In Restricted Working Space, Add</i>	22.85	
40 05 23 23-0257	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	112.91	52.13
				<i>For Work In Restricted Working Space, Add</i>	31.31	
40 05 23 23-0258	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	132.70	61.28
				<i>For Work In Restricted Working Space, Add</i>	36.75	
40 05 23 23-0259	EA			2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	162.62	74.11
				<i>For Work In Restricted Working Space, Add</i>	44.49	
40 05 23 23-0260	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	274.22	117.36
				<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-0261	EA			3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	357.29	151.45
				<i>For Work In Restricted Working Space, Add</i>	90.90	
40 05 23 23-0262	EA			4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	472.35	187.81
				<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-0263				150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264	EA			1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	72.04	34.37
				<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0265	EA			3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	96.14	45.51
				<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0266	EA			1", 150#, Type 304 Stainless Steel Threaded Tee.....	119.39	56.36
				<i>For Work In Restricted Working Space, Add</i>	33.81	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	169.82 46.96	78.34
40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	192.62 52.83	88.05
40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	256.02 70.45	117.36
40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	384.96 101.85	169.77
40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	520.00 136.35	227.25
40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	681.89 169.07	281.78
40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	63.02 17.99	30.01
40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	80.33 22.85	38.04
40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	110.48 31.31	52.13
40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	131.31 36.75	61.28
40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	163.00 44.49	74.11
40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	266.35 70.45	117.36
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	347.89 90.90	151.45
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	450.09 112.71	187.81
40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	24.35 6.82	11.41
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	32.33 9.09	15.22
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	40.61 11.27	18.74
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	58.68 15.95	26.63
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	67.18 17.99	30.01
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	85.36 22.85	38.04
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	129.33 33.81	56.36
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	171.27 44.49	74.11
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	226.72 56.36	93.97
40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	75.56 20.62	34.37
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	99.56 27.27	45.51
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	125.78 33.81	56.36
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	179.23 46.96	78.34
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	201.74 52.83	88.05
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	265.53 70.45	117.36
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	435.39 105.67	176.11
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	559.23 136.35	227.25
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	545.75 112.73	187.88
40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	47.65 13.64	22.69
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	63.13 17.99	30.01
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	80.97 22.85	38.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	112.02 31.31	52.13
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	131.61 36.75	61.28
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	161.13 44.49	74.11
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	262.97 70.45	117.36
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	339.37 90.90	151.45
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	432.25 112.71	187.81
 40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
<small>(40 05 23 23-0231)</small>		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe <small>(40 05 23 23-0312)</small>		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	20.55 3.63	6.06
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	24.68 4.55	7.61
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	30.77 5.45	9.15
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	37.16 6.36	10.56
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	42.98 7.22	11.97
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	55.13 9.09	15.22
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	73.21 10.84	18.04
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	94.85 13.64	22.69
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	126.86 17.99	30.01
 40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	48.62 13.64	22.69
40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	64.53 17.99	30.01
40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	81.89 22.85	38.04
40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	114.22 31.31	52.13
40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	135.65 36.75	61.28
40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.92 44.49	74.11
40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	271.31 70.45	117.36
40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	353.20 90.90	151.45
40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	467.98 112.71	187.81
 40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0334 EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	49.21 13.64	22.69
40 05 23 23-0335 EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	64.91 17.99	30.01
40 05 23 23-0336 EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.33 22.85	38.04
40 05 23 23-0337 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	114.10 31.31	52.13
40 05 23 23-0338 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	134.09 36.75	61.28
40 05 23 23-0339 EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.48 44.49	74.11
40 05 23 23-0340 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	277.20 70.45	117.36
40 05 23 23-0341 EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	364.15 90.90	151.45
40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	490.87 112.71	187.81
 40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees <small>(40 05 23 23-0312)</small>		
40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	72.82 20.62	34.37

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	96.94 27.27	45.51
40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	120.28 33.81	56.36
40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	171.63 46.96	78.34
40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	194.41 52.83	88.05
40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	258.38 70.45	117.36
40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	394.58 101.85	169.77
40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	533.13 136.35	227.25
40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	691.67 169.07	281.78
40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	63.69 17.99	30.01
40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	82.31 22.85	38.04
40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	110.85 31.31	52.13
40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	133.26 36.75	61.28
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	166.41 44.49	74.11
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	274.12 70.45	117.36
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	356.47 90.90	151.45
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	464.39 112.71	187.81
40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	24.79 6.82	11.41
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	32.66 9.09	15.22
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	41.19 11.27	18.74
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	60.28 15.95	26.63
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	69.09 17.99	30.01
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	87.84 22.85	38.04
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	133.43 33.81	56.36
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	175.43 44.49	74.11
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	234.98 56.36	93.97
40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	76.50 20.62	34.37
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	103.10 27.27	45.51
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	127.58 33.81	56.36
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	182.27 46.96	78.34
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	205.30 52.83	88.05
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	269.64 70.45	117.36
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	441.71 105.67	176.11
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	578.92 136.35	227.25
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	587.72 112.73	187.88
40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	49.13 13.64	22.69



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0384	EA			3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	63.81 17.99	30.01
40 05 23 23-0385	EA			1", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	81.63 22.85	38.04
40 05 23 23-0386	EA			1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	113.07 31.31	52.13
40 05 23 23-0387	EA			1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	132.85 36.75	61.28
40 05 23 23-0388	EA			2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	162.86 44.49	74.11
40 05 23 23-0389	EA			2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	269.02 70.45	117.36
40 05 23 23-0390	EA			3", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	347.18 90.90	151.45
40 05 23 23-0391	EA			4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	443.95 112.71	187.81
40 05 23 23-0392				Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings <small>(40 05 23 23-0231)</small>		
40 05 23 23-0393				Type 304, Schedule 10 Stainless Steel Pipe <small>(40 05 23 23-0392)</small>		
40 05 23 23-0394	LF			1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	18.97 3.54	5.90
40 05 23 23-0395	LF			3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	22.72 4.33	7.22
40 05 23 23-0396	LF			1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.26 5.08	8.53
40 05 23 23-0397	LF			1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	35.92 6.35	10.62
40 05 23 23-0398	LF			1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	40.09 7.16	11.94
40 05 23 23-0399	LF			2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	49.58 8.86	14.83
40 05 23 23-0400	LF			2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	58.70 10.13	16.92
40 05 23 23-0401	LF			3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.57 11.41	19.02
40 05 23 23-0402	LF			4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	85.07 13.50	22.56
40 05 23 23-0403	LF			6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	121.66 17.73	29.65
40 05 23 23-0404	LF			8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	197.74 30.58	47.59
40 05 23 23-0405	LF			10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	247.05 33.64	52.33
40 05 23 23-0406	LF			12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	292.75 37.38	58.19
40 05 23 23-0407	LF			14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	356.15 42.05	65.41
40 05 23 23-0408	LF			16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	393.93 48.06	74.76
40 05 23 23-0409	LF			18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	443.63 56.07	87.22
40 05 23 23-0410	LF			20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	605.18 67.28	104.66
40 05 23 23-0411	LF			24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	785.51 84.10	130.83
40 05 23 23-0412				Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow <small>(40 05 23 23-0392)</small>		
40 05 23 23-0413	EA			1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	152.52 44.86	67.29
40 05 23 23-0414	EA			3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	161.71 47.62	71.42
40 05 23 23-0415	EA			1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	177.96 52.33	78.50
40 05 23 23-0416	EA			1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	194.09 57.04	85.56
40 05 23 23-0417	EA			1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.36 62.99	94.48
40 05 23 23-0418	EA			2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	239.04 70.07	105.11
40 05 23 23-0419	EA			2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	308.28 89.69	134.52
40 05 23 23-0420	EA			3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	361.46 105.11	157.67
40 05 23 23-0421	EA			4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	437.49 125.81	188.72
40 05 23 23-0422	EA			6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	572.45 157.16	235.75
40 05 23 23-0423	EA			8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	890.12 240.29	360.45

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,259.20 320.39	480.58
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,896.59 480.59	720.89
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,230.57 560.69	841.03
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,589.83 639.57	959.35
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,261.53 800.99	1,201.48
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,554.55 1,121.38	1,682.07
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,525.84 1,601.97	2,402.95
40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	153.40 44.86	67.29
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.59 47.62	71.42
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.02 52.33	78.50
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	195.50 57.04	85.56
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.54 62.99	94.48
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	239.04 70.07	105.11
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	307.40 89.69	134.52
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	359.87 105.11	157.67
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	434.50 125.81	188.72
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	556.78 157.16	235.75
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	859.91 240.29	360.45
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,205.41 320.39	480.58
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,811.43 480.59	720.89
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,126.04 560.69	841.03
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,460.83 639.57	959.35
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,092.12 800.99	1,201.48
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,325.95 1,121.38	1,682.07
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,201.56 1,601.97	2,402.95
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 23-0392)		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	199.75 57.02	85.53
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	242.99 69.99	105.00
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	271.83 78.65	117.97
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	309.70 89.69	134.52
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	330.57 96.27	144.40
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	360.38 105.00	157.49
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	448.66 125.81	188.72
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	544.56 157.67	236.50
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	618.34 176.95	265.43
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	862.31 235.94	353.89
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,246.85 320.39	480.58
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,896.59 480.59	720.89
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,411.70 600.74	901.11



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,939.99 721.92	1,082.87
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,571.00 880.67	1,320.99
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,545.16 1,121.38	1,682.07
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,040.40 1,475.50	2,213.25
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,103.64 2,242.76	3,364.13
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	176.05 47.64	71.45
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	211.83 58.37	87.56
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	250.13 65.59	98.38
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	270.89 74.77	112.16
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	287.36 80.35	120.52
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	344.85 87.56	131.34
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	409.34 104.96	157.43
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	507.66 131.18	196.77
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	629.51 149.89	224.83
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,011.14 200.24	300.37
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,568.01 267.00	400.50
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,270.18 400.49	600.73
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,746.86 481.14	721.72
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,387.88 586.90	880.36
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,358.75 747.59	1,121.37
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,074.47 983.67	1,475.49
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	9,431.95 1,493.84	2,240.76
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	150.38 43.32	64.98
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	164.75 47.21	70.81
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	182.63 52.33	78.50
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	196.63 57.04	85.56
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	215.77 62.99	94.48
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	279.61 78.71	118.07
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	317.16 89.60	134.41
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	371.15 105.00	157.49
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	475.85 133.67	200.51
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	689.41 192.24	288.36
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	870.36 240.29	360.45
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,166.25 320.39	480.58
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,606.12 420.52	630.77
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,858.59 479.22	718.82
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,304.88 600.74	901.11
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,169.56 800.99	1,201.48
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,642.93 1,201.48	1,802.21

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	166.93 43.32	64.98
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	176.90 47.21	70.81
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	190.95 52.33	78.50
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	211.77 57.04	85.56
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	226.68 62.99	94.48
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	291.58 78.71	118.07
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	328.95 89.60	134.41
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	380.27 105.00	157.49
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	508.76 133.67	200.51
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	759.96 192.24	288.36
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,007.98 240.29	360.45
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,293.41 320.39	480.58
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,899.47 420.52	630.77
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,194.72 479.22	718.82
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,715.11 600.74	901.11
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,826.94 800.99	1,201.48
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,514.16 1,201.48	1,802.21
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	80.23 22.43	33.65
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	86.75 23.81	35.71
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	95.32 26.17	39.25
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	104.48 28.52	42.77
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	113.60 31.49	47.24
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	124.36 35.04	52.56
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	160.39 44.84	67.27
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	184.52 52.56	78.84
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	221.66 62.91	94.35
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	281.90 78.71	118.07
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	435.67 120.15	180.22
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	580.44 160.19	240.30
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	861.52 240.29	360.44
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,008.68 280.34	420.52
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,161.66 319.79	479.67
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,462.10 400.49	600.73
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,030.59 560.69	841.03
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,954.76 800.99	1,201.47
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	20.73 3.54	5.90
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	25.21 4.33	7.22
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	30.61 5.08	8.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	38.27 6.35	10.49
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	43.90 7.16	11.81
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.86 8.86	15.08
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.28 10.13	17.06
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.40 11.41	19.02
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	106.43 13.50	22.30
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	161.74 17.73	29.51
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	277.91 30.58	47.35
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	346.76 33.64	52.33
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	427.66 37.38	57.93
 40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	153.23 44.86	67.29
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	162.42 47.62	71.42
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	178.49 52.33	78.50
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.47 57.04	85.56
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	214.71 62.99	94.48
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	240.27 70.07	105.11
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	312.85 89.69	134.52
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	368.15 105.11	157.67
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	448.75 125.81	188.72
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	644.43 157.16	235.75
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	988.21 240.29	360.45
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,458.22 320.39	480.58
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,154.72 480.59	720.89
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,543.71 560.69	841.03
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,992.11 639.57	959.35
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,820.48 800.99	1,201.48
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,244.45 1,121.38	1,682.07
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,510.10 1,601.97	2,402.95
 40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	154.46 44.86	67.29
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	163.65 47.62	71.42
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	179.37 52.33	78.50
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	195.37 57.04	85.56
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.59 62.99	94.48
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	240.46 70.07	105.11
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	312.85 89.69	134.52
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	363.22 105.11	157.67
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	451.39 125.81	188.72
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	584.41 157.16	235.75

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	925.29 240.29	360.45
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,301.03 320.39	480.58
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,922.83 480.59	720.89
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,204.60 560.69	841.03
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,588.36 639.57	959.35
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,257.20 800.99	1,201.48
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,484.39 1,121.38	1,682.07
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,470.57 1,601.97	2,402.95
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	200.45 57.02	85.53
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	243.69 69.99	105.00
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	272.53 78.65	117.97
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	311.49 89.69	134.52
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	331.27 96.27	144.40
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	361.26 105.00	157.49
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	451.04 125.81	188.72
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	548.25 157.67	236.50
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	622.39 176.95	265.43
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	890.29 235.94	353.89
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,329.91 320.39	480.58
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,151.50 480.59	720.89
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,680.48 600.74	901.11
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,481.58 721.92	1,082.87
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,361.69 880.67	1,320.99
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,618.71 1,121.38	1,682.07
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,299.66 1,475.50	2,213.25
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,148.83 2,242.76	3,364.13
40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	178.34 47.64	71.45
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	214.12 58.37	87.56
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	261.14 65.59	98.38
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	274.23 74.77	112.16
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	287.36 80.35	120.52
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	333.60 87.56	131.34
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	384.52 104.96	157.43
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	494.64 131.18	196.77
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	631.62 149.89	224.83
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	936.44 200.24	300.37
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,591.38 267.00	400.50
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,316.94 400.49	600.73
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,681.25 481.14	721.72



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,305.71 586.90	880.36
40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,251.60 747.59	1,121.37
40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,914.00 983.67	1,475.49
40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	9,176.39 1,493.84	2,240.76
40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)		
40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	152.14 43.32	64.98
40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	166.51 47.21	70.81
40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	182.76 52.33	78.50
40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	198.39 57.04	85.56
40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	216.82 62.99	94.48
40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	279.61 78.71	118.07
40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	310.82 89.60	134.41
40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	362.14 105.00	157.49
40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	477.26 133.67	200.51
40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	719.30 192.24	288.36
40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	921.68 240.29	360.45
40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,212.06 320.39	480.58
40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,708.92 420.52	630.77
40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,987.82 479.22	718.82
40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,566.57 600.74	901.11
40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,478.24 800.99	1,201.48
40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,962.60 1,201.48	1,802.21
40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	167.64 43.32	64.98
40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	180.59 47.21	70.81
40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	203.62 52.33	78.50
40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	218.28 57.04	85.56
40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	236.71 62.99	94.48
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	291.58 78.71	118.07
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	350.78 89.60	134.41
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	395.06 105.00	157.49
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	523.37 133.67	200.51
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	761.49 192.24	288.36
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,006.65 240.29	360.45
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,362.60 320.39	480.58
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,077.92 420.52	630.77
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,360.24 479.22	718.82
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,048.37 600.74	901.11
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,991.41 800.99	1,201.48
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,243.15 1,201.48	1,802.21
40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	80.75 22.43	33.65

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	86.22 23.81	35.71
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	95.84 26.17	39.25
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	106.84 28.52	42.77
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	115.89 31.49	47.24
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	124.18 35.04	52.56
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	159.21 44.84	67.27
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	185.22 52.56	78.84
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	223.77 62.91	94.35
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	294.92 78.71	118.07
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	456.58 120.15	180.22
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	610.01 160.19	240.30
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	917.88 240.29	360.44
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,060.30 280.34	420.52
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,232.67 319.79	479.67
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,546.26 400.49	600.73
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,142.82 560.69	841.03
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,142.41 800.99	1,201.47
40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-02317)		
40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	21.21 3.54	5.90
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	25.30 4.33	7.22
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	33.12 5.08	8.53
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	40.53 6.35	10.62
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.16 7.16	11.94
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.84 8.86	14.83
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	66.48 10.13	16.92
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	78.11 11.41	19.02
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	97.59 13.50	22.56
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	141.20 17.73	29.65
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	227.66 30.58	47.59
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	289.18 33.64	52.33
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	345.26 37.38	58.19
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	423.59 42.05	65.41
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	466.93 48.06	74.76
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	523.81 56.07	87.22
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	724.13 67.28	104.66
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	943.28 84.10	130.83
40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	153.40 44.86	67.29
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.59 47.62	71.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.02 52.33	78.50
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	195.62 57.04	85.56
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.42 62.99	94.48
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	240.27 70.07	105.11
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	310.57 89.69	134.52
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	364.80 105.11	157.67
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	442.59 125.81	188.72
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	585.82 157.16	235.75
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	915.03 240.29	360.45
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,316.79 320.39	480.58
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,975.10 480.59	720.89
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,304.45 560.69	841.03
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,706.68 639.57	959.35
40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,401.65 800.99	1,201.48
40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,754.71 1,121.38	1,682.07
40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,823.26 1,601.97	2,402.95
40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	154.46 44.86	67.29
40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	163.65 47.62	71.42
40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	180.07 52.33	78.50
40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	197.03 57.04	85.56
40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.42 62.99	94.48
40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	240.27 70.07	105.11
40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	309.51 89.69	134.52
40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	363.22 105.11	157.67
40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	438.90 125.81	188.72
40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	564.00 157.16	235.75
40 05 23 23-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	875.87 240.29	360.45
40 05 23 23-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,301.03 320.39	480.58
40 05 23 23-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,922.83 480.59	720.89
40 05 23 23-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,255.46 560.69	841.03
40 05 23 23-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,616.88 639.57	959.35
40 05 23 23-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,295.89 800.99	1,201.48
40 05 23 23-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,659.69 1,121.38	1,682.07
40 05 23 23-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,696.70 1,601.97	2,402.95
40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)		
40 05 23 23-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	202.04 57.02	85.53
40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	245.28 69.99	105.00
40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	274.12 78.65	117.97
40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	313.93 89.69	134.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	333.91 96.27	144.40
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	363.38 105.00	157.49
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	439.07 125.81	188.72
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	550.37 157.67	236.50
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	626.26 176.95	265.43
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	885.01 235.94	353.89
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,306.53 320.39	480.58
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,011.21 480.59	720.89
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,563.57 600.74	901.11
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,221.59 721.92	1,082.87
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,843.71 880.67	1,320.99
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,888.28 1,121.38	1,682.07
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,540.77 1,475.50	2,213.25
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	9,542.49 2,242.76	3,364.13
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	181.50 47.64	71.45
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	218.34 58.37	87.56
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	258.06 65.59	98.38
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	276.34 74.77	112.16
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	294.92 80.35	120.52
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	367.73 87.56	131.34
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	388.75 104.96	157.43
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	507.66 131.18	196.77
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	662.07 149.89	224.83
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,105.81 200.24	300.37
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,883.73 267.00	400.50
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,539.14 400.49	600.73
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,925.06 481.14	721.72
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,611.05 586.90	880.36
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,649.78 747.59	1,121.37
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	6,510.28 983.67	1,475.49
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	10,126.07 1,493.84	2,240.76
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	151.97 43.32	64.98
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	166.69 47.21	70.81
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	185.45 52.33	78.50
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	197.86 57.04	85.56
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	216.82 62.99	94.48
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	278.87 78.71	118.07
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	321.38 89.60	134.41
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	363.40 105.00	157.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	484.48 133.67	200.51
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	698.43 192.24	288.36
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	891.47 240.29	360.45
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,191.16 320.39	480.58
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,640.42 420.52	630.77
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,891.07 479.22	718.82
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,352.62 600.74	901.11
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,243.33 800.99	1,201.48
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,773.72 1,201.48	1,802.21
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	165.65 43.32	64.98
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	182.94 47.21	70.81
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.71 52.33	78.50
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	220.39 57.04	85.56
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	230.73 62.99	94.48
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	298.09 78.71	118.07
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	341.10 89.60	134.41
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	390.13 105.00	157.49
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	530.41 133.67	200.51
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	797.98 192.24	288.36
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,062.91 240.29	360.45
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,369.06 320.39	480.58
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,977.79 420.52	630.77
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,298.83 479.22	718.82
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,859.24 600.74	901.11
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,053.57 800.99	1,201.48
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,735.94 1,201.48	1,802.21
40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	82.51 22.43	33.65
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	89.74 23.81	35.71
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	98.48 26.17	39.25
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	107.54 28.52	42.77
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	117.30 31.49	47.24
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	126.47 35.04	52.56
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	159.72 44.84	67.27
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	188.21 52.56	78.84
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	225.35 62.91	94.35
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	288.41 78.71	118.07
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	447.26 120.15	180.22
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	594.52 160.19	240.30
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	882.12 240.29	360.44
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,027.25 280.34	420.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0830	EA		16", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,177.35 319.79	479.67
40 05 23 23-0831	EA		18", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,480.08 400.49	600.73
40 05 23 23-0832	EA		20", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,059.27 560.69	841.03
40 05 23 23-0833	EA		24", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,043.06 800.99	1,201.47
40 05 23 23-0834			Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835			Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836	LF		1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	23.71 3.54	5.90
40 05 23 23-0837	LF		3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	28.81 4.33	7.22
40 05 23 23-0838	LF		1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	35.18 5.08	8.53
40 05 23 23-0839	LF		1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	43.99 6.35	10.49
40 05 23 23-0840	LF		1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	50.60 7.16	11.81
40 05 23 23-0841	LF		2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	64.67 8.86	15.08
40 05 23 23-0842	LF		2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	79.82 10.13	17.06
40 05 23 23-0843	LF		3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	78.56 11.41	19.02
40 05 23 23-0844	LF		4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	126.99 13.50	22.30
40 05 23 23-0845	LF		6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	196.08 17.73	29.51
40 05 23 23-0846	LF		8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	336.77 30.58	47.35
40 05 23 23-0847	LF		10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	425.25 33.64	52.33
40 05 23 23-0848	LF		12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	529.03 37.38	57.93
40 05 23 23-0849			Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0634)		
40 05 23 23-0850	EA		1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	154.28 44.86	67.29
40 05 23 23-0851	EA		3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	163.47 47.62	71.42
40 05 23 23-0852	EA		1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.90 52.33	78.50
40 05 23 23-0853	EA		1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	196.01 57.04	85.56
40 05 23 23-0854	EA		1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	216.30 62.99	94.48
40 05 23 23-0855	EA		2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	242.38 70.07	105.11
40 05 23 23-0856	EA		2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	317.08 89.69	134.52
40 05 23 23-0857	EA		3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	373.95 105.11	157.67
40 05 23 23-0858	EA		4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	462.66 125.81	188.72
40 05 23 23-0859	EA		6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	656.22 157.16	235.75
40 05 23 23-0860	EA		8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,049.79 240.29	360.45
40 05 23 23-0861	EA		10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,611.41 320.39	480.58
40 05 23 23-0862	EA		12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,331.50 480.59	720.89
40 05 23 23-0863	EA		14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,640.84 560.69	841.03
40 05 23 23-0864	EA		16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,145.86 639.57	959.35
40 05 23 23-0865	EA		18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,993.95 800.99	1,201.48
40 05 23 23-0866	EA		20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,451.36 1,121.38	1,682.07
40 05 23 23-0867	EA		24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,874.82 1,601.97	2,402.95
40 05 23 23-0868			Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0634)		



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	156.04 44.86	67.29
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	165.23 47.62	71.42
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	180.95 52.33	78.50
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	196.52 57.04	85.56
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	217.35 62.99	94.48
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	242.38 70.07	105.11
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	317.08 89.69	134.52
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	367.09 105.11	157.67
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	449.63 125.81	188.72
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	602.72 157.16	235.75
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	955.52 240.29	360.45
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,394.16 320.39	480.58
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,040.67 480.59	720.89
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,339.84 560.69	841.03
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,652.03 639.57	959.35
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,379.17 800.99	1,201.48
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,640.40 1,121.38	1,682.07
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,791.82 1,601.97	2,402.95
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	203.09 57.02	85.53
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	246.33 69.99	105.00
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	275.17 78.65	117.97
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	315.46 89.69	134.52
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	333.91 96.27	144.40
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	364.08 105.00	157.49
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	445.34 125.81	188.72
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	553.71 157.67	236.50
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	632.07 176.95	265.43
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	926.37 235.94	353.89
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,412.79 320.39	480.58
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,291.77 480.59	720.89
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,832.54 600.74	901.11
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,854.31 721.92	1,082.87
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,755.48 880.67	1,320.99
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,131.18 1,121.38	1,682.07
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,992.87 1,475.50	2,213.25
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,639.74 2,242.76	3,364.13
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)		
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	184.85 47.64	71.45
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	220.63 58.37	87.56
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	272.14 65.59	98.38

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	281.80 74.77	112.16
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	294.92 80.35	120.52
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	368.78 87.56	131.34
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	396.31 104.96	157.43
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	515.23 131.18	196.77
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	666.82 149.89	224.83
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,012.29 200.24	300.37
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,907.12 267.00	400.50
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,585.90 400.49	600.73
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,976.36 481.14	721.72
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,675.31 586.90	880.36
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,733.57 747.59	1,121.37
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,635.77 983.67	1,475.49
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	10,325.93 1,493.84	2,240.76
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0834)		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	154.78 43.32	64.98
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	169.50 47.21	70.81
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	186.73 52.33	78.50
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	201.03 57.04	85.56
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	218.76 62.99	94.48
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	285.06 78.71	118.07
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	314.52 89.60	134.41
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	365.84 105.00	157.49
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	485.71 133.67	200.51
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	735.26 192.24	288.36
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	960.84 240.29	360.45
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,240.96 320.39	480.58
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,735.28 420.52	630.77
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,992.02 479.22	718.82
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,604.79 600.74	901.11
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,513.06 800.99	1,201.48
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,114.32 1,201.48	1,802.21
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	174.67 43.32	64.98
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	187.63 47.21	70.81
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	213.86 52.33	78.50
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	225.85 57.04	85.56
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	245.16 62.99	94.48
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	298.09 78.71	118.07
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	365.38 89.60	134.41
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	409.49 105.00	157.49
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	557.34 133.67	200.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	788.86	288.36
<i>For Work In Restricted Working Space, Add</i>	192.24	
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	1,078.69	360.45
<i>For Work In Restricted Working Space, Add</i>	240.29	
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	1,476.65	480.58
<i>For Work In Restricted Working Space, Add</i>	320.39	
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	2,131.27	630.77
<i>For Work In Restricted Working Space, Add</i>	420.52	
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	2,447.90	718.82
<i>For Work In Restricted Working Space, Add</i>	479.22	
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	3,227.97	901.11
<i>For Work In Restricted Working Space, Add</i>	600.74	
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	4,191.08	1,201.48
<i>For Work In Restricted Working Space, Add</i>	800.99	
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	6,284.08	1,802.21
<i>For Work In Restricted Working Space, Add</i>	1,201.48	
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0834)		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap	82.87	33.65
<i>For Work In Restricted Working Space, Add</i>	22.43	
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap	89.57	35.71
<i>For Work In Restricted Working Space, Add</i>	23.81	
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap	98.84	39.25
<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap	110.80	42.77
<i>For Work In Restricted Working Space, Add</i>	28.52	
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap	114.66	47.24
<i>For Work In Restricted Working Space, Add</i>	31.49	
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap	128.93	52.56
<i>For Work In Restricted Working Space, Add</i>	35.04	
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap	162.92	67.27
<i>For Work In Restricted Working Space, Add</i>	44.84	
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap	188.74	78.84
<i>For Work In Restricted Working Space, Add</i>	52.56	
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap	229.23	94.35
<i>For Work In Restricted Working Space, Add</i>	62.91	
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap	304.60	118.07
<i>For Work In Restricted Working Space, Add</i>	78.71	
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap	477.68	180.22
<i>For Work In Restricted Working Space, Add</i>	120.15	
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap	639.28	240.30
<i>For Work In Restricted Working Space, Add</i>	160.19	
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap	955.32	360.44
<i>For Work In Restricted Working Space, Add</i>	240.29	
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap	1,098.19	420.52
<i>For Work In Restricted Working Space, Add</i>	280.34	
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap	1,240.90	479.67
<i>For Work In Restricted Working Space, Add</i>	319.79	
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap	1,573.13	600.73
<i>For Work In Restricted Working Space, Add</i>	400.49	
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap	2,176.41	841.03
<i>For Work In Restricted Working Space, Add</i>	560.69	
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap	3,271.17	1,201.47
<i>For Work In Restricted Working Space, Add</i>	800.99	
40 05 23 23-0978 Valves (40 05 23 23-0231)		
40 05 23 23-0979 Gate Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged.....	516.21	67.62
<i>For Work In Restricted Working Space, Add</i>	25.36	
<i>For Class 200, Deduct</i>	-115.47	
<i>For Class 300, Add</i>	405.78	
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged.....	563.30	70.45
<i>For Work In Restricted Working Space, Add</i>	29.59	
<i>For Class 200, Deduct</i>	-124.30	
<i>For Class 300, Add</i>	436.79	
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged.....	698.27	105.67
<i>For Work In Restricted Working Space, Add</i>	39.87	
<i>For Class 200, Deduct</i>	-151.23	
<i>For Class 300, Add</i>	531.44	
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged.....	875.26	123.27
<i>For Work In Restricted Working Space, Add</i>	45.94	
<i>For Class 200, Deduct</i>	-193.17	
<i>For Class 300, Add</i>	678.79	
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged.....	994.46	155.18
<i>For Work In Restricted Working Space, Add</i>	58.19	
<i>For Class 200, Deduct</i>	-214.13	
<i>For Class 300, Add</i>	752.46	
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged.....	1,182.14	187.81
<i>For Work In Restricted Working Space, Add</i>	70.45	
<i>For Class 200, Deduct</i>	-253.41	
<i>For Class 300, Add</i>	890.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,669.48 76.85 1,328.52	204.29
40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,884.34 89.93 1,489.51	239.52
40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,530.24 150.95 1,905.44	401.54
40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,159.79 190.88 3,312.10	507.20
40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	8,868.26 241.52 7,579.39	648.09
40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	12,445.63 295.87 10,771.84	788.99
40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	18,635.25 358.63 16,393.43	958.05
40 05 23 23-0993 Globe Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	694.34 25.36 -163.12 573.22	67.62
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	770.30 29.59 -179.67 631.37	70.45
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	963.66 39.87 -222.23 780.91	105.67
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,431.26 58.19 -330.98 1,163.05	155.18
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,746.08 70.45 -404.26 1,420.58	187.81
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,437.77 76.85 2,990.71	204.29
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,569.75 89.93 3,073.79	239.52
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,303.42 150.95 3,572.23	401.54
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,839.07 190.88 6,770.62	507.20
40 05 23 23-1003 Check Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,601.66 76.85 1,264.77	204.29
40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,687.21 89.93 1,304.20	239.52
40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,662.47 150.95 2,029.73	401.54
40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,495.44 190.88 3,627.61	507.20
40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,788.30 241.52 6,564.23	648.09
40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)		
40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	102.24 27.27	40.90
40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	135.37 36.36	54.53
40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	167.16 45.08	67.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting	238.86	95.69
For Work In Restricted Working Space, Add	63.80	
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting	266.01	107.92
For Work In Restricted Working Space, Add	71.94	
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting.....	334.46	137.09
For Work In Restricted Working Space, Add	91.39	
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting	569.70	211.34
For Work In Restricted Working Space, Add	140.89	
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting.....	752.07	269.79
For Work In Restricted Working Space, Add	179.86	
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting.....	977.05	338.13
For Work In Restricted Working Space, Add	225.42	
40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)		
40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	66.72	22.73
For Work In Restricted Working Space, Add	13.64	
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	84.23	30.30
For Work In Restricted Working Space, Add	18.18	
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	101.62	37.57
For Work In Restricted Working Space, Add	22.54	
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	139.90	53.18
For Work In Restricted Working Space, Add	31.90	
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	153.48	59.95
For Work In Restricted Working Space, Add	35.97	
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	196.29	76.15
For Work In Restricted Working Space, Add	45.70	
40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	296.27	117.36
For Work In Restricted Working Space, Add	70.45	
40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	364.05	239.52
For Work In Restricted Working Space, Add	89.93	
40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	463.64	187.81
For Work In Restricted Working Space, Add	112.71	
40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	79.02	22.73
For Work In Restricted Working Space, Add	13.64	
40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	94.17	30.30
For Work In Restricted Working Space, Add	18.18	
40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	108.71	37.57
For Work In Restricted Working Space, Add	22.54	
40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	157.87	53.18
For Work In Restricted Working Space, Add	31.90	
40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	171.45	59.95
For Work In Restricted Working Space, Add	35.97	
40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	214.72	76.15
For Work In Restricted Working Space, Add	45.70	
40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	337.40	117.36
For Work In Restricted Working Space, Add	70.45	
40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	406.12	239.52
For Work In Restricted Working Space, Add	89.93	
40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	528.40	187.81
For Work In Restricted Working Space, Add	112.71	
40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	96.04	33.64
For Work In Restricted Working Space, Add	22.43	
40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	102.99	35.71
For Work In Restricted Working Space, Add	23.81	
40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange.....	114.65	39.25
For Work In Restricted Working Space, Add	26.17	
40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	134.40	42.81
For Work In Restricted Working Space, Add	28.55	
40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	144.12	47.18
For Work In Restricted Working Space, Add	31.46	
40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	160.31	52.57
For Work In Restricted Working Space, Add	35.04	
40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	215.09	67.22
For Work In Restricted Working Space, Add	44.81	
40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange.....	246.75	78.69
For Work In Restricted Working Space, Add	52.47	
40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	309.77	94.29
For Work In Restricted Working Space, Add	62.87	
40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange.....	434.83	117.81
For Work In Restricted Working Space, Add	78.55	
40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange.....	693.57	180.22
For Work In Restricted Working Space, Add	120.15	
40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange.....	966.49	240.28
For Work In Restricted Working Space, Add	160.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1053	EA	12"	150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,475.97 240.29	360.44
40 05 23 23-1054	EA	14"	150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,811.64 280.34	420.52
40 05 23 23-1055	EA	16"	150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,210.59 319.79	479.67
40 05 23 23-1056	EA	18"	150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,725.46 400.49	600.73
40 05 23 23-1057	EA	20"	150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,601.29 560.69	841.03
40 05 23 23-1058	EA	24"	150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,124.83 800.99	1,201.47
40 05 23 23-1059			300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1060	EA	1-1/2"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	110.70 22.43	33.64
40 05 23 23-1061	EA	3/4"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	115.29 23.81	35.71
40 05 23 23-1062	EA	1"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	123.17 26.17	39.25
40 05 23 23-1063	EA	1-1/4"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	150.92 28.55	42.81
40 05 23 23-1064	EA	1-1/2"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	160.64 31.46	47.18
40 05 23 23-1065	EA	2"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	174.49 35.04	52.57
40 05 23 23-1066	EA	2-1/2"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	239.66 44.81	67.22
40 05 23 23-1067	EA	3"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	274.16 52.47	78.69
40 05 23 23-1068	EA	4"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	374.04 62.87	94.29
40 05 23 23-1069	EA	6"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	507.62 78.55	117.81
40 05 23 23-1070	EA	8"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	875.08 120.15	180.22
40 05 23 23-1071	EA	10"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,206.16 160.19	240.28
40 05 23 23-1072	EA	12"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,780.41 240.29	360.44
40 05 23 23-1073	EA	14"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,292.88 280.34	420.52
40 05 23 23-1074	EA	16"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,786.10 319.79	479.67
40 05 23 23-1075	EA	18"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,544.97 400.49	600.73
40 05 23 23-1076	EA	20"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,649.82 560.69	841.03
40 05 23 23-1077	EA	24"	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,744.23 800.99	1,201.47
40 05 23 23-1078			150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1079	EA	1/2"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	168.44 44.86	67.28
40 05 23 23-1080	EA	3/4"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	178.11 47.62	71.41
40 05 23 23-1081	EA	1"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	195.73 52.34	78.50
40 05 23 23-1082	EA	1-1/4"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	219.11 57.08	85.62
40 05 23 23-1083	EA	1-1/2"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	238.57 62.92	94.37
40 05 23 23-1084	EA	2"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	270.99 70.09	105.13
40 05 23 23-1085	EA	2-1/2"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	351.23 89.63	134.43
40 05 23 23-1086	EA	3"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	406.05 104.93	157.39
40 05 23 23-1087	EA	4"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	495.70 125.73	188.59
40 05 23 23-1088	EA	6"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	640.39 157.09	235.62
40 05 23 23-1089	EA	8"	150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,021.74 240.29	360.44
40 05 23 23-1090	EA	10"	150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,410.68 320.39	480.58
40 05 23 23-1091	EA	12"	150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,108.23 480.59	720.88
40 05 23 23-1092			300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange.....	177.89	67.28
<i>For Work In Restricted Working Space, Add</i>	44.86	
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	187.08	71.41
<i>For Work In Restricted Working Space, Add</i>	47.62	
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	202.82	78.50
<i>For Work In Restricted Working Space, Add</i>	52.34	
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	233.77	85.62
<i>For Work In Restricted Working Space, Add</i>	57.08	
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	253.23	94.37
<i>For Work In Restricted Working Space, Add</i>	62.92	
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	280.90	105.13
<i>For Work In Restricted Working Space, Add</i>	70.09	
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	388.12	134.43
<i>For Work In Restricted Working Space, Add</i>	89.63	
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	442.91	157.39
<i>For Work In Restricted Working Space, Add</i>	104.93	
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	546.74	188.59
<i>For Work In Restricted Working Space, Add</i>	125.73	
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	784.57	235.62
<i>For Work In Restricted Working Space, Add</i>	157.09	
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,167.32	360.44
<i>For Work In Restricted Working Space, Add</i>	240.29	
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,645.14	480.58
<i>For Work In Restricted Working Space, Add</i>	320.39	
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	2,409.82	720.88
<i>For Work In Restricted Working Space, Add</i>	480.59	
40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	50.08	13.44
<i>For Work In Restricted Working Space, Add</i>	8.97	
40 05 23 23-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	52.53	14.27
<i>For Work In Restricted Working Space, Add</i>	9.52	
40 05 23 23-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	57.13	15.69
<i>For Work In Restricted Working Space, Add</i>	10.47	
40 05 23 23-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	70.51	17.47
<i>For Work In Restricted Working Space, Add</i>	11.65	
40 05 23 23-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	84.15	23.61
<i>For Work In Restricted Working Space, Add</i>	15.74	
40 05 23 23-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	97.49	26.21
<i>For Work In Restricted Working Space, Add</i>	17.47	
40 05 23 23-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	130.67	33.70
<i>For Work In Restricted Working Space, Add</i>	22.47	
40 05 23 23-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	166.40	47.22
<i>For Work In Restricted Working Space, Add</i>	31.49	
40 05 23 23-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	260.91	78.68
<i>For Work In Restricted Working Space, Add</i>	52.46	
40 05 23 23-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	350.59	101.18
<i>For Work In Restricted Working Space, Add</i>	67.46	
40 05 23 23-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	479.40	112.14
<i>For Work In Restricted Working Space, Add</i>	74.76	
40 05 23 23-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	698.93	134.57
<i>For Work In Restricted Working Space, Add</i>	89.71	
40 05 23 23-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	915.02	168.20
<i>For Work In Restricted Working Space, Add</i>	112.14	
40 05 23 23-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,159.61	210.26
<i>For Work In Restricted Working Space, Add</i>	140.18	
40 05 23 23-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,464.43	239.84
<i>For Work In Restricted Working Space, Add</i>	159.89	
40 05 23 23-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,748.38	300.37
<i>For Work In Restricted Working Space, Add</i>	200.25	
40 05 23 23-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	2,344.11	420.52
<i>For Work In Restricted Working Space, Add</i>	280.34	
40 05 23 23-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	3,402.10	600.73
<i>For Work In Restricted Working Space, Add</i>	400.49	
40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	59.70	13.44
<i>For Work In Restricted Working Space, Add</i>	8.97	
40 05 23 23-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	61.53	14.27
<i>For Work In Restricted Working Space, Add</i>	9.52	
40 05 23 23-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	64.69	15.69
<i>For Work In Restricted Working Space, Add</i>	10.47	
40 05 23 23-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	79.49	17.47
<i>For Work In Restricted Working Space, Add</i>	11.65	
40 05 23 23-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	93.13	23.61
<i>For Work In Restricted Working Space, Add</i>	15.74	
40 05 23 23-1131 EA 2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	102.21	26.21
<i>For Work In Restricted Working Space, Add</i>	17.47	
40 05 23 23-1132 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	163.76	33.70
<i>For Work In Restricted Working Space, Add</i>	22.47	
40 05 23 23-1133 EA 3", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	197.36	47.22
<i>For Work In Restricted Working Space, Add</i>	31.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	299.66	78.68
<i>For Work In Restricted Working Space, Add</i>	52.46	
40 05 23 23-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange	510.35	101.18
<i>For Work In Restricted Working Space, Add</i>	67.46	
40 05 23 23-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange	670.36	112.14
<i>For Work In Restricted Working Space, Add</i>	74.76	
40 05 23 23-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange	931.48	134.57
<i>For Work In Restricted Working Space, Add</i>	89.71	
40 05 23 23-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,271.90	168.20
<i>For Work In Restricted Working Space, Add</i>	112.14	
40 05 23 23-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,754.85	210.26
<i>For Work In Restricted Working Space, Add</i>	140.18	
40 05 23 23-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,215.94	239.84
<i>For Work In Restricted Working Space, Add</i>	159.89	
40 05 23 23-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,879.40	300.37
<i>For Work In Restricted Working Space, Add</i>	200.25	
40 05 23 23-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange	3,685.99	420.52
<i>For Work In Restricted Working Space, Add</i>	280.34	
40 05 23 23-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange	5,609.18	600.73
<i>For Work In Restricted Working Space, Add</i>	400.49	
40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	75.24	22.73
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	95.12	30.30
<i>For Work In Restricted Working Space, Add</i>	18.18	
40 05 23 23-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	112.00	37.57
<i>For Work In Restricted Working Space, Add</i>	22.54	
40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	155.49	53.18
<i>For Work In Restricted Working Space, Add</i>	31.90	
40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	169.07	59.95
<i>For Work In Restricted Working Space, Add</i>	35.97	
40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	213.32	76.15
<i>For Work In Restricted Working Space, Add</i>	45.70	
40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	320.86	117.36
<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	395.73	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	508.06	187.81
<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	91.31	22.73
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	106.46	30.30
<i>For Work In Restricted Working Space, Add</i>	18.18	
40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	121.00	37.57
<i>For Work In Restricted Working Space, Add</i>	22.54	
40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	181.51	53.18
<i>For Work In Restricted Working Space, Add</i>	31.90	
40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	195.09	59.95
<i>For Work In Restricted Working Space, Add</i>	35.97	
40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	235.52	76.15
<i>For Work In Restricted Working Space, Add</i>	45.70	
40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	384.20	117.36
<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	453.86	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	604.49	187.81
<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	106.90	33.64
<i>For Work In Restricted Working Space, Add</i>	22.43	
40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange	113.88	35.71
<i>For Work In Restricted Working Space, Add</i>	23.81	
40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange	126.94	39.25
<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange	150.46	42.81
<i>For Work In Restricted Working Space, Add</i>	28.55	
40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	160.18	47.18
<i>For Work In Restricted Working Space, Add</i>	31.46	
40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange	176.85	52.57
<i>For Work In Restricted Working Space, Add</i>	35.04	
40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	242.95	67.22
<i>For Work In Restricted Working Space, Add</i>	44.81	
40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange	271.79	78.69
<i>For Work In Restricted Working Space, Add</i>	52.47	
40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange	352.31	94.29
<i>For Work In Restricted Working Space, Add</i>	62.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	508.57 78.55	117.81
40 05 23 23-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	807.49 120.15	180.22
40 05 23 23-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,156.52 160.19	240.28
40 05 23 23-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,727.00 240.29	360.44
40 05 23 23-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,019.54 280.34	420.52
40 05 23 23-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,481.89 319.79	479.67
40 05 23 23-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,055.03 400.49	600.73
40 05 23 23-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,011.89 560.69	841.03
40 05 23 23-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,706.68 800.99	1,201.47
40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	124.88 22.43	33.64
40 05 23 23-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	129.47 23.81	35.71
40 05 23 23-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	137.35 26.17	39.25
40 05 23 23-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	170.33 28.55	42.81
40 05 23 23-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	180.05 31.46	47.18
40 05 23 23-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	198.12 35.04	52.57
40 05 23 23-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	280.32 44.81	67.22
40 05 23 23-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	312.45 52.47	78.69
40 05 23 23-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	444.94 62.87	94.29
40 05 23 23-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	682.99 78.55	117.81
40 05 23 23-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,054.25 120.15	180.22
40 05 23 23-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,496.38 160.19	240.28
40 05 23 23-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,206.76 240.29	360.44
40 05 23 23-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,913.00 280.34	420.52
40 05 23 23-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,571.35 319.79	479.67
40 05 23 23-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,553.85 400.49	600.73
40 05 23 23-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,919.30 560.69	841.03
40 05 23 23-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,604.15 800.99	1,201.47
40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	174.12 44.86	67.28
40 05 23 23-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	186.63 47.62	71.41
40 05 23 23-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	205.50 52.34	78.50
40 05 23 23-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	254.73 57.08	85.62
40 05 23 23-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	249.91 62.92	94.37
40 05 23 23-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	273.81 70.09	105.13
40 05 23 23-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	349.35 69.63	134.43
40 05 23 23-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	422.12 104.93	157.39
40 05 23 23-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	529.71 125.73	188.59
40 05 23 23-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	690.96 157.09	235.62
40 05 23 23-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,126.18 240.29	360.44
40 05 23 23-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,553.44 320.39	480.58

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,299.19 480.59	720.88
40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	187.35 44.86	67.28
40 05 23 23-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	196.54 47.62	71.41
40 05 23 23-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	212.28 52.34	78.50
40 05 23 23-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	252.20 57.08	85.62
40 05 23 23-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	271.66 62.92	94.37
40 05 23 23-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	298.33 70.09	105.13
40 05 23 23-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	429.23 89.63	134.43
40 05 23 23-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	484.97 104.93	157.39
40 05 23 23-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	611.96 125.73	188.59
40 05 23 23-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	879.58 157.09	235.62
40 05 23 23-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,265.17 240.29	360.44
40 05 23 23-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,963.73 320.39	480.58
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,690.59 480.59	720.88
40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	54.50 8.97	13.44
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	60.58 9.52	14.27
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	67.99 10.47	15.69
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	79.01 11.65	17.47
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	92.65 15.74	23.61
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	111.67 17.47	26.21
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	152.89 22.47	33.70
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	190.99 31.49	47.22
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	302.50 52.46	78.68
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	417.24 67.46	101.18
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	638.68 74.76	112.14
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	824.67 89.71	134.57
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,277.59 112.14	168.20
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,530.81 140.18	210.26
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,963.82 159.89	239.84
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,327.88 200.25	300.37
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,099.87 280.34	420.52
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,510.37 400.49	600.73
40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	75.77 8.97	13.44
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	77.60 9.52	14.27
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	80.76 10.47	15.69
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	114.01 11.65	17.47
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	127.65 15.74	23.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	141.44 17.47	26.21
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	224.28 22.47	33.70
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	259.05 31.49	47.22
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	403.65 52.46	78.68
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	687.63 67.46	101.18
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	853.78 74.76	112.14
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,464.69 89.71	134.57
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,790.46 112.14	168.20
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,551.32 140.18	210.26
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,256.97 159.89	239.84
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,247.60 200.25	300.37
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,387.99 280.34	420.52
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,253.05 400.49	600.73
40 05 23 23-1268 Type 316 Seamless Annealed Tubing (40 05 23 23) Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 23-1269 Type 316 Seamless Annealed Tubing (40 05 23 23-1268)		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	21.74	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	26.28	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	31.61	
40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1268) Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	75.72	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	75.67	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	115.68	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	61.95	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	102.51	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	82.08	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	94.43	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	144.86	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	90.83	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	142.82	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	94.06	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	118.57	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	192.45	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules.....	156.54	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	195.05	
40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1268)		
40 05 23 23-1290 Needle Valves (40 05 23 23-1289)		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	310.87	
40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	483.57	
40 05 23 23-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1289)		
40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	295.93	
40 05 23 23-1295 Other Valves Working Pressure 6,000 PSI (40 05 23 23-1289)		
40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,167.17	
40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	307.05	
40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	67.92	
40 05 41 Glass Process Pipe (40 05)		
40 05 41 00-0001 Glass Pressure Pipe (40 05 41)		
40 05 41 00-0002 Glass Pipe, Beaded Joints (40 05 41 00-0001)		
40 05 41 00-0003 LF 1/2" Glass Pipe, Pressure.....	46.87	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
40 05 41 00-0004 LF 3/4" Glass Pipe, Pressure.....	56.24	23.34
<i>For Work In Restricted Working Space, Add</i>	14.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 41 Glass Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 41 00-0005	LF		1" Glass Pipe, Pressure.....	64.30	25.94
			<i>For Work In Restricted Working Space, Add</i>	15.56	
40 05 41 00-0006	LF		1-1/2" Glass Pipe, Pressure.....	85.59	35.01
			<i>For Work In Restricted Working Space, Add</i>	21.01	
40 05 41 00-0007	LF		2" Glass Pipe, Pressure.....	103.59	41.50
			<i>For Work In Restricted Working Space, Add</i>	24.90	
40 05 41 00-0008	LF		3" Glass Pipe, Pressure.....	125.38	47.98
			<i>For Work In Restricted Working Space, Add</i>	28.79	
40 05 41 00-0009	LF		4" Glass Pipe, Pressure.....	170.88	64.84
			<i>For Work In Restricted Working Space, Add</i>	38.90	
40 05 41 00-0010	LF		6" Glass Pipe, Pressure.....	229.54	77.81
			<i>For Work In Restricted Working Space, Add</i>	46.69	
40 05 41 00-0011			Glass 90 Degree Elbows (40 05 41 00-0001)		
40 05 41 00-0012	EA		1/2" 90 Degree Elbow, Glass, Pressure.....	226.09	103.74
			<i>For Work In Restricted Working Space, Add</i>	62.24	
40 05 41 00-0013	EA		3/4" 90 Degree Elbow, Glass, Pressure.....	242.37	110.22
			<i>For Work In Restricted Working Space, Add</i>	66.14	
40 05 41 00-0014	EA		1" 90 Degree Elbow, Glass, Pressure.....	262.09	116.71
			<i>For Work In Restricted Working Space, Add</i>	70.02	
40 05 41 00-0015	EA		1-1/2" 90 Degree Elbow, Glass, Pressure.....	289.94	129.67
			<i>For Work In Restricted Working Space, Add</i>	77.81	
40 05 41 00-0016	EA		2" 90 Degree Elbow, Glass, Pressure.....	326.08	142.64
			<i>For Work In Restricted Working Space, Add</i>	85.59	
40 05 41 00-0017	EA		3" 90 Degree Elbow, Glass, Pressure.....	402.14	168.57
			<i>For Work In Restricted Working Space, Add</i>	101.14	
40 05 41 00-0018	EA		4" 90 Degree Elbow, Glass, Pressure.....	453.52	181.54
			<i>For Work In Restricted Working Space, Add</i>	108.91	
40 05 41 00-0019	EA		6" 90 Degree Elbow, Glass, Pressure.....	650.77	207.48
			<i>For Work In Restricted Working Space, Add</i>	124.50	
40 05 41 00-0020			Glass 45 Degree Elbows (40 05 41 00-0001)		
40 05 41 00-0021	EA		1/2" 45 Degree Elbow, Glass, Pressure.....	225.34	103.74
			<i>For Work In Restricted Working Space, Add</i>	62.24	
40 05 41 00-0022	EA		3/4" 45 Degree Elbow, Glass, Pressure.....	241.50	110.22
			<i>For Work In Restricted Working Space, Add</i>	66.14	
40 05 41 00-0023	EA		1" 45 Degree Elbow, Glass, Pressure.....	260.93	116.71
			<i>For Work In Restricted Working Space, Add</i>	70.02	
40 05 41 00-0024	EA		1-1/2" 45 Degree Elbow, Glass, Pressure.....	288.71	129.67
			<i>For Work In Restricted Working Space, Add</i>	77.81	
40 05 41 00-0025	EA		2" 45 Degree Elbow, Glass, Pressure.....	324.40	142.64
			<i>For Work In Restricted Working Space, Add</i>	85.58	
40 05 41 00-0026	EA		3" 45 Degree Elbow, Glass, Pressure.....	399.57	168.57
			<i>For Work In Restricted Working Space, Add</i>	101.15	
40 05 41 00-0027	EA		4" 45 Degree Elbow, Glass, Pressure.....	449.90	181.54
			<i>For Work In Restricted Working Space, Add</i>	108.91	
40 05 41 00-0028	EA		6" 45 Degree Elbow, Glass, Pressure.....	641.18	207.48
			<i>For Work In Restricted Working Space, Add</i>	124.45	
40 05 41 00-0029			Glass Tees (40 05 41 00-0001)		
40 05 41 00-0030	EA		1/2" Tee, Glass, Pressure.....	343.13	155.61
			<i>For Work In Restricted Working Space, Add</i>	93.38	
40 05 41 00-0031	EA		3/4" Tee, Glass, Pressure.....	369.46	168.57
			<i>For Work In Restricted Working Space, Add</i>	101.15	
40 05 41 00-0032	EA		1" Tee, Glass, Pressure.....	398.72	181.54
			<i>For Work In Restricted Working Space, Add</i>	108.91	
40 05 41 00-0033	EA		1-1/2" Tee, Glass, Pressure.....	441.20	194.51
			<i>For Work In Restricted Working Space, Add</i>	116.69	
40 05 41 00-0034	EA		2" Tee, Glass, Pressure.....	489.16	213.97
			<i>For Work In Restricted Working Space, Add</i>	128.39	
40 05 41 00-0035	EA		3" Tee, Glass, Pressure.....	593.89	259.35
			<i>For Work In Restricted Working Space, Add</i>	155.61	
40 05 41 00-0036	EA		4" Tee, Glass, Pressure.....	670.57	272.19
			<i>For Work In Restricted Working Space, Add</i>	163.32	
40 05 41 00-0037	EA		6" Tee, Glass, Pressure.....	842.74	311.09
			<i>For Work In Restricted Working Space, Add</i>	186.68	
40 05 41 00-0038			Glass Couplings, Vitron Liner (40 05 41 00-0001)		
40 05 41 00-0039	EA		1/2" Coupling, Vitron Liner, Glass.....	26.76	
40 05 41 00-0040	EA		3/4" Coupling, Vitron Liner, Glass.....	30.59	
40 05 41 00-0041	EA		1" Coupling, Vitron Liner, Glass.....	35.69	
40 05 41 00-0042	EA		1-1/2" Coupling, Vitron Liner, Glass.....	40.78	
40 05 41 00-0043	EA		2" Coupling, Vitron Liner, Glass.....	49.07	
40 05 41 00-0044	EA		3" Coupling, Vitron Liner, Glass.....	89.85	
40 05 41 00-0045	EA		4" Coupling, Vitron Liner, Glass.....	108.33	
40 05 41 00-0046	EA		6" Coupling, Vitron Liner, Glass.....	216.66	



Process Interconnections	40	40
Common Work Results For Process Interconnections	40 05	
Glass Process Pipe	40 05 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 40

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 41 Glass Process Pipe



MINOR	DESCRIPTION
CSI UOM	DESCRIPTION

TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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41 Material Processing and Handling Equipment

41 01 Operation and Maintenance of Material Processing and Handling Equipment⁽⁴¹⁾

41 01 20 Operation and Maintenance of Piece Material Handling Equipment^(41 01)

41 01 20 13 Operation And Maintenance Of Hoists Or Cranes^(41 01 20)

41 01 20 13-0001 Maintenance^(41 01 20 13)

41 01 20 13-0002	EA	Regular Inspection.....	400.42
41 01 20 13-0003	HR	Hoist Or Crane Servicing, Labor Only.....	120.36
41 01 20 13-0004	MO	Hoist Or Crane Maintenance Contract.....	820.15

41 20 Piece Material Handling Equipment⁽⁴¹⁾

41 22 Cranes and Hoists^(41 20)

41 22 23 Hoists^(41 22)

41 22 23 13 Fixed Hoists^(41 22 23)

41 22 23 13-0001 Air-Powered Chain Hoists^(41 22 23 13)

Note: Excludes beam.

41 22 23 13-0002	EA	500 LB Capacity, Air-Powered Chain Hoist.....	5,737.85	377.85
41 22 23 13-0003	EA	1,000 LB Capacity, Air-Powered Chain Hoist.....	5,803.40	377.85
41 22 23 13-0004	EA	2,000 LB Capacity, Air-Powered Chain Hoist.....	6,980.19	377.85
41 22 23 13-0005	EA	4,000 LB Capacity, Air-Powered Chain Hoist.....	8,812.32	503.79
41 22 23 13-0006	EA	6,000 LB Capacity, Air-Powered Chain Hoist.....	11,127.80	629.74
41 22 23 13-0007	EA	8,000 LB Capacity, Air-Powered Chain Hoist.....	13,107.85	925.46
41 22 23 13-0008	EA	10,000 LB Capacity, Air-Powered Chain Hoist.....	15,145.38	1,117.78
41 22 23 13-0009	EA	12,000 LB Capacity, Air-Powered Chain Hoist.....	16,872.84	1,117.78

41 22 23 13-0010 Electric Hoists^(41 22 23 13)

41 22 23 13-0011 Electric Industrial Chain Hoists^(41 22 23 13-0010)

Note: Includes 20' of chain. Excludes beams.

41 22 23 13-0012	EA	500 LB Capacity, Electric Industrial Chain Hoist.....	4,077.42	365.25
		<i>For DC Electrical Operated, Add</i>	836.17	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0013	EA	1,000 LB Capacity, Electric Industrial Chain Hoist.....	4,260.12	365.25
		<i>For DC Electrical Operated, Add</i>	881.36	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0014	EA	2,000 LB Capacity, Electric Industrial Chain Hoist.....	4,719.06	365.25
		<i>For DC Electrical Operated, Add</i>	993.08	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0015	EA	3,000 LB Capacity, Electric Industrial Chain Hoist.....	7,166.14	377.85
		<i>For DC Electrical Operated, Add</i>	1,596.87	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0016	EA	4,000 LB Capacity, Electric Industrial Chain Hoist.....	6,158.20	377.85
		<i>For DC Electrical Operated, Add</i>	1,342.65	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0017	EA	5,000 LB Capacity, Electric Industrial Chain Hoist.....	8,850.30	390.44
		<i>For DC Electrical Operated, Add</i>	2,005.53	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0018	EA	6,000 LB Capacity, Electric Industrial Chain Hoist.....	7,970.38	428.22
		<i>For DC Electrical Operated, Add</i>	1,750.30	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0019	EA	7,500 LB Capacity, Electric Industrial Chain Hoist.....	9,887.86	528.98
		<i>For DC Electrical Operated, Add</i>	2,223.51	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0020	EA	10,000 LB Capacity, Electric Industrial Chain Hoist.....	11,720.94	538.79
		<i>For DC Electrical Operated, Add</i>	2,697.21	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0021	EA	15,000 LB Capacity, Electric Industrial Chain Hoist.....	18,935.31	562.22
		<i>For DC Electrical Operated, Add</i>	4,452.48	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0022	EA	20,000 LB Capacity, Electric Industrial Chain Hoist.....	22,721.96	585.64
		<i>For DC Electrical Operated, Add</i>	5,386.96	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0023	EA	25,000 LB Capacity, Electric Industrial Chain Hoist.....	31,521.01	609.07
		<i>For DC Electrical Operated, Add</i>	7,574.22	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	
41 22 23 13-0024	EA	30,000 LB Capacity, Electric Industrial Chain Hoist.....	40,389.75	667.64
		<i>For DC Electrical Operated, Add</i>	9,761.98	
		<i>For Each LF Copper Conductor Bar, Add</i>	10.50	

41 Material Processing and Handling Equipment**41 20 Piece Material Handling Equipment****41 22 Cranes and Hoists**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 22 23 13-0025			Hand Chain Hoists <small>(41 22 23 13)</small>		
41 22 23 13-0026	EA		1,000 LB Capacity, Hand Chain Hoist.....	1,504.36	153.12
41 22 23 13-0027	EA		2,000 LB Capacity, Hand Chain Hoist.....	1,765.11	155.22
41 22 23 13-0028	EA		3,000 LB Capacity, Hand Chain Hoist.....	2,356.21	162.56
41 22 23 13-0029	EA		4,000 LB Capacity, Hand Chain Hoist.....	2,646.74	164.65
41 22 23 13-0030	EA		5,000 LB Capacity, Hand Chain Hoist.....	3,186.69	173.05
41 22 23 13-0031	EA		6,000 LB Capacity, Hand Chain Hoist.....	3,571.31	202.41
41 22 23 13-0032	EA		10,000 LB Capacity, Hand Chain Hoist.....	4,931.09	208.71
41 22 23 13-0033	EA		16,000 LB Capacity, Hand Chain Hoist.....	6,433.34	251.70
41 22 23 13-0034	EA		20,000 LB Capacity, Hand Chain Hoist.....	7,845.07	263.24
41 22 23 13-0035	EA		30,000 LB Capacity, Hand Chain Hoist.....	13,779.14	301.00

END OF SECTION 41



Process Gas and Liquid Handling, Purification, and Storage Equipment	43	43
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 Process Gas and Liquid Handling, Purification, and Storage Equipment		
43 20 Liquid Handling Equipment ⁽⁴³⁾		
43 23 Dry Location Liquid Pumps ^(43 20)		
43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)		
43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)		
43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)		
43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....	3,980.13	
43 24 Suspended Liquid Pumps ^(43 20)		
43 24 41 Archimedes Screw Pumps ^(43 24)		
43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)		
43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)		
43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....	3,292.14	
43 40 Gas and Liquid Storage ⁽⁴³⁾		
43 42 Pressurized Tanks And Vessels ^(43 40)		
43 42 41 Metallic Specialty Pressure Tanks ^(43 42)		
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)		
43 42 41 00-0002 EA 250 Gallon Aboveground LP Gas Storage Tank.....	1,755.96	123.54
43 42 41 00-0003 EA 500 Gallon Aboveground LP Gas Storage Tank.....	3,238.87	185.30
43 42 41 00-0004 EA 1,000 Gallon Aboveground LP Gas Storage Tank.....	4,622.92	197.66

END OF SECTION 43

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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